Compact Rough Terrain Series

Maintenance and Parts Manual

Models 6826RT & 6832RT

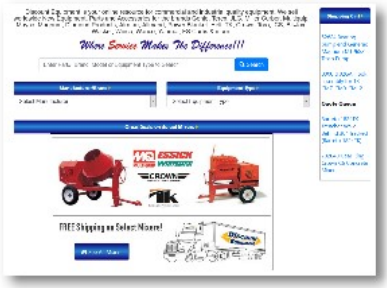
Part No. 129946AH

Printed in Canada Month 2018

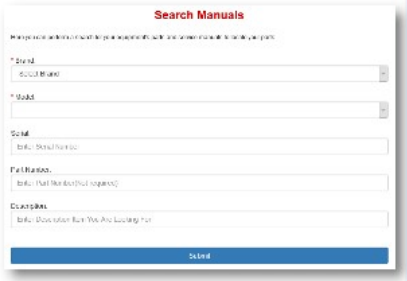
PARTS FINDER

Search Website by Part Number

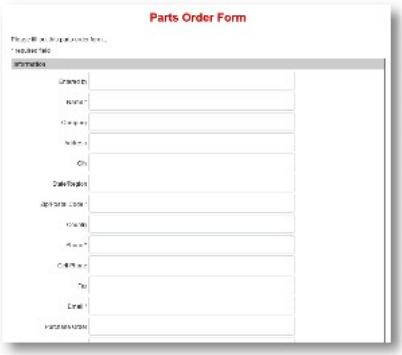
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

Table of Contents

Section - Paragraph **Page No.**

The Safety Alert Symbol identifies important safety messages on machines, safety signs in manuals or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

This Safety Alert Symbol means attention!

Become alert! Your safety is involved.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentionally hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

IMPORTANT indicates a procedure essential for safe operation and which, if not followed, may result in a malfunction or damage to the machine.

SKYJACK is continuously improving and expanding product features on its equipment, therefore, specifications and dimensions are subject to change without notice.

Aerial Platform Definition

A mobile device that has an adjustable position platform supported from ground level by a structure.

Purpose of Equipment

The **SKYJACK** Rough Terrain Compact Series aerial platform is designed to transport and raise personnel, tools and materials to overhead work areas.

Use of Equipment

The aerial platform is a highly maneuverable, mobile work station. Lifting and driving must be on a flat, level, compacted surface. It can be driven over uneven terrain only when the platform is fully lowered.

Manuals

Operating

The operating manual is considered a fundamental part of the aerial platform. It is a very important way to communicate necessary safety information to users and operators. A complete and legible copy of this manual must be kept in the provided weather-resistant storage compartment on the aerial platform at all times.

Maintenance & Parts

The purpose of this is to provide the customer with the servicing and maintenance procedures essential for the promotion of proper machine operation for its intended purpose.

All information in this manual should be read and understood before any attempt is made to service the machine. The updated copy of the manuals are found on the website: www.discount-equipment.com.

Operator

The operator must read and completely understand both the operating manual and the safety panel label located on the platform and all other warnings in this manual and on the aerial platform. Compare the labels on the aerial platform with the labels found within this manual. If any labels are damaged or missing, replace them immediately.

Service Policy and Warranty

Discount-equipment warrants each new SJRT Series aerial platform to be free of defective parts and workmanship for the first 12 months. Any defective part will be replaced or repaired by Discount-equipment at no charge for parts or labor. Contact Discount-equipment for warranty statement extensions or exclusions.

Optional Accessories

The SKYJACK aerial platform is designed to accept a variety of optional accessories. These are listed under “Standard and Optional Features” in Table 2.1 of the Operating Manual. Operating instructions for these options (if equipped) are located in Section 2 of the Operating Manual.

For non-standard components or systems, contact Discount-equipment

Scope of this Manual

a. **This manual** applies to the ANSI/SIA, CSA and CE versions of the Mid Size and Full Size Rough Terrain aerial platform models listed on Table 2.1.

- Equipment identified with “ANSI” meets the ANSI SIA-A92.6-2006 standard.

- Equipment identified with “CSA” meets the CSA B354.2-01 standard.

- Equipment identified with “CE” meets the requirements for the European countries, i.e., Machinery Directive 98/37/EC, 89/392/EEC and EMC Directive 89/336/EEC and the corresponding EN standards.

b. **CSA (Canada) and CE (Europe)**
Operators are required to conform to national, territorial/provincial and local health and safety regulations applicable to the operation of this aerial platform.

c. **ANSI/SIA (United States)**
Operators are required by the current ANSI/SIA A92.6 standards to read and understand their responsibilities in the manual of responsibilities before they use or operate this aerial platform.

WARNING

Failure to comply with your required responsibilities in the use and operation of the aerial platform could result in death or serious injury!

Operator Safety Reminders

A study conducted by St. Paul Travelers showed that most accidents are caused by the failure of the operator to follow simple and fundamental safety rules and precautions.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this aerial platform is mandatory. The following pages of this manual should be read and understood completely before operating the aerial platform.

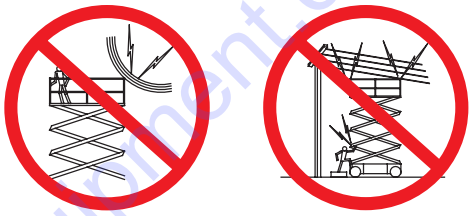
Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

Any modifications from the original design are strictly forbidden without written permission from SKYJACK.

Electrocution Hazard

This aerial platform is not electrically insulated. Maintain a Minimum Safe Approach Distance (MSAD) from energized power lines and parts as listed below. The operator must allow for the platform to sway, rock or sag. This aerial platform does not provide protection from contact with or proximity to an electrically charged conductor.

DO NOT USE THE MACHINE AS A GROUND FOR WELDING.
DO NOT OPERATE THE MACHINE DURING LIGHTNING OR STORMS.



DANGER
Avoid Power Lines

Minimum Safe Approach Distance

ANSI/SIA A92.6-2006 and CSA B354.2-01 Requirements		CE Guidance Note "Avoidance of danger from overhead lines"
Voltage Range (Phase to Phase)	**Minimum Safe Approach Distance (Feet)**	
0 to 300V	Avoid Contact	**Adhere strictly to the governmental rulings and regulations applicable in your country.**
Over 300V to 50KV	10	
Over 50KV to 200KV	15	
Over 200KV to 350KV	20	
Over 350KV to 500KV	25	
Over 500KV to 750KV	35	
Over 750KV to 1000KV	45	

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

60023AD

Safety Precautions

Know and understand the safety precautions before going on to next section.

WARNING

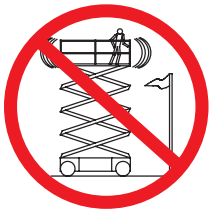
Failure to heed the following safety precautions could result in tip over, falling, crushing, or other hazards leading to death or serious injury.

- **KNOW** all national, state/provincial and local rules which apply to your aerial platform and jobsite.
- **TURN** the (emergency) main power disconnect switch off when leaving the aerial platform unattended. Remove the key to prevent unauthorized use of the aerial platform.
- **WEAR** all the protective clothing and personal safety devices issued to you or called for by job conditions.
- **DO NOT** wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this aerial platform.

- **AVOID** entanglement with ropes, cords or hoses.

- **AVOID** falling. Stay within the boundaries of the guardrails.

- **DO NOT** raise the aerial platform in windy or gusty conditions.



- **DO NOT** increase the lateral surface area of the platform. Increasing the area exposed to the wind will decrease aerial platform stability.

- **DO NOT** drive or elevate the aerial platform if it is not on a firm level surface. Do not drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the aerial platform.

- **If operation in areas with holes or drop-offs is absolutely necessary,** elevated driving shall not be allowed. Position the aerial platform horizontally only with the platform fully lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with level firm surface, the aerial platform can be elevated. After elevation, the drive function must not be activated.

- **Elevated driving** must only be done on a firm level surface.

- **DO NOT** ascend or descend a grade when elevated. When fully lowered, ascending or descending, only grades up to rated maximum listed in Table 2.1 are permissible.

Safety Precautions (Continued)

Know and understand the safety precautions before going on to next section.

- **DO NOT** operate on surfaces not capable of holding the weight of the aerial platform including the rated load, e.g. covers, drains, and trenches.
- **DO NOT** operate an aerial platform that has ladders, scaffolding or other devices mounted on it to increase its size or work height. It is prohibited.

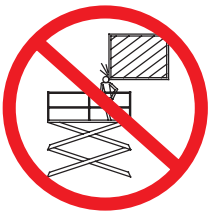
- **DO NOT** exert side forces on aerial platform while elevated.

- **DO NOT** use the aerial platform as a crane. It is prohibited.

- **DO NOT** sit, stand or climb on the guardrails. It is prohibited.

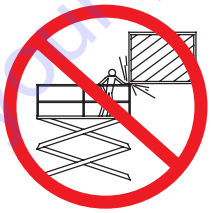
- **DO NOT** climb on scissor arm assembly. It is prohibited.

- **BE AWARE** of overhead obstructions or other possible hazards around the aerial platform when driving or lifting.



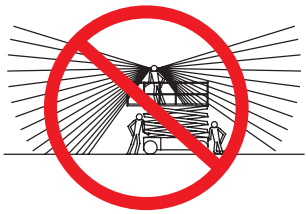
- **DO NOT** raise the platform while the aerial platform is on a truck, fork lift or other device or vehicle.

- **BE AWARE** of crushing hazards. Keep all body parts inside platform guardrail.



- **DO NOT** lower the platform unless the area below is clear of personnel and obstructions.

- **ENSURE** that there are no personnel or obstructions in the path of travel, including blind spots.



- **BE AWARE** of blind spots when operating the aerial platform.
- **STUNT** driving and horseplay are prohibited.
- **ENSURE ALL** tires are in good condition and lug nuts are properly tightened.
- **DO NOT** alter or disable limit switches or other safety devices.
- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate/chain/bar in place.

Safety Precautions (Continued)

Know and understand the safety precautions before going on to next section.

- **DO NOT** exceed the rated capacity of the aerial platform. Do make sure the load is evenly distributed on the platform.
- **DO NOT** attempt to free a snagged platform with lower controls until personnel are removed from the platform.
- **DO NOT** position the aerial platform against another object to steady the platform.
- **DO NOT** place materials on the guardrails or materials that exceed the confines of the guardrails unless approved by Skyjack.

WARNING

Entering and exiting the aerial platform should only be done using the three points of contact.

- Use only equipped access openings.
- Enter and exit only when the aerial platform is in the fully retracted position.

- Do use three points of contact to enter and exit the platform. Enter and exit the platform from the ground only. Face the aerial platform when entering or exiting the platform.
- Three points of contact means that two hands and one foot or one hand and two feet are in contact with the aerial platform or the ground at all times during entering and exiting.

WARNING

An operator should not use any aerial platform that:

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.
- has been tagged or blocked out for non-use or repair.

Failure to avoid these hazards could result in death or serious injury.

Jobsite Inspection

- Do not use in hazardous locations.
- Perform a thorough jobsite inspection prior to operating the aerial platform, to identify potential hazards in your work area.
- Be aware of moving equipment in the area. Take appropriate actions to avoid collision.

Section 2
Maintenance Tables and Diagrams

Table of Contents

Table 2.1a Specifications and Features - ANSI/CSA

Model		Compact RT's			
		6826		6832	
Weight*	No Outriggers	6400 lb.	2903 kg	7660 lb.	3475 kg
	With Outriggers	7500 lb.	3402 kg	8060 lb.	3656 kg
Width		68"	1.73 m	68"	1.73 m
Length	No Outriggers	106.6"	2.71 m	106.6"	2.71 m
	With Outriggers	131.4"	3.34 m	131.4"	3.34 m
Platform Size		56" x 99"	1.4 m x 2.5 m	56" x 99"	1.4 m x 2.5 m
Height	Working	32 ft.	9.8 m	38 ft.	11.7 m
	Platform Elevated	26 ft.	8 m	32 ft.	9.8 m
	Platform Lowered	7.8 ft.	2.37 m	8.25 ft.	2.52 m
	Drive	26 ft.	7.95 m	32 ft.	9.8 m
Speed	Normal Drive	4 mph	6.3 km/h	4 mph	6.3 km/h
	Elevated Drive	0.39 mph	0.63 km/h	0.39 mph	0.63 km/h
	Lift (Rated Load)	36 sec		39 sec	
	Lower (Rated Load)	36 sec		36 sec	
Engine (RPM)	Kubota Diesel	3500 (High Throttle) / 2050 (Low Throttle)			
	Kubota Dual Fuel	3500 (High Throttle) / 2050 (Low Throttle)			
Tires	Foam-filled	OTR Outrigger - 26 x 12			
	Air-filled	N/A			
Sound Pressure		96 dB(A)			
Gradeability (Torque Equivalent To)		50%		40%	

60440AG-ANSI

* Weights are approximate; refer to serial nameplate for specific weight.

Table 2.1b Specifications and Features - CE

Model		Compact RT's			
		6826		6832	
Weight*	No Outriggers	2903 kg	6400 lb.	3475 kg	7661 lb.
	With Outriggers	3305 kg	7286 lb.	3655 kg	8058 lb.
Width		1.73 m	68.1 in.	1.73 m	68.1 in.
Length	No Outriggers	2.7 m	106.3 in.	2.7 m	106.3 in.
	With Outriggers	3.34 m	131.5 in.	3.34 m	131.5 in.
Platform Size		1.4 m x 2.5 m	55 in. x 98 in.	1.4 m x 2.5 m	55 in. x 98 in.
Height	Working	9.8 m	32 ft.	11.7 m	38 ft.
	Platform Elevated	7.9 m	25.9 ft.	9.7 m	31.8 ft.
	Platform Lowered	2.37 m	7.8 ft.	2.51 m	8.2 ft.
	Drive	7.9 m	25.9 ft.	9.7 m	31.8 ft.
Speed	Normal Drive	6.3 km/h	4 mph	6.3 km/h	4 mph
	Elevated Drive	0.63 km/h	0.39 mph	0.63 km/h	0.39 mph
	Lift (Rated Load)	36 sec		39 sec	
	Lower (Rated Load)	36 sec		36 sec	
Engine (RPM)	Kubota Diesel	3500 (High Throttle) / 2050 (Low Throttle)			
	Kubota Dual Fuel	3500 (High Throttle) / 2050 (Low Throttle)			
Tires	Foam-filled	OTR Outrigger - 26 x 12D			
	Air-filled	N/A			
Sound Pressure		96 dB(A)			
Gradeability (Torque Equivalent To)		50%		40%	

60440AH-CE

* Weights are approximate; refer to serial nameplate for specific weight.

Table 2.1c Specifications and Features - AS

Model		Compact RT's	
		6826	6832
Weight*	No Outriggers	2900 kg	3475 kg
	With Outriggers	3305 kg	3655 kg
Width		1.73 m	1.73 m
Length	No Outriggers	2.71 m	2.71 m
	With Outriggers	3.34 m	3.34 m
Platform Size		1.4 m x 2.5 m	1.4 m x 2.5 m
Height	Working	9.8 m	11.6 m
	Platform Elevated	8.0 m	9.8 m
	Platform Lowered	2.37 m	2.51 m
	Drive	8.0 m	9.8 m
Speed	Normal Drive	6.3 km/h	6.3 km/h
	Elevated Drive	0.63 km/h	0.63 km/h
	Lift (Rated Load)	36 sec	39 sec
	Lower (Rated Load)	36 sec	36 sec
Engine (RPM)	Kubota Diesel	3500 (High Throttle) / 2050 (Low Throttle)	
	Kubota Dual Fuel	3500 (High Throttle) / 2050 (Low Throttle)	
Tires	Foam-filled	OTR Outrigger - 26 x 12	
	Air-filled	N/A	
Sound Pressure		96 dB(A)	
Gradeability (Torque Equivalent To)		50%	40%

60440AD-AS

* Weights are approximate; refer to serial nameplate for specific weight.

Table 2.2 Owner's Annual Inspection Record

Model Number: _____				Serial Number: _____				
Recording Date								
Recording Year #	1	2	3	4	5	6	7	8	9
Owner's Name								
Inspected By								

60141AB

As described earlier in this section, this decal is located on the scissor assembly. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 13 months.

Table 2.3a Maximum Platform Capacities (Evenly Distributed) - ANSI/CSA

MODEL		Total Machine Weight			Extension		
		Capacity		Number of Occupants	Capacity		Number of Occupants
6826	One Extension Platform	1250 lb.	567 kg	4	300 lb.	136 kg	1
6832	One Extension Platform	1000 lb.	453.6 kg	4	300 lb.	136 kg	1

60441AC-ANSI

NOTE:
Occupants and materials are not to exceed rated load.
Refer to capacity label for additional information and for models equipped with options.

Table 2.3b Maximum Platform Capacities (Evenly Distributed) - CE

MODEL		Total		Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants
6826	**One Extension Platform**	567 kg	4	136 kg	1
6832	**One Extension Platform**	454 kg	2	136 kg	1

60441AB-CE

NOTE: Occupants and materials are not to exceed rated load.
Refer to capacity label for additional information and for models equipped with options.

BEAUFORT SCALE	Wind Speed				Ground Conditions
	m/s	km/h	ft/s	mph	
3	3.4 – 5.4	12.5 – 19.4	11.5 – 17.75	5 – 12.0	Papers and thin branches move, flags wave
4	5.4 – 8.0	19.4 – 28.8	17.75 – 26.25	12.0 – 18	Dust is raised, paper whirls up, and small branches sway.
5	8.0 – 10.8	28.8 – 38.9	26.25 – 35.5	18 – 24.25	Shrubs with leaves start swaying. Wave crests are apparent in ponds or swamps.
6	10.8 – 13.9	38.9 – 50.0	35.5 – 45.5	24.5 – 31	Tree branches move. Power lines whistle. It is difficult to open an umbrella.
7	13.9 – 17.2	50.0 – 61.9	45.5 – 65.5	31 – 38.5	Whole trees sway. It is difficult to walk against the wind.

60338AC

Table 2.3c Maximum Platform Capacities (Evenly Distributed) - AS

MODEL		Total		Extension	
		Capacity	Number of Occupants	Capacity	Number of Occupants
6826	One Extension Platform	567 kg	4	136 kg	1
6832	One Extension Platform	454 kg	4	136 kg	1

60441AC-AS

NOTE:

Occupants and materials are not to exceed rated load.
Refer to capacity label for additional information and for models equipped with options.

Table 2.4a Floor Loading Pressure - ANSI/CSA

MODEL		Total Aerial Platform Weight		Total Aerial Platform Load					
				Wheel		LCP**		OUP**	
		lb.	kg	lb.	kg	psi	kPa	psf	kg/m^2
6826	min*	6400	2903	2560	1161	157.4	1085	206	1007
	max*	8730	3960	3492	1584	175.41	1209	281	1373
6832	min*	7661	3475	3064	1390	165.59	1142	247	1205
	max*	9235	4189	3605	1635	181.36	1250	297	1452

60442AE-ANSI

* **min -** Total aerial platform weight with no options
max - aerial platform weight + all options + full capacity

** **LCP – Locally Concentrated Pressure** is a measure of how hard the aerial platform presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.

OUP – Overall Uniform Pressure is a measure of the average load the aerial platform imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

NOTE:

The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

Floor Loading Pressure

Locally Concentrated Pressure (LCP):

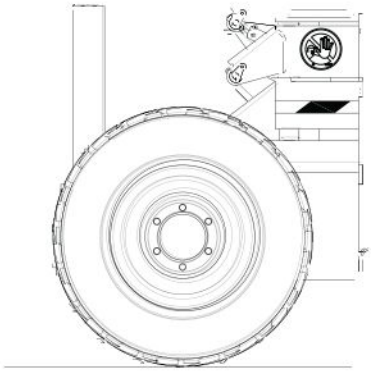
Foot Print Area = Length x Width
$= \pi r^2$

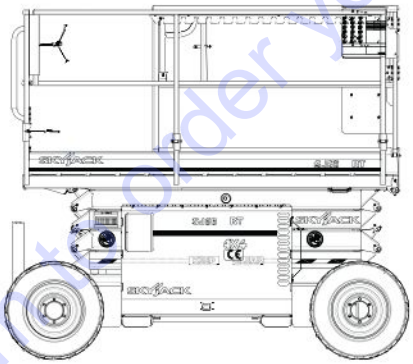
$$LCP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Foot Print Area x 4 (Tires)}}$$

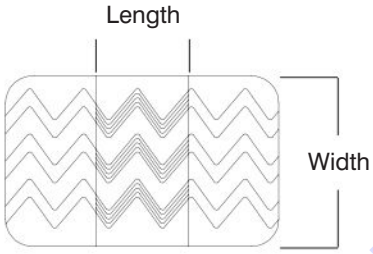
Overall Uniform Pressure (OUP):

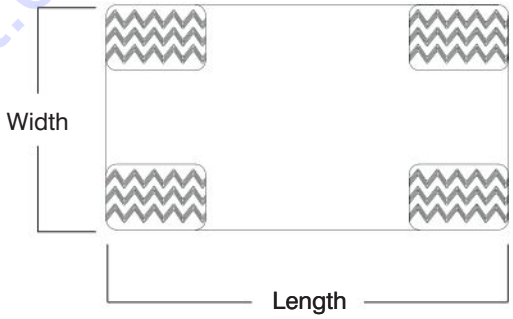
Base Area = Length x Width

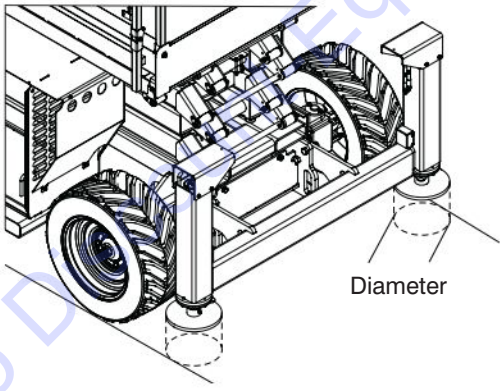
$$OUP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Base Area}}$$

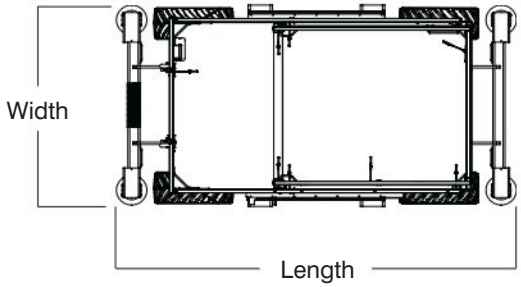












WARNING

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

Table 2.4b Floor Loading Pressure - CE

MODEL		Total Machine Weight		Total Machine Load					
				Wheel		LCP**		OUP**	
		kg	lb.	kg	lb.	kPa	psi	kg/m^2	psf
6826	min*	2903	6400	1161	2560	1085	157.4	1007	206
	max*	3960	8730	1584	3492	1209	175.41	1373	281
6832	min*	3475	7661	1390	3064	1142	165.59	1205	247
	max*	4189	9235	1635	3605	1250	181.36	1452	297

60442AE-CE

* **min** - Total machine weight with no options
max - Machine weight + all options + full capacity

** **LCP – Locally Concentrated Pressure** is a measure of how hard the machine presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.

OUP – Overall Uniform Pressure is a measure of the average load the machine imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

NOTE:
The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

Floor Loading Pressure

Locally Concentrated Pressure (LCP):

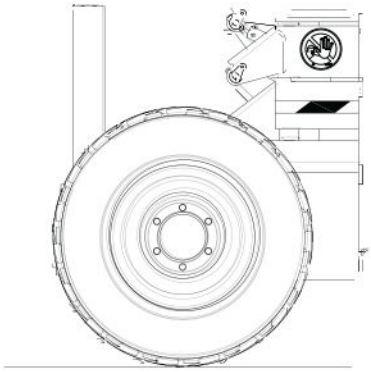
Foot Print Area = Length x Width
$= \pi r^2$

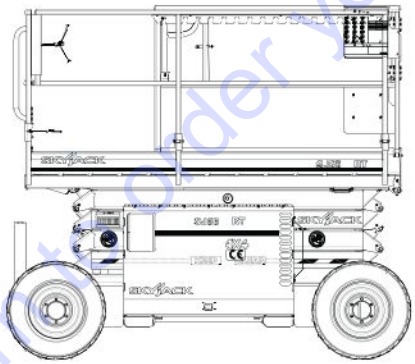
$$LCP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Foot Print Area x 4 (Tires)}}$$

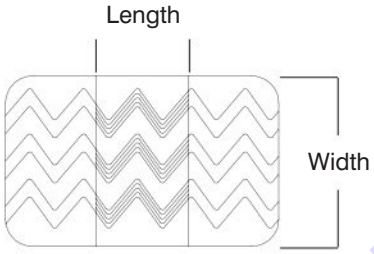
Overall Uniform Pressure (OUP):

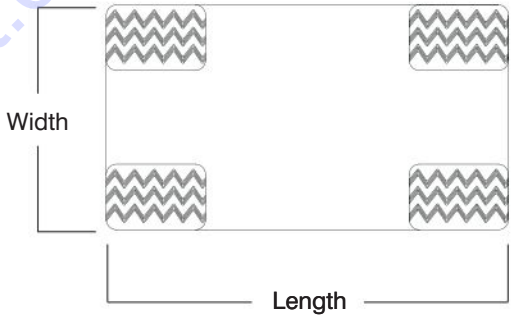
Base Area = Length x Width

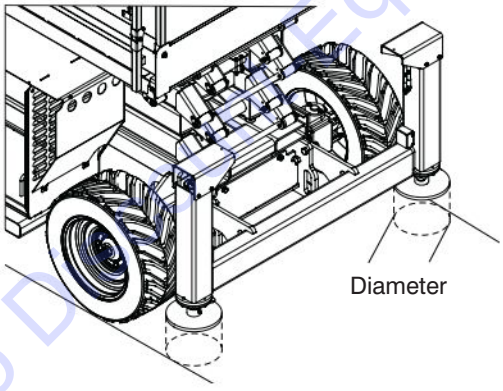
$$OUP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Base Area}}$$

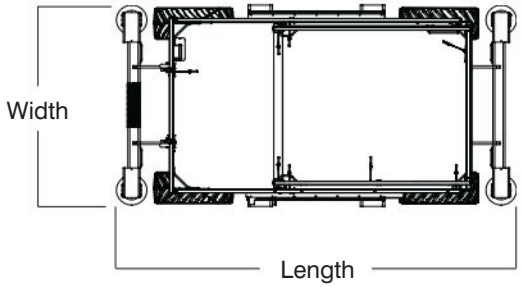












WARNING

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

Table 2.4c Floor Loading Pressure - AS

MODEL		Total Aerial Platform Weight	Total Aerial Platform Load		
			Wheel	LCP**	OUP**
		kg	kg	kPa	kg/m^2
6826	min*	2903	1161	1085	1007
	max*	3960	1584	1209	1373
6832	min*	3475	1390	1142	1205
	max*	4189	1635	1250	1452

60442AE-AS

* **min** - Total aerial platform weight with no options

max - Aerial platform weight + all options + full capacity

** **LCP – Locally Concentrated Pressure** is a measure of how hard the aerial platform presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values

OUP – Overall Uniform Pressure is a measure of the average load the aerial platform imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the

NOTE:

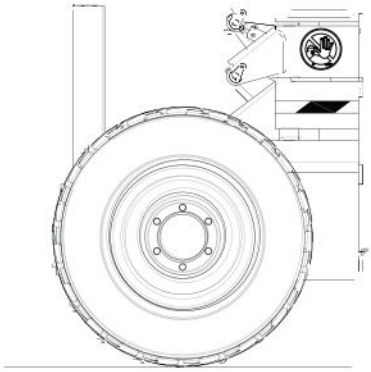
The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

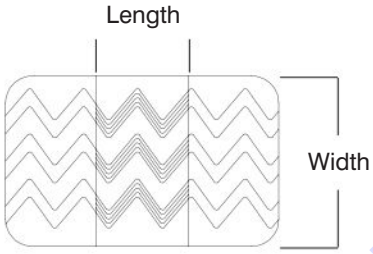
Floor Loading Pressure

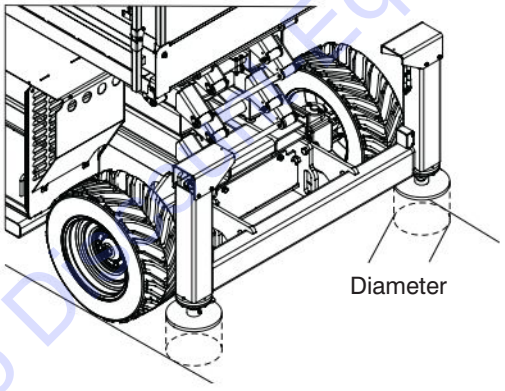
Locally Concentrated Pressure (LCP):

Foot Print Area = Length x Width
$= \pi r^2$

$$LCP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Foot Print Area x 4 (Tires)}}$$



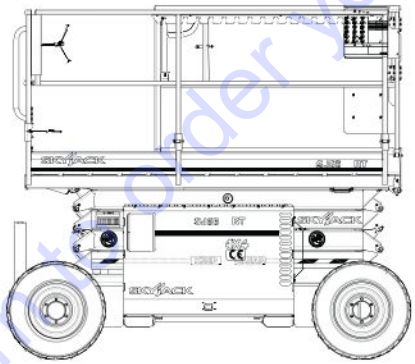


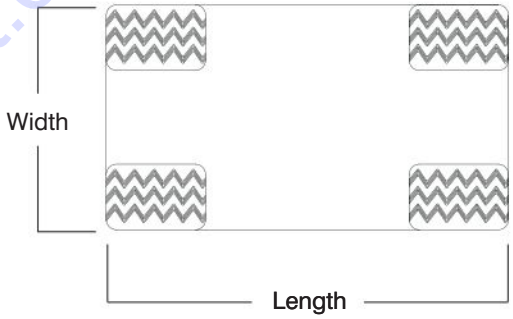


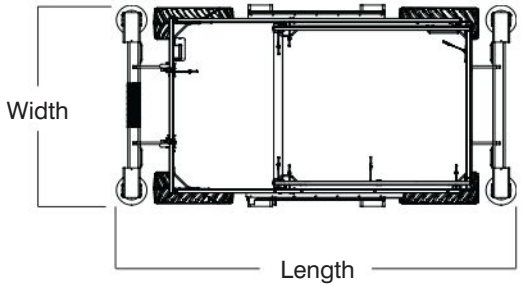
Overall Uniform Pressure (OUP):

Base Area = Length x Width

$$OUP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Base Area}}$$







WARNING

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

Table 2.5 Rough Terrain Scissor Fluids *AE*

AXLE OIL						
Axle Type		*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.	Recommended Equivalent Oil
Cushman	Front	2.4	0.634	Gear Oil, 80W-90 GL5	134612	-
Dana	Front / Rear					
Cushman	Rear	1	0.264	Gear Oil, ESI 80W-90	133461	Chevron Gear Lubricant Delo ESI 80W-90, Caltex Gear Lubricant ESI 80W-90, Caltex RPM Borate EP 80W-90, Texaco Star Gear Lubricant 80W-90

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

CENTER DRIVE OIL					
Center Drive Type	*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.	Recommended Equivalent Oil
Center Drive	1	0.26	Gear Oil, 80W-90 GL5	134612	-

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

HYDRAULIC OIL				
Model	*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.
SJRT-68XX	86.88	22.95	ATF Dexron III	119309
SJRT-7127	80.48	21.26		
SJRT-7135				
SJRT-8243				
SJRT-8850				
SJRT-8831	75.71	20		
SJRT-8841				
SJRT-8831E				
SJRT-8841E				
SJRT-9250	67.38	17.8		

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

Table 2.5 Rough Terrain Scissor Fluids

AE

ENGINE OIL					
Engine Type	*Qty. (Liters)	*Qty. (Gallons)	Oil Type, Viscosity	Skyjack Part No.	Recommended Equivalent Oil (Viscosity - API Service Designation)
Kubota D902	3.9	1.03	Engine Oil, SAE 10W-30	105287	10W30 - API Service Designation CG-4, CF-4, CF, CD, SH.
Kubota D1105	5.1	1.35			
Kubota DF972	3.4	0.9			
Nissan A15	3.5	0.98			
GM 1.6				142454	10W30 - API Service Designation SF/CC.

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE COOLANT				
Component Type	*Qty. (Liters)	*Qty. (Gallons)	**Coolant Type	Skyjack Part No.
Kubota D902	3.1	0.82	Anti-freeze / Water	125985
Kubota D1105				
Kubota DF972				
Nissan A15	11.4	3.01		
GM 1.6			Extended life anti-freeze / Water	142208

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE FUEL							
Model	Tank		Diesel		Gasoline / Liquid Propane		
	*Qty. (Liters)	*Qty. (Gallons)	Kubota D902	Kubtoa D1105	Kubota DF972	GM 1.6	Nissan A15
SJRT-68xx	86.88	22.95	✓	N/A	✓	N/A	
SJRT-7127	80.48	21.26	N/A	✓			
SJRT-7135							
SJRT-8243					N/A	✓	
SJRT-8850							
SJRT-8831	49.21	13					
SJRT-8841							
SJRT-9250	64.35	17					

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

General Maintenance

Before attempting any repair work, disconnect battery by turning emergency main power disconnect switch to off position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 2.6a Maintenance and Inspection Schedule - ANSI/CSA

Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections			
Labels	A		
Electrical	A		
Limit Switches	A		
Hydraulic	A		
Engine Compartment			
Emergency Main Power Disconnect Switch	A		
Base Control Switches	A		
Tilt Sensor	A		
Battery	A		
Hydraulic Pump	A		
Radiator	A		
Muffler and Exhaust	A		
Engine Pivot Tray	A		
Engine Oil Level	A		
Fuel Shut-off Valve	A		
Engine Air Filter	A		
Fuel Leaks	A		
Hydraulic/Fuel Compartment		B*	
Hydraulic Tank	A		
Hydraulic Oil	A		
Hydraulic Return Filter	A		
Fuel Tank	A		
Fuel Leaks	A		
Main Manifold	A		
Gear Type Flow Divider	A		
Platform Assembly	A		
Lanyard Attachment Anchors	A		
AC Outlet on Platform	A		
Manuals	A		
Platform Control Console	A		
Lifting Mechanism			
Maintenance Support	A		
Scissor Assembly	A		
Scissor Bumpers	A		
Rollers	A		
Lift Cylinder(s)	A		

Frequency	Daily	3 months or 150 hours	Yearly
Base			
Base Weldment	A		
Wheel/Tire Assembly	A		
Steer Cylinder Assembly	A		
Splitter Manifold	A	B*	
Tie Rod	A		
Emergency Lowering Access Rod	A		
Ladder	A		
Outriggers	A		
Function Tests			
Test Emergency Main Power Disconnect Switch	A		
Base Control Console			
Test Platform/Engine/Base Key Switch	A		
Test Emergency Stop	A		
Test Platform Raise/Lower Switch	A		
Test Emergency Lowering	A		
Test Free-wheeling	A		
Platform Control Console			
Test Emergency Stop	A	B*	
Test Enable Trigger Switch	A		
Test Platform Raising/Lowering	A		
Test Steering	A		
Test Driving	A		
Test Speed Limit	A		
Test Brakes	A		
Test Horn	A		
Test Tilt Sensor	A		

60601AA-ANSI

A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.8 and Section 2.9 of the operating manual.
B - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.
*** -** Maintenance must be performed only by trained and competent personnel who are familiar with mechanical procedures.

WARNING

Use original or manufacturer-approved parts and components for aerial platform.

General Maintenance

Before attempting any repair work, disconnect battery by turning main power disconnect switch to off position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 2.6b Maintenance and Inspection Schedule - CE

Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections			
Labels	A		
Electrical	A		
Limit Switches	A		
Hydraulic	A		
Engine Compartment			
Main Power Disconnect Switch	A		
Base Control Switches	A		
Load/Tilt Sensor	A		
Battery	A		
Hydraulic Pump	A		
Radiator	A		
Muffler and Exhaust	A		
Engine Pivot Tray	A		
Engine Oil Level	A		
Fuel Shut-off Valve	A	B*	
Engine Air Filter	A		
Fuel Leaks	A		
Hydraulic/Fuel Compartment			
Hydraulic Tank	A		
Hydraulic Oil	A		
Hydraulic Return Filter	A		
Fuel Tank	A		
Fuel Leaks	A		
Main Manifold	A		
Gear Type Flow Divider	A		
Platform Assembly			
Lanyard Attachment Anchors	A		
AC Outlet on Platform	A		
Manuals	A		
Platform Control Console	A		

Frequency	Daily	3 months or 150 hours	Yearly
Lifting Mechanism			
Maintenance Support	A		
Scissor Assembly	A		
Scissor Bumpers	A		
Rollers	A		
Lift Cylinder(s)	A		
Scissor Guards	A		
Base		B*	
Base Weldment	A		
Wheel/Tire Assembly	A		
Steer Cylinder Assembly	A		
Splitter Manifold	A		
Tie Rod	A		
Emergency Lowering Access Rod	A		
Ladder	A		
Outriggers	A		
Function Tests			
Test Main Power Disconnect Switch	A		
Base Control Console			
Test Platform/Engine/Base Key Switch	A		
Test Emergency Stop	A		
Test Platform Raise/Lower Switch	A		
Test Emergency Lowering	A		
Test Free-wheeling	A		
Platform Control Console			
Test Emergency Stop	A	B*	
Test Enable Trigger Switch	A		
Test Platform Raising/Lowering	A		
Test Lowering Warning	A		
Test Steering	A		
Test Driving	A		
Test Speed Limit	A		
Test Brakes	A		
Test Horn	A		
Test Tilt Sensor	A		

60601AA-CE

A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.8 and Section 2.9 of the operating manual.
B - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.
***** - Maintenance must be performed only by trained and competent personnel who are familiar with mechanical procedures.

WARNING

Use original or manufacturer-approved parts and components for aerial platform.

General Maintenance

Before attempting any repair work, disconnect battery by turning main power disconnect switch to off position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 2.6c Maintenance and Inspection Schedule - AS

Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections			
Labels	A		
Electrical	A		
Limit Switches	A		
Hydraulic	A		
Engine Compartment			
Main Power Disconnect Switch	A		
Base Control Switches	A		
Tilt Sensor	A		
Battery	A		
Hydraulic Pump	A		
Radiator	A		
Muffler and Exhaust	A		
Engine Pivot Tray	A		
Engine Oil Level	A		
Fuel Shut-off Valve	A		
Engine Air Filter	A		
Fuel Leaks	A		
Hydraulic/Fuel Compartment		B*	
Hydraulic Tank	A		
Hydraulic Oil	A		
Hydraulic Return Filter	A		
Fuel Tank	A		
Fuel Leaks	A		
Main Manifold	A		
Gear Type Flow Divider	A		
Platform Assembly	A		
Lanyard Attachment Anchors	A		
AC Outlet on Platform	A		
Manuals	A		
Platform Control Console	A		
Lifting Mechanism			
Maintenance Support	A		
Scissor Assembly	A		
Scissor Bumpers	A		
Rollers	A		
Lift Cylinder(s)	A		

Frequency	Daily	3 months or 150 hours	Yearly
Base			
Base Weldment	A		
Wheel/Tire Assembly	A		
Steer Cylinder Assembly	A		
Splitter Manifold	A	B*	
Tie Rod	A		
Emergency Lowering Access Rod	A		
Ladder	A		
Outriggers	A		
Function Tests			
Test Main Power Disconnect Switch	A		
Base Control Console			
Test Platform/Engine/Base Key Switch	A		
Test Emergency Stop	A		
Test Platform Raise/Lower Switch	A		
Test Emergency Lowering	A		
Test Free-wheeling	A		
Platform Control Console			
Test Emergency Stop	A	B*	
Test Enable Trigger Switch	A		
Test Platform Raising/Lowering	A		
Test Steering	A		
Test Driving	A		
Test Speed Limit	A		
Test Brakes	A		
Test Horn	A		
Test Tilt Sensor	A		

60601AA-AS

A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.8 and Section 2.9 of the operating manual.
B - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.
*** -** Maintenance must be performed only by trained and competent personnel who are familiar with mechanical procedures.

WARNING

Use original or manufacturer-approved parts and components for aerial platform.

Table 2.7a Operator's Checklist - ANSI/CSA

SKYJACK

OPERATOR'S CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____ Operator's Name (Printed): _____

Date: _____

Time: _____ Operator's Signature: _____

Each item shall be inspected using the appropriate section of the Skyjack operating manual.
As each item is inspected, check the appropriate box.

P - PASS
F - FAIL
R - REPAIRED
NA - NOT APPLICABLE

❑ DAILY
❑ FREQUENTLY
❑ ANNUALLY
❑ BI-ANNUALLY

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Entrance Side				
Emergency Main Power Disconnect Switch				
Base Control Switches				
Tilt Sensor				
Battery				
Hydraulic Pump				
Radiator				
Muffler and Exhaust				
Engine Pivot Tray				
Engine Oil Level				
Fuel Shut-off Valve				
Engine Air Filter				
Fuel Leaks				
Hydraulic/Fuel Compartment				
Hydraulic Tank				
Hydraulic Oil				
Hydraulic Return Filter				
Fuel Tank				
Fuel Leaks				
Main Manifold				
Gear Type Flow Divider				
Platform Assembly				
Lanyard Attachment Anchors				
AC Outlet on Platform				
Manuals				
Platform Control Console				
Lifting Mechanism				
Maintenance Support				
Scissor Assembly				
Scissor Bumpers				

	N/A	P	F	R
Base				
Base Weldment				
Wheel/Tire Assembly				
Steer Cylinder Assembly				
Splitter Manifold				
Tie Rod				
Emergency Lowering Access Rod				
Ladder				
Outriggers				
Function Tests				
Test Emergency Main Power Disconnect Switch				
Base Control Console				
Test Platform/Engine/Base Key Switch				
Test Emergency Stop				
Test Platform Raise/Lower Switch				
Test Emergency Lowering				
Test Free-wheeling				
Platform Control Console				
Test Emergency Stop				
Test Enable Trigger Switch				
Test Platform Raising/Lowering				
Test Steering				
Test Driving				
Test Speed Limit				
Test Brakes				
Test Horn				
Test Tilt Sensor				

60602AA-ANSI

Note:
Make a copy of this page or visit the web site:
www.discount-equipment.com for a printable copy.

Table 2.7b Operator's Checklist - CE

OPERATOR'S CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____ Operator's Name (Printed): _____

Date: _____

Time: _____ Operator's Signature: _____

Each item shall be inspected using the appropriate section of the Skyjack operating manual.
As each item is inspected, check the appropriate box.

P - PASS
F - FAIL
R - REPAIRED
NA - NOT APPLICABLE

❑ DAILY
❑ FREQUENTLY
❑ ANNUALLY
❑ BI-ANNUALLY

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Engine Compartment				
Main Power Disconnect Switch				
Base Control Switches				
Load/Tilt Sensor				
Battery				
Hydraulic Pump				
Radiator				
Muffler and Exhaust				
Engine Pivot Tray				
Engine Oil Level				
Fuel Shut-off Valve				
Engine Air Filter				
Fuel Leaks				
Hydraulic/Fuel Compartment				
Hydraulic Tank				
Hydraulic Oil				
Hydraulic Return Filter				
Fuel Tank				
Fuel Leaks				
Main Manifold				
Gear Type Flow Divider				
Platform Assembly				
Lanyard Attachment Anchors				
AC Outlet on Platform				
Manuals				
Platform Control Console				

	N/A	P	F	R
Lifting Mechanism				
Maintenance Support				
Scissor Assembly				
Scissor Bumpers				
Rollers				
Lift Cylinder(s)				
Scissor Guards				
Base				
Base Weldment				
Wheel/Tire Assembly				
Steer Cylinder Assembly				
Splitter Manifold				
Tie Rod				
Emergency Lowering Access Rod				
Ladder				
Outriggers				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test Platform/Engine/Base Key Switch				
Test Emergency Stop				
Test Platform Raise/Lower Switch				
Test Emergency Lowering				
Test Free-wheeling				
Platform Control Console				
Test Emergency Stop				
Test Enable Trigger Switch				
Test Platform Raising/Lowering				
Test Lowering Warning				
Test Steering				
Test Driving				
Test Speed Limit				
Test Brakes				
Test Horn				
Test Tilt Sensor				

Note:
Make a copy of this page or visit the web site:
www.discount-equipment.com for a printable copy.

60602AA-CE

Table 2.7c Operator's Checklist - AS

SKYJACK

OPERATOR'S CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____ Operator's Name (Printed): _____

Date: _____

Time: _____ Operator's Signature: _____

Each item shall be inspected using the appropriate section of the Skyjack operating manual.
As each item is inspected, check the appropriate box.

P - PASS
F - FAIL
R - REPAIRED
NA - NOT APPLICABLE

❑ DAILY
❑ FREQUENTLY
❑ ANNUALLY
❑ BI-ANNUALLY

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Engine Compartment				
Main Power Disconnect Switch				
Base Control Switches				
Tilt Sensor				
Battery				
Hydraulic Pump				
Radiator				
Muffler and Exhaust				
Engine Pivot Tray				
Engine Oil Level				
Fuel Shut-off Valve				
Engine Air Filter				
Fuel Leaks				
Hydraulic/Fuel Compartment				
Hydraulic Tank				
Hydraulic Oil				
Hydraulic Return Filter				
Fuel Tank				
Fuel Leaks				
Main Manifold				
Gear Type Flow Divider				
Platform Assembly				
Lanyard Attachment Anchors				
AC Outlet on Platform				
Manuals				
Platform Control Console				
Lifting Mechanism				
Maintenance Support				
Scissor Assembly				
Scissor Bumpers				

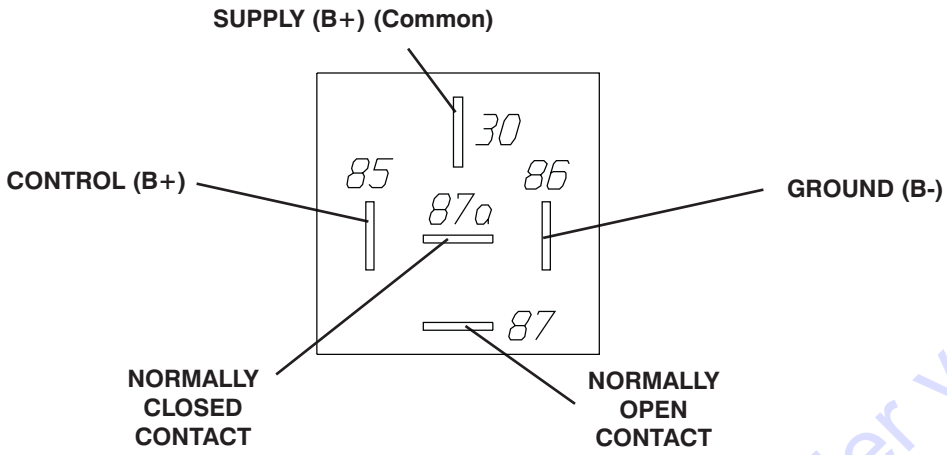
	N/A	P	F	R
Base				
Base Weldment				
Wheel/Tire Assembly				
Steer Cylinder Assembly				
Splitter Manifold				
Tie Rod				
Emergency Lowering Access Rod				
Ladder				
Outriggers				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test Platform/Engine/Base Key Switch				
Test Emergency Stop				
Test Platform Raise/Lower Switch				
Test Emergency Lowering				
Test Free-wheeling				
Platform Control Console				
Test Emergency Stop				
Test Enable Trigger Switch				
Test Platform Raising/Lowering				
Test Steering				
Test Driving				
Test Speed Limit				
Test Brakes				
Test Horn				
Test Tilt Sensor				

60602AA-AS

Note:
Make a copy of this page or visit the web site:
www.discount-equipment.com for a printable copy.

Section 3
System Component Identification And Schematics

Table Of Contents



RELAY NO.	RELAY FUNCTION
8CCR	ENABLE RELAY
9CR2	OUTRIGGER ENABLE
9CR3	OUTRIGGER ENABLE PROOF
10BCR	MAIN POWER
10CR1	ENGINE ON
10CR2	ENGINE ON
15CR	REVERSE DRIVE
16CR	FORWARD DRIVE
17CR	SMALL PUMP
17BCR	OUTRIGGER LIFT DISABLE
19CR	LARGE PUMP
20CR	SERIES/PARALLEL DRIVE
20ACR1	SERIES/PARALLEL
20ACR2	SERIES/PARALLEL
28ACR1	SMALL PUMP DUMP ENABLE
28ACR2	LARGE PUMP DUMP ENABLE
28CR	DOWN ENABLE **(CE)**
28ECR1	SMALL PUMP DUMP AUXILIARY DOWN ENABLE **(CE)**
28ECR2	LARGE PUMP DUMP AUXILIARY DOWN ENABLE **(CE)**
28ECR3	AUXILIARY DOWN ENABLE **(CE)**
31CR	GLOW PLUG
32ACR	CONTACTOR, ENGINE START
32CR1	START RELAY
32CR2	ENGINE START
33CR	POWER ON-DEMAND
34ACR	THROTTLE
35ACR	THROTTLE ENABLE
35CR	ELEVATION/HIGH SPEED CUTOUT
61CR	OUTRIGGER DRIVE ENABLE
65CR	OUTRIGGER LIFT ENABLE

Figure 3.1-2. Electrical Symbol Chart

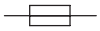
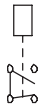
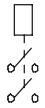
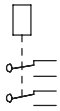
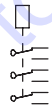
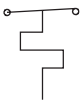
 WIRE CROSSING	 HOURMETER	 KEY SWITCH	 ANGLE TRANSDUCER
 WIRES JOINED	 LIGHT	 FOOT SWITCH	 PRESSURE TRANSDUCER
 BATTERY	 HYDRAULIC VALVE COIL	 TOGGLE SWITCH	 LIMIT SWITCH N.O.
 GROUND	 PROPORTIONAL HYDRAULIC VALVE COIL	 PUSH BUTTON	 LIMIT SWITCH N.O. HELD CLOSED
 FUSE	 ELECTRIC MOTOR	 ROTARY SWITCH	 LIMIT SWITCH N.C.
 CIRCUIT BREAKER	 HORN	 LIMIT SWITCH	 LIMIT SWITCH N.C. HELD OPEN
 BATTERY CHARGE INDICATOR	 EMERGENCY STOP BUTTON	 CAM OPERATED LIMIT SWITCH	 SILICON CONTROLLED RECTIFIER
 CAPACITOR	RESISTOR	 TILT SWITCH	 PROXIMITY SWITCH
 POTENTIOMETER	 LEVEL SENSOR	 SINGLE POLE SINGLE THROWN RELAY	 PNP TRANSISTOR
 SINGLE POLE DOUBLE THROW RELAY	 DOUBLE POLE SINGLE THROW RELAY	 DOUBLE POLE DOUBLE THROW RELAY	 NPN TRANSISTOR
 TRIPLE POLE DOUBLE THROW RELAY	 DIODE	 TRANSISTOR	 PRESSURE/ VACUUM SWITCH
 TEMPERATURE SWITCH			

Figure 3.1-3. Hydraulic Symbol Chart

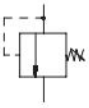
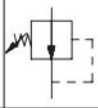
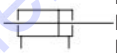
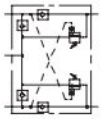
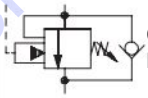
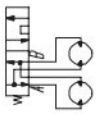
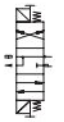
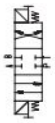
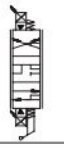
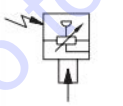
 LINE CROSSING	 VARIABLE DISPLACEMENT PUMP	 SHUTTLE VALVE	 VELOCITY FUSE
 LINE JOINED	 HAND PUMP	 ACCUMULATOR, GAS CHARGED	 SINGLE ACTING CYLINDER
 HYDRAULIC TANK	 RELIEF VALVE	 CUSHION CYLINDER	 DOUBLE ACTING CYLINDER
 HYDRAULIC FILTER WITH BYPASS	 PRESSURE REDUCING VALVE	 PRESSURE SWITCH	 DOUBLE ACTING DOUBLE RODDED
 ELECTRIC MOTOR	 FIXED ORIFICE	 MOTION CONTROL VALVE	 SPRING APPLIED HYDRAULIC RELEASED BRAKE
 ENGINE	 ADJUSTABLE FLOW CONTROL	 FLOW DIVIDER COMBINER	 BRAKE CYLINDER
 FIXED DISPLACEMENT PUMP	 CHECK VALVE	 COUNTER BALANCE VALVE	 ROTARY ACTUATOR
 THREE POSITION FOUR WAY PROPORTIONAL	 OIL COOLER	 VALVE COIL	 BI DIRECTIONAL HYDRAULIC MOTOR
 SERIES PARALLEL HYDRAULIC MOTOR	 TWO POSITION TWO WAY NORMALLY CLOSED	 TWO POSITION THREE WAY	 THREE POSITION FOUR WAY CLOSED CENTER OPEN PORT
 TWO POSITION TWO WAY NORMALLY OPEN	 TWO POSITION THREE WAY	 THREE POSITION FOUR WAY CLOSED CENTER CLOSED PORT	 THREE POSITION FOUR WAY PROPORTIONAL
 PRESSURE TRANSDUCER	MAIN LINES Solid	PILOT LINES Dashed	 VARIABLE DISPLACEMENT HYDRAULIC MOTOR
 SERVO			

Figure 3.2-1. Hydraulic Schematic Parts List **AC**

Index No.	Skyjack Part No.	Qty.	Description
C1	120989	1	CYLINDER, Lower lift
C2	120989	1	CYLINDER, Upper lift
C7	135896	1	CYLINDER, Steer
C8	107752	1	CYLINDER, Cushion
C9	132694	1	CYLINDER, Outrigger left front
C10	132694	1	CYLINDER, Outrigger left front
C11	132694	1	CYLINDER, Outrigger left front
C12	132694	1	CYLINDER, Outrigger left front
CB1	137181	1	VALVE, Main counterbalance
CB2	137181	1	VALVE, Parallel counterbalance
CV1	104624	1	VALVE, Check
CV2	104624	1	VALVE, Check
CV3	104624	1	VALVE, Pilot check
CV4	104624	1	VALVE, Pilot check
CV5	104624	1	VALVE, Pilot check
CV6	104624	1	VALVE, Pilot check
CV7	104115	1	VALVE, Pilot check
CV8	104115	1	VALVE, Pilot check
CV9	104115	1	VALVE, Pilot check
CV10	104115	1	VALVE, Pilot check
F1	136405	1	FILTER ASSEMBLY
FD1	137185	1	VALVE, Flow divider
HP2	110652	1	PUMP, Brake hand
2H-13	103655	1	VALVE, Lowering **(ANSI/CSA)**
2H-13-1	107269	1	VALVE, Holding (lower cylinder) **(ANSI/CSA)**
2H-13-2	107269	1	VALVE, Holding (upper cylinder) **(ANSI/CSA)**
2H-13B	103655	1	VALVE, Lowering **(CE)**
2H-13B-1	107269	1	VALVE, Holding (lower cylinder) **(CE)**
2H-13B-2	107269	1	VALVE, Holding (upper cylinder) **(CE)**
2H-17A	114365	1	VALVE, Large pump dump **(ANSI/CSA)**
2H-17B	114365	1	VALVE, Large pump dump **(CE)**
2H-17C	103655	1	VALVE, Holding outrigger
2H-18B	103656	1	VALVE, Small pump dump **(ANSI/CSA)**
2H-18C	103656	1	VALVE, Small pump dump **(CE)**
2H-20B	111937	1	VALVE, High speed
2H-86D	103655	1	VALVE, Hydraulic generator
3H-14A	106273	1	VALVE, Lift
3H-30	103623	1	VALVE, Brake
4H-15A	139256	1	VALVE, Reverse drive
			(Order P/N 128319 for machines with Serial No. 370017 and below)
4H-15B	128318	1	VALVE, Parallel reverse drive
4H-16A	139256	1	VALVE, Forward drive
			(Order P/N 128319 for machines with Serial No. 370017 and below)
4H-16B	128318	1	VALVE, Parallel forward drive

Parts list continued on following page.

Figure 3.2-1. Hydraulic Schematic Parts List (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Parts list continued from previous page.
4H-20A	139351	1	VALVE, Series/parallel
4H-23	128318	1	VALVE, Right steer
4H-24	128318	1	VALVE, Left steer
4H-71	128318	1	VALVE, Retract outrigger left front
4H-72	128318	1	VALVE, Retract outrigger right front
4H-73	128318	1	VALVE, Retract outrigger right rear
4H-74	128318	1	VALVE, Retract outrigger left rear
4H-75	128318	1	VALVE, Extend outrigger left front
4H-76	128318	1	VALVE, Extend outrigger right front
4H-77	128318	1	VALVE, Extend outrigger right rear
4H-78	128318	1	VALVE, Extend outrigger left rear
MI	137479	1	MOTOR, Front left
M2	137479	1	MOTOR, Front right
M3	137480	1	MOTOR, Rear right
M4	137480	1	MOTOR, Rear left
MB1	137125	1	MANIFOLD BLOCK, Main
MB2	139450	1	MANIFOLD BLOCK, Splitter
MB3	106688		MANIFOLD BLOCK, Lower holding valve
MB4	108778	1	MANIFOLD BLOCK, Upper holding valve
MB5	139830	1	MANIFOLD BLOCK, Sandwich
MB6	139450	1	MANIFOLD BLOCK, Splitter
MB8	111970	1	MANIFOLD BLOCK, Outrigger
MB9	146109	1	MANIFOLD BLOCK, Hydraulic generator
O1	105281	1	ORIFICE, 0.067 diameter
O2	137510	AR	ORIFICE, Lowering (Ø 0.106) **(Model 6826)**
	137509	AR	ORIFICE, Lowering (Ø 0.089) **(Model 6832)**
O3	137510	AR	ORIFICE, Lowering (Ø 0.106) **(Model 6826)**
	137509	AR	ORIFICE, Lowering (Ø 0.089) **(Model 6832)**
O4	137508	2	ORIFICE, Brake (Ø 0.028)
P1	114201	1	PUMP, Dual hydraulic (0.671/ 0.366)
PT1	134432	1	TRANSDUCER, Pressure **(CE)**
R1	104534	1	VALVE, System relief
R2	104534	1	VALVE, Lift relief
R3	106557	1	VALVE, Relief
R4	106557	1	VALVE, Relief
R5	104534	1	VALVE, Drive relief
V1	107271	1	VALVE, Emergency lowering
V2	137182	1	VALVE, Freewheel
V6	113752	1	VALVE, Brake auto reset

Figure 3.2-2a. Hydraulic Schematic

(Refer to Serial Breakdown Reference Chart)

Serial Breakdown Reference Chart		
Model	**Serial Numbers**	**Reference**
SJ-68XX	370018 & Below	Figure 3.2-2a
	370019 & Above	Figure 3.2-2b

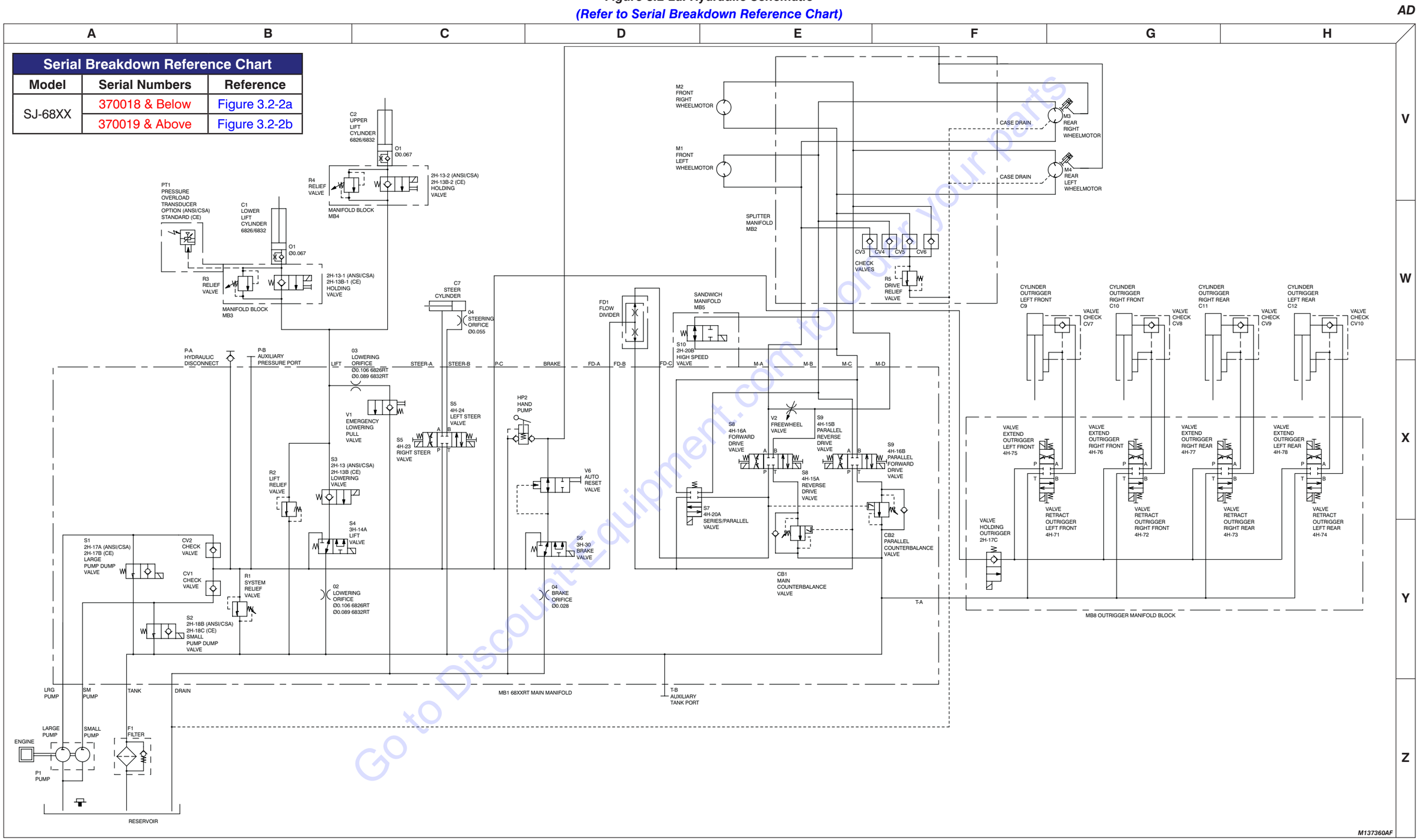
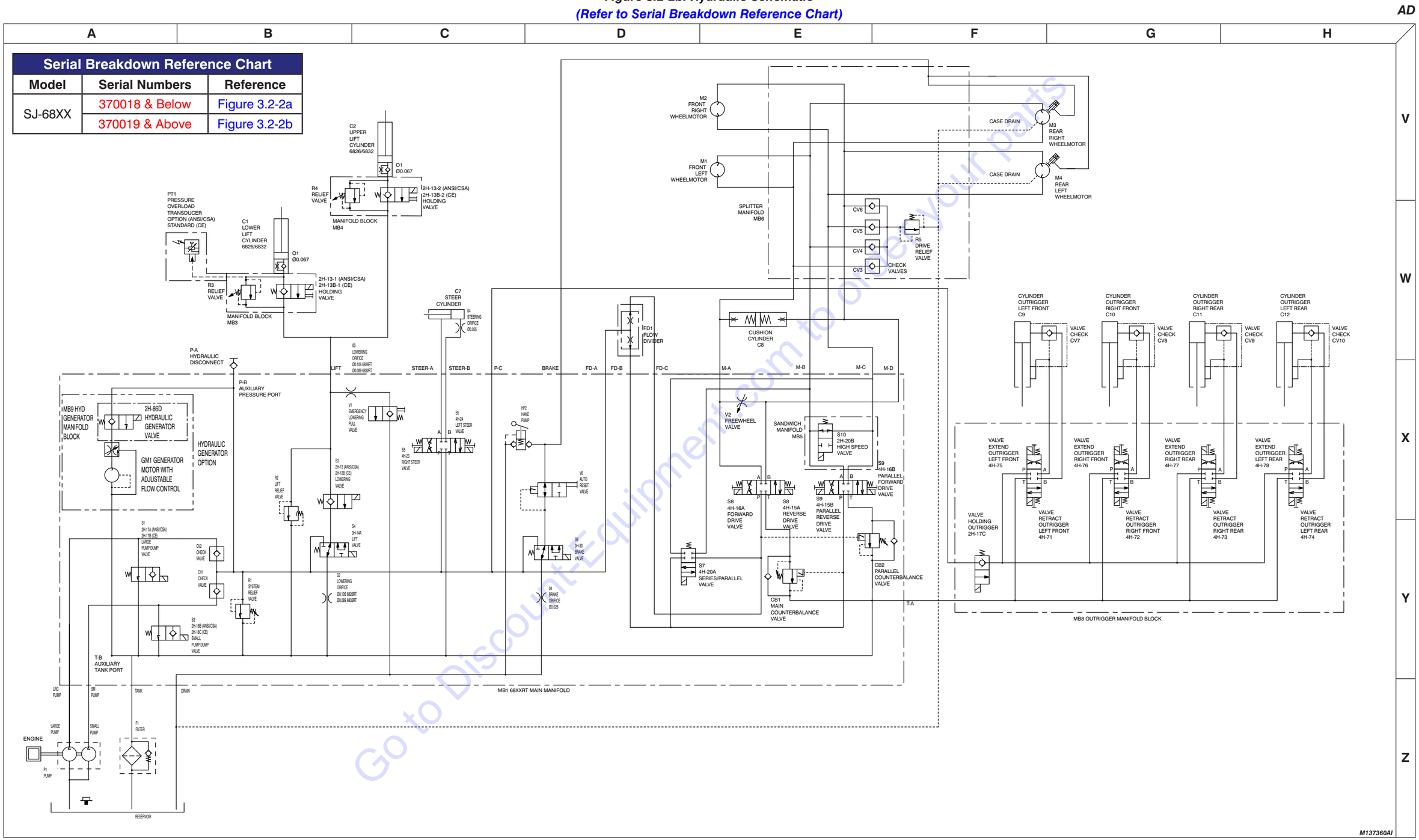
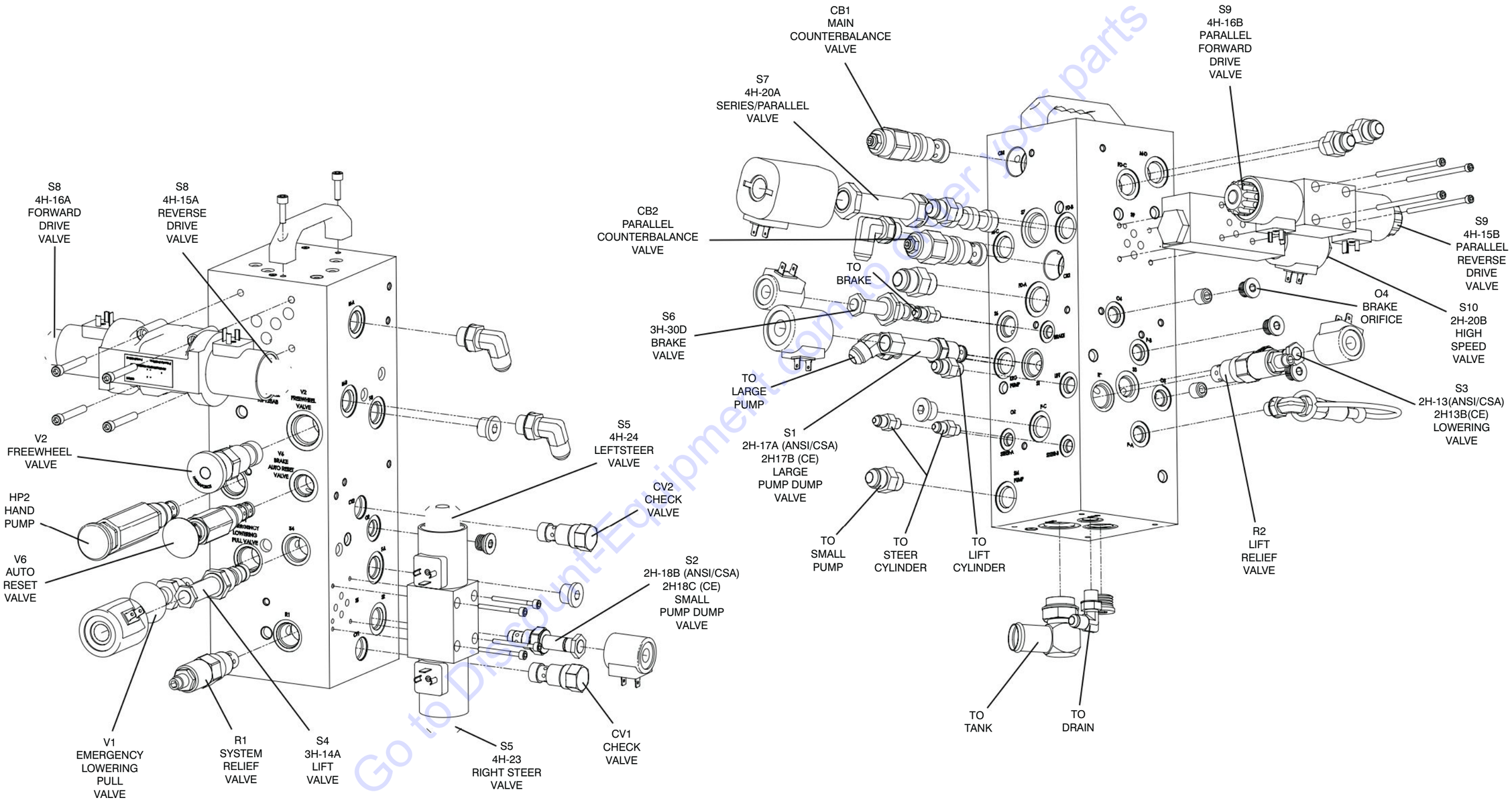


Figure 3.2-2b. Hydraulic Schematic

(Refer to Serial Breakdown Reference Chart)

Serial Breakdown Reference Chart		
Model	**Serial Numbers**	**Reference**
SJ-68XX	370018 & Below	Figure 3.2-2a
	370019 & Above	Figure 3.2-2b

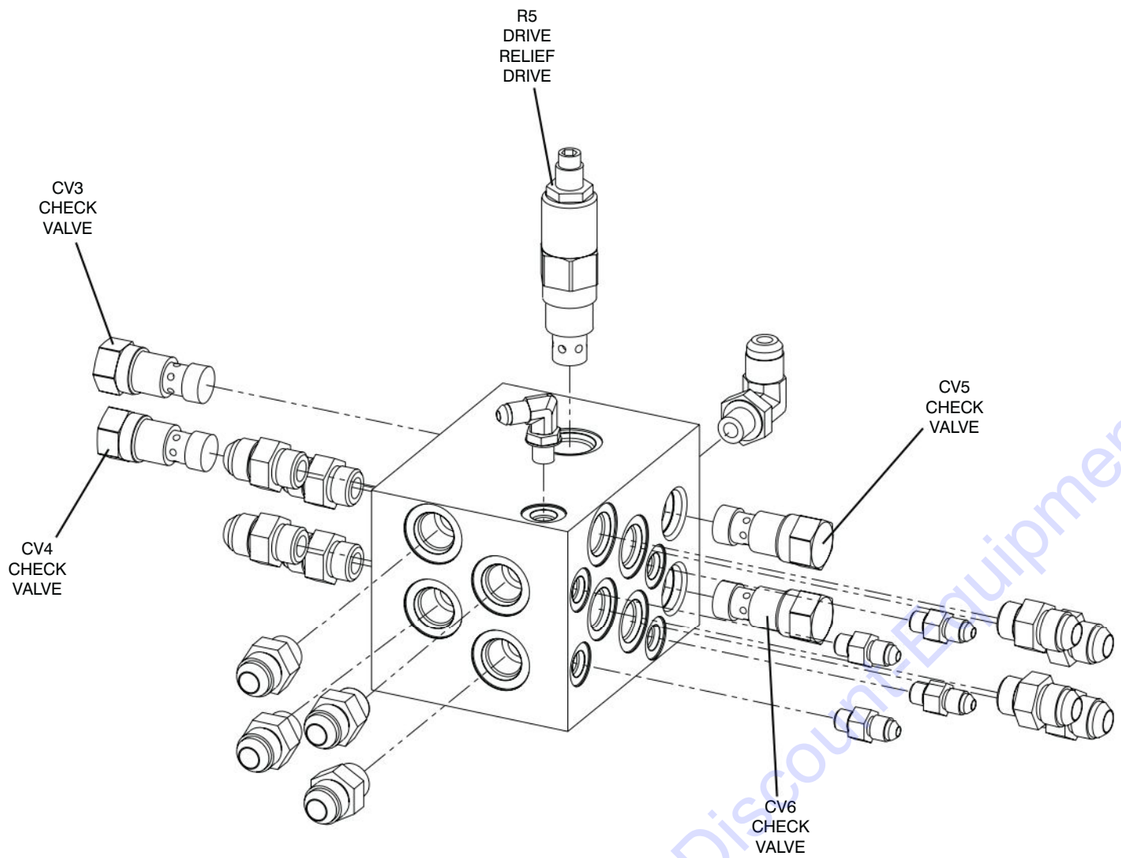




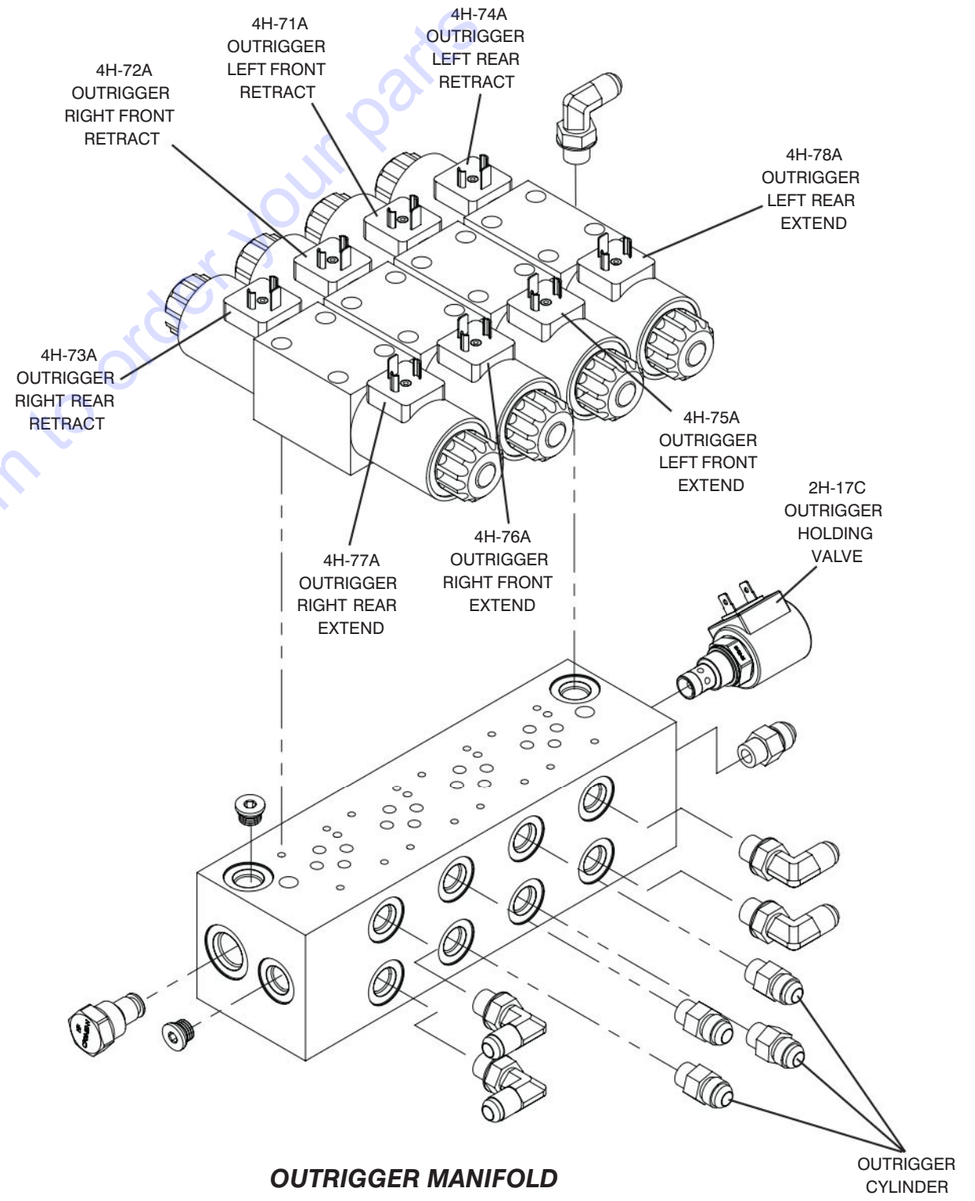
MAIN MANIFOLD

M138189AE_4

Figure 3.2-3. Hydraulic Manifolds And Ports Identification (Continued)



SPLITTER MANIFOLD



OUTRIGGER MANIFOLD

M138075AB_1 M138045AB_1

Index No.	Skyjack Part No.	Qty.	Description
AT1	130440	1	TRANSDUCER, Angle **(CE)**
B1	103295	1	BATTERY, 12 Volt (WET)
BP-29	103056	1	BEEPER, 7.5 - 16 VDC **(ANSI/CSA)**
	117967	1	BEEPER, XL - 600 9 - 28 VDC **(CE)**
CB1	137919	1	CIRCUIT BREAKER, 25 Amp
CB3	137919	1	CIRCUIT BREAKER, 25 Amp
CPS1	136172	1	SENSOR, Cranshaft position
CRD1	137355	1	CABLE ASSEMBLY, Control box
CRD2	137356	1	CABLE ASSEMBLY, Scissor arm **(Model 6826)**
	137363	1	CABLE ASSEMBLY, Scissor arm **(Model 6832)**
CRD3	137354	1	CABLE ASSEMBLY, Electrical panel
CS-31A	103007	1	SOLENOID, Choke
DXX	102921	AR	DIODE
EGP1	KUBOTA	1	PLUG, Engine glow
F1	128595	1	FUSE, 300 Amp
F4	138091	1	FUSE, 125 Amp (Electrical inverter option)
FL-22	121476	1	FLASHING LIGHT
FL-29	103743	1	FLASHER
FP	136119	1	PUMP, Electric fuel
GPL1	133133	1	GLOW PLUG INDICATOR LIGHT
GPT1	137868	1	GLOW PLUG TIMER
H1	102850	1	HORN, 12 Volt
HTS-34C	103007	1	SOLENOID, High throttle
ICM1	136121	1	MODULE, Igniter control
IG	137857	1	ALTERNATOR (Kubota DF902)
	136101	1	ALTERNATOR (Kubota DF972)
IGC1	136106	1	COIL, Ignition
IGC2	136106	1	COIL, Ignition
INV1	138094	1	INVERTER, 125 Amp
LED-1	137785	1	LIGHT, Power on
LED-2	137785	1	LIGHT, Power on **(Base controls)**
LS5	122010	1	LIMIT SWITCH, High drive cutou t/tilt override
LS61	138060	1	LIMIT SWITCH, Front left outrigger up
LS62	138060	1	LIMIT SWITCH, Front right outrigger up
LS63	138060	1	LIMIT SWITCH, Rear right outrigger up
LS64	138060	1	LIMIT SWITCH, Rear left outrigger up
LS65	138059	1	LIMIT SWITCH, Front left outrigger down
LS66	138059	1	LIMIT SWITCH, Front right outrigger down
LS67	138059	1	LIMIT SWITCH, Rear right outrigger down
LS68	138059	1	LIMIT SWITCH, Rear left outrigger down
OCM1	132804	1	MODULE, Outrigger Auto-Level Control
OPS1	102838	1	SWITCH, Oil pressure
PT1	134432	1	TRANSDUCER, Pressure 3000 psi **(CE)**
S1	119726	1	SWITCH, Main power disconnect
S2	102853	1	N.O. CONTACT BLOCK, Up/down switch

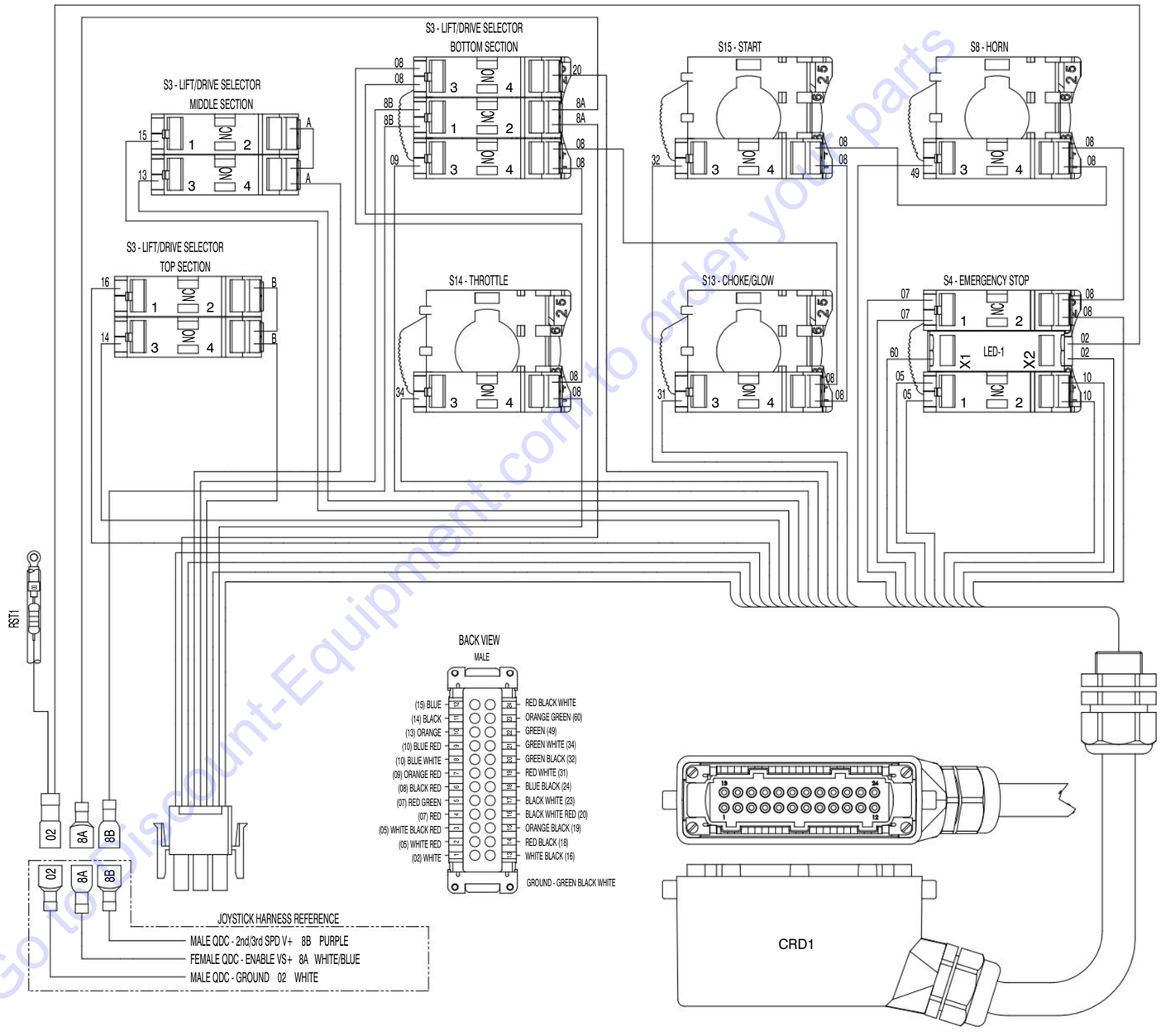
Parts list continued on the following page

Index No.	Skyjack Part No.	Qty.	Description
			Parts list continued from the previous page.
S20	102853	1	SWITCH, Front left outrigger up/down toggle
S20A	127132	1	SWITCH, Front left outrigger rocker
S21	102853	1	SWITCH, Front right outrigger up/down toggle
S21A	127132	1	SWITCH, Front right outrigger rocker
S22	102853	1	SWITCH, Rear right outrigger up/down toggle
S22A	127132	1	SWITCH, Rear right outrigger rocker
S23	102853	1	SWITCH, Rear left outrigger up/down toggle
S23A	127132	1	SWITCH, Rear left outrigger rocker
S24	102853	1	SWITCH, Auto-Level Outrigger
S31	102692	1	SWITCH, Engine Glow Plug
S32	102692	1	SWITCH, Engine start push-button
S33	115747	1	SWITCH, Fuel select
TPS1	113400	1	SWITCH, Engine temperature
TS1	117880	1	TILT SWITCH
TT	103336	1	HOUR METER
8CCR	127035	1	ENABLE RELAY
9CR2	127131	1	RELAY, 12 Volt (outrigger enable)
9CR3	127131	1	RELAY, 12 Volt (outrigger enable proof)
10BCR	127035	1	RELAY, 12 Volt 40 Amp (main power)
10CR1	127035	1	RELAY, 12 Volt 40 Amp
10CR2	127035	1	RELAY, 12 Volt 40 Amp
15CR	127035	1	RELAY, 12 Volt 40 Amp (reverse drive)
16CR	127035	1	RELAY, 12 Volt 40 Amp (forward drive)
17CR	127035	1	RELAY, 12 Volt 40 Amp (small pump)
17CCR	127131	1	RELAY, 12 Volt (outrigger lift disable)
19CR	127035	1	RELAY, 12 Volt 40 Amp (large pump)
20CR	127035	1	RELAY, 12 Volt 40 Amp (series/parallel drive)
20ACR1	127035	1	RELAY, 12 Volt 40 Amp (series/parallel)
20ACR2	127035	1	RELAY, 12 Volt 40 Amp (series/parallel)
28ACR1	127035	1	RELAY, 12 Volt 40 Amp (small pump dump enable)
28ACR2	127035	1	RELAY, 12 Volt 40 Amp (large pump dump enable)
28CR	127035	1	RELAY, 12 Volt 40 Amp (down enable) **(CE)**
28ECR1	127035	1	RELAY, 12 Volt 40 Amp (small pump dump auxiliary enable) **(CE)**
28ECR2	127035	1	RELAY, 12 Volt 40 Amp (large pump dump auxiliary enable) **(CE)**
28ECR3	127035	1	RELAY, 12 Volt 40 Amp (auxiliary down enable) **(CE)**
31CR	127035	1	RELAY, 12 Volt 40 Amp (glow plug)
32ACR	127035	1	CONTACTOR, Engine start
32CR1	127035	1	RELAY, 12 Volt 40 Amp
32CR2	127035	1	RELAY, 12 Volt 40 Amp (engine start)
33CR	127035	1	RELAY, Power on-demand
34ACR	127035	1	RELAY, 12 Volt 40 Amp (throttle)
35ACR	127035	1	RELAY, 12 Volt 40 Amp (throttle enable)
35CR	127035	1	RELAY, 12 Volt 40 Amp (elevation/high speed cutout)
61CR	127131	1	RELAY, 12 Volt 40 Amp (outrigger drive enable)
65CR	127131	1	RELAY, 12 Volt (outrigger lift enable)
86ACR	127035	1	RELAY, 12 Volt 40 Amp (hydraulic generator stop)
86BCR	127035	1	RELAY, 12 Volt 40 Amp (hydraulic generator latching)
86CCR	127035	1	RELAY, 12 Volt 40 Amp (hydraulic generator)
			Parts list continued on the following page

Figure 3.3-1. Electrical Component Parts List (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Parts list continued from the previous page.
2G-11	(Ref.)	1	SOLENOID, Gas shutoff (Kubota Dual Fuel Engine) (Refer to section 6 for components)
2H-13	103613	1	COIL, 12 Volt lowering valve **(ANSI/CSA)**
2H-13B	103613	1	COIL, 12 Volt lowering valve **(CE)**
2H-13-1	103613	1	COIL, 12 Volt lower lift cylinder holding valve **(ANSI/CSA)**
2H-13-2	103613	1	COIL, 12 Volt upper lift cylinder holding valve **(ANSI/CSA)**
2H-13B-1	103613	1	COIL, 12 Volt lower lift cylinder holding valve **(CE)**
2H-13B-2	103613	1	COIL, 12 Volt upper lift cylinder holding valve **(CE)**
2H-17A	106272	1	COIL, 12 Volt large pump dump valve **(ANSI/CSA)**
2H-17B	106272	1	COIL, 12 Volt large pump dump valve **(CE)**
2H-17C	106272	1	COIL, 12 Volt holding outrigger valve
2H-18B	103613	1	COIL, 12 Volt small pump dump valve **(ANSI/CSA)**
2H-18C	103613	1	COIL, 12 Volt small pump dump valve **(CE)**
2H-86D	103613	1	COIL, 12 Volt hydraulic generator
2P-50-1	125793	1	SOLENOID, Propane lockoff valve, vaporizer (Kubota Dual Fuel Engine)
3H-14A	106272	1	COIL, 12 Volt lift valve
3H-30	103613	1	COIL, 12 Volt brake valve
4H-15A	128321	1	COIL, Reverse drive valve
4H-15B	128321	1	COIL, Parallel reverse drive valve
4H-16A	128321	1	COIL, Forward drive valve
4H-16B	128321	1	COIL, Parallel forward drive valve
4H-20A	137513	1	COIL, 12 Volt series/parallel drive
4H-23	128321	1	COIL, Right steer valve
4H-24	128321	1	COIL, Left steer valve
4H-71	128321	1	COIL, 12 Volt front left retract outrigger
4H-72	128321	1	COIL, 12 Volt front right retract outrigger
4H-73	128321	1	COIL, 12 Volt rear right retract outrigger
4H-74	128321	1	COIL, 12 Volt rear left retract outrigger
4H-75	128321	1	COIL, 12 Volt front left extend outrigger
4H-76	128321	1	COIL, 12 Volt front right extend outrigger
4H-77	128321	1	COIL, 12 Volt rear right extend outrigger
4H-78	128321	1	COIL, 12 Volt rear left extend outrigger

Figure 3.3-2. Control Box Diagram - With All Options



CONTROL BOX HARNESS		PIN # - FUNCTION	JOYSTICK HARNESS	
24	BLUE/BLACK	PIN 1 - LEFT	24	WHITE/RED
08	BLUE	PIN 2 - JOYSTICK VS+	08	WHITE/BLACK
23	BLACK/WHITE	PIN 3 - RIGHT	23	WHITE
B	RED	PIN 4 - FORWARD/UP	B	YELLOW
08B	BROWN/RED	PIN 5 - STEERING VS+	08B	WHITE/GREEN
A	PURPLE/WHITE	PIN 6 - REVERSE/DOWN	A	GREY
19	ORANGE/BLACK	PIN 7 - 2nd SPEED	19	BROWN
8A	BLUE	PIN 8 - ENABLE VS+	8A	WHITE/BLUE
18	RED/BLACK	PIN 9 - 3rd SPEED	18	RED/BLACK

M137799AD

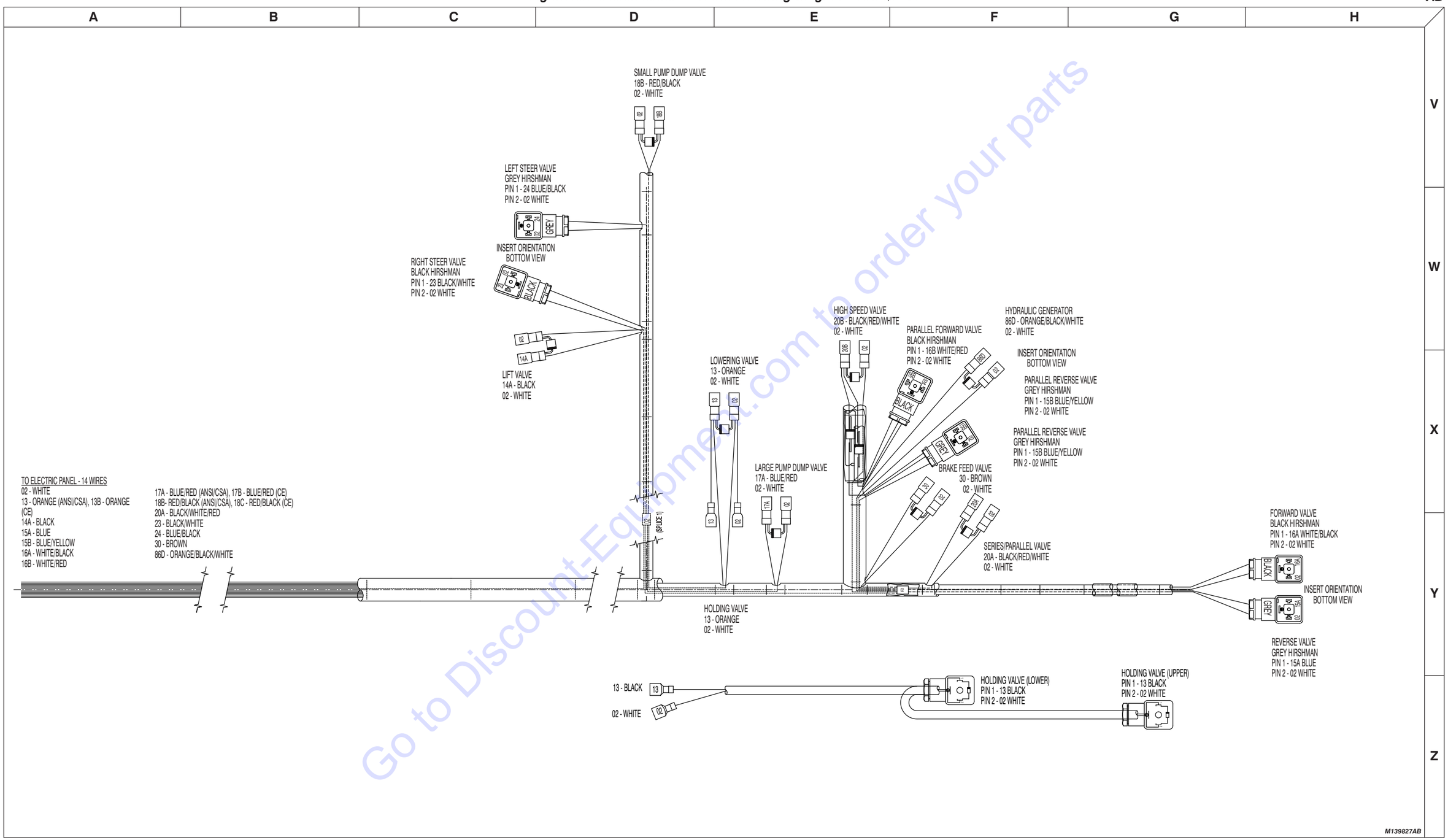


Figure 3.3-4. Main Manifold Harness Wiring Diagram - CE

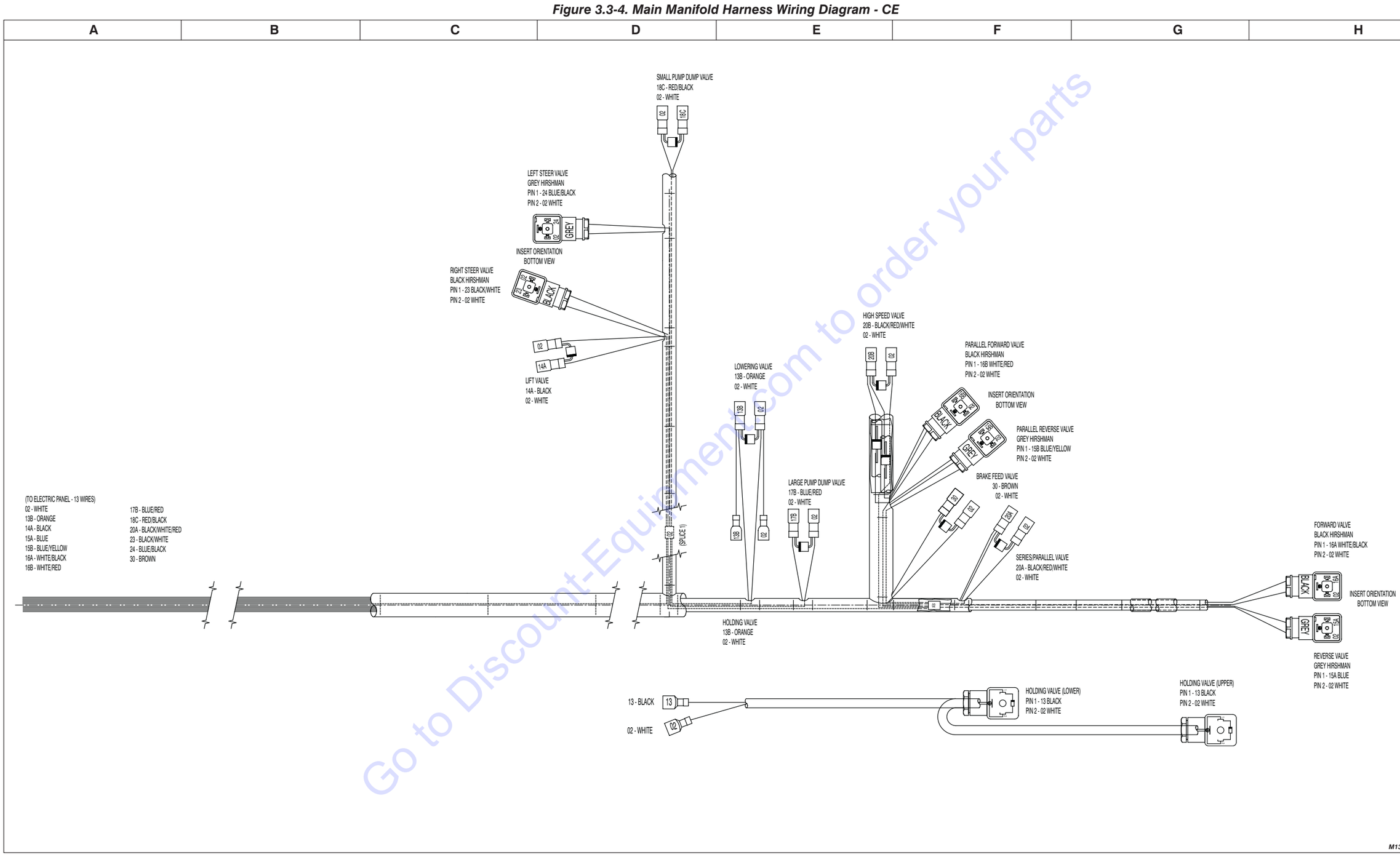
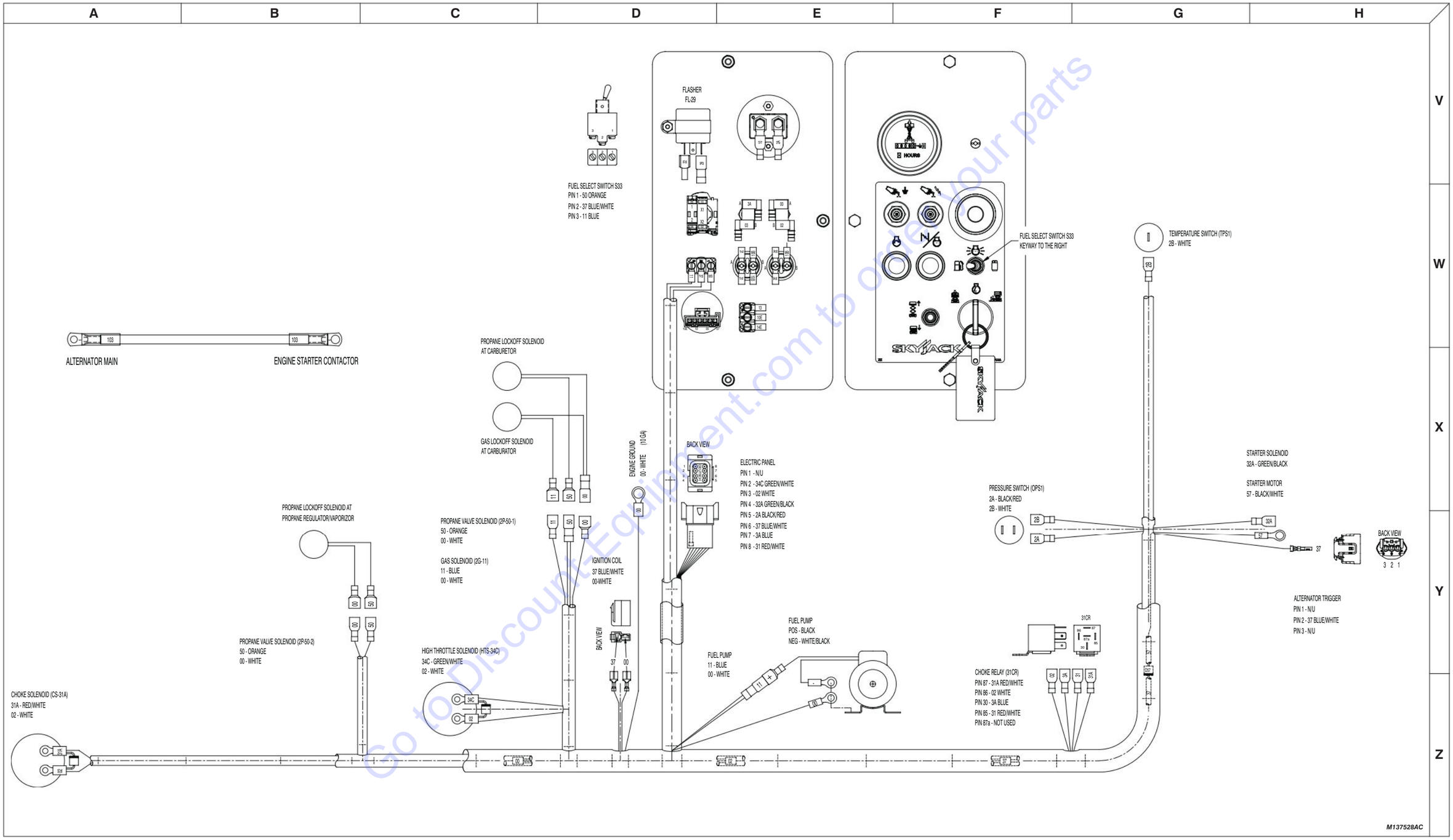


Figure 3.3-5. Engine Wiring Diagram - Dual Fuel System (Kubota Engine)



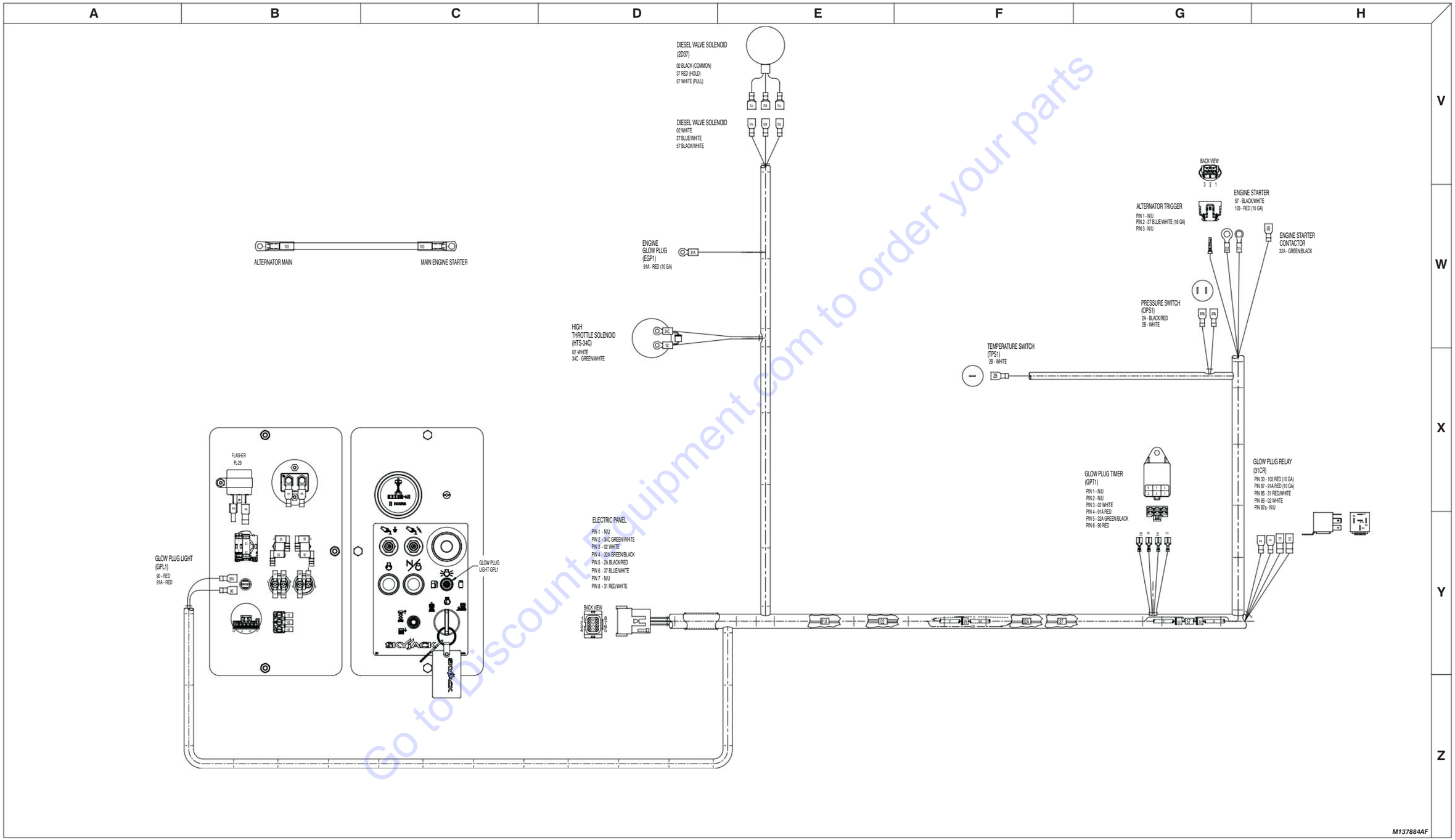
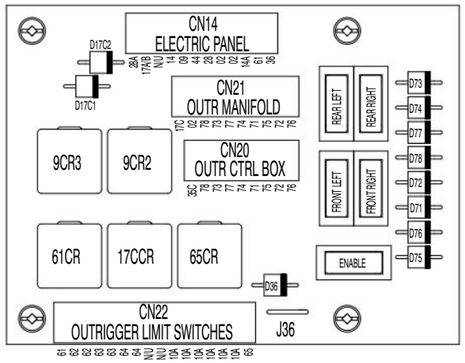


Figure 3.3-7a. Outrigger Optional Harness Diagram

A	B	C	D	E	F	G	H

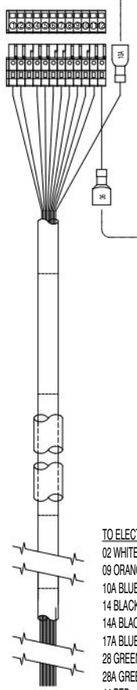
Serial Breakdown Reference Chart

Model	Serial Number	Reference
SJ-68XX	37000303 & Below	Figure 3.3-7a
	37000304 & Above	Figure 3.3-7b



CN14

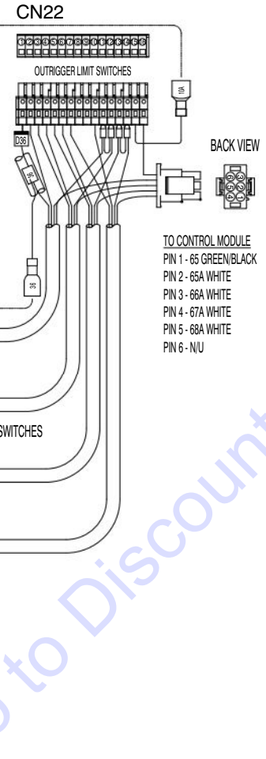
OUTRIGGER ELECTRIC PANEL
12 PIN CONNECTOR PLUG
PIN 1 - 28A GREEN/WHITE
PIN 2 - 17A BLUE/RED (ANSI/CSA)
17B BLUE/RED (CE)
PIN 3 - N/U
PIN 4 - 14 BLACK
PIN 5 - 09 ORANGE/RED
PIN 6 - 44 RED
PIN 7 - 28 GREEN/RED
PIN 8 - 02 WHITE
PIN 9 - 02 WHITE
PIN 10 - 14A BLACK/WHITE
PIN 11 - 61 GREEN
PIN 12 - 36 YELLOW



TO ELECTRICAL PANEL
02 WHITE (x2)
09 ORANGE/RED
10A BLUE/WHITE
14 BLACK
14A BLACK/WHITE
17A BLUE/RED
28 GREEN/RED
28A GREEN/WHITE
44 RED
61 GREEN

OUTRIGGER LIMIT SWITCHES
PIN 1 - 61
PIN 2 - 62 GREEN
PIN 3 - 62 RED
PIN 4 - 63 GREEN
PIN 5 - 63 RED
PIN 6 - 64 GREEN
PIN 7 - 64 RED
PIN 8 - N/U
PIN 9 - N/U
PIN 10 - 10A GREEN
PIN 11 - 10A BLACK, 10A BLUE/WHITE
PIN 12 - 10A BLACK, 10A BLUE/WHITE
PIN 13 - 10A BLACK, 10A BLUE/WHITE
PIN 14 - 10A BLACK, 10A BLUE/WHITE
PIN 15 - 10A BLUE/WHITE
PIN 16 - 65 GREEN/BLACK

CN22



LEFT FRONT OUTRIGGER:
PIN 1 - BLACK (10A)
PIN 3 - GREEN (62)
PIN 2 - WHITE (65A)
PIN 4 - RED (36)

RIGHT FRONT OUTRIGGER:
PIN 1 - BLACK (10A)
PIN 3 - GREEN (63)
PIN 2 - WHITE (66A)
PIN 4 - RED (62)

RIGHT REAR OUTRIGGER:
PIN 1 - BLACK (10A)
PIN 3 - GREEN (64)
PIN 2 - WHITE (67A)
PIN 4 - RED (63)

LEFT REAR OUTRIGGER:
PIN 1 - BLACK (10A)
PIN 3 - GREEN (10A)
PIN 2 - WHITE (68A)
PIN 4 - RED (64)

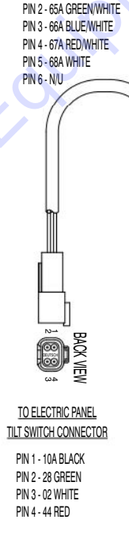
TO OUTRIGGER LIMIT SWITCHES

BACK VIEW

PIN 1 - BLACK ( )
PIN 2 - WHITE ( )
PIN 3 - GREEN ( )
PIN 4 - RED ( )

TO CONTROL MODULE
PIN 1 - 65 GREEN/BLACK
PIN 2 - 65A WHITE
PIN 3 - 66A WHITE
PIN 4 - 67A WHITE
PIN 5 - 68A WHITE
PIN 6 - N/U

TO LIMIT SWITCHES
PIN 1 - 65 GREEN/BLACK
PIN 2 - 65A GREEN/WHITE
PIN 3 - 66A BLUE/WHITE
PIN 4 - 67A RED/WHITE
PIN 5 - 68A WHITE
PIN 6 - N/U



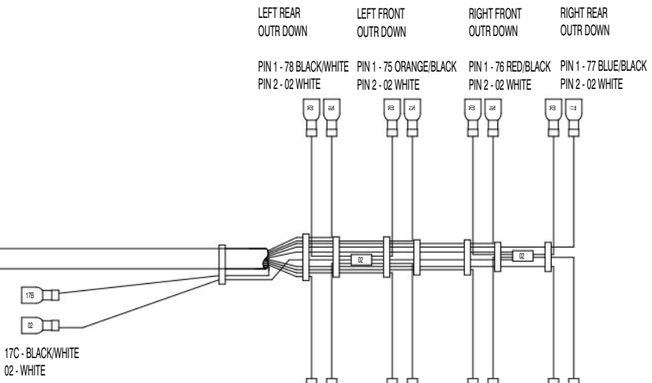
TO ELECTRIC PANEL
TILT SWITCH CONNECTOR
PIN 1 - 10A BLACK
PIN 2 - 28 GREEN
PIN 3 - 02 WHITE
PIN 4 - 44 RED

CN20

TO OUTRIGGER ELECTRIC PANEL
9 PIN CONNECTOR
PIN 1 - 35C WHITE/BLACK (x2)
PIN 2 - 78 BLACK/WHITE (x2)
PIN 3 - 73 BLUE (x2)
PIN 4 - 77 BLUE/BLACK (x2)
PIN 5 - 74 BLACK (x2)
PIN 6 - 71 ORANGE (x2)
PIN 7 - 75 ORANGE/BLACK (x2)
PIN 8 - 72 RED (x2)
PIN 9 - 76 RED/BLACK (x2)

CN21

TEN PIN CONNECTOR PLUG
PIN 1 - 17C WHITE/BLACK
PIN 2 - 02 WHITE
PIN 3 - 78 BLACK/WHITE
PIN 4 - 73 BLUE
PIN 5 - 77 BLUE/BLACK
PIN 6 - 74 BLACK
PIN 7 - 71 ORANGE
PIN 8 - 75 ORANGE/BLACK
PIN 9 - 72 RED
PIN 10 - 76 RED/BLACK



TO CONTROL BOX -
15 PIN CONNECTOR PLUG
PIN 1 - 02 WHITE
PIN 2 - 35C WHITE/BLACK
PIN 3 - 70 GREEN/BLACK
PIN 4 - 70A RED/WHITE
PIN 5 - 71 ORANGE
PIN 6 - 72 RED
PIN 7 - 73 BLUE
PIN 8 - 74 BLACK
PIN 9 - 75 ORANGE/BLACK
PIN 10 - 76 RED/BLACK
PIN 11 - 77 BLUE/BLACK
PIN 12 - 78 BLACK/WHITE
PIN 13 - 79 GREEN
PIN 14 - N/U
PIN 15 - N/U

BACK VIEW

TO CONTROL MODULE - P4
PIN 1 - 78 BLACK/WHITE
PIN 2 - 77 BLUE/BLACK
PIN 3 - 76 RED/BLACK
PIN 4 - 75 ORANGE/BLACK
PIN 5 - 74 BLACK
PIN 6 - 73 BLUE
PIN 7 - 72 RED
PIN 8 - 71 ORANGE
PIN 9 - 35C WHITE/BLACK

BACK VIEW

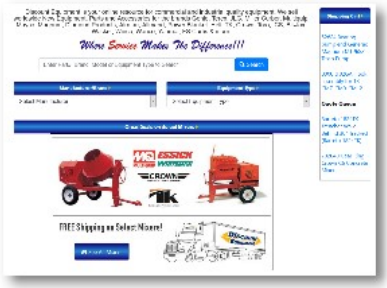
CONTROL MODULE - P2
PIN 1 - 68A WHITE
PIN 2 - 67A RED/WHITE
PIN 3 - 66A BLUE/WHITE
PIN 4 - 65A GREEN/WHITE
PIN 5 - 70 GREEN/BLACK
PIN 6 - 79 GREEN
PIN 7 - 70A RED/WHITE
PIN 8 - 65 GREEN/BLACK
PIN 9 - 28 GREEN
PIN 10 - 44 RED
PIN 11 - 02 WHITE (2x)
PIN 12 - 10A BLACK

M138052AB

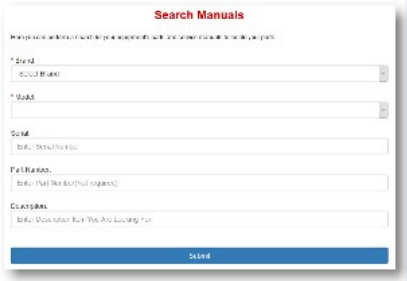
PARTS FINDER

Search Website by Part Number

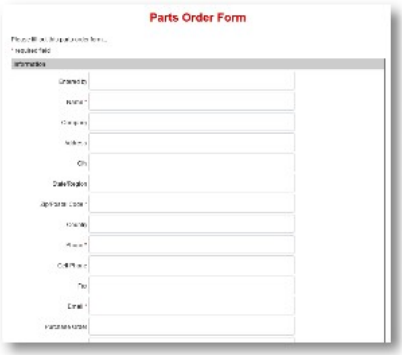
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

Figure 3.3-7b. Outrigger Optional Harness Diagram

Serial Breakdown Reference Chart		
Model	**Serial Number**	**Reference**
SJ-68XX	37000303 & Below	Figure 3.3-7a
	37000304 & Above	Figure 3.3-7b

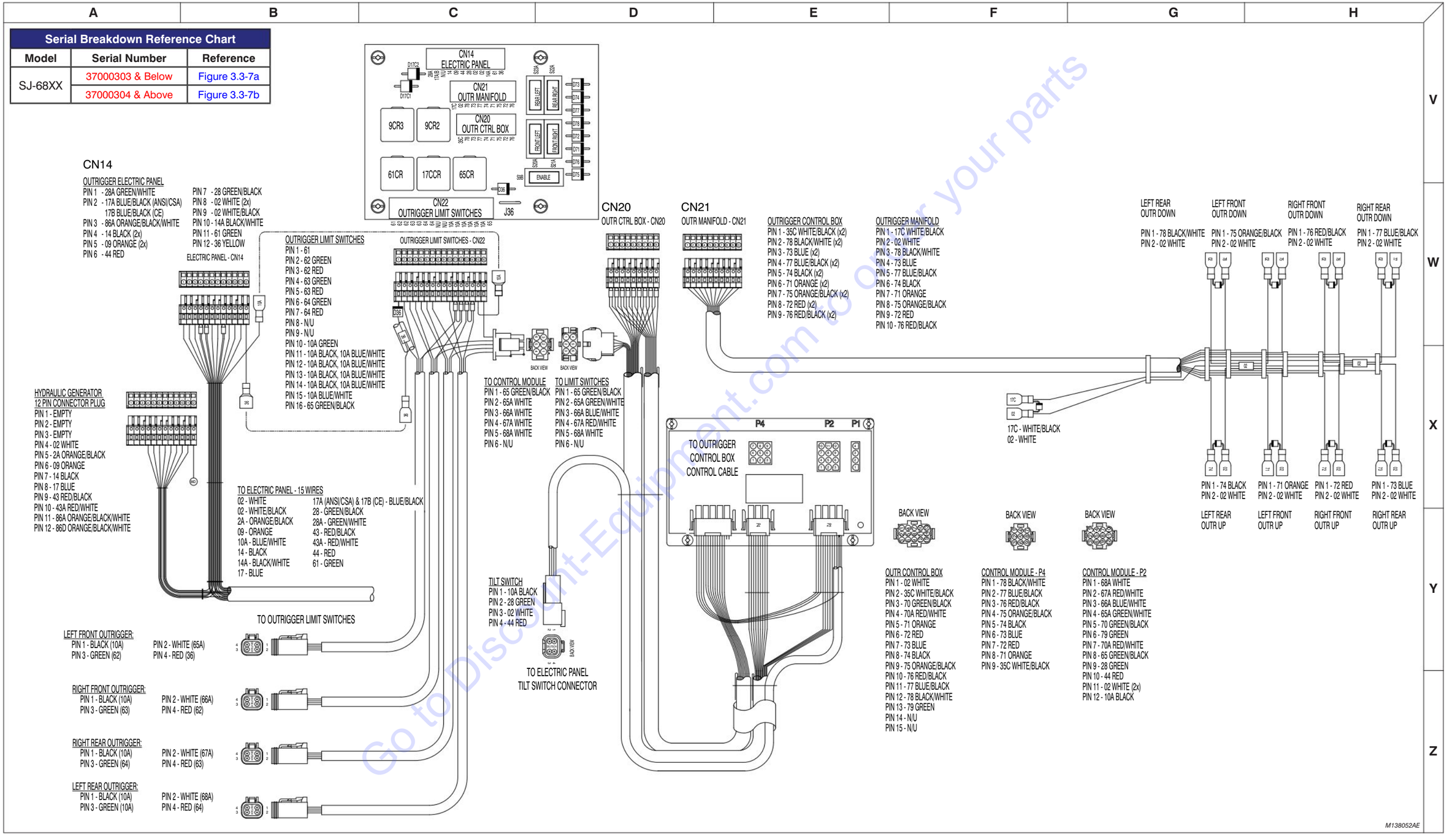
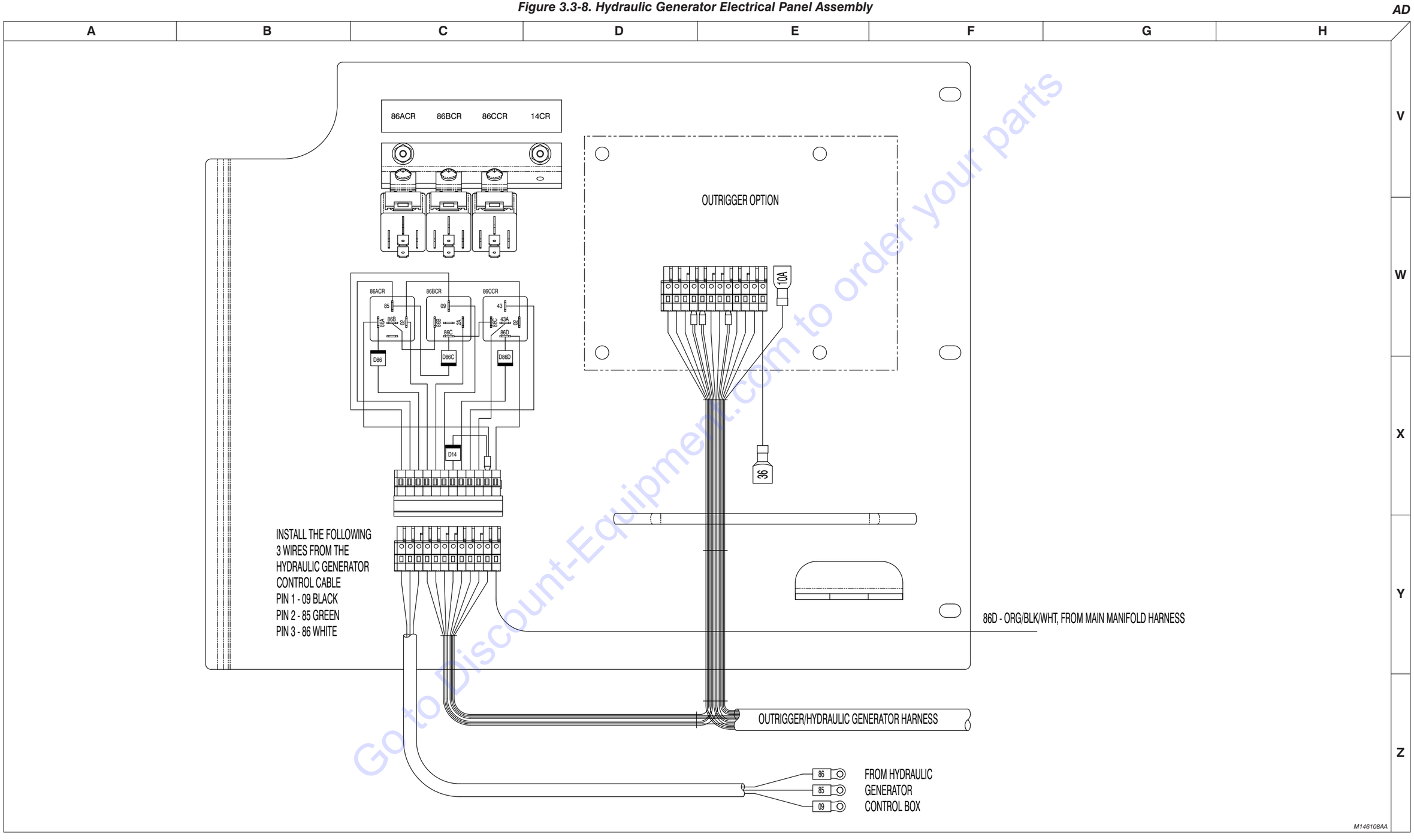
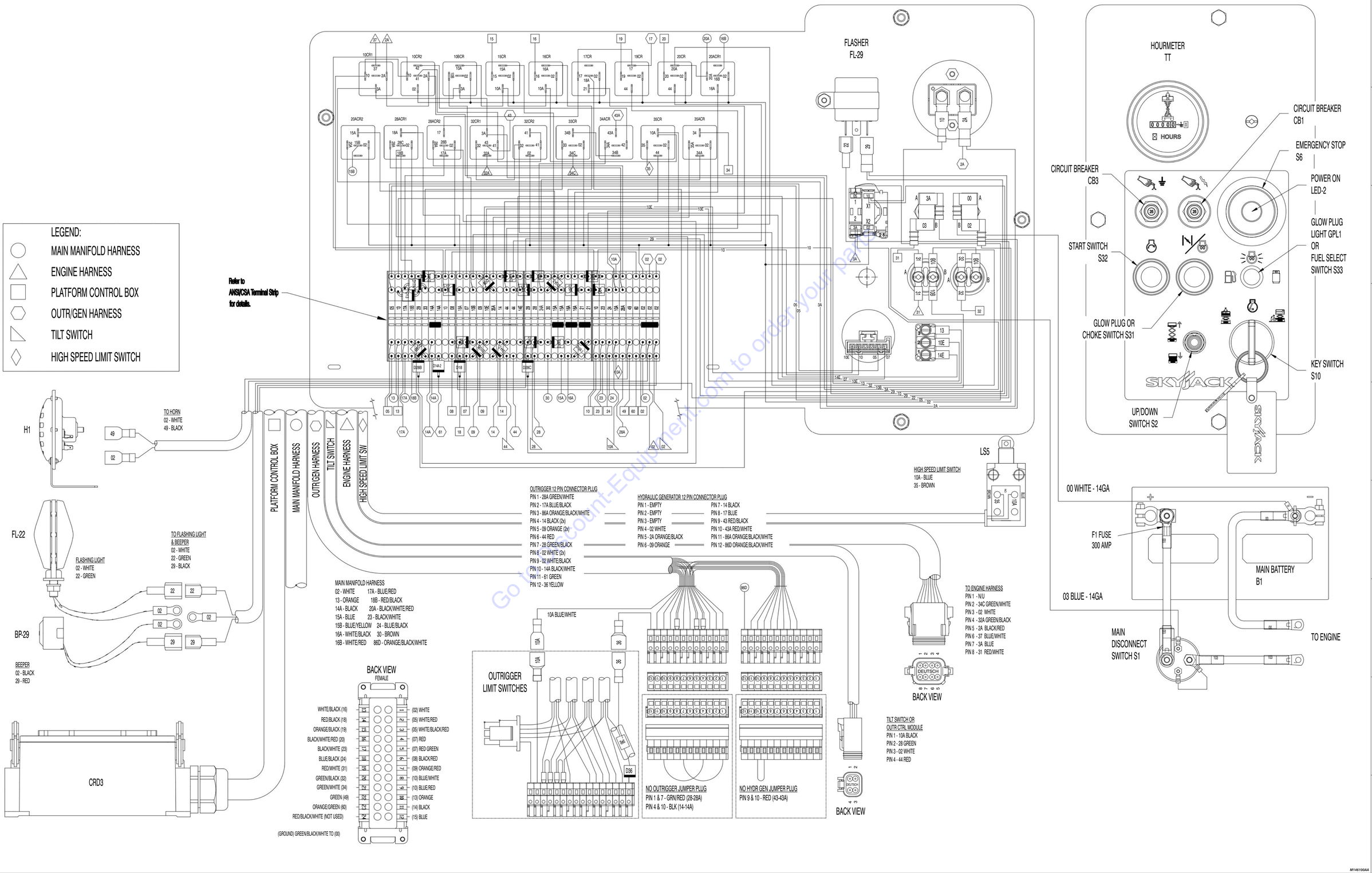


Figure 3.3-8. Hydraulic Generator Electrical Panel Assembly





M146100AA

Figure 3.4-2a. Electrical Panel Wiring Diagram (CE)

Serial Breakdown Reference Chart		
Model	**Serial Number**	**Reference**
SJ-68XX	37000303 & Below	Figure 3.4-2a
	37000304 & Above	Figure 3.4-2b

LEGEND:
- MAIN MANIFOLD HARNESS
- ENGINE HARNESS
- PLATFORM CONTROL BOX
- OUTRIGGER PCB OPTION PLUG
- TILT SWITCH
- HIGH SPEED LIMIT SWITCH
- LOAD SENSE CONTROL MODULE

Refer to CE Terminal Strip for details.

H1

TO HORN
02 - WHITE
49 - BLACK

LOAD SENSE CTRL MODULE
MAIN MANIFOLD HARNESS
PLATFORM CONTROL BOX
OUTR PCB OPTION PLUG
OUTR CTRL MODULE
ENGINE HARNESS
HIGH SPEED LIMIT SW

TO LOAD SENSING CONTROL MODULE - P2
PIN 1 - N/U
PIN 2 - 10E BLUE/WHITE
PIN 3 - 14 BLACK
PIN 4 - 13 ORANGE
PIN 5 - N/U
PIN 6 - N/U
PIN 7 - 16 WHITE/BLACK
PIN 8 - 15 BLUE
PIN 9 - N/U
PIN 10 - 35B RED/BLACK
PIN 11 - 02 WHITE
PIN 12 - 10A BLUE/BLACK

BACK VIEW

28E GRN/WHT - TO CONTROL MODULE - P3-6
28 GRN/BLK - TO CONTROL MODULE - P3-4
60 BLK/WHT - TO CONTROL MODULE - P3-3

BACK VIEW

WHITE/BLACK (16)	P3-1	(02) WHITE
RED/BLACK (18)	P3-2	(05) WHITE/RED
ORANGE/BLACK (19)	P3-3	(05) WHITE/BLACK/RED
BLACK/WHITE/RED (20)	P3-4	(07) RED
BLACK/WHITE (23)	P3-5	(07) RED GREEN
BLUE/BLACK (24)	P3-6	(08) BLACK/RED
RED/WHITE (31)	P3-7	(09) ORANGE/RED
GREEN/BLACK (32)	P3-8	(10) BLUE/WHITE
GREEN/WHITE (34)	P3-9	(10) BLUE/RED
GREEN (49)	P3-10	(13) ORANGE
ORANGE/GREEN (60)	P3-11	(14) BLACK
RED/BLACK/WHITE (NOT USED)	P3-12	(15) BLUE
(GROUND) GRN/BLK/WHT TO (00)		

FEMALE

CRD3

OUTRIGGER PCB HARNESS
PIN 1 - 28A GREEN/WHITE
PIN 2 - 17B BLUE/RED
PIN 3 - N/U
PIN 4 - 14 BLACK
PIN 5 - 09 ORANGE/RED
PIN 6 - 44 RED
PIN 7 - 28 GREEN/RED
PIN 8 - 02 WHITE
PIN 9 - 02 WHITE
PIN 10 - 14A BLACK/WHITE
PIN 11 - 61 GREEN
PIN 12 - 36 YELLOW

NO OUTRIGGER OPTION JUMPER PLUG
PIN 1 TO PIN 7 - GREEN/RED (28-28A)
PIN 4 TO PIN 10 - BLACK (14-14A)

OUTRIGGER LIMIT SWITCHES

TO OUTR CTRL MODULE
PIN 1 - 10A BLACK
PIN 2 - N/U
PIN 3 - 02 WHITE
PIN 4 - 44 GREEN

NOTE: ONLY USED WITH OUTRIGGERS

BACK VIEW

TO ENGINE HARNESS
PIN 1 - N/U
PIN 2 - 34C GREEN/WHITE
PIN 3 - 02 WHITE
PIN 4 - 32A GREEN/BLACK
PIN 5 - 2A BLACK/RED
PIN 6 - 37 BLUE/WHITE
PIN 7 - 3A BLUE
PIN 8 - 31 RED/WHITE

BACK VIEW

HIGH SPEED LIMIT SWITCH
10A - BLACK
35 - BLACK/WHITE

LS5

MAIN MANIFOLD HARNESS
02 - WHITE
13B - ORANGE
14A - BLACK
15A - BLUE
15B - BLUE/YELLOW
16 A - WHITE/BLACK
16B - WHITE/RED
17 B - BLUE/RED
18 C- RED/BLACK
20A - BLACK/WHITE/RED
23 - BLACK/WHITE
24 - BLUE/BLACK
30 - BROWN

HOURMETER
TT

HOURS

CIRCUIT BREAKER CB1
EMERGENCY STOP S6
CIRCUIT BREAKER CB3
POWER ON LED-2
START SWITCH S32
GLOW PLUG LIGHT GPL1
GLOW PLUG SWITCH S31
KEY SWITCH S10
UP/DOWN SWITCH S2

00 WHITE - 14GA
F1 FUSE 300 AMP
MAIN BATTERY B1
03 BLUE - 14GA
TO ENGINE
MAIN DISCONNECT SWITCH S1

M13925SAB

NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

Figure 3.4-2b. Electrical Panel Wiring Diagram (CE)

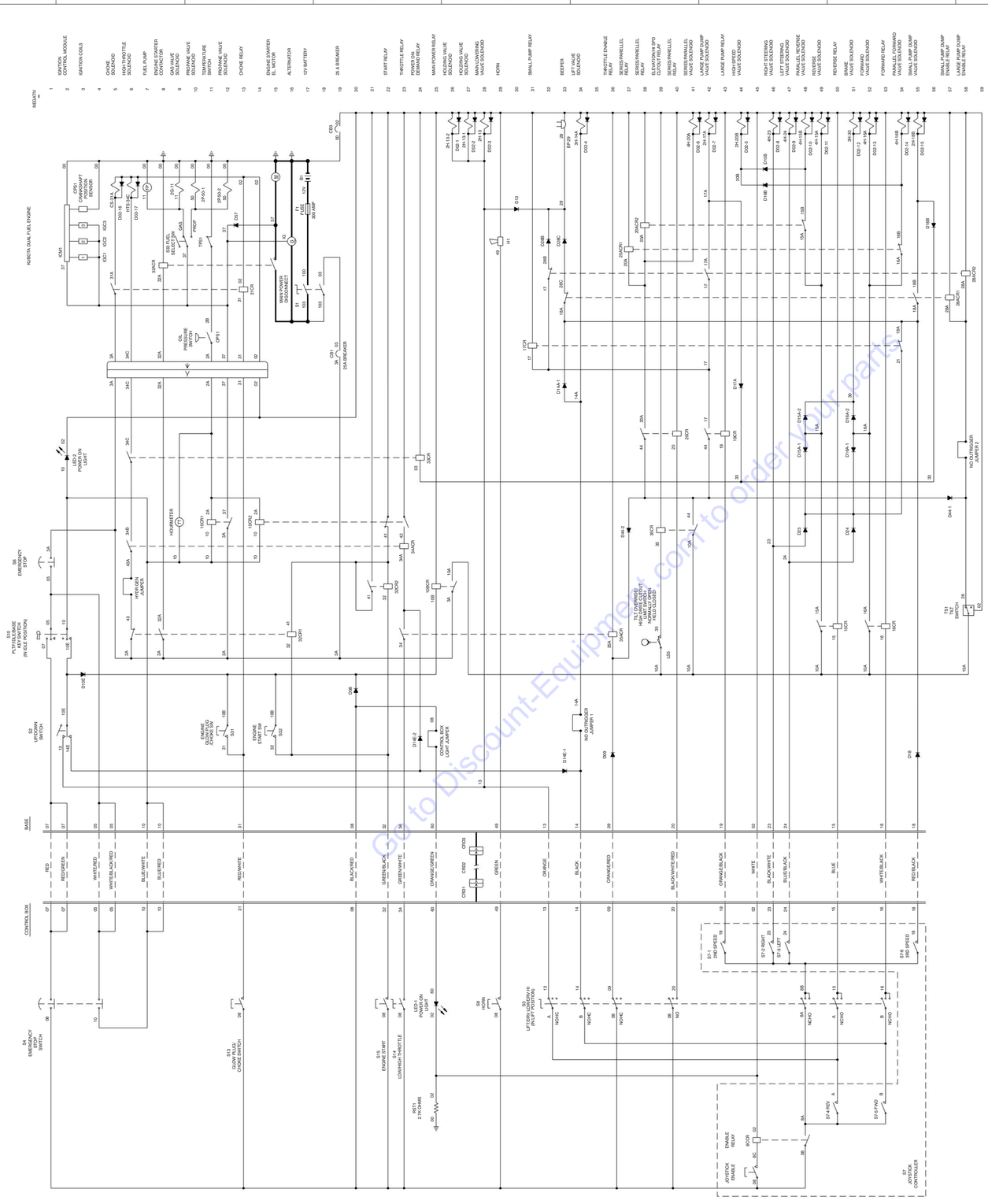
Serial Breakdown Reference Chart

Model	Serial Number	Reference
SJ-68XX	37000303 & Below	Figure 3.4-2a
	37000304 & Above	Figure 3.4-2b


LEGEND:
MAIN MANIFOLD HARNESS
ENGINE HARNESS
PLATFORM CONTROL BOX
OUTR/GEN HARNESS
TILT SWITCH
HIGH SPEED LIMIT SWITCH
LOAD SENSE CONTROL MODULE
H1
TO HORN
02 - WHITE
49 - BLACK
LOAD SENSE CTRL MODULE
MAIN MANIFOLD HARNESS
PLATFORM CONTROL BOX
OUTR/GEN HARNESS
OUTR CTRL MODULE
ENGINE HARNESS
HIGH SPEED LIMIT SW
HOURMETER
TT
HOURS
CIRCUIT BREAKER
CB1
EMERGENCY STOP
S6
CIRCUIT BREAKER
CB3
POWER ON
LED-2
GLOW PLUG
LIGHT GPL1
START SWITCH
S32
GLOW PLUG
SWITCH S31
KEY SWITCH
S10
UP/DOWN
SWITCH S2
SKYJACK
LS5
HIGH SPEED LIMIT SWITCH
10A - BLACK
35 - BLACK/WHITE
00 WHITE - 14GA
F1 FUSE
300 AMP
MAIN BATTERY
B1
03 BLUE - 14GA
MAIN
DISCONNECT
SWITCH S1
TO ENGINE
OUTRIGGER 12 PIN CONNECTOR PLUG
PIN 1 - 28A GREEN/WHITE
PIN 2 - 17A BLUE/BLACK
PIN 3 - 86A ORANGE/BLACK/WHITE
PIN 4 - 14 BLACK (2x)
PIN 5 - 09 ORANGE (2x)
PIN 6 - 44 RED
PIN 7 - 28 GREEN/BLACK
PIN 8 - 02 WHITE (2x)
PIN 9 - 02 WHITE/BLACK
PIN 10 - 14A BLACK/WHITE
PIN 11 - 61 GREEN
PIN 12 - 36 YELLOW
HYDRAULIC GENERATOR 12 PIN CONNECTOR PLUG
PIN 1 - EMPTY
PIN 2 - EMPTY
PIN 3 - EMPTY
PIN 4 - 02 WHITE
PIN 5 - 2A ORANGE/BLACK
PIN 6 - 09 ORANGE
PIN 7 - 14 BLACK
PIN 8 - 17 BLUE
PIN 9 - 43 RED/BLACK
PIN 10 - 43A RED/WHITE
PIN 11 - 86A ORANGE/BLACK/WHITE
PIN 12 - 86D ORANGE/BLACK/WHITE
MAIN MANIFOLD HARNESS
02 - WHITE
13B - ORANGE
14A - BLACK
15A - BLUE
15B - BLUE/YELLOW
16A - WHITE/BLACK
16B - WHITE/RED
17B - BLUE/RED
18C - RED/BLACK
20A - BLACK/WHITE/RED
23 - BLACK/WHITE
24 - BLUE/BLACK
30 - BROWN
86D - ORANGE/BLACK/WHITE
TO ENGINE HARNESS
PIN 1 - N/U
PIN 2 - 34C GREEN/WHITE
PIN 3 - 02 WHITE
PIN 4 - 32A GREEN/BLACK
PIN 5 - 2A BLACK/RED
PIN 6 - 37 BLUE/WHITE
PIN 7 - 3A BLUE
PIN 8 - 31 RED/WHITE
DEUTSCH
BACK VIEW
10A BLUE/WHITE
OUTRIGGER
LIMIT SWITCHES
TO LOAD SENSING
CONTROL MODULE - P2
PIN 1 - N/U
PIN 2 - 10E BLUE/WHITE
PIN 3 - 14 BLACK
PIN 4 - 13 ORANGE
PIN 5 - N/U
PIN 6 - N/U
PIN 7 - 16 WHITE/BLACK
PIN 8 - 15 BLUE
PIN 9 - N/U
PIN 10 - 35B RED/BLACK
PIN 11 - 02 WHITE
PIN 12 - 10A BLUE/BLACK
BACK VIEW
28E GRN/WHT - TO CONTROL MODULE - P3-6
28 GRN/BLK - TO CONTROL MODULE - P3-4
60 BLK/WHT - TO CONTROL MODULE - P3-3
BACK VIEW
WHITE/BLACK (16)
RED/BLACK (18)
ORANGE/BLACK (19)
BLACK/WHITE/RED (20)
BLACK/WHITE (23)
BLUE/BLACK (24)
RED/WHITE (31)
GREEN/BLACK (32)
GREEN/WHITE (34)
GREEN (49)
ORANGE/GREEN (60)
RED/BLACK/WHITE (NOT USED)
(GROUND) GRN/BLK/WHT TO (00)
(02) WHITE
(05) WHITE/RED
(05) WHITE/BLACK/RED
(07) RED
(07) RED GREEN
(08) BLACK/RED
(09) ORANGE/RED
(10) BLUE/WHITE
(10) BLUE/RED
(13) ORANGE
(14) BLACK
(15) BLUE
FEMALE
CRD3
NO OUTRIGGER JUMPER PLUG
PIN 1 & 7 - GRN/RED (28-28A)
PIN 4 & 10 - BLK (14-14A)
NO HYDR GEN JUMPER PLUG
PIN 9 & 10 - RED (43-43A)
TO OUTR CTRL MODULE
PIN 1 - 10A BLACK
PIN 2 - N/U
PIN 3 - 02 WHITE
PIN 4 - 44 GREEN
BACK VIEW
M146104AA

NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

Figure 3.4-3. Electrical Schematic - ANSI/CSA (No Option With Kubota Dual Fuel Engine)



NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

Figure 3.4-4. Electrical Schematic - ANSI/CSA (All Option With Kubota Dual Fuel Engine)

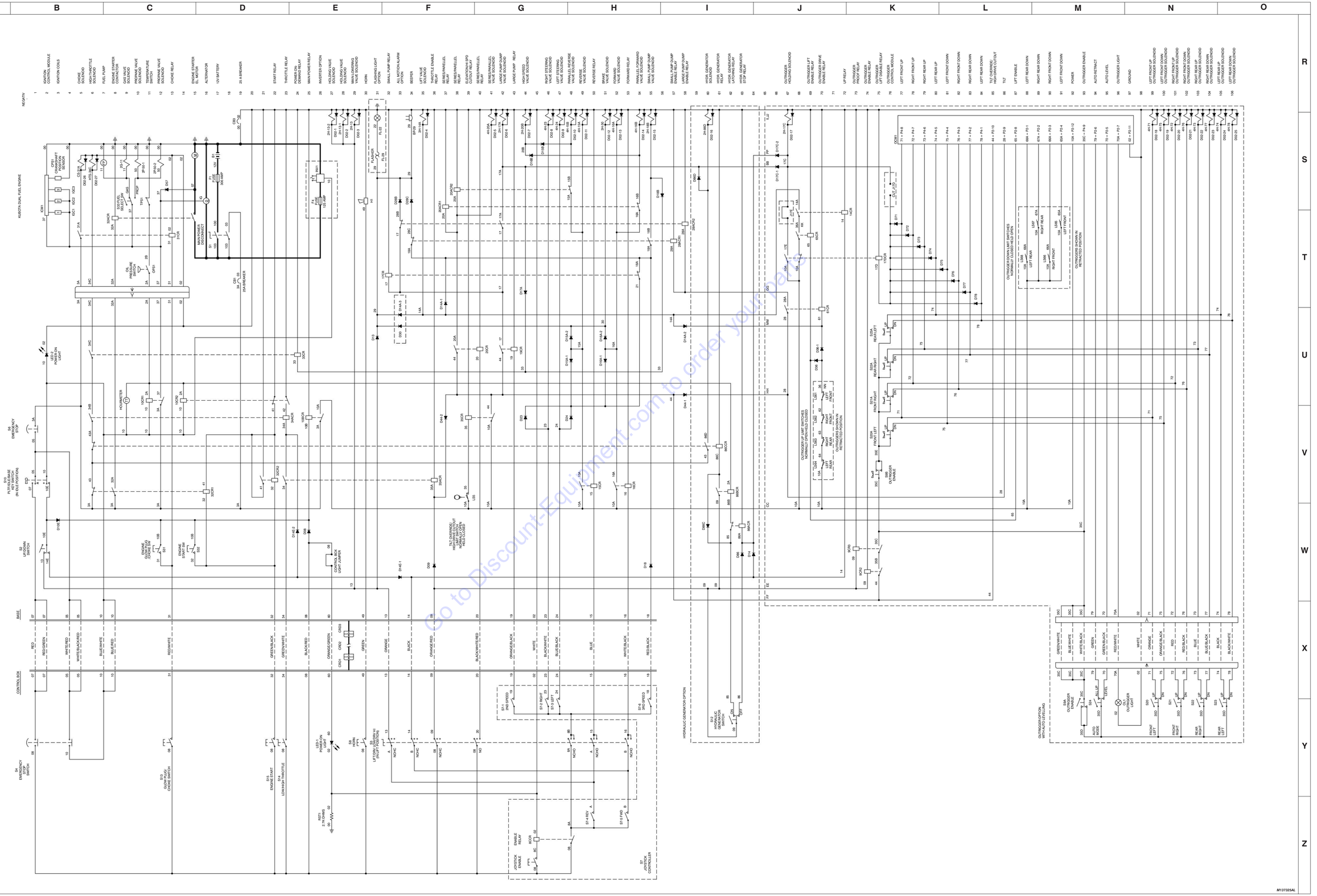
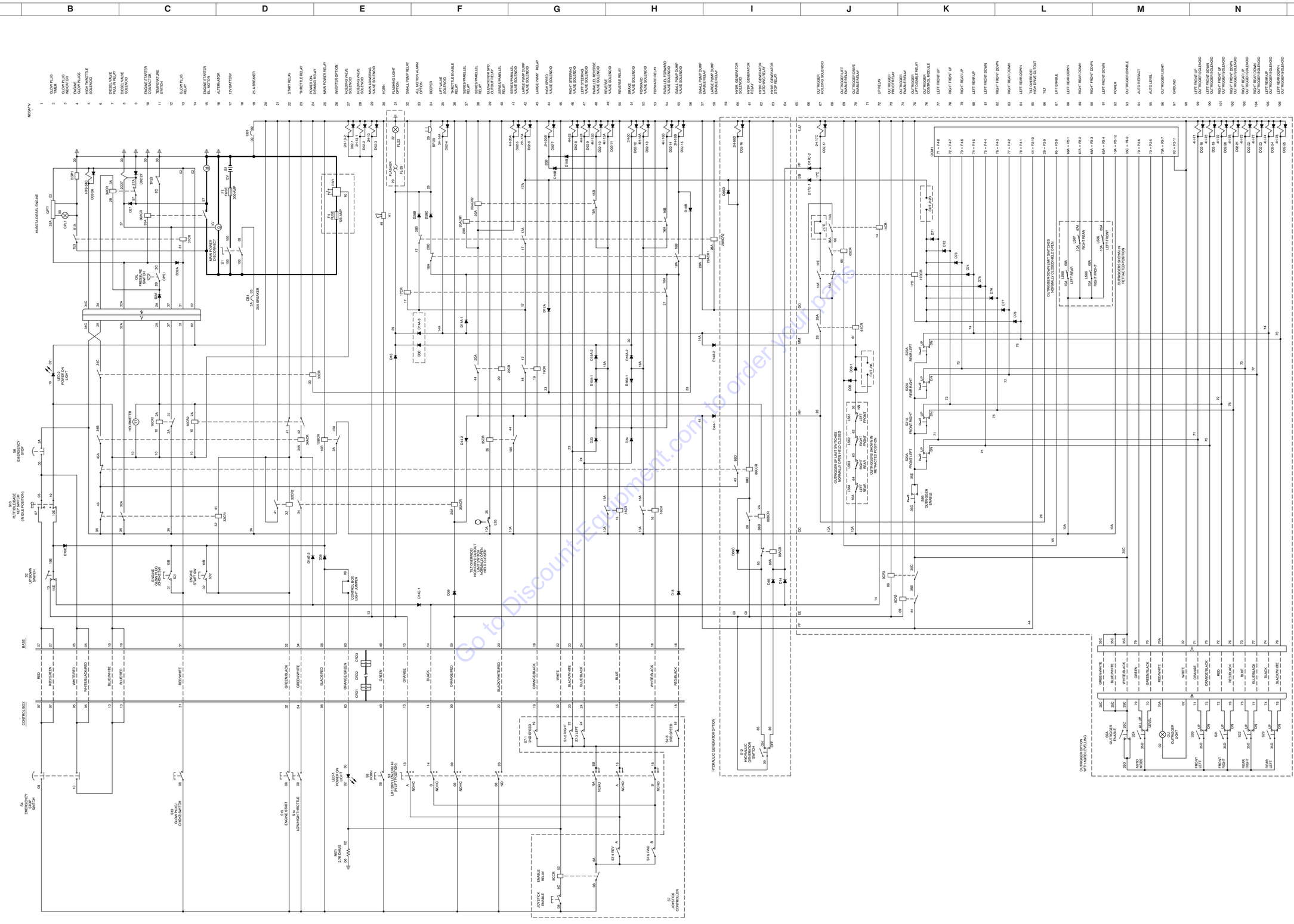


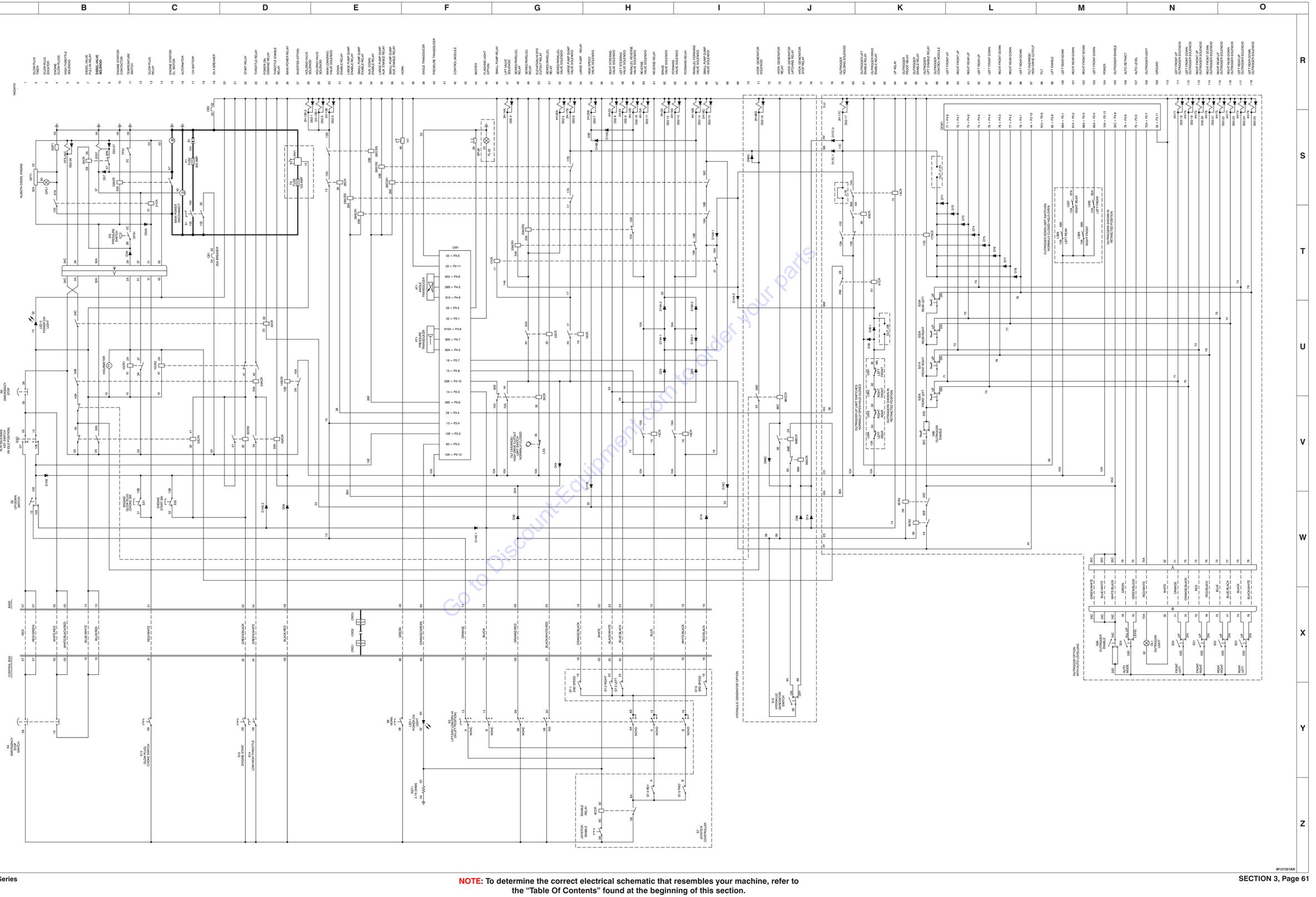
Figure 3.4-5. Electrical Schematic - ANSI/CSA (All Option With Kubota Diesel Engine)



M137326AN

NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

Figure 3.4-6. Electrical Schematic - CE (All Option With Kubota Diesel Engine)



NOTE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	R	S	T	U	V	W	X	Y	Z

NOTE: To determine the correct electrical schematic that resembles your machine, refer to the "Table Of Contents" found at the beginning of this section.

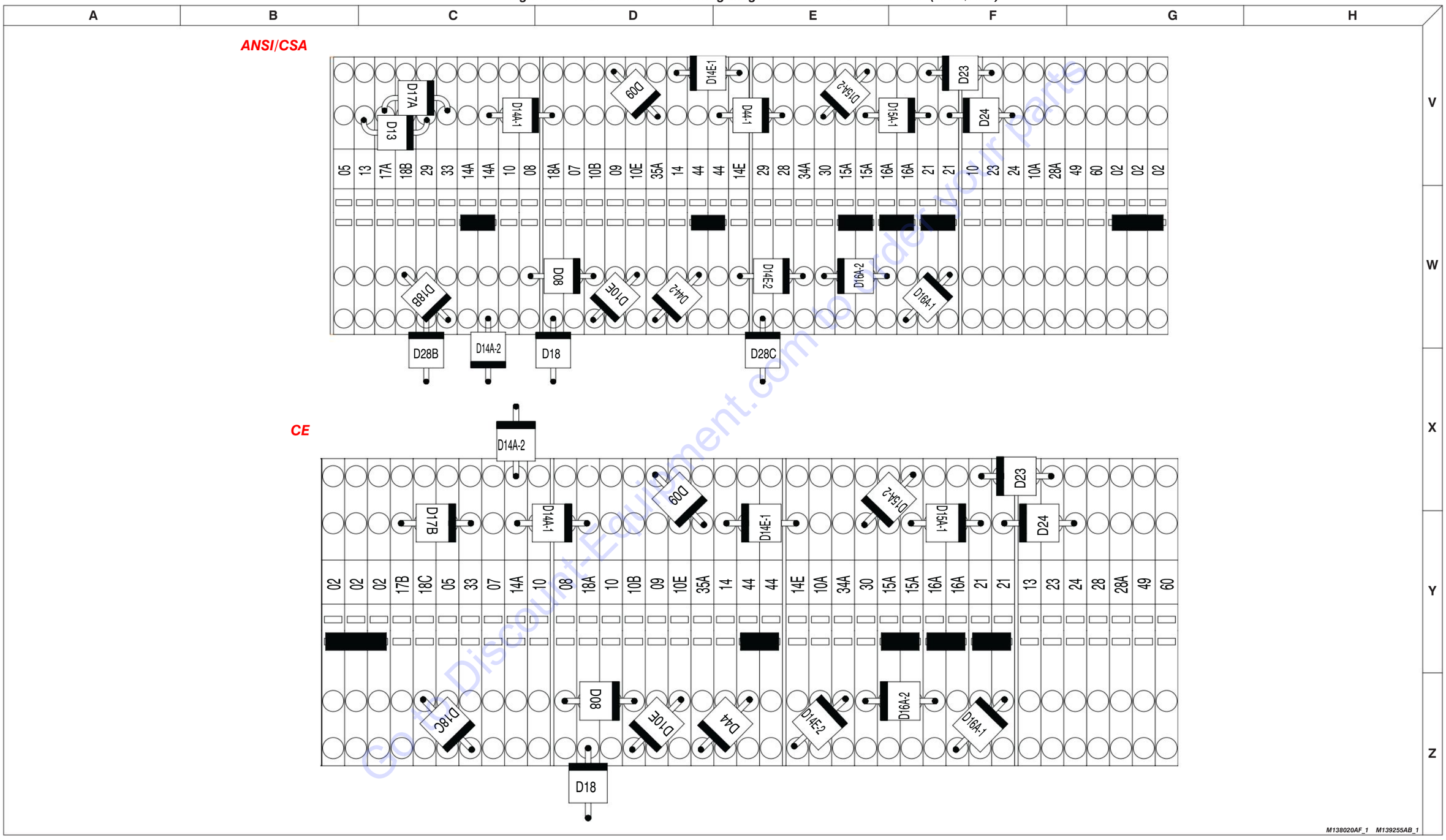


Figure 3.5-1. Electrical Inverter Wiring Diagram

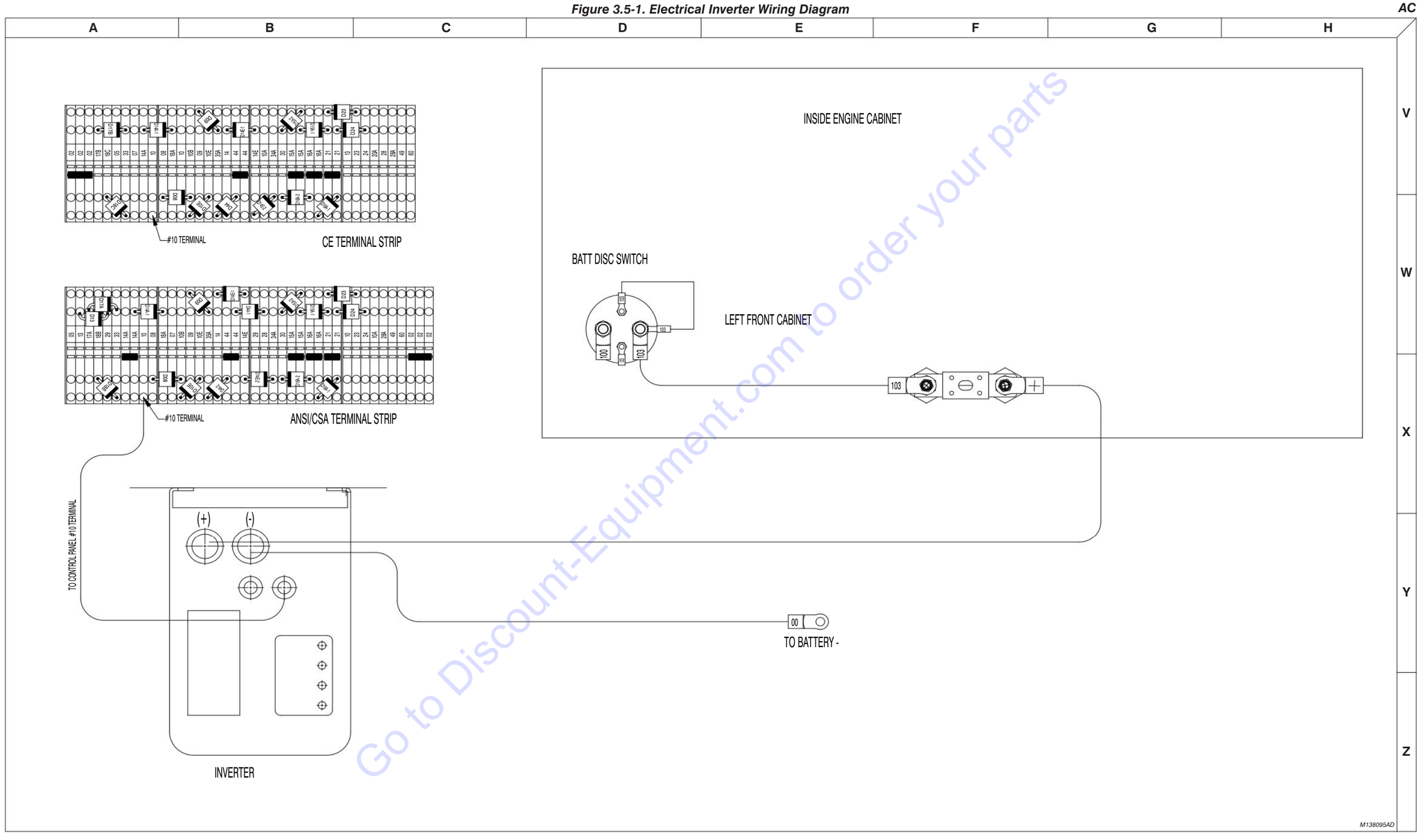
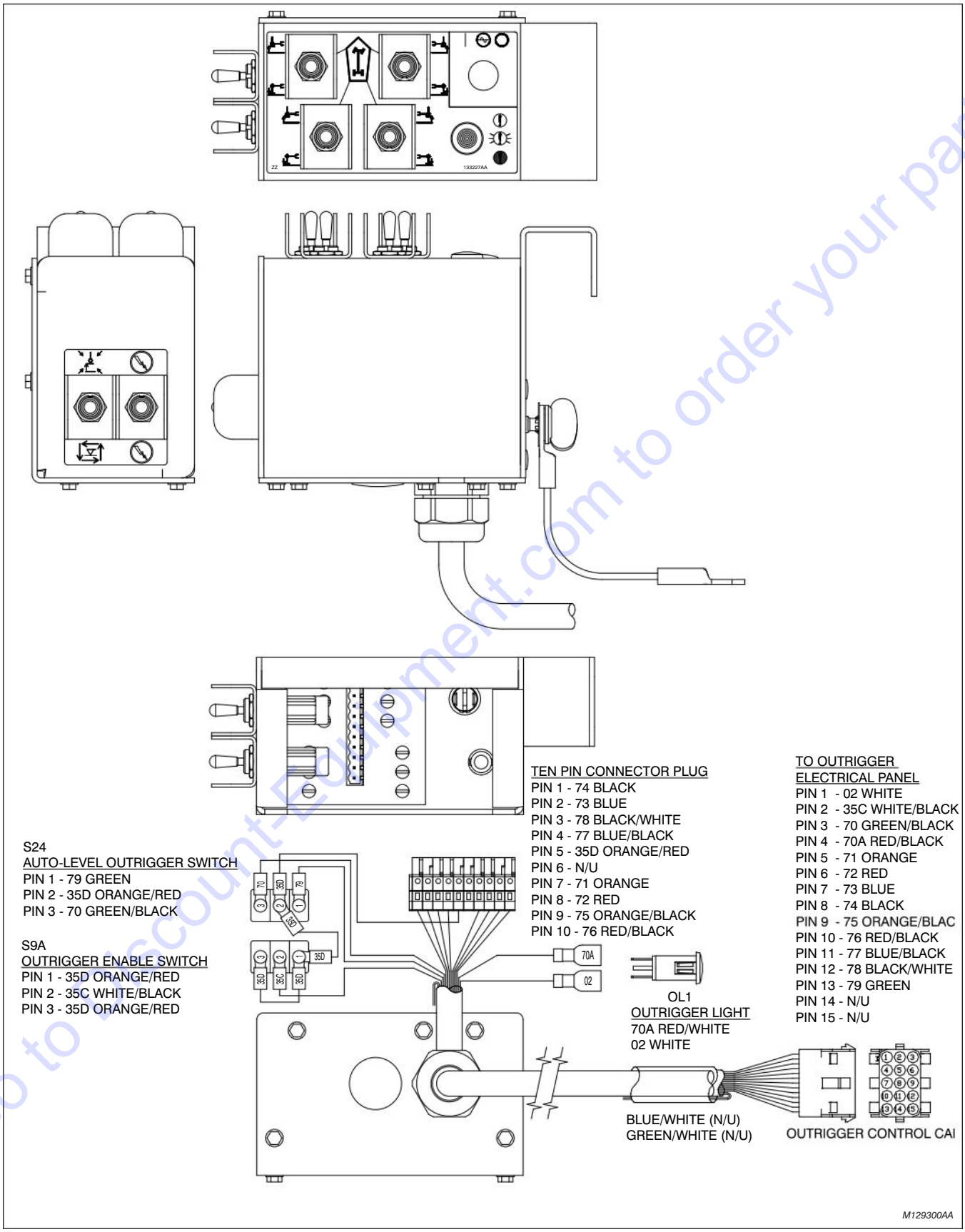


Figure 3.5-2. Outrigger Control Box Wiring Diagram



Section 4
TROUBLESHOOTING INFORMATION

Table of Contents

4

Hydraulic System

Introduction

The following pages contain a table of Troubleshooting Information for locating and correcting most service trouble which can develop. Careful inspection and accurate analysis of the systems listed in the table of Trouble-shooting Information will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

The content of this section is separated into “probable cause” and “remedy.” The information preceded by a number represents the “probable cause.” The following line, noted by a dash represents the “remedy” to the “probable cause” directly above it. See example below for clarification.

1. Probable Cause
   - Remedy

4.1-1. All Controls Inoperative

1. Battery disconnected or discharged.
   - Reconnect battery. Recharge if discharged.
2. Loose or dirty battery cables.
   - Clean and tighten battery cables.
3. Defective main fuse (F1) 300Amp.
   - Check fuse. Replace if defective.
4. Open or defective main power disconnect switch (S1).
   - Close switch. Replace if defective.
5. Loose or broken wire #03 from main power disconnect switch (S1) to circuit breaker (CB1).
   - Check continuity. Replace if defective.
6. Tripped or defective circuit breaker (CB1).
   - Reset breaker. Check for defective wiring. Replace breaker if defective.
7. Loose or broken wire #3A from breaker (CB1) to base terminal block (TB-1).
   - Check continuity. Replace if defective.
8. Loose or broken wire #3A from base terminal block (TB-1) to base emergency stop switch (S6)
   - Check continuity. Replace if defective.
9. Defective base emergency stop switch (S6).
   - Check switch. Replace if defective.
10. Loose or broken wire #5 from base emergency stop switch (S6) to base terminal block (TB-1).
    - Check continuity. Replace if defective.
11. Loose or broken wire #5 from base terminal block (TB-1) to emergency stop switch (S4).
    - Check continuity. Replace if defective.
12. Defective emergency stop switch (S4).
    - Check switch. Replace if defective.
13. Loose or broken wire #10 from emergency stop switch (S4) to base terminal block (TB-1).
    - Check continuity. Replace if defective.
14. Loose or broken wire #10 from base terminal block (TB-1) to key switch (S10).
    - Check continuity. Replace if defective.
15. Defective key switch (S10).
    - Check switch. Replace if defective.

4.1-2. No Power To Platform

1. Open or defective key switch (S10).
   - Check switch. Replace if defective.
2. Loose or broken wire #07 from key switch (S10) to base terminal block (TB-1).
   - Check continuity. Replace if defective.
3. Loose or broken wire #07 from base terminal block (TB-1) to emergency stop switch (S4).
   - Check continuity. Replace if defective.
4. Open or defective platform emergency stop switch (S4).
   - Check switch. Replace if defective.

4.1-3. All Functions Inoperative From The Platform

1. Open or defective emergency stop switch (S4).
   - Check switch. Replace if defective.
2. Loose or broken wire #08 from emergency stop switch (S4) to base terminal block (TB-1).
   - Check continuity. Replace if defective.

3. Open diode (D-08) at base terminal block.
   - Check diode. Replace if defective.

4.1-4. Engine Will Not Crank From Platform or Base Controls

1. Loose or broken wire #8 from horn switch (S8) to start switch (S15) (Platform only).
   - Check continuity. Replace if defective.
2. Defective start switch (S15) (Platform only).
   - Check switch. Replace if defective.
3. Loose or broken wire #32 from start switch (S15) to base start switch (S32) (Platform only).
   - Check continuity. Replace if defective.
4. Loose or broken wire #10E from key switch (S10) to base terminal block (TB-1) (Base only).
   - Check continuity. Replace if defective.
5. Defective key switch (S10) (Base only).
   - Check switch. Replace if defective.
6. Open or defective diode (D10E) (Base only).
   - Check diode. Replace if defective.
7. Loose or broken wire #10B from base terminal block (TB-1) to base choke switch (S31) (Base only).
   - Check continuity. Replace if defective.
8. Loose or broken wire #10B from base choke switch (S31) to base start switch (S32) (Base only).
   - Check continuity. Replace if defective.
9. Defective base start switch (S32) (Base only).
   - Check switch. Replace if defective.
10. Defective relay (32CR2).
    - Check relay. Replace if defective.
11. Loose or broken jumper wire #41 on relay (32CR2).
    - Check continuity. Replace if defective.
12. Loose or broken wire #02 from relay (32CR2) to base terminal block (TB-1).
    - Check continuity. Replace if defective.
13. Ground not gertting through N/C set of contacts on relay (10CR2) to relay (32CR2).
    - Check continuity through contacts. Replace if defective.
14. Loose or broken wire #3A from relay (10BC2) to relay (32CR1).
    - Check continuity. Replace if defective.
15. Loose or broken wire #32A from relay (32CR1) to engine harness.
    - Check continuity. Replace if defective.
16. Loose or broken wire #32 from relay (32CR2) to relay (32CR1).
    - Check continuity. Replace if defective.
17. Loose or broken wire #41 from relay (32CR2) to relay (32CR1).
    - Check continuity. Replace if defective.
18. Defective relay (32CR1).
    - Check relay. Replace if defective.
19. Loose or broken wire #32A from engine harness to starter contactor (32ACR).
    - Check continuity. Replace if defective.
20. Defective starter contactor (32ACR).
    - Check contactor. Replace if defective.
21. Loose or broken wire #00 from starter contactor (32ACR) to base terminal block (TB-1).
    - Check continuity. Replace if defective.
22. Loose or broken wire #103 from main power disconnect (S1) to starter contactor (32ACR).
    - Check continuity. Replace if defective.

23. Loose or broken wire #57 from starter contactor (32ACR) to starter motor.
    - Check continuity. Replace if defective.
24. Defective starter motor.
    - Check motor. Repair or replace if defective.

4.1-5. Engine Cranks But Will Not Start - Kubota Diesel

1. Open diode (D32A) from engine start switch (S32) to glow plug switch (S31).
    - Check diode. Replace if defective.
2. Loose or broken wire #37 from engine harness to diesel valve solenoid (2D37).
    - Check continuity. Replace if defective.
3. Loose or broken wire #57 from starter contactor (32ACR) to diesel valve solenoid (2D37).
    - Check continuity. Replace if defective.
4. Defective fuel valve solenoid (2D37).
    - Check solenoid. Replace if defective.
5. Defective glow plugs.
    - Check glow plugs. Repair if necessary.
6. Defective glow plug timer (GPT1).
    - Check timer. Replace if defective.
7. Defective glow plug relay (31CR).
    - Check relay. Replace if defective.

4.1-6. Engine Cranks But Will Not Start - Kubota Dual Fuel

1. Open or defective diode (D57).
    - Check diode. Replace if defective.
2. Loose or broken wire #37 from engine harness plug to coil pack 2 wire connector.
    - Check continuity. Replace if defective.
3. Loose or broken wire #00 from coil pack 2 wire connector to engine ground.
    - Check continuity. Replace if defective.
4. Loose or broken wire #00 from engine ground to crank position sensor.
    - Check continuity. Replace if defective.
5. Loose or broken wire #37 from ignition control module (ICM1) to crank position sensor (CPS1).
    - Check continuity. Replace if defective.
6. Defective ignition control module (ICM1).
    - Refer to section 5 of this manual for Ohm specifications. Replace if defective.
7. Defective crank position sensor.
    - Refer to section 5 of this manual for Ohm specifications. Replace if defective.
8. Loose or broken wire #37 from engine harness plug to fuel select switch (S33).
    - Check continuity. Replace if defective.
9. Defective fuel switch (S33).
    - Check switch. Replace if defective.
10. While in gasoline, loose or broken wire #11 from fuel select switch (S33) to fuel pump (FP11) or gas valve (2G-11).
    - Check continuity. Replace if defective.
11. While in propane, loose or broken wire #50 from fuel select switch (S33) to fuel lockoff (2P-50-1) or propane lockoff (2P-50-2).
    - Check continuity. Replace if defective.

12. Loose or broken wire #00 from engine ground to propane lockoff (2P-50-1) or (2P-50-2) (propane) or to gasoline (2G-11) or fuel pump (FP11) (gasoline).
    - Check continuity. Replace if defective.
13. Defective propane lockoff (2P-50-1) or (2P-50-2) (propane) or gas valve (2G-11) or fuel pump (FP11) (gasoline).
    - Check lockoffs, valve or pump. Replace if defective.

4.1-7. Glow Plugs Inoperative From Engine Controls or Platform (Diesel Models)

1. Loose or broken wire #8 from start switch (S15) to glow plug switch (S13).
    - Check continuity. Replace if defective.
2. Defective glow plug switch (S13).
    - Check switch. Replace if defective.
3. Loose or broken wire #31 from glow plug switch (S13) to glow plug switch (S31).
    - Check continuity. Replace if defective.
4. Loose or broken wire #31 from glow plug switch (S31) to glow plug relay (31CR).
    - Check continuity. Replace if defective.
5. Loose or broken wire #02 from glow plug relay (31CR) to base terminal block (TB1).
    - Check continuity. Replace if defective.
6. Loose or broken wire #103 from base terminal block (TB1) to relay (31CR).
    - Check continuity. Replace if defective.
7. Loose or broken wire #91A from relay (31CR) to engine glow plugs (EGP1).
    - Check continuity. Replace if defective.
8. Defective glow plug relay (31CR).
    - Check relay. Replace if defective.
9. Defective glow plugs.
    - Check glow plugs. Replace if defective.

4.1-8. Choke Inoperative From Engine Controls or Platform (Kubota Dual Fuel)

1. Loose or broken wire #8 from start switch (S15) to choke switch (S13) (Platform Only).
    - Check continuity. Replace if defective.
2. Defective choke switch (S13) (Platform Only).
    - Check switch. Replace if defective.
3. Loose or broken wire #31 from choke switch (S13) to base choke switch (S31) (Platform Only).
    - Check continuity. Replace if defective.
4. Loose or broken wire #10B from base terminal block (TB-1) to base choke switch (S31) (Base Only).
    - Check continuity. Replace if defective.
5. Defective base choke switch (S31) (Base Only).
    - Check switch. Replace if defective.
6. Loose or broken wire #31 from base choke swtich (S31) to engine harness.
    - Check continuity. Replace if defective.
7. Loose or broken wire #31 from engine harness to relay (31CR).
    - Check continuity. Replace if defective.
8. Loose or broken wire #02 from engine harness to relay (31CR).
    - Check continuity. Replace if defective.
9. Loose or broken wire #3A from engine harness to relay (31CR).
    - Check continuity. Replace if defective.

10. Defective relay (31CR).
    - Check relay. Replace if defective.
11. Loose or broken wire #31A from relay (31CR) to choke solenoid (CS-31A).
    - Check continuity. Replace if defective.
12. Loose or broken wire #02 from engine harness to choke solenoid (CS-31A).
    - Check continuity. Replace if defective.
13. Defective choke solenoid (CS-31A).
    - Check solenoid. Replace if defective.

4.1-9. High Throttle Inoperative

NOTE

If machine is in drive mode and is elevated above high speed limit switch, high throttle is inoperative.

1. Loose or broken wire #08 from LIFT/DRIVE select switch (S3) to LOW/HIGH throttle switch (S14).
    - Check continuity. Replace if defective.
2. Defective HIGH/LOW throttle switch (S14).
    - Check switch. Replace if defective.
3. Loose or broken wire #34 from LOW/HIGH throttle switch (S14) to relay (35ACR).
    - Check continuity. Replace if defective.
4. Open diode (D09) “when in lift only”
    - Check diode. Replace if defective.
5. Open diode (D44-2) “when in drive only”.
    - Check diode. Replace if defective.
6. Loose or broken wire #35A from base terminal block (TB-1) to relay (35ACR).
    - Check continuity. Replace if defective.
7. Defective relay (35ACR).
    - Check relay. Replace if defective.
8. Loose or broken wire #02 from relay (35ACR) to terminal block (TB1).
    - Check continuity. Replace if defective.
9. Loose or broken wire #34A from relay (35ACR) to relay (34ACR).
    - Check continuity. Replace if defective.
10. Defective relay (34ACR).
    - Check relay. Replace if defective.
11. Loose or broken wire #42 from relay (34ACR) to relay (10CR2).
    - Check continuity. Replace if defective.
12. Defective relay (10CR2).
    - Check relay. Replace if defective.
13. Loose or broken wire #2A from relay (10CR2) to relat (10CR1)
    - Check continuity. Replace if defective.
14. Loose or broken wire #3A from base terminal block (TB1) to relay (32CR1).
    - Check continuity. Replace if defective.
15. Defective relay (32CR1).
    - Check relay. Replace if defective.
16. Loose or broken wire #43 from relay (32CR1) to relay (34ACR).
    - Check continuity. Replace if defective.
17. Loose or broken wire #34B from relay (34ACR) to relay (33CR).
    - Check continuity. Replace if defective.

4.1-10. High Throttle On Demand Inoperative (Kubota Dual Fuel)

NOTE

If machine is in drive mode and is elevated above high speed limit switch, high throttle is inoperative.

1. Throttle switch (S14) in low throttle position.
   - Select high throttle position on switch.
2. Open or defective diode (D17A) or (D18B).
   - Check diodes. Replace if defective.
3. Loose or broken wire #33 from terminal block (TB1) to power on demand relay (33CR).
   - Check continuity. Replace if defective.
4. Loose or broken wire #02 from terminal block (TB1) to power on demand relay (33CR).
   - Check continuity. Replace if defective.
5. Defective power on demand relay (33CR).
   - Check relay. Replace if defective.
6. Loose or broken wire #34C from power on demand relay (33CR) to high throttle solenoid (HTS-34C).
   - Check continuity. Replace if defective.
7. Defective high throttle solenoid (HTS-34C).
   - Check solenoid. Replace if defective.

NOTE

If the above does not repair the high throttle on demand, refer to high throttle inoperative in this section.

4.1-11. Drive and Steer Inoperative (Machines without outriggers option)

1. LIFT/DRIVE select switch (S3) in LIFT position.
   - Turn switch to DRIVE position.
2. Defective contacts on LIFT/DRIVE select switch between wire #8A and wire #8B.
   - Check continuity through contact. Replace if defective.
3. Loose or broken wire #08 from LIFT/DRIVE select switch (S3) to joystick controller enable switch (S7-7).
   - Check continuity. Replace if defective.
4. Defective joystick enable switch (S7-7).
   - Check switch. Replace if defective.
5. Loose or broken wire #8A from joystick enable relay (8CCR) to speed, steer and direction switches (S7-1 to S7-6).
   - Check continuity. Replace if defective.
6. Loose or broken wire #8C from joystick enable switch (S7-7) to joystick enable relay (8CCR).
   - Check continuity. Replace if defective.
7. Defective joystick enable relay (8CCR).
   - Check continuity. Replace if defective.
8. Loose or broken wire #02 from joystick enable relay (8CCR) to joystick harness.
   - Check continuity. Replace if defective.
9. Loose or broken wire #10A from base terminal block to tilt switch (TS1).
   - Check continuity. Replace if defective.
10. Defective tilt swtich (TS1).
    - Check tilt switch. Replace if defective.

11. Loose or broken wire #28 from tilt switch (TS1) to terminal block (TB1).
    - Check continuity. Replace if defective.
12. Loose or broken wire #28 from base terminal (TB1) to outrigger connector (CN14) at pin #7.
    - Check continuity. Replace if defective.
13. Loose or broken jumper wire from #28 to # 28A on outrigger connector (CN14) between pin #1 and pin #7.
    - Check continuity. Replace if defective.
14. Loose or broken wire #28A from outrigger connector (CN14) at pin #1 to base terminal block (TB1).
    - Check continuity. Replace if defective.

4.1-12. Drive and Steer Inoperative (Machines with outriggers option)

1. Outriggers not fully retracted
   Fully retract outrigger cylinders
2. LIFT/DRIVE select switch (S3) in LIFT position.
   - Turn switch to DRIVE position.
3. Defective contacts on LIFT/DRIVE selectswitch between wire #8A and wire #8B.
   - Check continuity through contact. Replace if defective.
4. Loose or broken wire #08 from LIFT/DRIVE select switch (S3) to joystick controller enable switch (S7-7).
   - Check continuity. Replace if defective.
5. Defective joystick enable switch (S7-7).
   - Check switch. Replace if defective.
6. Loose or broken wire #8A from joystick enable relay (8CCR) to speed, steer and direction switches (S7-1 to S7-6).
   - Check continuity. Replace if defective.
7. Loose or broken wire #8C from joystick enable switch (S7-7) to joystick enable relay (8CCR).
   - Check continuity. Replace if defective.
8. Defective joystick enable relay (8CCR).
   - Check continuity. Replace if defective.
9. Loose or broken wire #02 from joystick enable relay (8CCR) to joystick harness.
   - Check continuity. Replace if defective.
10. Loose or broken wire #10A from base terminal block (TB1) to outrigger control module (OCM1) at pin #p2-12
    - Check continuity. Replace if defective.
11. Loose or broken wire #28 from outrigger control module (OCM1) at pin #P2-9 to outrigger connector (CN14) at pin #7.
    - Check continuity. Replace if defective.
12. Left rear outrigger limit switch (LS64) is out of adjustment or defective.
    - Check continuity through switch. Adjust switch if out of adjustment. Replace if defective.
13. Right rear outrigger limit switch (LS63) is out of adjustment or defective.
    - Check continuity through switch. Adjust switch if out of adjustment. Replace if defective.
14. Right front outrigger limit switch (LS62) is out of adjustment or defective.
    - Check continuity through switch. Adjust switch if out of adjustment. Replace if defective.
15. Left front outrigger limit switch (LS61) is out of adjustment or defective.
    - Check continuity through switch. Adjust switch if out of adjustment. Replace if defective.
16. Defective drive enable relay (61CR).
    - Check relay. Replace if defective.

17. Loose or broken wire #28A from pin #1 on connector (CN14) at the outrigger board to terminal block (TB1).
    - Check continuity. Replace if defective.

4.1-13. Brakes Will Not Release

1. Loose or broken wire #30 from base terminal block (TB1) to brake valve coil (3H-30).
    - Check continuity. Replace if defective.
2. Defective brake valve coil (3H-30).
    - Check continuity through coil. Replace if defective.
3. Loose or broken wire #02 from brake valve (3H-30) to base terminal block (TB1).
    - Check continuity. Replace if defective.

4.1-14. Steer Right Inoperative

1. Defective steer right switch (S7-2) in joystick controller (S7).
    - Check switch. Replace if defective.
2. Loose or broken wire #23 from steer right switch (S7-2) to base terminal block (TB1).
    - Check continuity. Replace if defective.
3. Loose or broken wire #23 from base terminal block (TB1) to steer right valve coil (4H23).
    - Check continuity. Replace if defective.
4. Defective steer right valve coil (4H23).
    - Check coil. Replace if defective.
5. Loose or broken wire #02 from steer right valve coil (4H23) to base terminal block (TB1).
    - Check continuity. Replace if defective.
6. Open diode (D23).
    - Check diode. Replace if defective.

4.1-15. Steer Left Inoperative

1. Defective steer left switch (S7-3) in joystick controller (S7).
    - Check switch. Replace if defective.
2. Loose or broken wire #24 from steer left switch (S7-3) to base terminal block (TB1).
    - Check continuity. Replace if defective.
3. Loose or broken wire #24 from base terminal block (TB1) to steer left valve coil (4H24).
    - Check continuity. Replace if defective.
4. Defective steer left valve coil (4H24).
    - Check coil. Replace if defective.
5. Loose or broken wire #02 from steer left valve coil (4H24) to base terminal block (TB1).
    - Check continuity. Replace if defective.
6. Open diode (D24).
    - Check diode. Replace if defective.

4.1-16. Reverse Drive Inoperative

1. Defective reverse switch (S7-4) in joystick controller (S7).
    - Check switch. Replace if defective.
2. Defective joystick controller (S7).
    - Check joystick. Replace if defective.

3. Loose or broken wire #A from reverse swtich (S7-4) to contacts on LIFT/DRIVE select switch between wire #A and wire #15.
   - Check continuity. Replace if defective.
4. Loose or broken wire #15 from LIFT/DRIVE select switch to relay (15CR).
   - Check continuity. Replace if defective.
5. Defective relay (15CR).
   - Check relay. Replace if defective.
6. Loose or broken wire #02 from relay (15CR) to base terminal block.
   - Check continuity. Replace if defective.
7. Loose or broken wire #10A from base terminal block to relay (15CR).
   - Check continuity. Replace if defective.
8. Loose or broken wire #15A from relay (15CR) to reverse valve coil (4H-15A).
   - Check continuity. Replace if defective.
9. Loose or broken wire #02 from reverse valve coil to base terminal block (TB1).
   - Check continuity. Replace if defective.
10. Loose or broken wire #15A from base terminal block (TB1) to relay (20ACR2) (only in parallel drive).
    - Check continuity. Replace if defective.
11. Defective relay (20ACR2) (only in parallel drive).
    - Check relay. Replace if defective.
12. Loose or broken wire #15B from relay (20ACR2) to parallel reverse valve coil (4H-15B) (only in parallel drive).
    - Check continuity. Replace if defective.
13. Loose or broken wire #02 from base terminal block (TB1) to parallel reverse valve coil. (4H-15B) (only in parallel drive).
    - Check continuity. Replace if defective.
14. Defective parallel reverse valve coil (4H-15B) (only in parallel drive).
    - Check coil. Replace if defective.
15. Open diode (D15A-1) or (D15A-2).
    - Check diodes. Replace if defective.

4.1-17. Forward Drive Inoperative

1. Defective forward switch (S7-5) in joystick controller (S7).
   - Check switch. Replace if defective.
2. Defective joystick controller (S7).
   - Check joystick. Replace if defective.
3. Loose or broken wire #B from forward switch (S7-5) to contacts on LIFT/DRIVE select switch between wire #B and wire #16.
   - Check continuity. Replace if defective.
4. Loose or broken wire #16 from LIFT/DRIVE select switch to relay (16CR).
   - Check continuity. Replace if defective.
5. Defective relay (16CR).
   - Check relay. Replace if defective.
6. Loose or broken wire #02 from relay (16CR) to base terminal block.
   - Check continuity. Replace if defective.
7. Loose or broken wire #10A from base terminal block to relay (16CR).
   - Check continuity. Replace if defective.
8. Loose or broken wire #16A from relay (16CR) to forward valve coil (4H-16A).
   - Check continuity. Replace if defective.

9. Loose or broken wire #02 from forward valve coil to base terminal block (TB1).
   - Check continuity. Replace if defective.
10. Loose or broken wire #16A from base terminal block (TB1) to relay (20ACR1) (only in parallel drive).
   - Check continuity. Replace if defective.
11. Defective relay (20ACR1) (only in parallel drive).
   - Check relay. Replace if defective.
12. Loose or broken wire #16B from relay (20ACR1) to parallel forward valve coil (4H-16B) (only in parallel drive).
   - Check continuity. Replace if defective.
13. Loose or broken wire #02 from base terminal block (TB1) to parallel forward valve coil. (4H-16B) (only in parallel drive).
   - Check continuity. Replace if defective.
14. Defective parallel forward valve coil (4H-16B) (only in parallel drive).
   - Check coil. Replace if defective.
15. Open diode (D16A-1) or (D16A-2).
   - Check diodes. Replace if defective.

4.1-18. First Drive Speed and Steering Inoperative

1. Loose or broken wire #21 from base terminal block (TB1) to relay (17CR).
   - Check continuity. Replace if defective.
2. Defective relay (17CR).
   - Check relay. Replace if defective.
3. Loose or broken wire #18A from relay (17CR) to base terminal block (TB1).
   - Check continuity. Replace if defective.
4. Loose or broken wire #18A from base terminal block (TB1) to relay (28ACR1).
   - Check continuity. Replace if defective.
5. Defective relay (28ACR1).
   - Check relay. Replace if defective.
6. Loose or broken wire #18B from relay (28ACR1) to base terminal block (TB1).
   - Check continuity. Replace if edefective.
7. Loose or broken wire #18B from base terminal block (TB1) to small pump dump valve coil (2H-18B)
   - Check continuity. Replace if defective.
8. Defective small pump dump valve coil (2H18B).
   - Check coil. Replace if defective.
9. Loose or broken wire #02 from small pump dump solenoid (2H18B) to base terminal block.
   - Check continuity. Replace if defective.

4.1-19. Second Drive Speed Inoperative

1. Defective second speed switch (S7-1) in joystick controller (S7).
   - Check switch. Replace if defective.
2. Defective joystick controller (S7).
   - Check joystick. Replace if defective.
3. Loose or broken wire #19 from joystick controller (S7-1) to relay (19CR).
   - Check continuity. Replace if defective.
4. Loose or broken wire #02 from platform terminal block (TB1) to relay (19CR).
   - Check continuity. Replace if defective.
5. Defective relay (19CR).
   - Check relay. Replace if defective.

6. Loose or broken wire #10A from base terminal block to high drive/tilt override limit switch (LS5).
   - Check continuity. Replace if defective.
7. Misadjusted or defective high drive/tilt override limit switch (LS5).
   - Adjust switch. Replace if defective.
8. Loose or broken wire #35 from high drive/tilt override limit switch (LS5) to relay (35CR).
   - Check continuity. Replace if defective.
9. Loose or broken wire #02 from relay (35CR) to base terminal block.
   - Check continuity. Replace if defective.
10. Defective relay (35CR).
    - Check relay. Replace if defective.
11. Loose or broken wire #10A from base terminal block (TB1) to relay (35CR).
    - Check continuity. Replace if defective.
12. Loose or broken wire #44 from relay (35CR) to base terminal block (TB1).
    - Check continuity. Replace if defective.
13. Loose or broken wire #44 from base terminal block (TB1) to relay (19CR).
    - Check continuity. Replace if defective.
14. Loose or broken wire #17 from relay (19CR) to relay (17CR).
    - Check continuity. Replace if defective.
15. Defective relay (17CR).
    - Check relay. Replace if defective.
16. Loose or broken wire #02 from relay (17CR) to base terminal block.
    - Check continuity. Replace if defective.
17. Loose or broken wire #17 from relay (17CR) to relay (28ACR2).
    - Check continuity. Replace if defective.
18. Loose or broken wire #17A from relay (28ACR2) to base terminal block.
    - Check continuity. Replace if defective.
19. Defective relay (28ACR2).
    - Check relay. Replace if defective.
20. Loose or broken wire #17A from base terminal block to large pump dump valve coil (2H17A).
    - Check continuity. Replace if defective.
21. Loose or broken wire #02 from large pump dump valve coil (2H17A) to base terminal block.
    - Check continuity. Replace if defective.
22. Defective large pump dump valve coil (2H17A).
    - Check solenoid. Replace if defective.

4.1-20. Third Drive Speed Inoperative

1. Defective third speed switch (S7-6) in joystick controller (S7).
   - Check switch. Replace if defective.
2. Defective joystick controller (S7).
   - Check joystick. Replace if defective.
3. Loose or broken wire #18 from third speed swtich (S7-6) to diode (D18) at base terminal block (TB1).
   - Check continuity. Replace if defective.
4. Defective diode (D18).
   - Check diode. Replace if defective.

4.1-21. High Drive Speed Inoperative

1. LIFT/DRIVE select switch (S3) in low drive position.
   - Select high drive position on LIFT/DRIVE select switch.
2. Defective contacts on LIFT/DRIVE select swtich (S3) between wire #8B and wire #20.
   - Check continuity through contact. Replace if defective.
3. Loose or broken wire #20 from LIFT/DRIVE select switch (S3) to relay (20CR)
   - Check continuity. Replace if defective.
4. Loose or broken wire #02 from relay (20CR) to base terminal block (TB1).
   - Check continuity. Replace if defective.
5. Defective relay (20CR).
   - Check relay. Replace if defective.
6. Loose or broken wire #44 from base terminal block (TB1) to relay (20CR)
   - Check continuity. Replace if defective.
7. Loose or broken wire #20A from relay (20CR) to relay (20ACR1).
   - Check continuity. Replace if defective.
8. Loose or broken wire #20A from relay (20ACR1) to series/parallel valve coil (4H-20A).
   - Check continuity. Replace if defective.
9. Loose or broken wire #02 from series/parallel valve coil (4H-20A) to base terminal block (TB1).
   - Check continuity. Replace if defective.
10 Defective series/parallel valve coil (4H-20A).
   - Check coil. Replace if defective.
11. Loose or broken wire #02 from relay (20ACR1) to base terminal block (TB1) (forward drive only).
   - Check continuity. Replace if defective.
12. Defective relay (20ACR1) (forward drive only).
   - Check relay. Replace if defective.
13. Loose or broken wire #20A from relay (20CR) to relay (20ACR2) (reverse drive only).
   - Check continuity. Replace if defective.
14. Loose or broken wire #02 from relay (20ACR2) to base terminal block (TB1) (reverse drive only).
   - Check continuity. Replace if defective.
15. Defective relay (20ACR2) (reverse drive only).
   - Check relay. Replace if defective.

4.1-22. Up Circuit Inoperative From Platform

1. LIFT/DRIVE select switch (S3) in DRIVE position.
   - Select LIFT on LIFT/DRIVE select switch.
2. Defective contact on LIFT/DRIVE select switch (S3) between wire #B and wire #14.
   - Check continuity through contact. Replace if defective.
3. Defective forward switch (S7-5) on joystick controller (S7).
   - Check switch. Replace if defective.
4. Loose or broken wire #B from forward switch (S7-5) to contact on LIFT/DRIVE select switch (S3).
   - Check continuity. Replace if defective.
5. Loose or broken wire #14 from contact on LIFT/DRIVE select switch (S3) to base terminal block (TB1).
   - Check continuity. Replace if defective.

4.1-23. Up Circuit Inoperative From Base (Base Control Box Option)

1. Loose or broken wire #10E from base terminal block (TB1) to BASE/UP/DOWN switch (S2)
   - Check continuity. Replace if defective.
2. Loose or broken wire #14E from BASE/UP/DOWN switch (S2) to base terminal block (TB1).
   - Check continuity. Replace if defective.
3. Defective BASE/UP/DOWN switch (S2).
   - Check switch. Replace if defective.
4. Open diode (D14E-1 or D10E).
   - Check diode. Replace if defective.

4.1-24. Up Circuit Inoperative From Platform or Base (Machines Without Outriggers)

1. Loose or broken wire #14 from base terminal block (TB1) to outrigger connector (CN14) at pin #4.
   - Check continuity. Replace if defective.
2. Loose or broken jumper wire between pin #4 and pin #10 on outrigger connector (CN14).
   - Check continuity. Replace if defective.
3. Loose or broken wire #14A from outrigger connector (CN14) at pin #10 to base terminal block (TB1).
   - Check contiuity. Replace if defective.
4. Loose or broken wire #14A from base terminal block (TB1) to lift valve coil (3H-14A).
   - Check continuity. Replace if defective.
5. Loose or broken wire #02 from lift valve coil (3H-14A) to base terminal block (TB1).
   - Check continuity. Replace if defective.
6. Defective lift valve coil (3H-14A).
   - Check coil. Replace if defective.
7. Defective diode (D14A-1).
   - Check diode. Replace if defective.

4.1-25. Platform Will Not Lift From Platform or Base Controls With Outriggers Retracted (Lift Operates Correctly With Outriggers Extended)

1. Outriggers not fully retracted.
   - Fully retract outrigger cylinders.
2. Loose or broken wire #10A from base terminal block (TB1) to pin #15 on connector (CN22) at the outrigger board.
   - Check continuity. Replace if defective.
3. Loose or broken wire #10A from outrigger board to outrigger limit switch (LS64).
   - Check continuity. Replace if defective.
4. Defective outrigger limit switch (LS64).
   - Check switch. Replace if defective.
5. Loose or broken wire #64 from outrigger limit switch (LS64) to outrigger board.
   - Check continuity. Replace if defective.
6. Loose or broken wire #64 from outrigger board to outrigger limit switch (LS63).
   - Check continuity. Replace if defective.
7. Defective outrigger limit switch (LS63).
   - Check continuity. Replace if defective.
8. Loose or broken wire #63 from outrigger limit switch (LS63) to outrigger board.
   - Check continuity. Replace if defective.

9. Loose or broken wire #63 from outrigger board to outrigger limit switch (LS62).
   - Check continuity. Replace if defective.
10. Defective Limit Switch (LS62).
   - Check switch. Replace if defective.
11. Loose or broken wire #62 from outrigger limit switch (LS62) to outrigger board.
   - Check continuity. Replace if defective.
12. Loose or broken wire #62 from outrigger board to outrigger limit switch (LS61).
   - Check continuity. Replace if defective.
13. Defective outrigger limit switch (LS61).
   - Check switch. Replace if defective.
14. Loose or broken wire #61 from outrigger limit switch (LS61) to outrigger board .
   - Check continuity. Replace if defective.
15. Open diode (D36) on outrigger board.
   - Check diode. Replace if defective.

4.1-26. Platform Will Not Lift From Platform or Base Controls With Outriggers Extended

1. Outriggers not extended enough.
   - Extend outriggers to take weight off tires (refer to operator section).
2. Loose or broken wire #10A from base terminal block (TB1) to pin #15 on connector (CN22) at the outrigger board.
   - Check continuity. Replace if defective.
3. Loose or broken wire #10A from outrigger board to outrigger limit switch (LS68).
   - Check continuity. Replace if defective.
4. Defective outrigger limit switch (LS68).
   - Check switch. Replace if defective.
5. Loose or broken wire #68A from outrigger limit switch (LS68) to outrigger board.
   - Check continuity. Replace if defective.
6. Loose or broken wire #10A from outrigger board to outrigger limit switch (LS67).
   - Check continuity. Replace if defective.
7. Defective outrigger limit switch (LS67).
   - Check switch. Replace if defective.
8. Loose or broken wire #67A from outrigger limit switch (LS67) to outrigger board.
   - Check continuity. Replace if defective.
9. Loose or broken wire #10A from outrigger board to outrigger limit switch (LS66).
   - Check continuity. Replace if defective.
10. Defective outrigger limit switch (LS66).
   - Check switch. Replace if defective.
11. Loose or broken wire #66A from outrigger limit switch (LS66) to outrigger board.
   - Check continuity. Replace if defective.
12. Loose or broken wire #10A from outrigger board to outrigger limit switch (LS65).
   - Check continuity. Replace if defective.
13. Defective outrigger limit switch (LS65).
   - Check switch. Replace if defective.
14. Loose or broken wire #65A from outrigger limit switch (LS65) to outrigger board.
   - Check continuity. Replace if defective.
15. Check for power on wire #65 at outrigger control module at pin P2-8.
   - If no voltage present, proceed to Outrigger Control Module Troubleshooting.

16. Loose or broken wire #65 from outrigger control module at pin P2-8 to outrigger board.
    - Check continuity. Replace if defective.
17. Defective lift enable relay (65CR).
    - Check relay. Replace if defective.
18. Defective lift disable relay (17BCR).
    - Check relay. Replace if defective.

4.1-27. Down Circuit Inoperative From Platform

1. LIFT/DRIVE select switch (S3) in DRIVE position.
    - Select LIFT on LIFT/DRIVE select switch.
2. Defective reverse switch (S7-4) on joystick controller (S7).
    - Check continuity through switch. Replace if defective.
3. Loose or broken wire #A from reverse switch (S7-4) to contact on LIFT/DRIVE select switch.
    - Check continuity. Replace if defective.
4. Defective contact on LIFT/DRIVE select switch (S3) between wire #A and wire #13.
    - Check continuity through contact. Replace if defective.
5. Loose or broken wire #13 from LIFT/DRIVE select switch (S3) to base terminal block (TB1).
    - Check continuity. Replace if defective.
6. Loose or broken wire #13 from base terminal block (TB1) to lowering valve (2H-13) or holding valve (2H-13-1) and (2H-13-2).
    - Check continuity. Replace if defective.
7. Loose or broken wire #02 from base terminal block (TB1) to lowering valve (2H-13) or holding valve (2H-13-1) and (2H-13-2).
    - Check continuity. Replace if defective.
8. Defective lowering valve coil (2H-13) or holding valve (2H-13-1) and (2H-13-2).
    - Check Coil. Replace if defective.

4.1-28. Down Circuit Inoperative From Base

1. Loose or broken wire #10E from base terminal block (TB1) to base Up/Down switch (S2).
    - Check continuity. Replace if defective.
2. Loose or broken wire #13 from base UP/DOWN switch (S2) to base terminal block (TB1).
    - Check continuity. Replace if defective.
3. Defective base Up/Down switch (S2).
    - Check swtich. Replace if defective.
4. Loose or broken wire #13 from base terminal block (TB1) to lowering valve (2H-13) or holding valve (2H-13-1) and (2H-13-2)
    - Check continuity. Replace if defective.
5. Loose or broken wire #02 from base terminal block (TB1) to lowering valve (2H-13) or holding valve (2H-13-1) and (2H-13-2).
    - Check continuity. Replace if defective.
6. Defective lowering valve coil (2H-13) or holding valve (2H-13-1) and (2H-13-2).
    - Check Coil. Replace if defective.

4.1-29. All Outriggers Inoperative (Auto-Level and Manual)

WARNING

Scissors lift must be below high speed limit switch for outriggers to function.

NOTE

For the outriggers to function the upper control box must be in the lift position and the scissor stack stowed or fully retracted.

1. Loose or broken wire # 44 from base terminal block (TB1) to pin #6 on connector (CN14) on outrigger board.
   - Check for continuity. Replace if defective.
2. No power at wire #9 at pin #5 on connector (CN14) on outrigger board.
   - If no power is present check for continuity on wire #9 back to the terminal block (TB2) or on wire #9 back to the main terminal block (TB1). Replace if defective.
3. Defective relay (9CR2) or (9CR3) on outrigger board.
   - Check relays. Replace if defective.
4. Open diode (D17C-1) on outrigger board.
   - Check diode. Replace if defective.
5. Loose or broken wire # 17A from pin #2 on connector (CN14) on outrigger board to terminal block (TB1).
   - Check for continuity. Replace if defective.
6. Loose or broken wire # 17C or wire #02 from pin #1 (17C) or pin #2 (02) on connector (CN21) on outrigger board to outrigger holding valve coil (2H17C).
   - Check for continuity. Replace if defective.
7. Defective outrigger holding valve coil (2H17C).
   - Check coil. Replace if defective.

4.1-30. All Outriggers Inoperative (Auto-Level and Manual from Platform Controls)

1. Loose or broken wire #35C from pin #1 on connector (CN20) on outrigger board through outrigger cables and plugs to the outrigger enable switch (S9A) in the control box.
   - Check for continuity. Replace if defective.
2. Loose or broken wire #35D from outrigger enable switch (S9A) to pin #5 on the outrigger control box plug.
   - Check for continuity. Replace if defective.
3. Defective outrigger enable switch (S9A).
   - Check switch. Replace if defective.

4.1-31. All Outriggers Inoperative (Base Controls Only)

1. Defective outrigger enable switch (S9B).
   - Check switch. Replace if defective.

4.1-32. All Outriggers Inoperative (Auto Level Only)
A: Led Power Indicator Light at Outrigger Control Module (OCM1) Not On (Constant)

1. Loose or broken wire #10A from pin #1 of the tilt switch connector to pin P2-12 on the outrigger control module (OCM1).
   - Check for continuity. Replace if defective.
2. Loose or broken wire # 10A from pin #1 of the tilt switch connector to base terminal block (TB1).
   - Check for continuity. Replace if defective.
3. Loose or broken wire # 02 from pin #3 of the tilt switch connector to pin P2-11 on the outrigger control module (OCM1).
   - Check for continuity. Replace if defective.
4. Loose or broken wire # 02 from pin #3 of the tilt switch connector to base terminal block (TB1).
   - Check for continuity. Replace if defective.
5. Defective outrigger control module (OCM1).
   - Replace.

4.1-32. All Outriggers Inoperative (Auto Level Only)
B: Led Power Indicator Light at Outrigger Control Module (OCM1) Flashing

Flash Code	Probable Cause	Remedy
1/1	1. Outriggers are all up and machine is tilted.	1. Level the machine.
1/2	1. Machine is elevated. 2. Loose or broken wire # 35.	1. Lower the scissor stack below high speed limit switch. 2. Check for input voltage on wire #35 at pin P2-10 of the outrigger control module (OCM1). Replace if defective.
2/2	1. At least one outrigger is not fully retracted. 2. Defective outrigger rod limit switch (LS61, LS62, LS63, LS64) or wiring. 3. Defective diode (D36) on outrigger board.	1. Fully retract all outriggers. 2. Replace defective or damaged switch(es) or wiring. 3. Check for continuity. Replace if defective.
2/1	1. Outriggers are all down and the machine is not fully level.	1. Move machine to less sloped terrain if it will not lift.
5/5	1. Power on wire #70 or #79 at power on. 2. Power on wire #70 or #79 when manually operating outriggers.	1. Check for power on wire #70 or #79 at pin P2-5 or P2-6 of the outrigger control module. Replace defective component. 2. Check for power on wire #70 or #79 while manually operating an outrigger.
5/2	1. Low or no voltage on wire #35c. 2. Loose or broken wire on #35c.	1. Check battery and charging system to ensure minimum 9 volts. 2. Check for input voltage on wire #35c at pin P4-9 of outrigger control module (OCM1).
7/1	1. Excessive vibration. 2. Defective outrigger control module.	1. Outrigger control module cannot read tilt sensor. 2. Replace.
6/6	1. Outriggers are being manually controlled.	1. Indicates function activated. No repair necessary.
7/8	1. Error occured while self diagnosing the hardware fail safe.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
5/1	1. Low input voltage to outrigger control module.	1. Check for minimum 9 volts between wire #02 at pin P2-11 and wire #10A at pin P2-12 at outrigger control module.
7/7	1. Startup error occurred while self diagnosing.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/5	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/2	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/1	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/2	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/3	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/4	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
8/5	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.
7/6	1. Internal failure of OCM1.	1. Turn off power to reset the outrigger control module. Turn power back on and see if the code has cleared. If problem persists, replace outrigger control module.

60416AB

4.1-33. Left Front Outrigger Inoperative Manually

1. Defective left front outrigger switch (S20 at platform or S20A at base).
   - Check switch. Replace if defective.
2. Loose or broken wire #71(up) or #75 (down) from outrigger control box to pin #6 (up) or pin #7 (down) on connector (CN20) at outrigger board.
   - Check continuity. Replace if defective.
3. Open diode (D71) up or (D75) down on outrigger board.
   - Check diode. Replace if defective.
4. Loose or broken wire #71(up) or #75 (down) from pin #7 (up) or pin #8 (down) on connector (CN21) at outrigger board to valve coil (4H-71) up or (4H-75) down.
   - Check continuity. Replace if defective.
5. Loose or broken wire #02 from valve coil (4H-71) up or (4H-75) down to pin #2 on connector (CN21) at the outrigger board.
   - Check continuity. Replace if defective.

4.1-34. Right Front Outrigger Inoperative Manually

1. Defective right front outrigger switch (S21 at platform or S21A at base).
   - Check switch. Replace if defective.
2. Loose or broken wire #72(up) or #76 (down) from outrigger control box to pin #8 (up) or pin #9 (down) on connector (CN20) at outrigger board.
   - Check continuity. Replace if defective.
3. Open diode (D72) up or (D76) down on outrigger board.
   - Check diode. Replace if defective.
4. Loose or broken wire #72(up) or #76 (down) from pin #9 (up) or pin #10 (down) on connector (CN21) at outrigger board to valve coil (4H-72) up or (4H-76) down.
   - Check continuity. Replace if defective.
5. Loose or broken wire #02 from valve coil (4H-72) up or (4H-76) down to pin #2 on connector (CN21) at the outrigger board.
   - Check continuity. Replace if defective.

4.1-35. Right Rear Outriggers Inoperative Manually

1. Defective right rear outrigger switch (S22 at platform or S22A at base).
   - Check switch. Replace if defective.
2. Loose or broken wire #73(up) or #77 (down) from outrigger control box to pin #3 (up) or pin #4 (down) on connector (CN20) at outrigger board.
   - Check continuity. Replace if defective.
3. Open diode (D73) up or (D77) down on outrigger board.
   - Check diode. Replace if defective.
4. Loose or broken wire #73(up) or #77 (down) from pin #4 (up) or pin #5 (down) on connector (CN21) at outrigger board to valve coil (4H-73) up or (4H-77) down.
   - Check continuity. Replace if defective.
5. Loose or broken wire #02 from valve coil (4H-73) up or (4H-77) down to pin #2 on connector (CN21) at the outrigger board.
   - Check continuity. Replace if defective.

4.1-36. Left Rear Outriggers Inoperative Manually

1. Defective left rear outrigger switch (S23 at platform) (S23A at base).
   - Check switch. Replace if defective.
2. Loose or broken wire #74(up) or #78 (down) from outrigger control box to pin #5 (up) or pin #2 (down) on connector (CN20) at outrigger board.
   - Check continuity. Replace if defective.
3. Open diode (D74) up or (D78) down on outrigger board.
   - Check diode. Replace if defective.
4. Loose or broken wire #74(up) or #78 (down) from pin #6 (up) or pin #3 (down) on connector (CN21) at outrigger board to valve coil (4H-74) up or (4H-78) down.
   - Check continuity. Replace if defective.
5. Loose or broken wire #02 from valve coil (4H-74) up or (4H-78) down to pin #2 on connector (CN21) at the outrigger board.
   - Check continuity. Replace if defective.

4.1-37. Individual Outrigger Functions Inoperative (Auto-Level)

1. Loose or broken wire #71- #75 (depending on function not working) at outrigger control module plug (P4) pins 1-8.
   - Check connections of outrigger functions not working (refer to Section 5 for pin reference chart). Replace if defective.
2. No output from outrigger control module (OCM1) at plug (P4) pins 1-8.
   - Turn off power to reset the outrigger control module. Turn power back on and retest. If problem persists, replace outrigger control module.

4.1-38. Auto-Level Inoperative

1. Loose or broken wire #35D from outrigger enable switch (S9A) to auto mode outrigger switch (S24).
   - Check continuity. Replace if defective.
2. Defective auto mode outrigger switch (S24).
   - Check switch. Replace if defective.
3. Loose or broken wire #10A at PIN#P2-12 on outrigger control module (OCM1).
   - Check for power at P2-12. If no voltage present, check continuity of wire. Replace if defective.
4. Loose or broken wire #35 at PIN#P2-10 on outrigger control module (OCM1).
   - Check for power at P2-10. If no voltage present, check continuity of wire. Replace if defective.
5. Loose or broken wire #02 at PIN#P2-11 on outrigger control module (OCM1).
   - Check for ground at P2-11. If no ground present, check continuity of wire. Replace if defective.
6. Loose or broken wire #70 from auto mode outrigger switch (S24) to PIN#P2-5 on outriger control module (OCM1).
   - Check continuity. Replace if defective.
7. For additional information, refer to sections 4 & 5 “Outrigger Control Module - Troubleshooting.”

4.1-39. Auto All Up Inoperative (Retract)

1. Loose or broken wire #35D from outrigger enable switch (S9A) to auto mode outrigger switch (S24).
   - Check continuity. Replace if defective.

2. Defective auto mode outrigger switch (S24).
   - Check switch. Replace if defective.

3. Loose or broken wire #10A at PIN#P2-12 on outrigger control module (OCM1).
   - Check for power at P2-12. If no voltage present, check continuity of wire. Replace if defective.
4. Loose or broken wire #35 at PIN#P2-12 on outrigger control module (OCM1).
   - Check for power at P2-10. If no voltage present, check continuity of wire. Replace if defective.
5. Loose or broken wire #02 at PIN#P2-11 on outrigger control module (OCM1).
   - Check for ground at P2-11. If no ground present, check continuity of wire. Replace if defective.
6. Loose or broken wire #70 from auto mode outrigger switch (S24) to PIN#P2-5 on outriger control module (OCM1).
   - Check continuity. Replace if defective.
7. For additional information, refer to section 5 “Outrigger Control Module.”

4.2-1. All Functions Inoperative

1. Hydraulic oil level low.
   - Refill tank to proper level.
2. Defective pump (P1).
   - Check pump. Repair or replace if defective.
3. Broken engine to pump coupler.
   - Check coupler. Replace if defective.
4. Relief valve (R1) open.
   - Check valve. Replace if defective.

4.2-2. Steering Inoperative

2. Stuck or defective steer right valve (4H23A) or steer left valve (4H24A).
   - Check valves. Replace if defective.
3. Steer cylinder (C7) damaged or bypassing internally.
   - Check cylinder. Repair or replace if defective.

4.2-3. Lift, Steer and First Drive Speed Inoperative

1. Small pump dump valve (2H18B) stuck open.
   - Check valve. Repair or replace if defective.
2. Worn or defective small pump section of pump (P1).
   - Check pump. Repair or replace if defective.
3. Check valve (CV1) or (CV2) stuck.
   - Check valves. Clean or replace if defective.

4.2-4. Second Drive Speed Inoperative

1. Large pump dump valve (2H17A) stuck open.
   - Check valve. Repair or replace if defective.
2. Worn or defective large pump section of pump (P1).
   - Check pump. Repair or replace if defective.
3. Check valve (CV1) or (CV2) stuck.
   - Check valves. Clean or replace if defective.

4.2-5. Drive Inoperative

1. Stuck or defective drive reverse valve (4H15A) or drive forward valve (4H16A).
   - Check valves. Repair or replace if defective.
2. Defective drive relief valve (R5).
   - Check valve. Replace if defective.
3. Stuck or defective main counterbalance valve (CB1).
   - Check valve. Repair or replace if defective.
4. Defective drive motor (M1), (M2), (M3) or (M4).
   - Check motor. Repair or replace if defective.
5. Free wheeling valve (V2) open or defective.
   - Close valve. Repair or replace if defective.

4.2-6. Drive Sluggish

1. Check valve (CV3), (CV4), (CV5), or (CV6) stuck open or is defective.
   - Check valve. Replace if defective.
2. Drive relief valve (R5) set too low.
   - Refer to Section 5 of this manual for setup procedure.
3. Defective flow divider (FD1).
   - Check flow divider. Replace if defective.

4.2-7. Reverse Drive Inoperative

1. Stuck or defective drive valve (4H15A).
   - Check valve. Repair or replace if defective.

4.2-8. Forward Drive Inoperative

1. Stuck or defective drive valve (4H16A).
   - Check valve. Repair or replace if defective.

4.2-9. Drive Inoperative When in Low Drive

1. Parallel counterbalance valve (CB2) stuck or defective.
   - Check valve. Replace if defective.
2. Parallel forward drive valve (4H-16B) or parallel reverse valve (4H-15B) stuck or defective.
   - Check valve. Replace if defective.

4.2-10. Drive Inoperative When in High Drive

1. Series/parallel valve (4H-20A) not shifting or is defective.
   - Check valve. Replace if defective.
2. Main counterbalance valve (CB1) stuck or defective.
   - Check valve. Replace if defective.

4.2-11. Brakes Will Not Release

1. Stuck or defective brake valve (3H-30).
   - Check valve. Repair or replace if defective.
2. Stuck or defective auto reset valve (V6).
   - Check valve. Repair or replace if defective.

4.2-12. Up Circuit Inoperative

1. Stuck or defective lift valve (3H-14A).
   - Check valve. Repair or replace if defective.
2. Misadjusted or defective lift relief valve (R2).
   - Adjust valve. Replace if defective.
3. Stuck or defective lowering valve (2H13).
   - Check valve. Repair or replace if defective.
4. Stuck or defective manual lowering valve (V1).
   - Check valve. Repair or replace if defective.

5. Open manual override on holding valve (2H13-1) or (2H13-2).
   - Depress and turn manual override clockwise to close. Replace if defective.
6. Stuck holding valve (2H13-1) or (2H13-2).
   - Check valves. Repair or replace if defective.

4.2-13. Down Circuit Inoperative

1. Stuck or defective lowering valve (2H13).
   - Check valve. Repair or replace if defective.
2. Stuck holding valve (2H13-1) or (2H13-2).
   - Check valves. Repair or replace if defective.
3. Plugged lowering orifice (O1).
   - Clean or replace orifice.

4.2-14. All Outriggers Inoperative

1. Stuck or defective outrigger holding valve (2H-17C).
   - Check valve. Repair or replace if defective.

4.2-15. Left Front Outriggers Inoperative

1. Stuck or defective retract valve (4H-71) or extend valve (4H-75).
   - Clean valve. Replace if defective.
2. Stuck or defective check valve (CV7).
   - Check valve. Replace if defective.
3. Bypassing outrigger cylinder (C9).
   - Repack cylinder. Replace if defective.

4.2-16. Right Front Outriggers Inoperative

1. Stuck or defective retract valve (4H-72) or Extend Valve (4H-76).
   - Clean valve. Replace if defective.
2. Stuck or defective check valve (CV8).
   - Check valve. Replace if defective.
3. Bypassing outrigger cylinder (C10).
   - Repack cylinder. Replace if defective

4.2-17. Right Rear Outriggers Inoperative

1. Stuck or defective retract valve (4H-73) or Extend Valve (4H-77).
   - Clean valve. Replace if defective.
2. Stuck or defective check valve (CV9).
   - Check valve. Replace if defective.
3. Bypassing outrigger cylinder (C11).
   - Repack cylinder. Replace if defective.

4.2-18. Left Rear Outriggers Inoperative

1. Stuck or defective retract valve (4H-74) or extend valve (4H-78).
   - Clean valve. Replace if defective.
2. Stuck or defective check valve (CV10).
   - Check valve. Replace if defective.
3. Bypassing outrigger cylinder (C12).
   - Repack cylinder. Replace if defective

4.2-19. Outriggers Drift In

1. Defective check valve left front (CV7), right front (CV8), right rear (CV9) or left rear (CV10).
   - Clean valve. Replace if defective.
2. Outriggers cylinder bypassing left front (C9), right front (C10), right rear (C11) or left rear (C12).
   - Repack cylinder. Replace if defective.

Section 5
Procedures

Table of Contents

Maintenance and Inspection

Death or injury can result if the work platform is not kept in good working order. Inspection and maintenance should be performed by competent personnel who are familiar with mechanical procedures.

The operator should be assured that the work platform has been properly maintained before using it. Included in this section is information on lubrication and inspection points that require maintenance.

Even if the operator is not responsible for the maintenance of this work platform, the operator should perform the daily inspections found in Table 2.6 - Maintenance and Inspection Schedule.

IMPORTANT NOTE

Replace all worn or damaged parts or labels discovered during this inspection. Any problems or malfunctions that may affect the safe operation of this work platform must be repaired immediately.

WARNING

Maintenance must be performed by trained and competent personnel who are familiar with mechanical procedures.

Death or serious injury could result from the use of an aerial platform that is not properly maintained or kept in good working condition.

WARNING

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

Maintenance and Inspection Schedule

- The inspection points covered in Table 2.8 indicate the areas of the aerial platform to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.

- The actual operating environment of the aerial platform may affect the maintenance schedule.

WARNING

Use original or manufacturer-approved parts and components for the aerial platform.

Owner's Inspections

It is the responsibility of the owner to arrange daily, quarterly (or 150 hours) and annual inspections of the aerial platform. Refer to Table 2.8 for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located on the scissor assembly. Refer to Table 2.2 - Owner's Annual Inspection Record in section 2 is to be used for recording the date of inspection, owner's name and the person responsible for the inspection of this work platform.

General Maintenance Hints

- Before attempting any repair work, disconnect battery ground negative (-) lead.

- Properly position maintenance bar if the scissors assembly is raised.

- Preventive maintenance is the easiest and least expensive type of maintenance.

5.1 Hydraulic System and Component Maintenance and Repair

The following points should be kept in mind when working on the hydraulic system or any component:

1. Any structure has limits of strength and durability. To prevent failure of structural parts of hydraulic components, relief valves which limit pressure to safe operating values are included in the hydraulic circuits.

2. Tolerance of working parts in the hydraulic system are very close. Even small amounts of dirt or foreign material in the system can cause wear or damage to components, as well as general faulty operation of the hydraulic system. Every precaution must be taken to assure absolute cleanliness of the hydraulic oil.

3. Samples of hydraulic oil should be drawn from the reservoir every six months. These samples should be about two quarts and should be taken while the oil is warmed through normal operation of the system. If possible, the sample should be analyzed by a qualified lubrication specialist to determine whether it is suitable for further use. The intervals between oil changes depend on operating conditions and on the care used in keeping the oil clean.

4. Whenever there is a hydraulic system failure which gives reason to believe that there are metal particles or foreign materials in the system, drain and flush the entire system and replace the filter cartridges. A complete change of oil must be made under these circumstances.

5. Whenever the hydraulic system is drained, check the magnets in the hydraulic reservoir for metal particles. If metal particles are present, flush the entire system and add a new change of oil. The presence of metal particles also may indicate the possibility of imminent component failure. A very small amount of fine particles is normal.

6. **DO NOT** use synthetic or fire resistant oils in this work platform. Use ATF Dexron III (ESSO) or equivalent hydraulic oil. For conditions causing oil temperatures below -31° F (-35°C) and above 122°F (50°C) consult Discount-equipment.

7. All containers and funnels used in handling hydraulic oil must be absolutely clean. Use a funnel when necessary for filling the hydraulic oil reservoir, and fill the reservoir only through the filler opening. The use of cloth to strain the oil should be avoided to prevent lint from getting into the system.

8. When removing any hydraulic component, be sure to cap and tag all hydraulic lines involved. Also, plug the ports of the removed components.

9. All hydraulic components must be disassembled in spotlessly clean surroundings. During disassembly, pay particular attention to the identification of parts to assure proper reassembly. Clean all metal parts in a clean mineral oil solvent. Be sure to thoroughly clean all internal passages. After the parts have been dried thoroughly, lay them on a clean, lint-free surface for inspection.

10. Replace all o-rings and seals when overhauling any component. Lubricate all parts with clean hydraulic oil before reassembly. Use small amounts of petroleum jelly to hold o-rings in place during assembly.

11. Be sure to replace any lost hydraulic oil when completing the installation of the repaired component, and bleed any air from the system when required.

12. All hydraulic connections must be kept tight. A loose connection in a pressure line will permit the oil to leak out or air to be drawn into the system. Air in the system can cause damage to the components and noisy or erratic system operation.

Maintenance: Three simple maintenance procedures have the greatest effect on hydraulic system performance, efficiency and life. Yet, the very simplicity of them may be reasons they are so often overlooked. What are they? Simply these:

1. Change filters regularly.

2. Maintain a sufficient quantity of clean hydraulic oil of the proper type and viscosity in the hydraulic reservoir.

3. Keep all connections tight.

Table 5.1 General Specifications

Model		Compact RT's					
		6826			6832		
		ANSI	CE	AS	ANSI	CE	AS
Weight*	No Outriggers	6400 lb.	2925 kg	2900 kg	7660 lb.	3500 kg	3475 kg
	With Outriggers	7500 lb.	3330 kg	3305 kg	8060 lb.	3680 kg	3655 kg
Width		68"	1.73 m	1.73 m	68"	1.73 m	1.73 m
Length	No Outriggers	106.6"	2.72 m	2.71 m	106.6"	2.72 m	2.71 m
	With Outriggers	131.4"	3.35 m	3.34 m	131.4"	3.35 m	3.34 m
Platform Size		56" x 99"	1.4 m x 2.4 m	1.4 m x 2.5 m	56" x 99"	1.4 m x 2.4 m	1.4 m x 2.5 m
Height	Working	32 ft.	9.8 m	9.8 m	38 ft.	11.7 m	11.6 m
	Platform Elevated	26 ft.	8.0 m	8.0 m	32 ft.	9.8 m	9.8 m
	Platform Lowered	7.8 ft.	2.37 m	2.37 m	8.25 ft.	2.51 m	2.51 m
	Drive	26 ft.	8.0 m	8.0 m	32 ft.	9.8 m	9.8 m
Speed	Normal Drive	4 mph	6.3 km/h	6.3 km/h	4 mph	6.3 km/h	6.3 km/h
	Elevated Drive	0.39 mph	0.63 km/h	0.63 km/h	0.39 mph	0.63 km/h	0.63 km/h
	Lift (Rated Load)	36 sec			39 sec		
	Lower (Rated Load)	36 sec			36 sec		
Engine (RPM)	Kubota Diesel	3500 (High Throttle) / 2050 (Low Throttle)					
	Kubota Dual Fuel	3500 (High Throttle) / 2050 (Low Throttle)					
Tires	Foam-filled	OTR Outrigger - 26 x 12					
	Air-filled	N/A					
Sound Pressure		96 dB(A)					
Gradeability (Torque Equivalent To)		50%			40%		

60440AG-P

* Weights are approximate; refer to serial nameplate for specific weight.

Table 5.2-1 Torque Specifications

Cartridge						
Torque	Size					
	8	38	58	10	12	16
Lbf.ft (max)	20			25	35	50
Lbf.in (max)	240			300	420	600
Nm (max)	27.12			33.9	47.46	67.8

Coils	
Torque	Size
	All coils
Lbf.ft (max)	4 to 5
Lbf.in (max)	48 to 60
Nm (max)	5.42 to 6.78

SAE Plugs								
Torque	Size							
	2	4	5	6	8	10	12	16
Lbf.ft (max)	3	10	15		25		30	35
Lbf.in (max)	36	120	180		300		360	420
Nm (max)	4.07	13.56	20.34		33.9		40.68	47.46

Type of Bolt	Torque (ft-lb)	Torque (Nm)
Directional valve mounting bolts	2.33 (28-32 in-lb)	3.16 - 3.61

Hydraulic drive motor castle nut	350 lbl/ft	
Directional valve mounting bolts	28-32 lbf.in	3.16 - 3.61 Nm
Wheel mounting bolts	135-145 lbf.ft	183 – 196 Nm
Center drive sprocket mounting bolts	110-115 lbf.ft (242 LOCTITE)	149 – 156 Nm
Hydraulic drive motor mounting bolts	120 lbf.ft (242 LOCTITE)	162 Nm
Positive battery post cable/fuse nut	90 lb-in	10.2 Nm

Cartridge

Torque	Size					
	08	38	58	10	12	16
Lbf.ft (max)	20			25	35	50
Lbf.in (max)	240			300	420	600
Nm (max)	27.12			33.90	47.46	67.80

Coils

Torque	Size
	All coils
Lbf.ft (max)	4 to 5
Lbf.in (max)	48 to 60
Nm (max)	5.42 to 6.78

SAE Plugs

Torque	Size							
	2	4	5	6	8	10	12	16
Lbf.ft (max)	3	10	15		25		30	35
Lbf.in (max)	36	120	180		300		360	420
Nm (max)	4.07	13.56	20.34		33.90		40.68	47.46

Newton-meter = Nm	**Pound-force foot = lbf.ft**	**Pound-force inch = lbf.in**

60022AD

AXLE OIL						
Axle Type		*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.	Recommended Equivalent Oil
Cushman	Front	2.4	0.634	Gear Oil, 80W-90 GL5	134612	-
Dana	Front / Rear					
Cushman	Rear	1	0.264	Gear Oil, ESI 80W-90	133461	Chevron Gear Lubricant Delo ESI 80W-90, Caltex Gear Lubricant ESI 80W-90, Caltex RPM Borate EP 80W-90, Texaco Star Gear Lubricant 80W-90

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

CENTER DRIVE OIL					
Center Drive Type	*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.	Recommended Equivalent Oil
Center Drive	1	0.26	Gear Oil, 80W-90 GL5	134612	-

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

HYDRAULIC OIL				
Model	*Qty. (Liters)	*Qty. (Gallons)	Oil Type	Skyjack Part No.
SJRT-68XX	86.88	22.95	ATF Dexron III	119309
SJRT-7127	80.48	21.26		
SJRT-7135				
SJRT-8243				
SJRT-8850				
SJRT-8831	75.71	20		
SJRT-8841				
SJRT-8831E				
SJRT-8841E				
SJRT-9250	67.38	17.8		

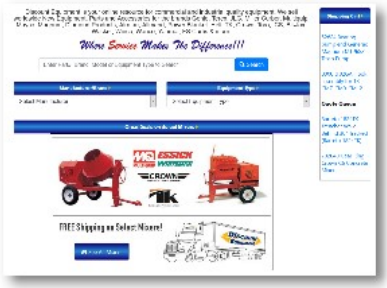
*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

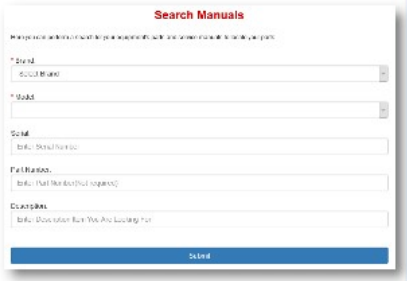
PARTS FINDER

Search Website by Part Number

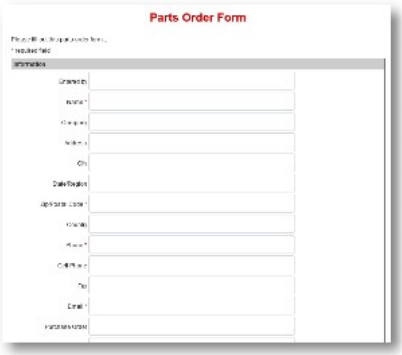
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

ENGINE OIL					
Engine Type	*Qty. (Liters)	*Qty. (Gallons)	Oil Type, Viscosity	Skyjack Part No.	Recommended Equivalent Oil (Viscosity - API Service Designation)
Kubota D902	3.9	1.03	Engine Oil, SAE 10W-30	105287	10W30 - API Service Designation CG-4, CF-4, CF, CD, SH.
Kubota D1105	5.1	1.35			
Kubota DF972	3.4	0.9			
Nissan A15	3.5	0.98			
GM 1.6				142454	10W30 - API Service Designation SF/CC.

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE COOLANT				
Component Type	*Qty. (Liters)	*Qty. (Gallons)	**Coolant Type	Skyjack Part No.
Kubota D902	3.1	0.82	Anti-freeze / Water	125985
Kubota D1105				
Kubota DF972				
Nissan A15	11.4	3.01		
GM 1.6			Extended life anti-freeze / Water	142208

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE FUEL							
Model	Tank		Diesel		Gasoline / Liquid Propane		
	*Qty. (Liters)	*Qty. (Gallons)	Kubota D902	Kubtoa D1105	Kubota DF972	GM 1.6	Nissan A15
SJRT-68xx	86.88	22.95	✓	N/A	✓	N/A	
SJRT-7127	80.48	21.26	N/A	✓			
SJRT-7135							
SJRT-8243					N/A	✓	
SJRT-8850							
SJRT-8831	49.21	13					
SJRT-8841							
SJRT-9250	64.35	17					

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

5.2 Winching and Towing Procedures and Parking Brake System

This section provides the operator with procedures about towing and winching and on how to manually release the parking brake.

WARNING

Ensure platform is fully lowered before winching or towing. Sudden motion could cause the aerial platform to become unstable. Death or serious injury could result.

WARNING

In emergency situations where machine functions are not available and lowering is impeded by an obstacle, the utmost care must be taken to move the machine far enough to clear the obstacle. In such cases operation must be extremely smooth with no sudden movements and must not exceed a speed of 2"/sec.When pushing, towing or winching, do not exceed 2 mph (3.2 km/h).
Do not push, tow or winch vehicle on to a slope, or brake the towing vehicle rapidly. Do not pull the aerial platform down an incline towards a winch.

To Release the Free-Wheeling Valve

1. Make sure that the aerial platform is on level ground. Chock or block the wheels to keep aerial platform from rolling.

Figure 5.1-1. Free-Wheeling Valve

2. **Free-Wheeling Valve** - Turning the valve knob counterclockwise (item 1) to a fully opened position allows fluid to flow through the wheel motors, thus providing "free-wheeling".

WARNING

The free-wheeling valve MUST be closed tightly (clockwise) for normal operation.

To Release the Parking Brakes Manually

WARNING

Do not manually disengage the parking brakes if the aerial platform is on a slope.

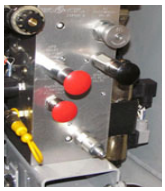


Figure 5.1-2. Disc Brakes System

Parking Brakes - The brakes MUST be manually disengaged for pushing, towing or winching.

1. Make sure that the aerial platform is on level ground. Chock or block the wheels to keep aerial platform from rolling.

2. Turn emergency main power disconnect switch to "OFF" position.

3. Locate the brake hand pump and the brake auto reset valve at the main manifold in the hydraulic/fuel cabinet.

4. Push in the brake auto reset valve (item 1).

5. Grasp the red hand pump (item 2) and rapidly depress until firm resistance is felt. The brakes are now released.

6. Remove the wheel chocks or blocks, then push, tow or winch the aerial platform to the desired location.

WARNING

The parking brake MUST be re-engaged immediately after reaching the desired location.

7. Position the machine on a firm and level surface.

8. Chock or block the wheels to prevent the aerial platform from rolling.

9. Re-engage the parking brakes by pulling out the black brake valve plunger.

5.3 System Lift and Pressure Adjustment

All adjustments must be made with a Calibrated Hydraulic Gauge. Refer to the Serial Number Nameplate located on the rear of the machine for System and Lift Pressure values.

System Relief Pressure Adjustment

1. Locate the Right Steer Hydraulic line at the Main Manifold. (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
2. Tee in a Calibrated 3000 PSI Gauge into the Right Steer line.
3. Remove the Operator's Control Box from the guardrail and disconnect it from the Scissors Control Cable.
4. Locate the Electrical Panel Cable Plug in the Hydraulic/Electric Cabinet.
5. Disconnect the Scissors Control Cable and connect the Operator's Control Box Cable.
6. At the Main Manifold, loosen the locknut on the System Relief Valve (R1). (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
7. Select "DRIVE" position with the Lift/Drive Select Switch on the Platform Control Box.
8. Engage Steer Right Switch on the top of the Controller Handle and hold.
9. Check the reading on Pressure Gauge. Adjust the System Relief Valve (R1) to the pressure listed on the Serial Number Nameplate.

NOTE

Turning the stem on the Relief Valve clockwise increases pressure. Turning the stem counter-clockwise decreases pressure.

10. Release the Steer Switch and retighten the locknut on the System Relief Valve (R1).
11. Remove the gauge from the Steer line.

Lift Pressure Adjustment

WARNING

Fully lower the platform.

1. Locate the Lift line coming out of the Main Manifold. (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
2. Open the Manual Lowering Valve with the platform fully lowered. Remove the Lift line from the Main Manifold.
3. Install a 3000 PSI Gauge into the Lift line port fitting on the Main Manifold. Plug the Lift line going to the Lift Cylinders.
4. Loosen the locknut on the Lift Relief Valve (R2). (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
5. Close the Manual Lowering Valve. Using the Base Controls in the Hydraulic/Electric Cabinet, depress and hold the Up Push-Button Switch.
6. Observe the reading on the gauge. Adjust the Lift Relief Valve (R2) to the pressure listed on the Serial Number Nameplate.

NOTE

Turning the stem on the Relief Valve clockwise increases pressure. Turning the stem counter-clockwise decreases pressure.

7. Release the Up Push-Button and retighten the locknut on the Lift Relief Valve (R2).
8. Remove the gauge from the Lift line port fitting and reinstall the Lift line.

WARNING

Ensure machine does not lift more than rated load.

5.4 Wheel Bolt/Nut Inspection and Torquing Procedure

It is necessary to check the torque on all wheel nuts and wheel bolts at pre-delivery, after 8 hours of operation and at weekly intervals using the following procedure:

1. Confirm that each wheel fastener is torqued to 80 ft. lbs. (± 5 ft. lbs.) using a suitable torque wrench of known accuracy. If any fastener falls outside of the specified tolerance, ALL fasteners MUST be torqued using the tightening sequence shown in Figure 5.1-3.

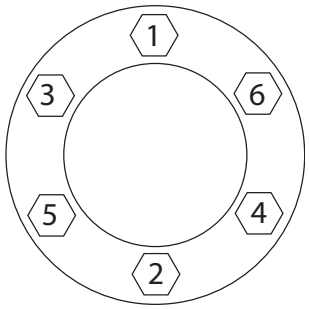


Figure 5.1-3. Bolt Torque Sequence

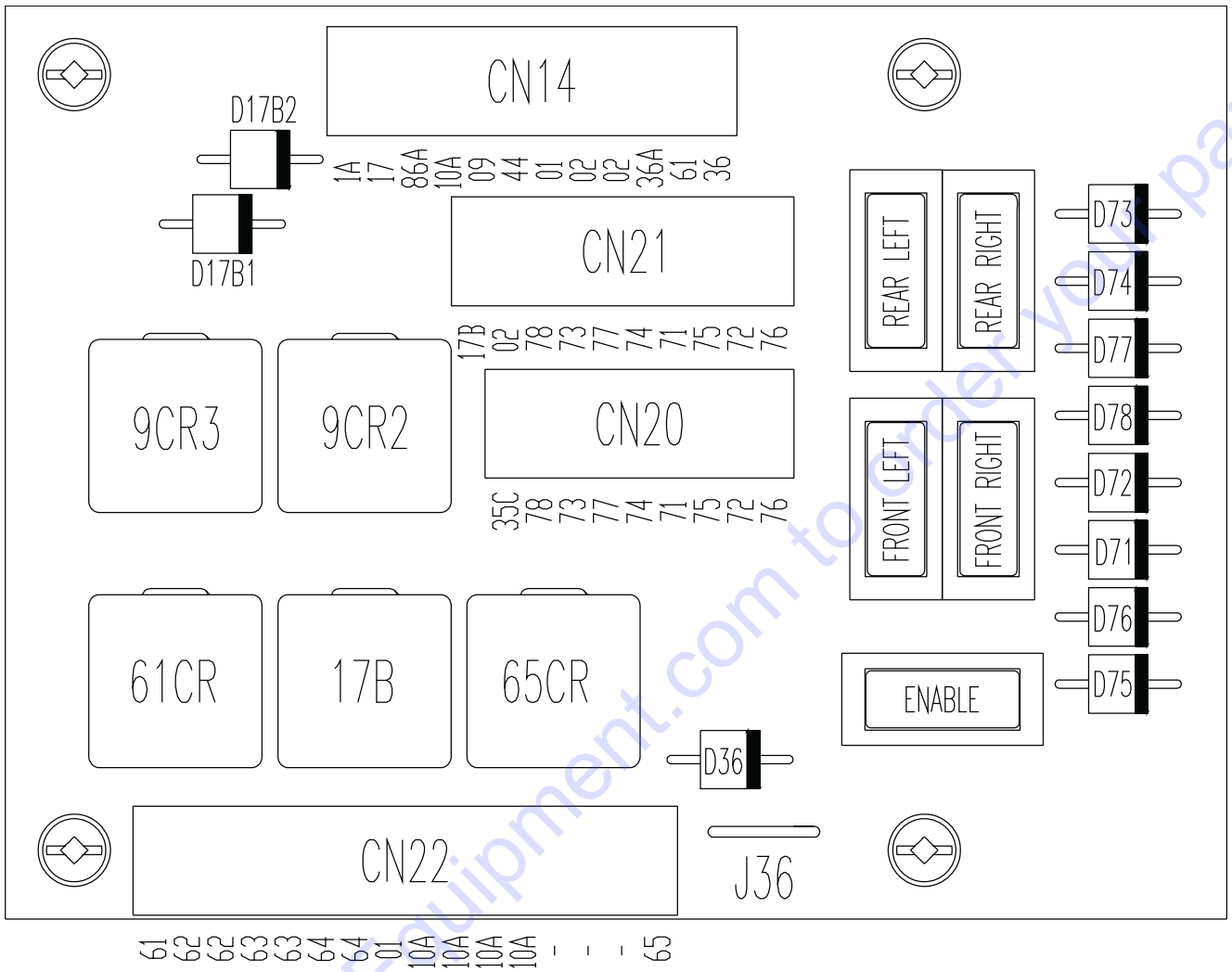
2. Again, confirm that each wheel fastener is torqued to the specified tolerance. Re-torque as necessary until ALL fasteners are properly torqued.

5.5 Wheel Reinstallation and Torquing Procedure

When a Wheel/Tire Assembly has been removed or replaced, it will be necessary to follow the procedure below to ensure proper installation:

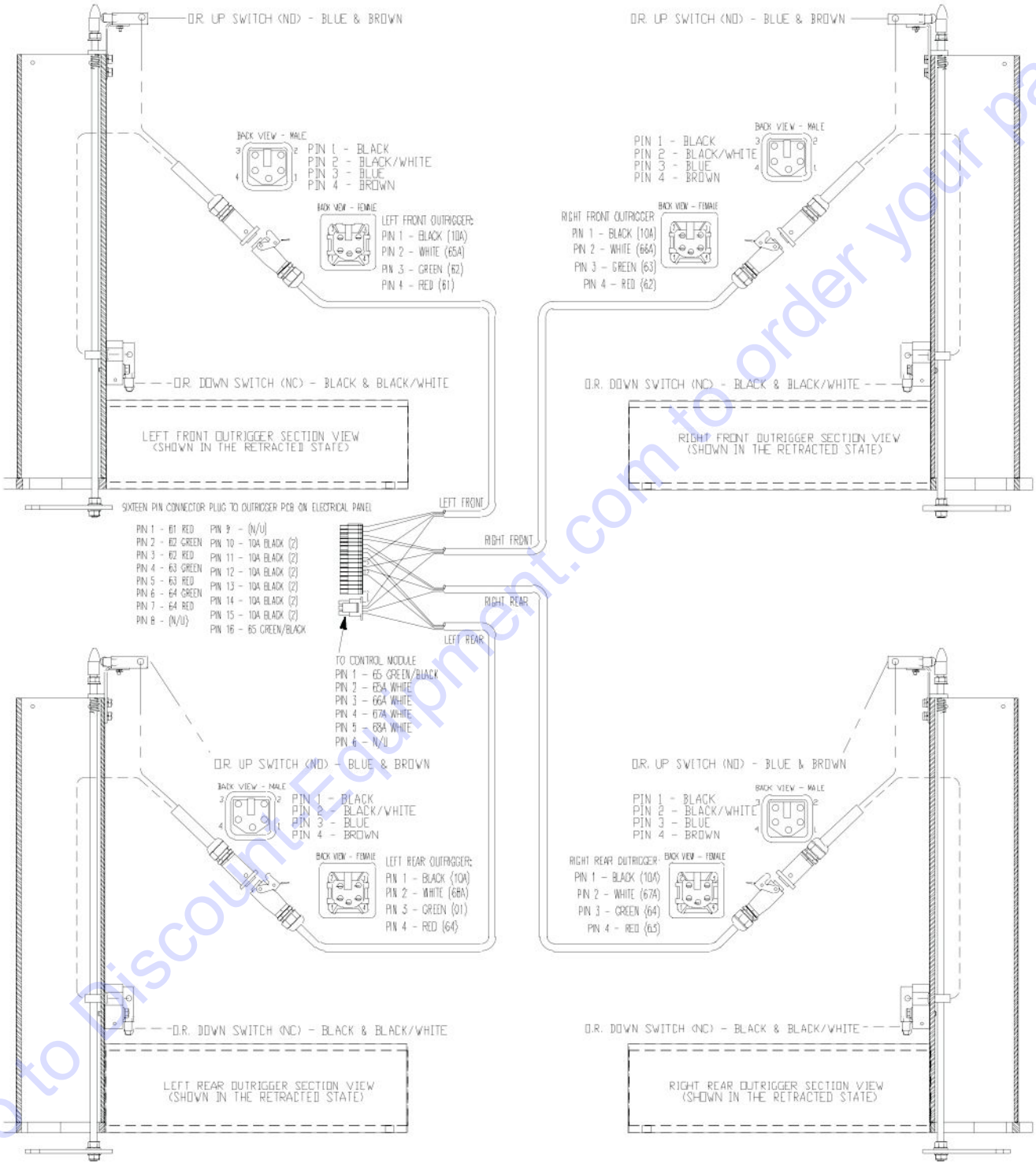
1. Inspect wheel fastener threads for damage of defects. Replace if defective.
2. Clean the mounting surfaces of the hub and wheel rim of debris, rust, excess paint, etc.
3. Mount wheel on the hub, centering mounting holes on the wheel studs or bolt holes. Use appropriate lifting device as required.
4. Install the wheel nuts or wheel bolts and hand tighten to center the rim.
5. Tighten the nuts or bolts to approximately 50 ft. lbs. torque using the tightening sequence in Figure 5.1-3. above.
6. Tighten to 80 ft. lbs. using the same sequence.
7. Repeat the tightening sequence to confirm that none have changed from 80 ft. lbs. If any are found below 80 ft. lbs., repeat complete sequence until there is no change in torque values. If possible, drive the machine prior to checking torques.
8. Check torque values after 8 hours of operation and then at weekly intervals.

5.6 Auto-Leveling Outrigger PC Board Layout



M50318AB

5.7 Outrigger Mechanical Limit Switch Wiring



11449AC

Table 5-4 Auto-Leveling Outrigger Settings and Error Codes

Reading the Codes:

In order to read the fault codes, a sequence of pauses and flashes can be seen on the LED mounted on the outrigger control module. The codes are continuously displayed by the LED until the fault is cleared, the outrigger control module is reset and no longer detects the fault, or idle timeout becomes active.
The sequence is as follows:

1. Half second flashes followed by half second pauses indicate the first digit.
2. A 2.5 second pause.
3. Half second flashes followed by half second pauses indicate the second digit
4. A 5 second pause.

Repeat steps 1-4

Since the outrigger control module only reports one error, only one code can be read from the LED per instance. If the error is cleared and another error is present, it will then be presented.

LED ERROR CODES

EVERYTHING OK	ON
VEHICLE TILTED	1/1
OUTRIGGERS CANNOT BE MOVED !	1/2
OUTRIGGERS NOT HOME	2/2
NOT FULLY LEVEL	2/1
RELEASE OUTRIGGER DEMAND !	5/5
CHECK OUTRIGGER SUPPLY (P4-9)	5/2
CANNOT LEVEL : BAD TILT SENSOR	7/1
OUTRIGGERS MANUALLY CONTROLLED !	6/6
TESTING HWFS	7/8
B+ SUPPLY TOO LOW	5/1
STARTUP !	7/7
FAULT : BAD SLAVE MICRO	7/5
FAULT : BAD TILT SENSOR	7/1
FAULT : BAD HWFS	7/2
FAULT : P2-5 FAULTY	8/1
FAULT : P2-6 FAULTY	8/2
FAULT : P2-8 STUCK ON	8/3
FAULT : P2-8 ALWAYS ON	8/4
FAULT : P2-8 ALWAYS OFF	8/5
FAULT : HWFS STALLED !	7/6

60402AA

Table 5-5 Auto-Leveling Outrigger Error Code Breakdown

RELEASE OUTRIGGER DEMAND!	5/5

Check inputs on P2 pins 5 & 6 - the “auto-level” or “auto-retract” input is active at power-on or when it is not allowed to carry out the function.

OUTRIGGERS CANNOT BE MOVED!	1/2

Check input on P2 pin 10 – “auto-level” or “auto-retract” has been requested but the platform is elevated.

NOT FULLY LEVEL	2/1

The outrigger legs are all down (touching the ground) but the platform is not fully level.

OUTRIGGERS NOT HOME	2/2

The outrigger legs are not all down (touching the ground) and also are not all home (fully retracted).

B+ SUPPLY TOO LOW	5/1
CHECK OUTRIGGER SUPPLY (P4-9)	5/2

Check that the battery voltage is not too low.

VEHICLE TILTED	1/1

These is not a true fault – move the vehicle to level ground!

TESTING HWFS	7/8
STARTUP!	7/7

These are not true faults unless they do not clear – the start-up tests should only occur for a short time.

OUTRIGGERS MANUALLY CONTROLLED!	6/6

This is not a true fault – the outriggers are being manually operated (one or more outrigger legs on P4 pins 1-8 is high, when the outrigger control module is not active.

CANNOT LEVEL (BAD TILT SENSOR)	7/1
FAULT: BAD TILT SENSOR	7/1
FAULT: BAD HWFS	7/2
FAULT: BAD SLAVE MICRO	7/5
FAULT: HWFS STALLED!	7/6
FAULT: P2-5 FAULTY	8/1
FAULT: P2-6 FAULTY	8/2
FAULT: P2-8 STUCK ON	8/3
FAULT: P2-8 ALWAYS ON	8/4
FAULT: P2-8 ALWAYS OFF	8/5

60412AB

These are internal faults. If the fault persists after the power has been reset, the outrigger control module may need to be replaced.

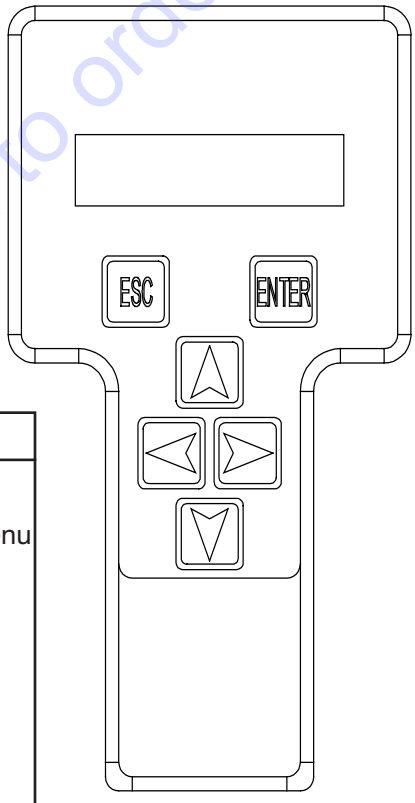
5.8 Hand Held Calibration/Diagnostic Tool Key Functions

WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

WARNING

Read all instructions closely before attempting each phase of this procedure.



SYMBOL	KEY FUNCTIONS
ESC ENTER	**ESC/ENTER BUTTONS** To move back and forth between menu and sub-menu
◄ ►	**LEFT/RIGHT BUTTONS** Select menus and setting to be adjusted
▲ ▼	**UP/DOWN BUTTONS** Adjust setting values

Rev. 1.0 Outrigger settings

Model	SJIIIB 6826E	SJIIIB 6832E	6826RT	6832RT	7027	7127	7135	8243	8831	8831E	8841	8841E	8850	9250
O.R. Settings	4	4	7	7	5	4	4	4	5	5	5	5	4	5

M60421AB

5.9 Outrigger Control Module Instructions

When **EZcal** hand-held device is connected to the OCM1 control module, a two line displays shows various menus and settings. At any time the top line of the display describes the currently selected menu and the bottom line shows the currently selected item in that menu.

Six buttons on **EZcal** allow easy navigation through the menus:

- ← and → change the selected item (the bottom line display)
- **ENTER** enters the selected new menu when available (top line display changes)
- ↑ **and** ↓ adjusts the selected item when available
- **ESC** exits the current menu back to the previous menu

TOP LEVEL MENU OPTIONS

HELP	Select this menu to see a description of current **OCM1** status
DIAGNOSTICS	Select this menu to see switch input status & logged data
ACCESS LEVEL	Select this menu & enter correct code to enable adjustments and calibrations
ADJUSTMENTS	Select this menu to see and adjust **OCM1** settings NOTE: this menu provides for adjustments which might be needed for different work activities
SETUPS	Select this menu to carry out initial set-up of the **OCM1** NOTE: this menu provides for set-ups which are needed to configure the **OCM1** for a particular vehicle

HELP MENU OPTIONS

(help message)	A message displays current **OCM1** status, indicating if everything is OK or if there is an error code (see LED Error Codes - Table 5.3)

DIAGNOSTIC MENU OPTIONS

SYSTEM	Select this menu to see general **OCM1** system information
SWITCHES	Select this menu to see switch input status
OUTPUTS	Select this menu to see **OCM1** output status
LOG	Select this menu to see logged information

DIAGNOSTIC / SYSTEM MENU OPTIONS

OUTRIGGERS	Displays various status during the auto-level function
TILT	Displays vehicle tilt in “X” and “Y” orientations measured by integral sensor
TILTED	Displays whether vehicle is tilted (YES or NO)
BATTERY	Displays battery supply voltage (on P2-12)

DIAGNOSTIC / SWITCHES MENU OPTIONS

LR/P2-1	High when the left rear outrigger is in contact with the ground
RR/P2-2	High when the right rear outrigger is in contact with the ground
RF/P2-3	High when the right front outrigger is in contact with the ground
LF/P2-4	High when the left front outrigger is in contact with the ground
EXTEND/P2-5	High to activate the auto-level function
RETRACT/P2-6	High to activate the auto-retract function
ELEV/P2-10	High when the scissor stack is stowed (“elevated” input indicates that the vehicle is stowed).

DIAGNOSTIC / OUTPUTS MENU OPTIONS

LAMP/P2-7	Displays state of outrigger control box light
STABLE/P2-8	Displays state of stable (all legs touching the ground) output
TILT/P2-9	Displays state of tilt
LRe/P4-1	Displays state of left rear outrigger extend valve
RRe/P4-2	Displays state of right rear outrigger extend valve
RFe/P4-3	Displays state of right front outrigger extend valve
LFe/P4-4	Displays state of left front outrigger extend valve
LRr/P4-5	Displays state of left rear outrigger retract valve
RRr/P4-6	Displays state of right rear outrigger retract valve
RFr/P4-7	Displays state of right front outrigger retract valve
LFr/P4-8	Displays state of left front outrigger retract valve
P4-9 MON	Displays the voltage to the outrigger valve (can only be seen when operating in auto-level or retract)

DIAGNOSTIC / LOG MENU OPTIONS

MAX.BATTERY	Displays maximum recorded battery supply voltage
OCM1 version	Displays part number and software version of **GP106**
EZcal version	Displays software version of **EZcal**

ACCESS LEVEL MENU OPTIONS

CODE xxxx	"ACCESS LEVEL" 3 (allows viewing only) "ACCESS LEVEL" 2 (allows setup on OCM1)

ADJUSTMENTS MENU OPTIONS (factory set - not adjustable)

Xtilt TRIP	Displays the tilt trip point in the "X" orientation
Ytilt TRIP	Displays the tilt trip point in the "Y" orientation
TILT ENTRY	Displays the tilt delay time
TILT EXIT	Displays the tilt delay time
Xlevel TRIP	Displays the tilt trip point in the "X" orientation during the auto-level function
Ylevel TRIP	Displays the tilt trip point in the "Y" orientation which applies during the auto-level function

MACHINE SETUP MENU OPTIONS (factory set - not adjustable)

DEFAULTS	Allows all adjustments & machine settings to be set to defaults WARNING: all **GP106** settings will be changed; use with caution!
CALIBRATE LEVEL	Allows levelling of the integral tilt sensor of the **GP106**, when the vehicle is positioned on level ground (see Appendix Four)
TILT MODE	Allows configuration of the **GP106** tilt output (P2-9): 1 – output turns on to light lamp when tilted 2 – output turns off to cutout functions when tilted 3 – output turns off to cutout functions when tilted AND elevated
TILT FILTER	Displays the filter applied to the tilt measurements during the auto-level function (used to minimize the effect of vehicle vibrations on the tilt measurement)
Xlevel TARGET	Displays the tilt in the "X" orientation at which the auto-level function will complete.
Ylevel TARGET	Displays the tilt in the "Y" orientation at which the auto-level function will complete.
tilt SLACK	Displays the amount of vehicle tilt exceeding the Xtilt TARGET and/or Ytilt TARGET in which the auto-level function will not attempt to level **EXAMPLE**: Xtilt TARGET=0.3°, Ytilt TARGET=0.7°, tilt SLACK=0.5° If machine is tilted to 1.0° in the X and Y orientations, the auto-level function will attempt to level the X orientation (0.3+0.5<1.0) but will not attempt to level the Y orientation (0.7+0.5>1.0), RANGE: 0.0° to 1.0°, default 0.3°

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.
Always follow the instructions of the Calibration instrument.

1. Ensure the aerial platform is parked on a firm, level surface.

2. Elevate the scissors high enough to lay a level across the base tubes. Ensure there is no debris on the base and the level sits flat. Do not elevate the machine higher than the high speed/tilt override limit switch.

3. Manually operate the outriggers and level the machine in 4 places: left side, right side, front and rear. All 4 outriggers must be firmly placed and all 4 tires are off the ground.

4. Double check that the machine is level at all 4 points.

5. Connect the **EZcal** tool to the P1 connector on the CONTROL MODULE.

6. The display will show **"Help: Press Enter".**
   By using Left/Right buttons, select the "Access Level (3)" from the menu and press the **ENTER** button.

7. The display will show **"Access Level: Code (0000)".**
   By using the Up/Down buttons, enter the Access Level Code (1 □1 □ 2 □ 2) followed by pressing the ENTER button.

8. The display will show **"Access Level 2".**
   By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.

9. The display will show **"Setups: Change Defaults".**
   Select the **"Change Defaults"** from the menu and press the **ENTER** button.

10. The display will show **"Defaults, 0 = Custom".**
    By using Up/Down buttons, select the **"Defaults: *Code* Setting for your Model *(For* Default *Code Refer to Table 5-3)*"** from the menu and press the **ENTER** button and followed by **ESCAPE** button.

11. The display will show **"Setups Change Defaults".**
    By using Left/Right buttons, select the "**Calibrate Level**" from the menu and press the **ENTER**.

12. The display will show **"Calibrate Level: Yes: Enter, No: ESC".**
    Select the **"Yes"** from the menu by press the **ENTER** button.

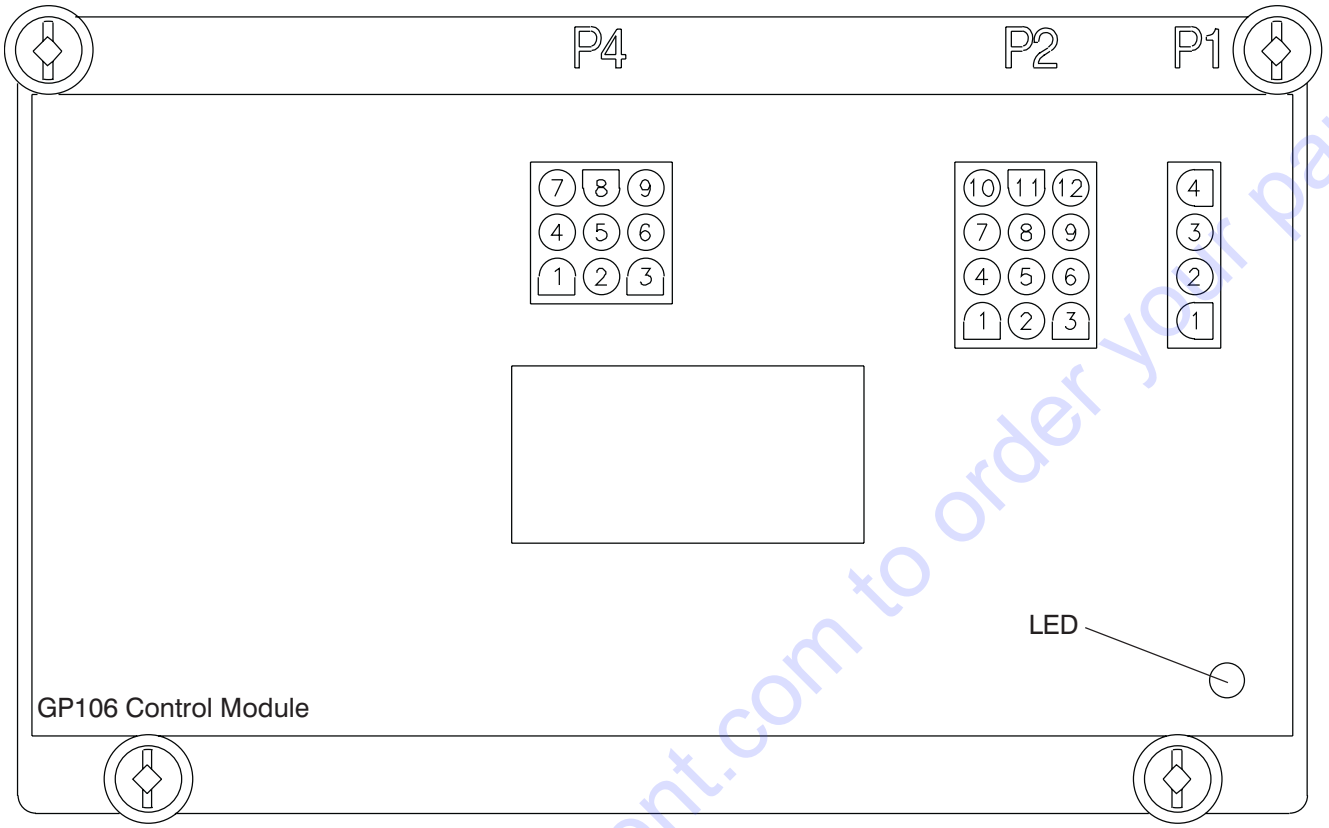
13. The display will show **"Calibrate Level: Tilt 0.0' , 0.0'".**
    Select the **"ESCAPE"** from the menu once.

14. The display will show **"Setups Calibrate Level".**
    Select the **"ESCAPE"** from the menu once again.

15. The Calibration procedure is complete, unplug and remove the EZ-Cal.

16. Close the hydraulic/electric cabinet.

5.10 Auto-Leveling Outrigger Control Module Pin Reference Chart

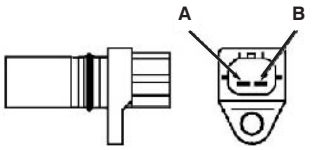


PLUG	PIN #	WIRE # AND COLOUR	WIRE FUNCTION
P1	The Calibration Connection		
P2	1	68A White	Input indicating that the LEFT REAR outrigger is in contact with the ground
P2	2	67A Red/White	Input indicating that the RIGHT REAR outrigger is in contact with the ground
P2	3	66A Blue/White	Input indicating that the RIGHT FRONT outrigger is in contact with the ground
P2	4	65A Green/White	Input indicating that the LEFT FRONT outrigger is in contact with the ground
P2	5	70 Green/Black	Input for AUTO-LEVEL function to extend the outriggers to level the machine
P2	6	79 Green	Input for AUTO-RETRACT function to retract the outriggers until the switch is released
P2	7	70A Red/White	Outrigger Light on Outrigger Control Box
P2	8	65 Green/Black	STABLE output to indicate that all outriggers are in contact with the ground
P2	9	28 Green	TILT output to indicate that the machine is level (ANSI/CSA only)
P2	10	44 Green	Tilt override / High Drive Cutout
P2	11	02 White	Negative Input
P2	12	10A Black	Main Power Input
P4	1	78 Black/White	Output used to extend the LEFT REAR outrigger
P4	2	77 Blue/Black	Output used to extend the RIGHT REAR outrigger
P4	3	76 Red/Black	Output used to extend the RIGHT FRONT outrigger
P4	4	75 Orange/Black	Output used to extend the LEFT FRONT outrigger
P4	5	74 Black	Output used to retract the LEFT REAR outrigger
P4	6	73 Blue	Output used to retract the RIGHT REAR outrigger
P4	7	72 Red	Output used to retract the RIGHT FRONT outrigger
P4	8	71 Orange	Output used to retract the LEFT FRONT outrigger
P4	9	35C White/Black	Power input for outriggers

60401AC

5.11 Kubota Dual Fuel (DF972) Resistance Checks

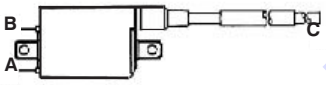
Resistance of Pick-Up Sensor



1. Disconnect the connector.
2. Measure the resistance with the ohmmeter.
3. If the resistance is not within the factory specifications, replace it.

Resistance	Factory Spec.	**A - B**	1.85 to 2.45kΩ at 20°C

Resistance of Ignition Coil

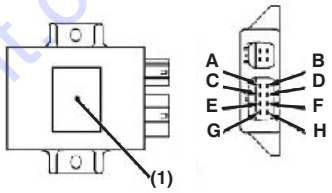


1. Disconnect the connector.
2. Measure the resistance with an ohmmeter.
3. If the resistance is not within the factory specifications, replace it.

Resistance	Factory Spec.	**A - B**	1.87 to 2.53Ω at 20°C
		A - C	10.4 to 15.6Ω at 20°C

A: Terminal (+) C: High Tension Cord
B: Terminal (-)

Resistance of Ignitor



1. Disconnect the connector.
2. Measure the resistance with an ohmmeter.
3. If the resistance is not within the factory specifications, replace it.

Important:
To replace the ignitor with a service part, make sure the ignitor has the same part cord No /ID mark as the old one. (See the information label (1).)

Ignitor Check Chart

Negative Positive	A	B	C	D	E	F	G	H
A		10 to 40 kΩ	10 to 40 kΩ	11 to 47 kΩ	infinity	infinity	infinity	infinity
B	10 to 40 kΩ		0.33 to 1.3 kΩ	1.8 to 7.3 kΩ	infinity	infinity	infinity	infinity
C	10 to 40 kΩ	0.33 to 1.3 kΩ		1.5 to 6.0 kΩ	infinity	infinity	infinity	infinity
D	11 to 47 kΩ	1.8 to 7.3 kΩ	1.5 to 6.0 kΩ		infinity	infinity	infinity	infinity
E	infinity	infinity	infinity	infinity		infinity	infinity	infinity
F	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	infinity		infinity	infinity
G	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	infinity	infinity		infinity
H	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	2 megohm (minimum)	infinity	infinity	infinity	

60434AA

5.12 Electronic Tilt Switch Setup Procedure

Machines that are not equipped with outriggers have an electronic tilt switch located inside the engine compartment. During operation, the switch monitors machine tilt front to back, and side to side. Aerial platform tilt is measured relative to a learned *zero* position.

The zero position is calibrated using the following set-up procedure, based on the position of the machine with the platform leveled and fully lowered.

Two LED indicator lights on the top of the switch show operating conditions.

Tilt Switch Replacement

Follow this procedure to install and program a new zero position in a replacement tilt switch.

NOTE

Make sure part number of old and new tilt switch are the same.

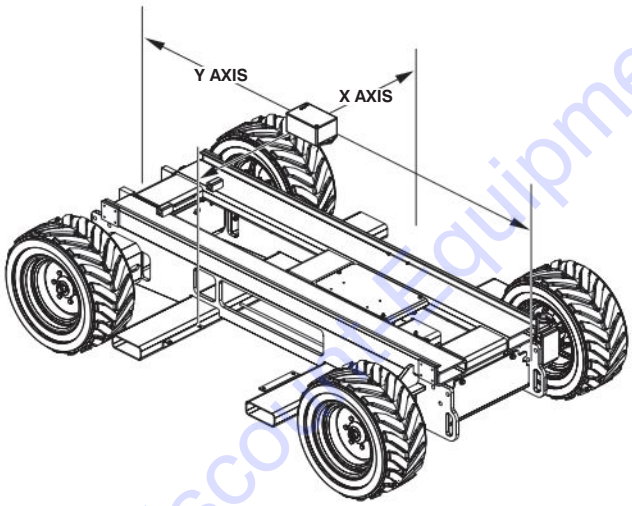


Figure 01

1. Park aerial platform on a firm level surface.
2. Fully lower the platform.
3. Chock or block wheels to keep the aerial platform from rolling forward or backward.
4. Push in emergency stop buttons and turn main power disconnect switch off.
5. Disconnect tilt switch from 4 pin connector.
6. Remove old tilt switch from mount.
7. Install the new switch in the same orientation as the old switch. Connect switch plug to 4 pin connector.

NOTE

The tilt switch circuit is only powered when controls are powered up.

8. Turn main power disconnect switch on.
9. Select Off–Lift–Drive key switch to *Lift* position or *Drive* position.
10. Pull out all emergency stop buttons.
11. Verify switch is powered. The red and green LED indicator lights should be flashing.
12. On the back side of the switch, press and release the Set-up button 3 times.

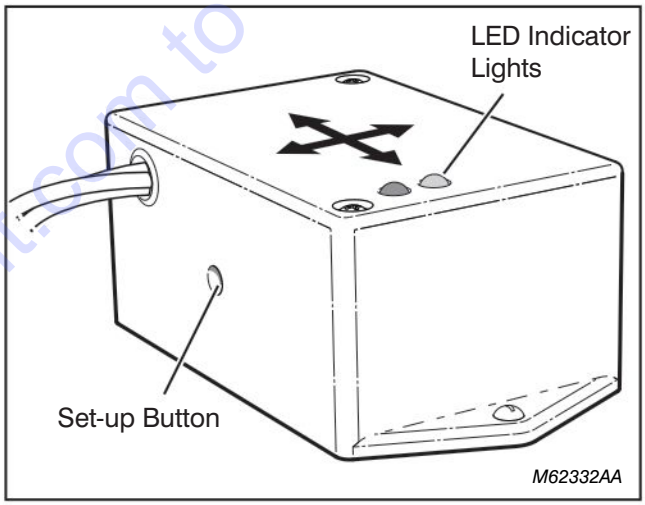
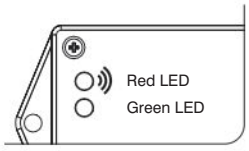
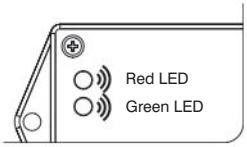
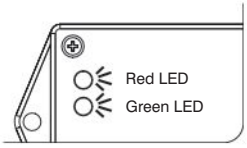


Figure 02

13. The red LED then flashes for 4 seconds during a *stabilization* period.
14. Both LEDs then flash for 1 second, indicating the switch is learning the new *zero* position.
15. When both LEDs are on continuously, it indicates the switch has learned the new zero position.







16. The green LED then flashes and the red LED stays on for 2 seconds indicating the switch is verifying the new zero position.
17. The green LED stays on continuously indicating the switch is ready for normal operation.
18. Turn main power disconnect switch off.
19. Push in all emergency stop buttons.
20. Remove wheel chocks.

Reprogramming Existing Tilt Switch

Follow this procedure to reprogram an existing tilt switch. Reprogramming the switch records a new *zero* position.

1. Park aerial platform on a firm level surface.
2. Fully lower the platform. Reprogramming the switch learns
3. Chock or block wheels to keep the aerial platform from rolling forward or backward.

NOTE
The tilt switch circuit is only powered when controls are powered up.

4. Turn main power disconnect switch on.
5. Select Off–Lift–Drive key switch to *Lift* position or *Drive* position.
6. Pull out all emergency stop buttons.
7. Verify switch is powered. The red and green LED indicator lights should be flashing.
8. On the back side of the switch, press and hold the Set-up button for 3 seconds.

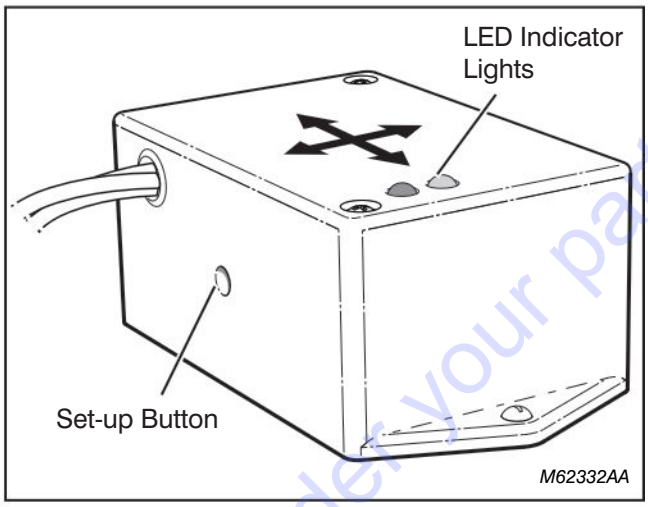


Figure 03

9. Both LEDs turn off, then begin flashing for a 5 second period.
10. During this 5 second period, press and release the Set-up button 3 times.
11. The red LED then flashes for 4 seconds during a *stabilization* period.
12. Both LEDs then flash for 1 second indicating the switch is learning the new *zero* position. When both LEDs are on continuously, it indicates the switch learned the new zero position.
13. The green LED then flashes and the red LED stays on for 2 seconds indicating the switch is verifying the new zero position.
14. The green LED stays on continuously indicating the switch is ready for normal operation.

NOTE
If the Set-up button is not pressed 3 times during Step 10, the switch exits the program mode and returns to normal operation using the previous zero point.

15. Turn main power disconnect switch off.
16. Push in all emergency stop buttons.
17. Remove wheel chocks.

Tilt Switch LED Operation

The following describes LED operation with the system powered.

Green LED on	The green LED on continuously indicates normal operation. Both tilt axes are within the specified degrees of the learned zero position. The green LED flashing indicates the aerial platform is moving in or out of tilt angle limits. The time delay has not occurred yet.
Red LED on	The red LED is on continuously when the tilt angle on one or more axes is off more than the allowable degrees from the zero position.
Green and Red LEDs on	Both LEDs on continuously indicates a fault in the system is detected. The switch does not function. After a period of 5 seconds or on power up, the switch attempts to return to normal operation. If the fault is still detected, both LEDs remain on.

Section 6
Parts Lists

General
The information contained in this section is designed to aid the user in locating and identifying replacement parts. Component parts of various assemblies and sub-assemblies comprising the work platform are illustrated and accompanied by a descriptive parts list. Exploded drawings are used to show relative location of component parts in disassembly order. If a part cannot be found in this section, order by work platform model number and serial number, giving a complete description of the part.

Parts Ordering Information
When ordering replacement parts, the complete part number and description should be used to ensure proper identification and delivery of the desired item. This complete identification should also be used when requesting equipment information.

Method Of Listing
Parts are listed in order according to the reference number shown in the illustration, followed by a full description based upon the “NOUN FIRST” method. That is, the noun name of the part is listed first, then the modifying description information which serves to specifically identify the item. For example: PIN, Clevis. Assemblies or groups are shown at the beginning of a parts list and are identified with the letter references A, B, C, etc. Individual parts in these lists have corresponding letters after their description to identify which assembly or group it is used in. Individual parts without identifying letters are used in all the assemblies or group shown at the beginning of the parts list. Descriptions preceded with an (•) indicates a serviceable component or attaching hardware for the higher level assembly.

Quantities (Units Per Assy.)
The quantities of each part that are required to complete the assembly. If quantity is (AR), it is understood that the quantity may vary when machine is equipped with certain options. Order quantity as needed.

Hardware
Standard screws, washers, nuts, etc., are not identified by a reference number. These parts are known as COMMON HARDWARE items and appear indented under the major items with which they are used. They should be ordered separately as listed, since they are not component parts of the pieces they attach to.

How To Order Repair Parts
1. Address all orders to Discount-equipment.
2. Specify model and serial number of the work platform (found on the serial number plate).
3. List the quantity needed.
4. List the length needed (if bulk item).
5. List the part number and description as shown in this manual for each item.
6. Show billing and shipping address and name of individual if possible.
7. Suggest best routing.

CUSTOMER_____

DEALER_____

MODEL NUMBER _____

SERIAL NUMBER _____

DATE PURCHASED _____

Table Of Contents

Table Of Contents

Engines And Related Parts

Optional Equipment

Labels and Nameplate

Tables

Figure 6.1-1. Gate Assembly

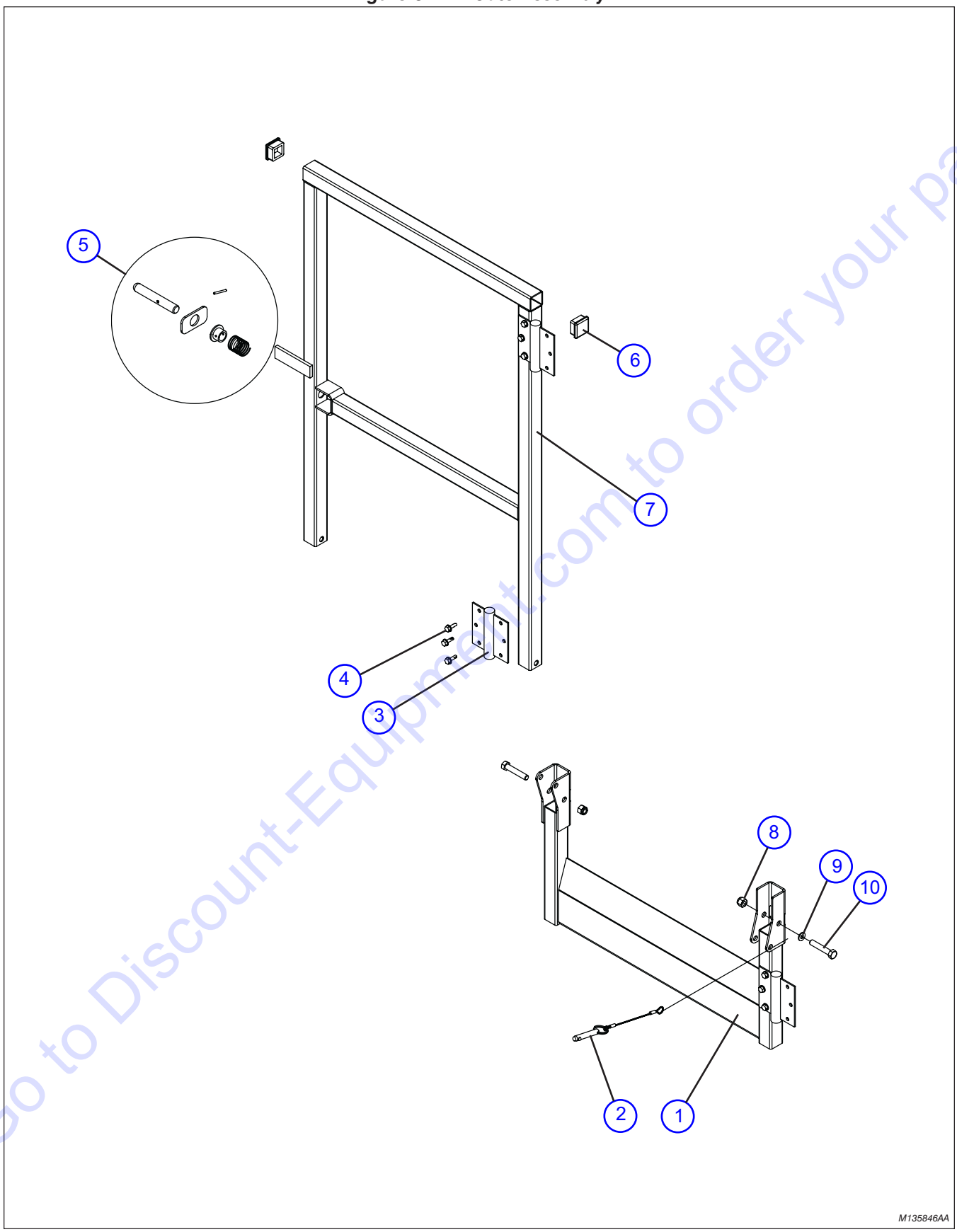


Figure 6.1-1. Gate Assembly

Index No.	Skyjack Part No.	Qty.	Description
-	135846	-	GATE ASSEMBLY
1	135878	1	• WELDMENT, Lower Gate
2	(Ref.)	-	• PIN ASSEMBLY, Quick release large loop (For components, refer to Figure 6.1-6)
3	117277	3	• HINGE, Spring
4	103632	AR	• SCREW, Hex head self tapping (1/4”-14 x 3/4”)
5	(Ref.)	-	• LATCH ASSEMBLY (For components, refer to Figure 6.1-5)
6	100702	AR	• END CAP, Plastic
7	135877	1	• WELDMENT, Upper Gate
8	104606	AR	• NUT, Hex nylon lock (3/8”-16 Grade 5)
9	103995	AR	• WASHER, Flat 1/4”
10	103872	AR	• BOLT, Hex head (3/8”-16 x 2.25” Grade 5)

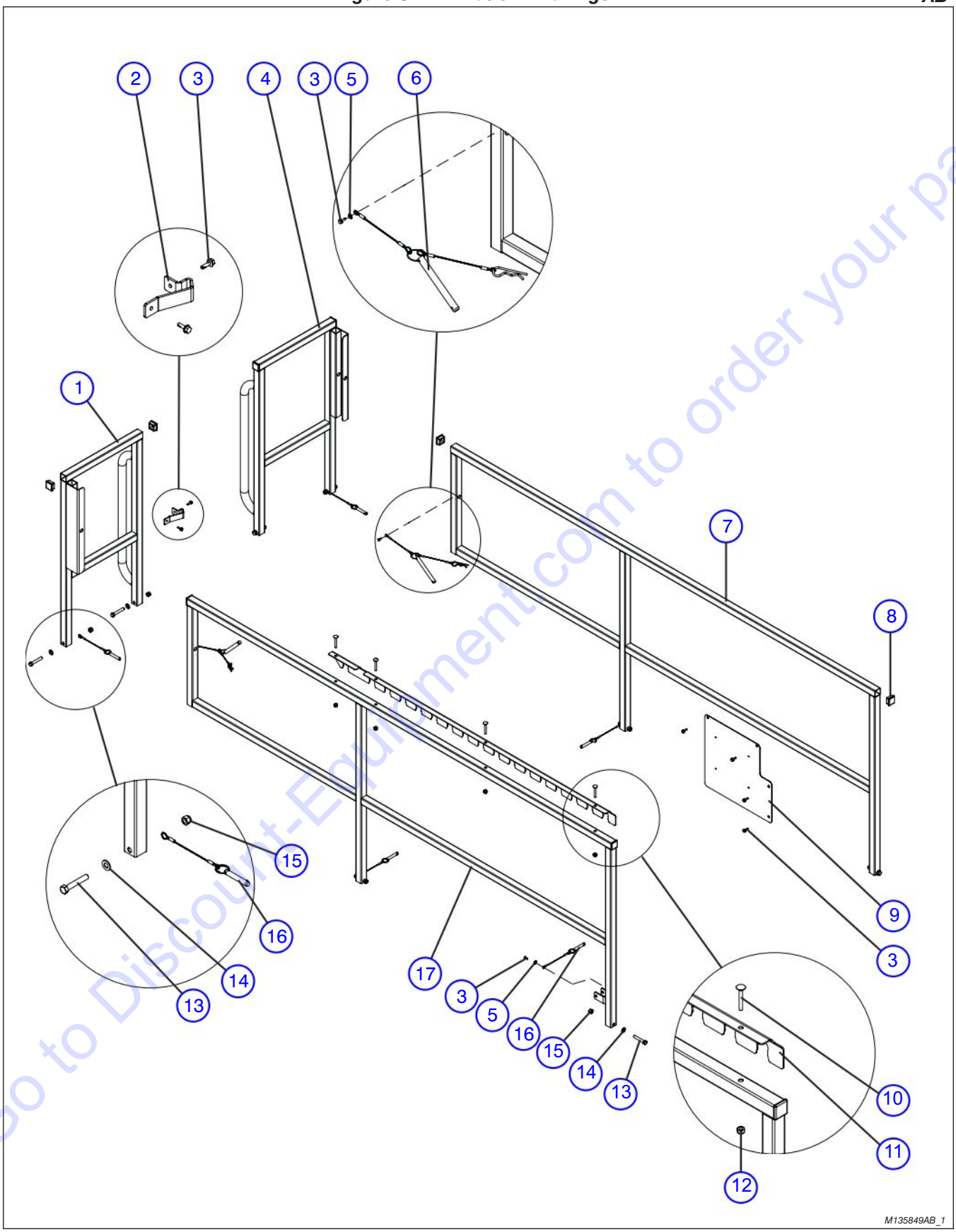
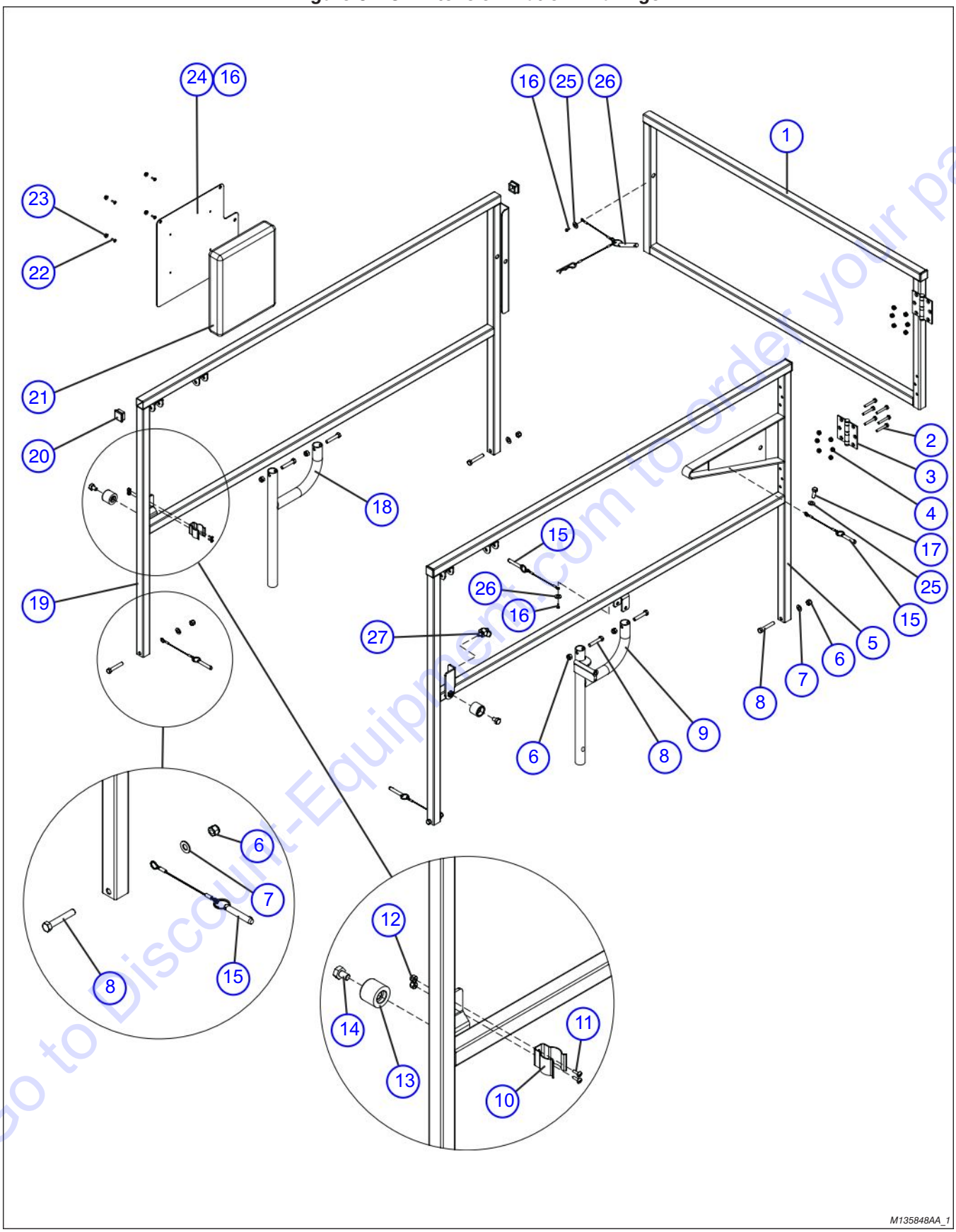


Figure 6.1-2. Platform Railings **AB**

Index No.	Skyjack Part No.	Qty.	Description
-	135849	-	RAILING ASSEMBLY
1	135875	1	• RAILING, Rear RH
2	136302	1	• PLATE, Stop gate latch
3	103632	AR	• SCREW, Hex head self tapping (1/4”-14 x 3/4”)
4	135876	1	• RAILING, Rear LH
5	103995	AR	• WASHER, Flat 1/4”
6	(Ref.)	-	• PIN ASSEMBLY, Long (For components, refer to Figure 6.1-6)
7	135874	1	• RAILING, Weldment LH
8	100702	AR	• END CAP, Plastic
9	130229	1	• PLATE, Warning label
10	127437	AR	• BOLT, Carriage (5/16”-18 x 2” Grade 5)
11	136303	1	• PLATE, Extension interval
12	103984	AR	• NUT, Hex nylon lock (5/16”-18 Grade 5)
13	103872	AR	• BOLT, Hex head (3/8”-16 x 2.25” Grade 5)
14	103472	AR	• WASHER, Flat (3/8”)
15	104606	AR	• NUT, Hex nylon lock (3/8”-16 Grade 5)
16	(Ref.)	-	• PIN ASSEMBLY, Quick release large loop (For components, refer to Figure 6.1-6)
17	137452	1	• RAILING, Weldment RH

Figure 6.1-3. Extension Platform Railings **AB**



Index No.	Skyjack Part No.	Qty.	Description
-	135848	-	RAILING ASSEMBLY, Extension platform
1	135881	1	• RAILING, Extension platform front
2	103860	AR	• BOLT, Hex head (1/4”-20 x 1.75” Grade 5)
3	136176	2	• HINGE, Steel
4	115649	AR	• NUT, Hex nylon lock (1/4”-20 Grade 5)
5	135879	1	• RAILING, Extension platform RH
6	104606	AR	• NUT, Hex nylon lock (3/8”-16 Grade 5)
7	103472	AR	• WASHER, Flat (3/8”)
8	103872	AR	• BOLT, Hex head (3/8”-16 x 2.25” Grade 5)
9	135889	1	• WELDMENT, Push bar with lock
10	137235	1	• CLIP, Gripper (1.5” - 2.5” DIA)
11	103960	AR	• SCREW, Round head machine (#10-24 x 1/2”)
12	126642	AR	• NUT, Hex nylon lock (#10-24 Grade 5)
13	130840	2	• BUMPER
14	123713	AR	• BOLT, Hex head (M12-1.25 x 16mm Grade 9.8)
15	(Ref.)	-	• PIN ASSEMBLY, Quick release large loop (For components, refer to Figure 6.1-6)
16	103632	AR	• SCREW, Hex head self tapping (1/4”-14 x 3/4”)
17	103855	1	• BOLT, Hex head (1/4”-20 x 1/2”, Grade 5)
18	135873	1	• WELDMENT, Push bar
19	135880	1	• RAILING, Extension platform LH
20	100702	AR	• END CAP, Plastic
21	117293	1	• BOX, Manual
22	103962	AR	• SCREW, Round head machine (#10-32 x 1/2”)
23	125968	AR	• NUT, Hex flange lock (#10-32)
24	130229	1	• PLATE, Warning label
25	103995	AR	• WASHER, Flat (1/4”)
26	(Ref.)	-	• PIN ASSEMBLY, Short (For components, refer to Figure 6.1-6)
27	112467	1	• PIN PLUNGER, Pull-ring

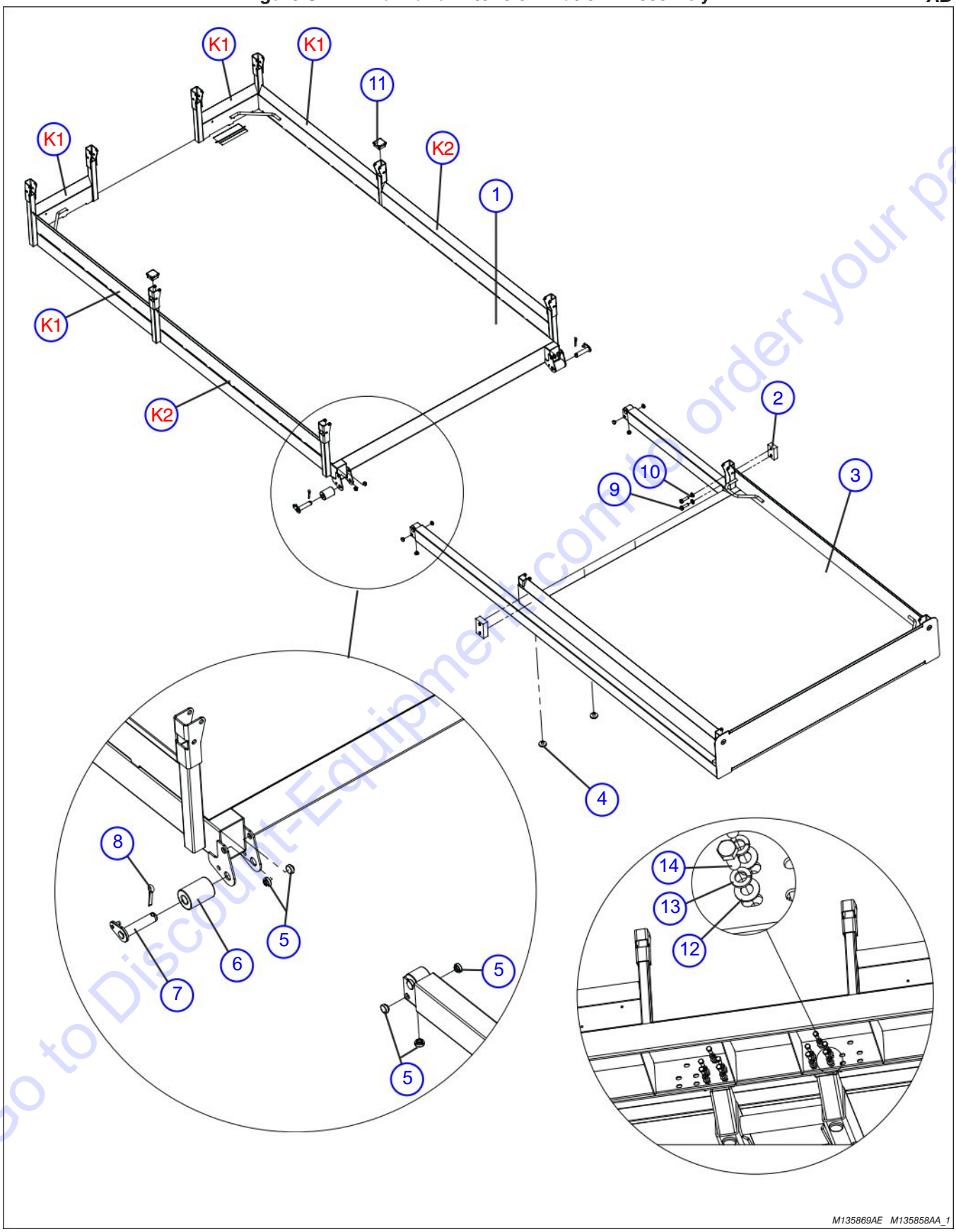
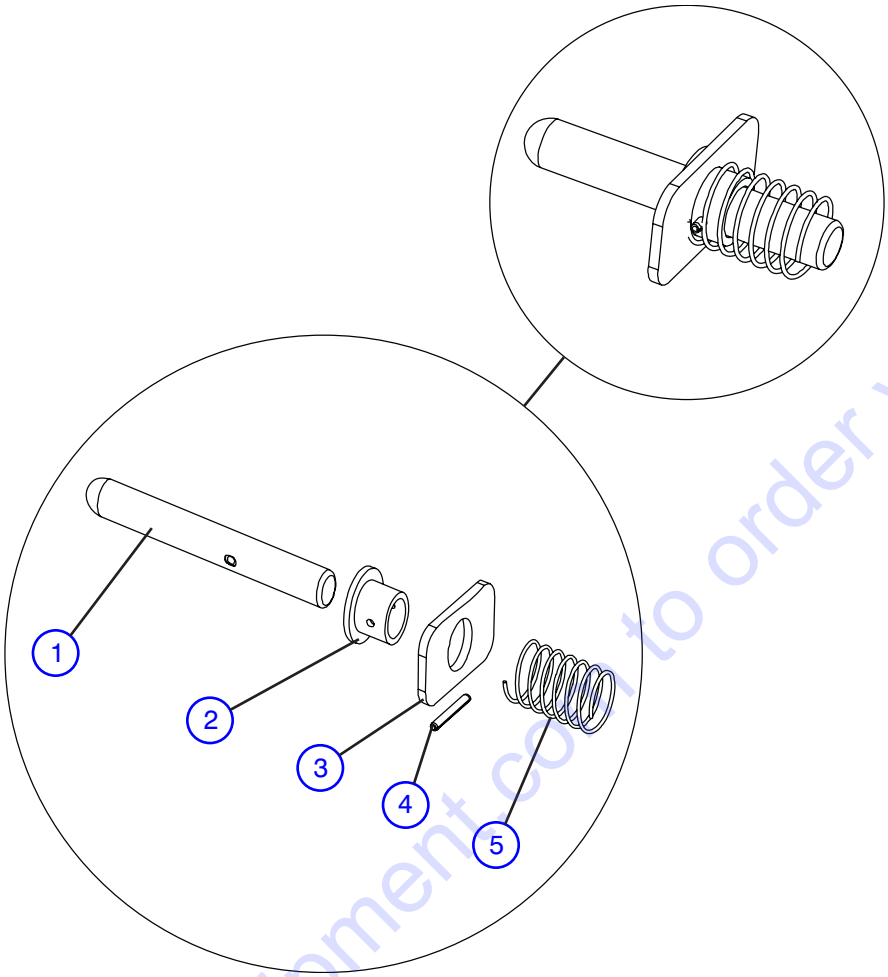


Figure 6.1-4. Main and Extension Platform Assembly

Index No.	Skyjack Part No.	Qty.	Description
-	135869	-	PLATFORM ASSEMBLY, Main and Extension
1	135870	1	• WELDMENT, Main
2	140915	2	• BAR, Platform extension stop
3	135871	1	• WELDMENT, Extension platform
4	101954	5	• PAD, Bottom slide
5	125433	AR	• BUSHING, Slider
6	125455	2	• ROLLER, Wide
7	125422	2	• PIN, Rollout roller
8	121874	2	• PIN, Cotter (1/4” DIA x 1.5”)
9	117430	AR	• BOLT, Hex head (3/8”-16 x 1.25”, Grade 8)
10	103999	AR	• WASHER, Lock (3/8”)
11	100702	2	• END CAP, Plastic
12	103472	AR	WASHER, Flat (3/8”)
13	103999	AR	WASHER, Lock (3/8”)
14	103473	AR	BOLT, Hex head (3/8”-16 x 1”, Grade 5)
K1	133579	AR	KIT, Short and rear side kickplates replacement
K2	133580	AR	KIT, Long side kickplate replacement

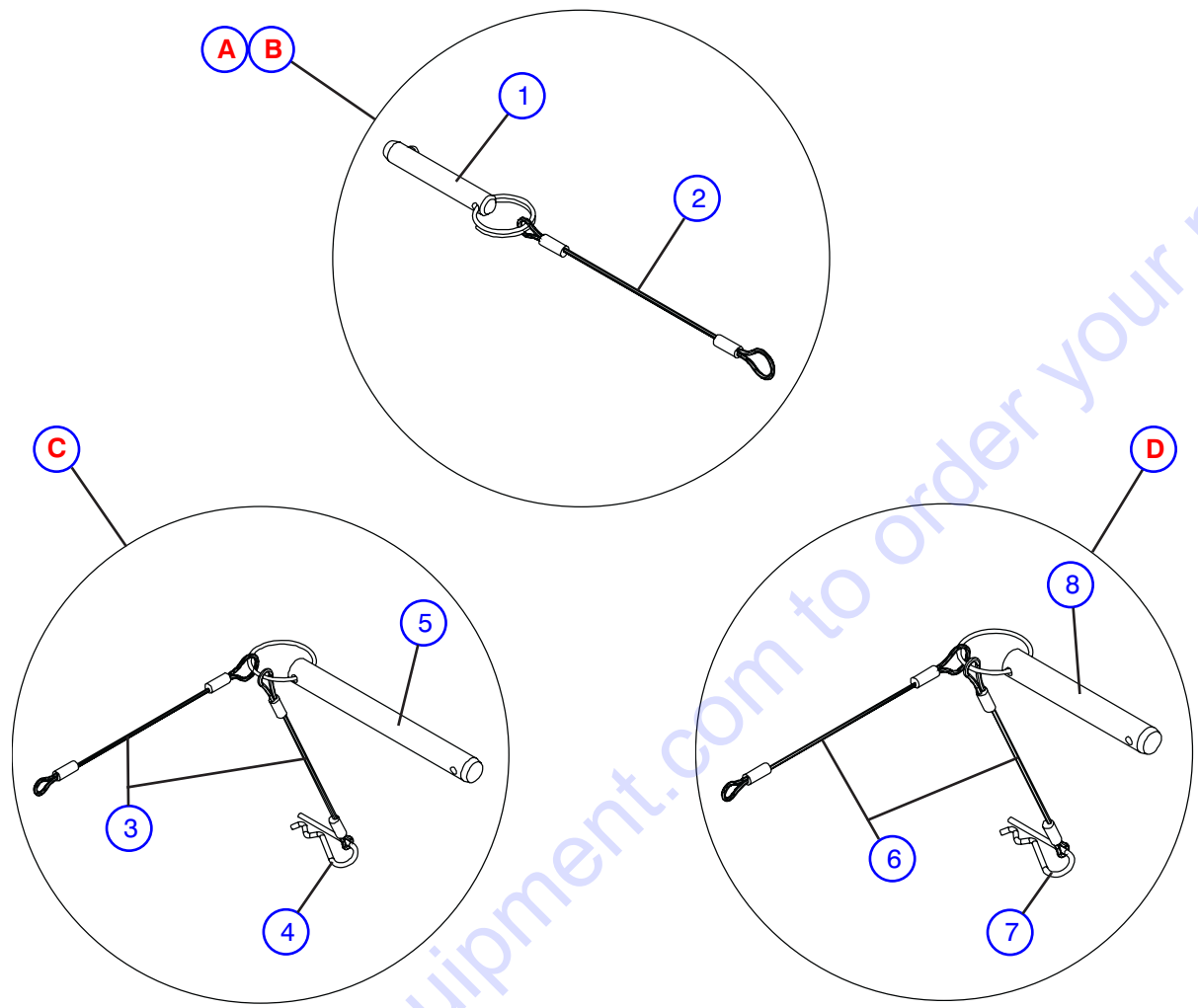
Figure 6.1-5. Gate Latch Assembly



M110824AA

Index No.	Skyjack Part No.	Qty.	Description
-	110824	-	ASSEMBLY, Latch pin spring
1	109377	1	• PIN, Latch
2	105312	1	• GUIDE, Nylon spring
3	105307	1	• PLATE, Gate latch release
4	105310	1	• PIN, Roll
5	103107	1	• SPRING, Compression

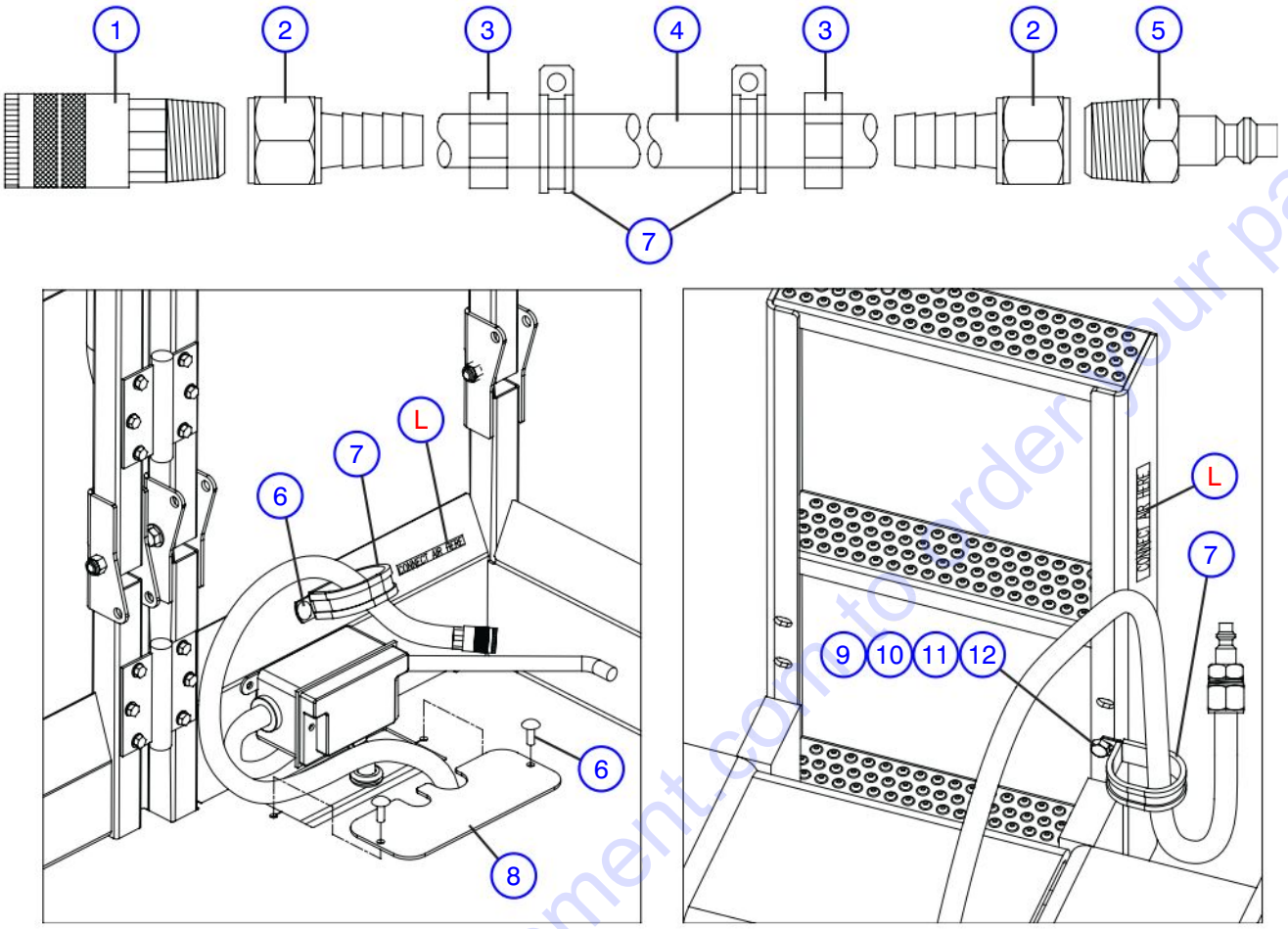
Figure 6.1-6. Quick Release Pins



M124548AB M137217AA M137087AA

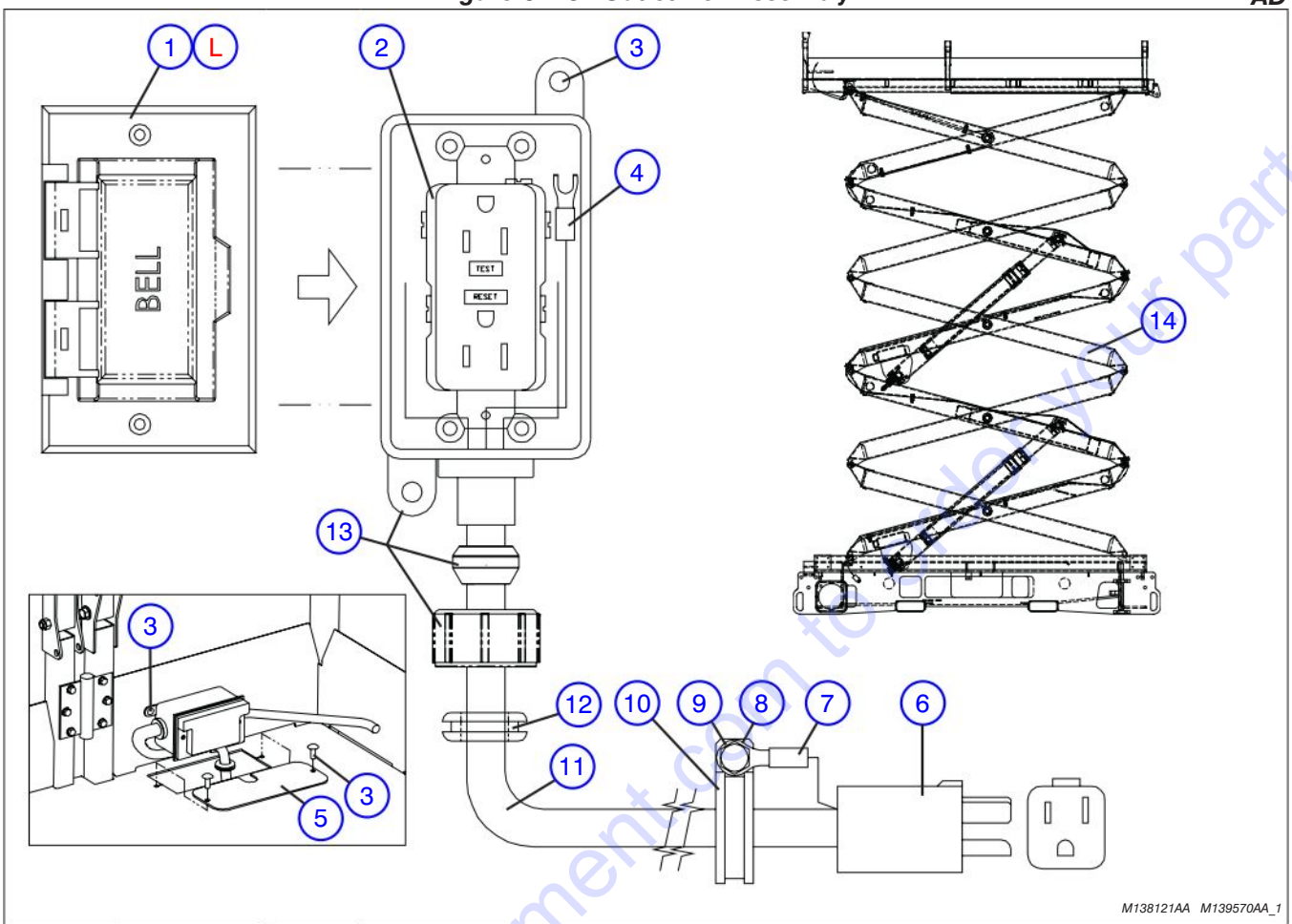
Index No.	Skyjack Part No.	Qty.	Description
A	124548	-	PIN ASSEMBLY, Quick release large loop
B	124547	-	PIN ASSEMBLY, Quick release small loop
1	100509	1	• PIN, Quick release (3/8” DIA x 1.688”)
2	105807	1	• LANYARD, Plastic coated (6”)
C	137217	-	PIN ASSEMBLY, Long
3	105807	2	• LANYARD, Plastic coated (6”)
4	103055	1	• PIN, Cotter Hair
5	137086	1	• PIN, Ring (1/2” DIA x 4.125”)
D	137087	-	PIN ASSEMBLY, Short
6	105807	2	• LANYARD, Plastic coated (6”)
7	103055	1	• PIN, Cotter Hair
8	137084	1	• PIN, Ring (1/2” DIA x 2.75”)

Figure 6.1-7. Air Hose to Platform Assembly



Index No.	Skyjack Part No.	Qty.	Description
1	107882	1	FITTING, Female disconnect
2	109050	2	FITTING, Hose barb
3	107886	2	CLAMP, Hose
4	107884	37’	HOSE, Air **(Models 6826)**
	107884	45’	HOSE, Air **(Models 6832)**
5	107883	1	FITTING, Male disconnect
6	134140	3	RIVET, Open end dome (1/4” DIA)
7	103078	2	CLAMP, Double G10
8	137567	1	PLATE, Air control/110 cover
9	103978	1	NUT, Hex head (3/8”-16 Grade 5)
10	103999	1	WASHER, Lock (3/8”)
11	103472	1	WASHER, Flat (3/8”)
12	101632	1	BOLT, Hex head (3/8”-16 x 3/4” Grade 5)
L	(Ref.)	-	LABEL, Connect Air Here (For components, refer to Figure 6.6-2)

Figure 6.1-8. Outlet Box Assembly



Index No.	Skyjack Part No.	Qty.	Description
1	109699	1	PLATE, Weatherproof cover
2	109698	1	RECEPTACLE, GFI (125V)
3	134140	4	RIVET, Open end dome (1/4” DIA)
4	109892	1	TERMINAL, Fork (16-14GA)
5	137083	1	PLATE, Outlet access cover
6	104208	1	PLUG, Male (3-prong)
7	130730	1	ASSEMBLY, Ground wire
8	103856	1	BOLT, Hex head (1/4”-20 - 3/4”)
9	115649	AR	NUT, Hex nylon lock (1/4”-20 Grade 5)
10	103024	1	SINGLE CLIP, G8
11	105269	420”	CABTIRE, 14/3 **(Models 6826)**
	105269	516”	CABTIRE, 14/3 **(Models 6832)**
	117542	492”	CABTIRE, 14/3 **(Models 6826)(CE)**
	117542	588”	CABTIRE, 14/3 **(Models 6832)(CE)**
12	103014	1	GROMMET, Rubber (7/8”)
13	136328	1	BOX, Outlet with fitting
14	(Ref.)	-	110/220 CLAMP ASSEMBLY OPTION (For components, refer to Figure 6.5-9)
L	(Ref.)	-	LABEL, Connect Platform AC Supply Here (For components, refer to Figure 6.6-6)

Figure 6.1-9. Control Box Assembly - Hardware

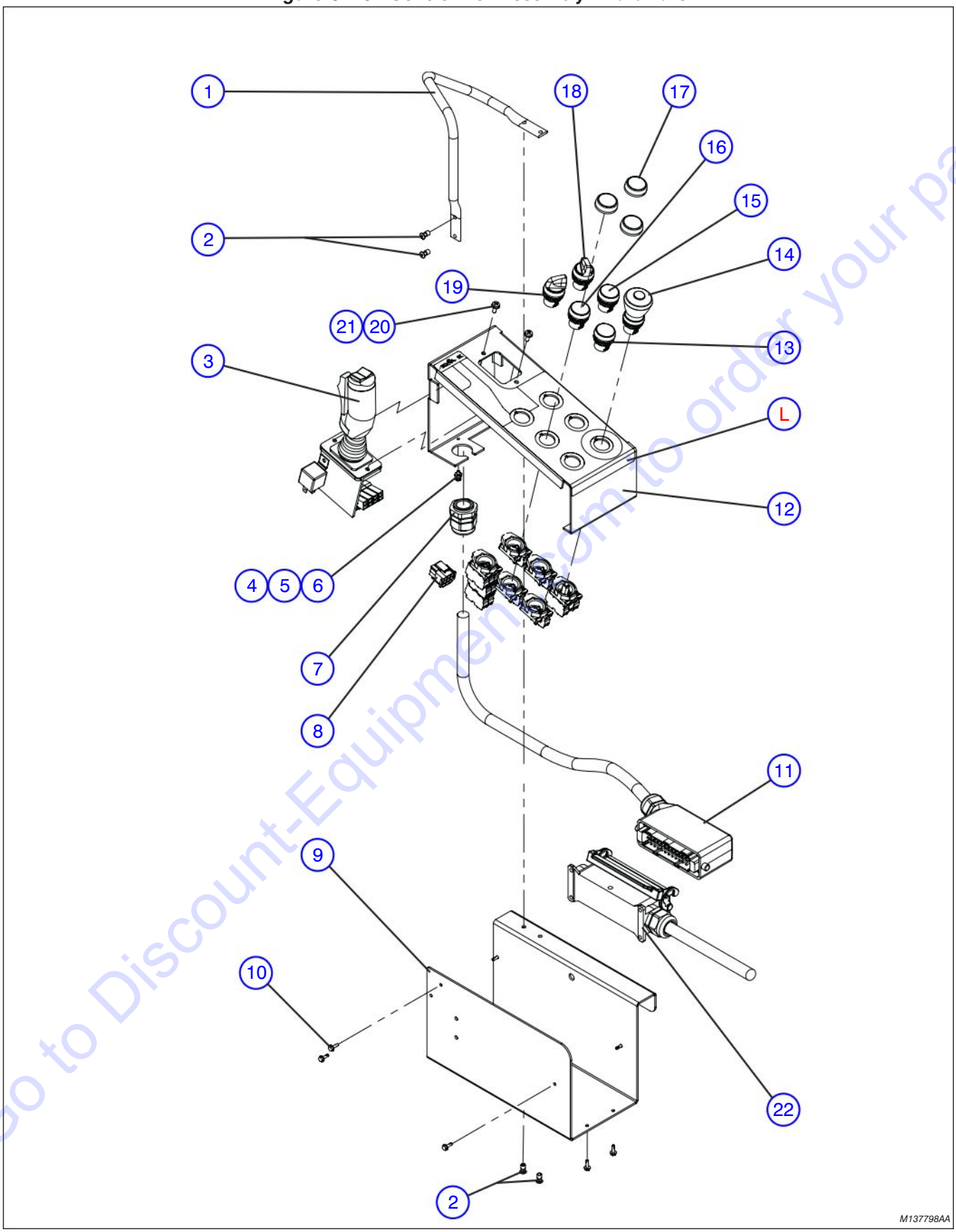


Figure 6.1-9. Control Box Assembly - Hardware

Index No.	Skyjack Part No.	Qty.	Description
-	137798	-	ASSEMBLY, Control Box
1	138004	1	• GUARD, Control box
2	120948	AR	• RIVET, Pop (3/16” DIA x 0.440”)
3	(Ref.)	-	• CONTROLLER ASSEMBLY, Enable Joystick (For components, refer to Figure 6.1-10)
4	106099	1	• WASHER, Lock (#6)
5	103985	1	• NUT, Hex Head (#6-32)
6	114678	3	• SCREW, Round head machine (#6-32 x 1/2”)
7	300788	1	• STRAIN RELIEF, LTF 21
8	116993	1	• CONNECTOR, Joystick
9	137594	1	• PLATE, Control Box (Outside)
10	112327	AR	• SCREW, Hex head self tapping (#8-8 x 1/2”)
11	137355	1	• CABLE ASSEMBLY, Control box (24 PIN)
	137201	120”	• • CABLE 16/25
	137329	1	• • HOUSING, Side entry with strain relief
	137224	1	• • INSERT, Male (24 PIN)
	121050	25	• • FERULE, 16GA (Black)
12	137593	1	• PLATE, Control Box (Top)
13	-	1	• SWITCH ASSEMBLY, Horn
	137792	1	• • HEAD, Switch Push Button (Black)
	137786	1	• • SWITCH, Base Assembly
	137782	1	• • • BLOCK, NO Spring Contact
	137781	1	• • • LATCH, Mounting
14	-	1	• SWITCH ASSEMBLY, Emergency stop
	137795	1	• • HEAD, Switch Illuminated E-Stop (Red)
	137791	1	• • SWITCH, Base Assembly
	137785	1	• • • SWITCH, LED Block (Red)
	137783	2	• • • BLOCK, NC Contact
	137781	1	• • • LATCH, Mounting
15	-	1	• SWITCH ASSEMBLY, Glow Plug/Choke
	137792	1	• • HEAD, Switch Push Button (Black)
	137786	1	• • SWITCH, Base Assembly
	137782	1	• • • BLOCK, NO Spring Contact
	137781	1	• • • LATCH, Mounting
16	-	1	• SWITCH ASSEMBLY, Start
	137792	1	• • HEAD, Switch Push Button (Black)
	137786	1	• • SWITCH, Base Assembly
	137782	1	• • • BLOCK, NO Spring Contact
	137781	1	• • • LATCH, Mounting
17	137796	3	• BOOT, Push Button (Round)

Part list continued on the following page.

Figure 6.1-9. Control Box Assembly - Hardware (Continued)

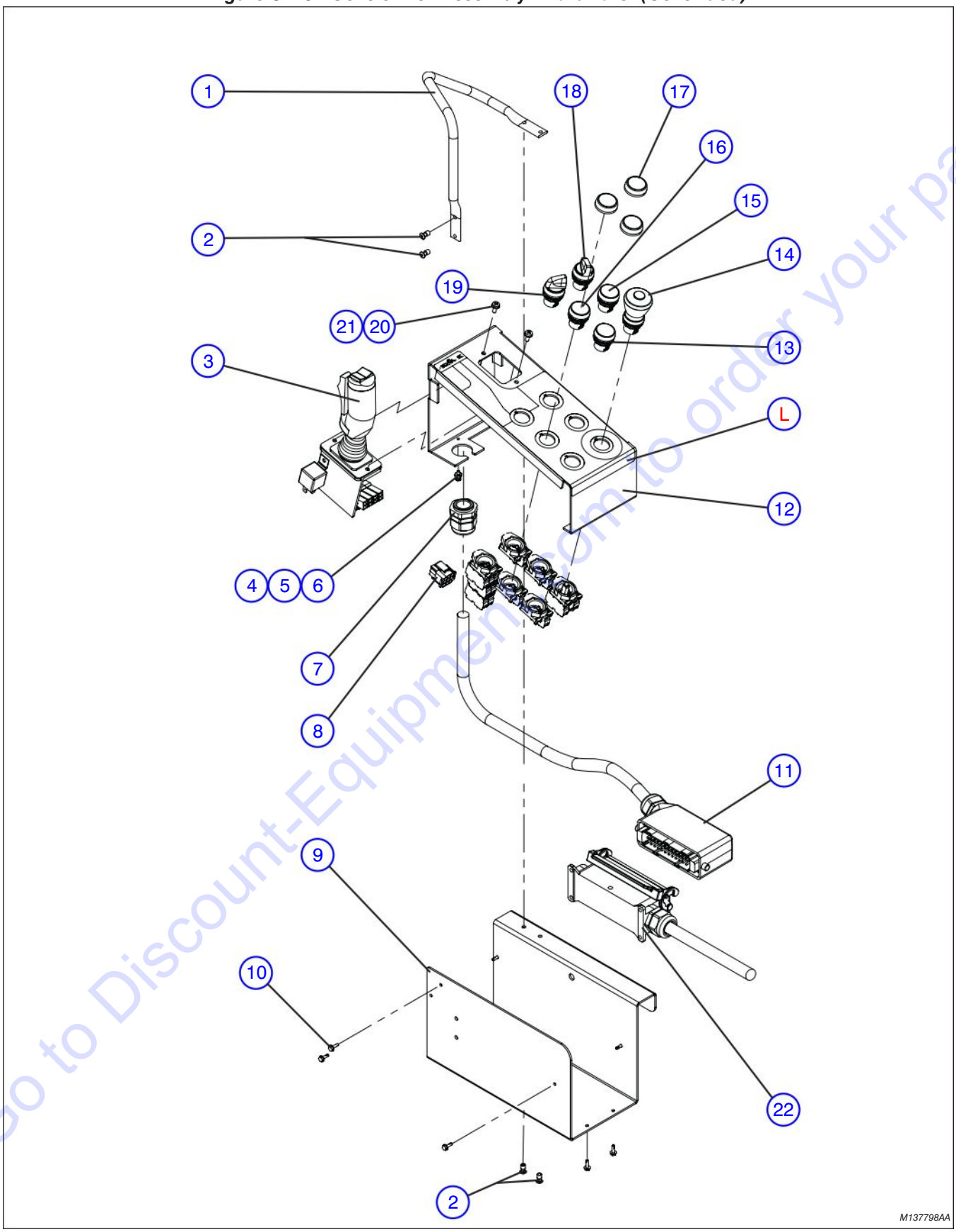


Figure 6.1-9. Control Box Assembly - Hardware (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
18	-	1	• SWITCH ASSEMBLY, Low/High Throttle Select
	137794	1	• • HEAD, Switch Selector (2-Way)
	137786	1	• • SWITCH, Base Assembly
	137782	1	• • • BLOCK, NO Spring Contact
	137781	1	• • • LATCH, Mounting
19	-	1	• SWITCH ASSEMBLY, Lift Drive
	137793	1	• • HEAD, Switch Selector (3-Way)
	137788	1	• • SWITCH, Base Assembly
	137783	3	• • • BLOCK, NC Contact
	137782	4	• • • BLOCK, NO Contact
	137781	1	• • • LATCH, Mounting
L	(Ref.)	-	• LABEL, Control box (Refer to Figure 6.6-5)
20	(Ref.)	-	SCREW (Refer to Figure 6.1-10)
21	(Ref.)	-	WASHER (Refer to Figure 6.1-10)
22	(Ref.)	-	ASSEMBLY, Scissor arm control cable (For components, refer to Figure 6.1-11)

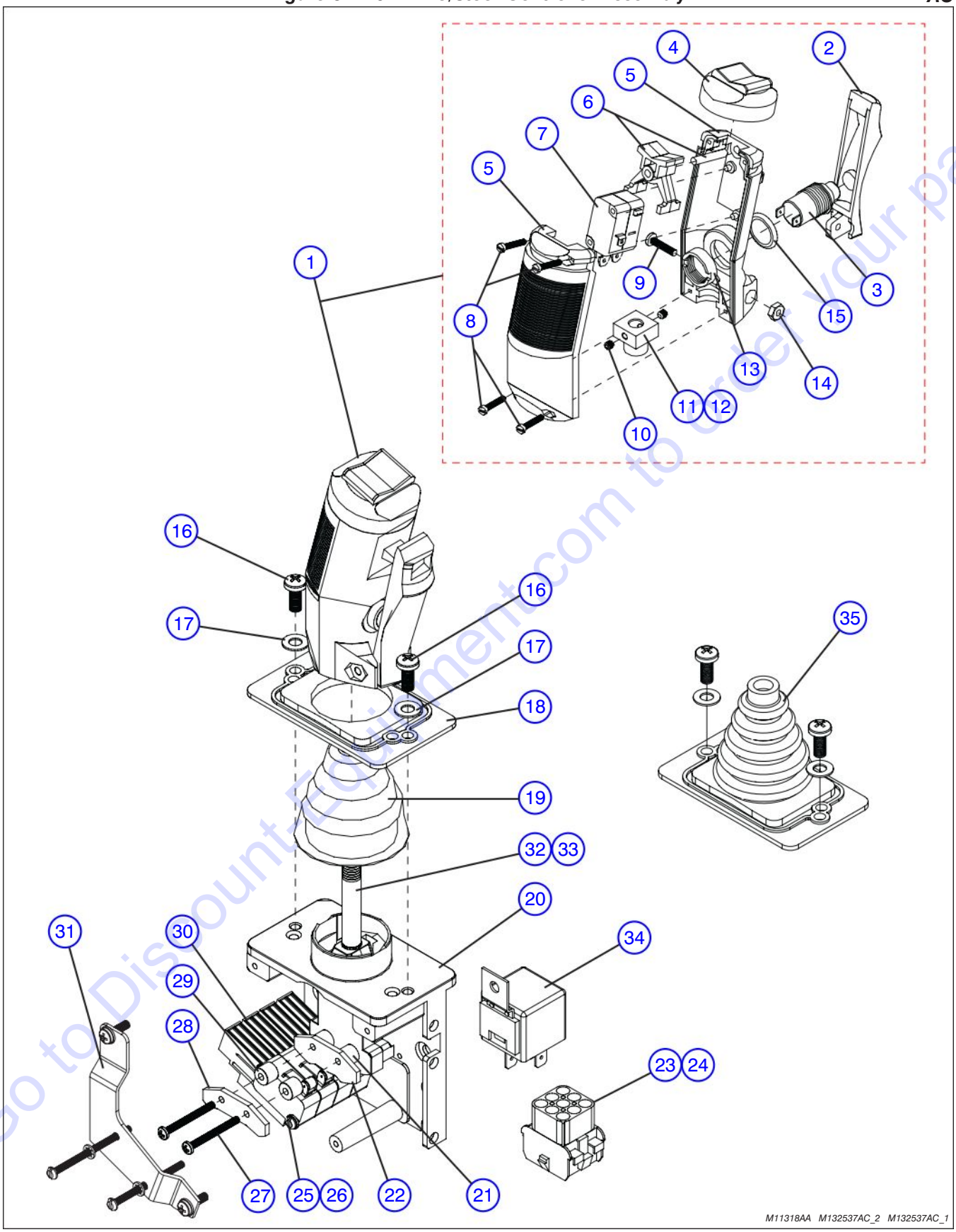


Figure 6.1-10. Drive/Steer Controller Assembly

Index No.	Skyjack Part No.	Qty.	Description
-	132537	1	CONTROLLER ASSEMBLY, Enable Joystick
1	122849	1	• HANDLE ASSEMBLY
2	122873	1	• • LEVER, Trigger
3	122872	1	• • SWITCH, Push button
4	122874	1	• • CAP, Rubber
5	134112	1	• • KIT, Handle
6	122876	1	• • ROCKER ASSEMBLY
7	122877	2	• • SWITCH ASSEMBLY, Micro
8	122879	4	• • SCREW, Joystick handle
9	122959	1	• • SCREW, Joystick lever
10	122960	2	• • SCREW, set
11	122961	1	• • COUPLING, 8mm
12	122962	1	• • COUPLING, 10mm
13	122963	1	• • NUT, Push button
14	122964	1	• • NUT, Joystick lever
15	122965	1	• • FITTING, O-Ring
16	122846	2	• SCREW
17	122847	2	• WASHER
18	122859	1	• GASKET (If Equipped)
19	122848	1	• BOOT (If Equipped)
20	122861	1	• BASE
21	122850	2	• SPACER
22	122862	1	• CAM
23	122840	1	• CONNECTOR ASSEMBLY, Male 9 pin
	116993	1	• • HOUSING, Connector Male 9 pin
	116990	9	• • PIN, Female wire
24	122841	1	• CONNECTOR ASSEMBLY, Female 9 pin
	122839	1	• • HOUSING, Connector Female 9 pin
	116989	9	• • PIN, Male wire
25	122870	2	• WASHER
26	122863	2	• SCREW
27	122866	2	• SCREW
28	122864	1	• CAM
29	122865	2	• SPACER
30	122869	4	• MICROSWITCH
31	139543	4	• BRACKET
32	124822	1	• SHAFT, Modified Joystick
33	127235	1	• SPRING, Torsion
34	127035	1	• RELAY, 12 V - 40 amp
35	127179	1	• BOOT & GASKET (If Equipped)

Figure 6.1-11. Scissor Arm Control Cable Assemblies

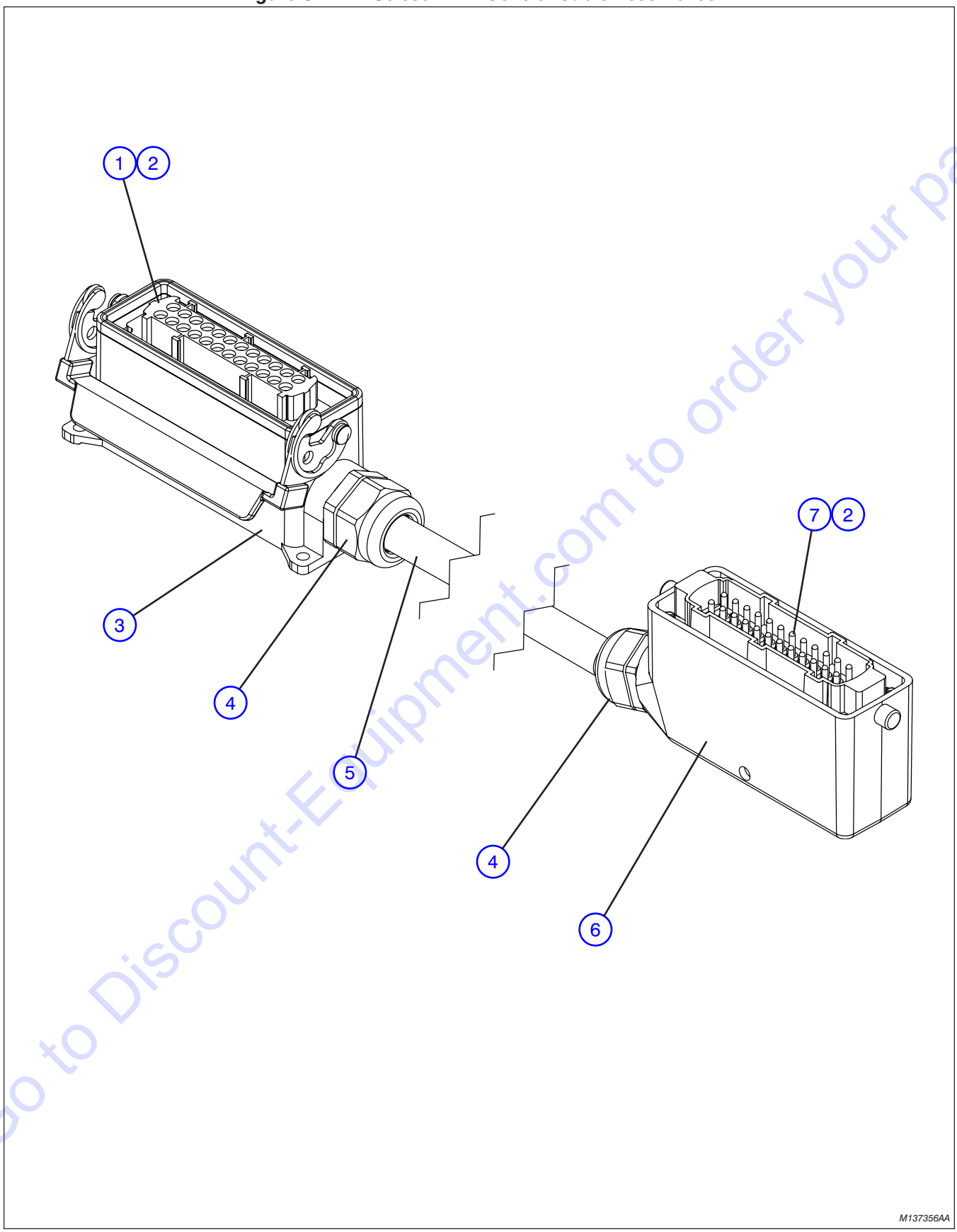


Figure 6.1-11. Scissor Arm Control Cable Assemblies

Index No.	Skyjack Part No.	Qty.	Description
-	137356	-	ASSEMBLY, Control Cable 6826
-	137363	-	ASSEMBLY, Control Cable 6832
1	137223	1	INSERT, Female (24 PIN)
2	121050	AR	FERULE, 16GA (Black)
3	138038	1	HOUSING, Surface mount (24 PIN)
4	132109	2	STRAIN RELIEF
5	137201	AR	CABLE, 16/25 (Refer to chart below for lengths)
6	138037	1	HOUSING, Side entry (24 PIN)
7	137224	1	INSERT, Male (24 PIN)

Models	6826	6832
Cable Lengths	504”	600”

M60444AA

Figure 6.2-1. Scissor Stack Assembly - Model 6826

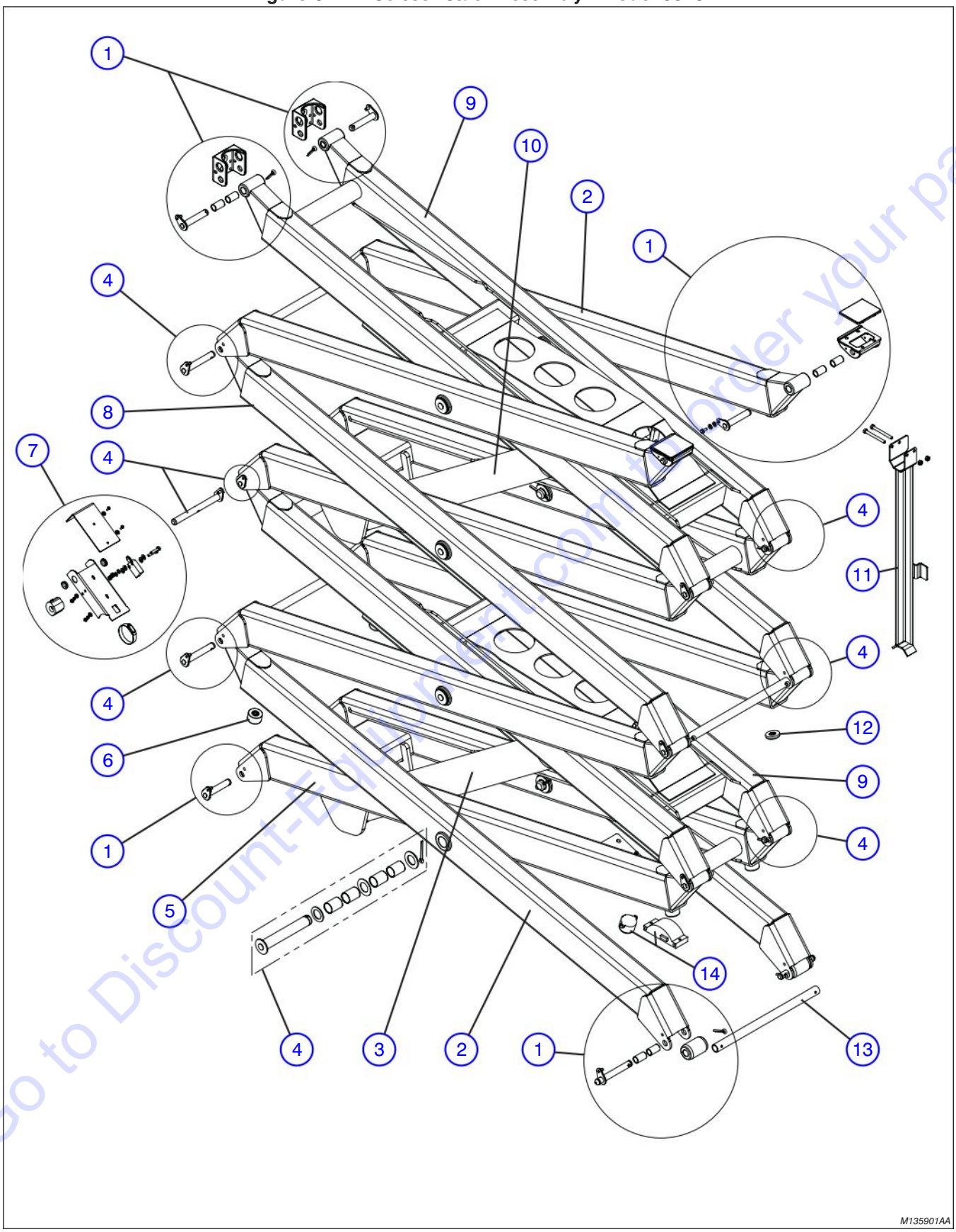


Figure 6.2-1. Scissor Stack Assembly - Model 6826

Index No.	Skyjack Part No.	Qty.	Description
-	135901	-	SCISSOR ASSEMBLY **(ANSI/CSA)**
-	135906	-	SCISSOR ASSEMBLY **(CE)**
1	(Ref.)	-	• MOUNTING, Scissor Stack Assembly (For components, refer to Figure 6.2-3)
2	136211	8	• SCISSOR ARMS, Outside
3	(Ref.)	-	• CYLINDER, Lower lift (For components, refer to Figure 6.2-6)
4	(Ref.)	-	• HARDWARE, Scissor Arm Assembly Connecting (For components, refer to Figure 6.2-4)
5	136222	1	• SCISSOR LEVEL, Inside (1st Level)
6	130840	4	• BUMPER, Scissor bottom (1st Level)
	123713	AR	• • BOLT, Hex Head (M12-1.25 x 16mm, Grade 9.8)
	600426	AR	• • WASHER, Flat (M12, plated DIN 125)
7	(Ref.)	-	• LIMIT SWITCH ASSEMBLIES, (For components, refer to Figure 6.2-5)
8	137562	1	• SCISSOR LEVEL, Inside (3rd Level)
9	136230	2	• SCISSOR LEVEL, Inside (2nd & 4th Level)
10	(Ref.)	-	• CYLINDER, Upper lift (For components, refer to Figure 6.2-6)
11	123344	1	• MAINTENANCE SUPPORT
	122006	AR	• • BOLT, Hex Head (0.312”-18 x 3.25”, Grade 5)
	103984	AR	• • NUT, Hex (0.312”-18, Grade 5)
12	121860	12	• BUMPER, Scissor arm
13	(Ref.)	-	• TUBE, Outside scissor spacer (Refer to Figure 6.2-4)
14	(Ref.)	-	• BEEPER/TRANSDUCER ASSEMBLY (For components, refer to Figure 6.2-9)

Figure 6.2-2. Scissor Stack Assembly - Model 6832

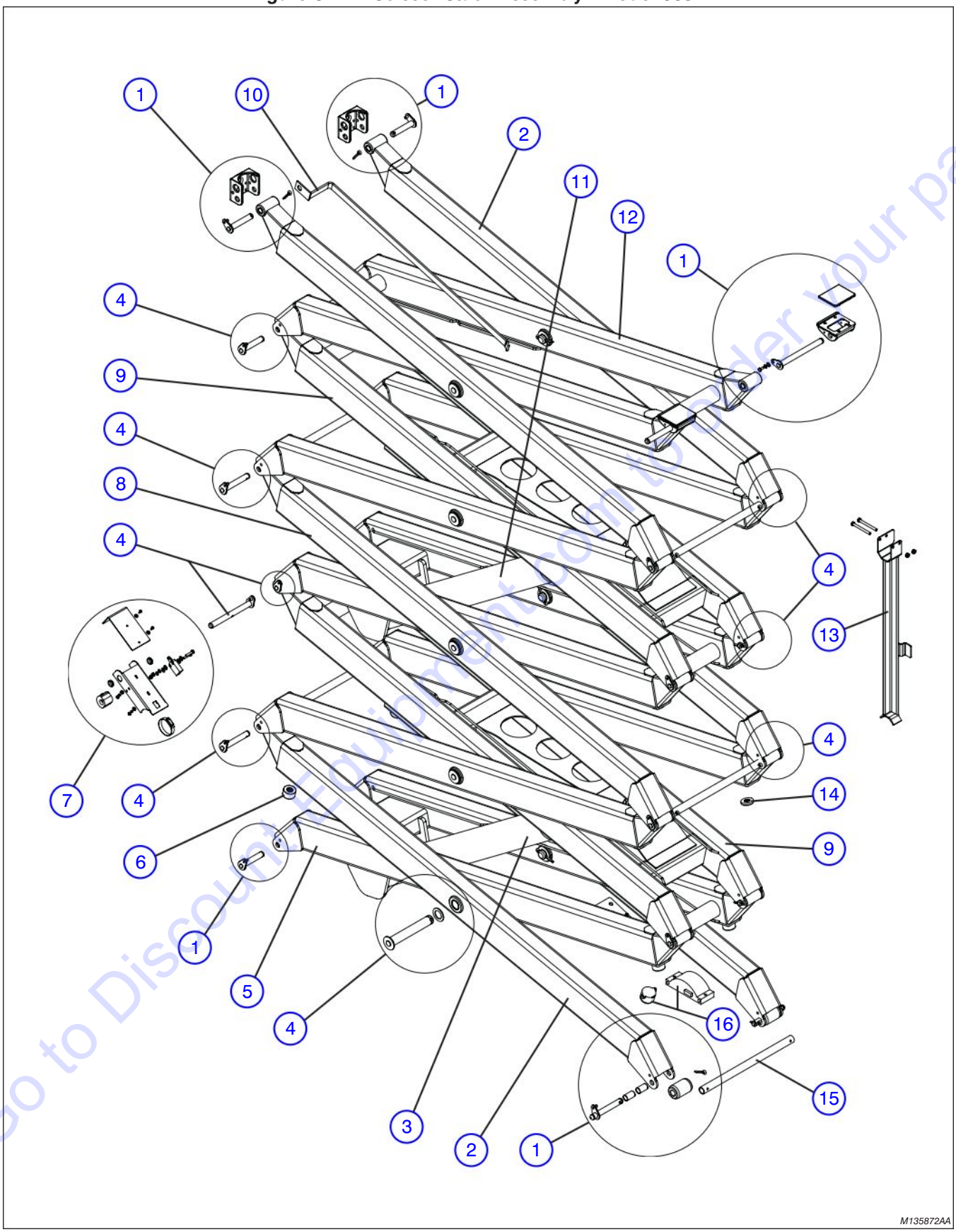
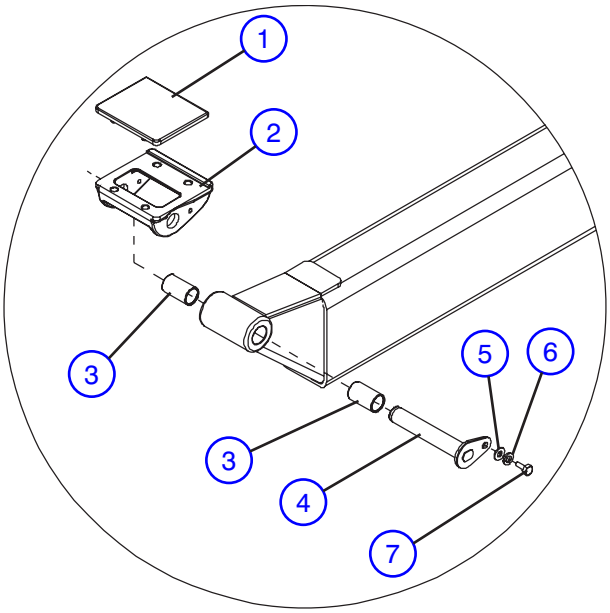


Figure 6.2-2. Scissor Stack Assembly - Model 6832

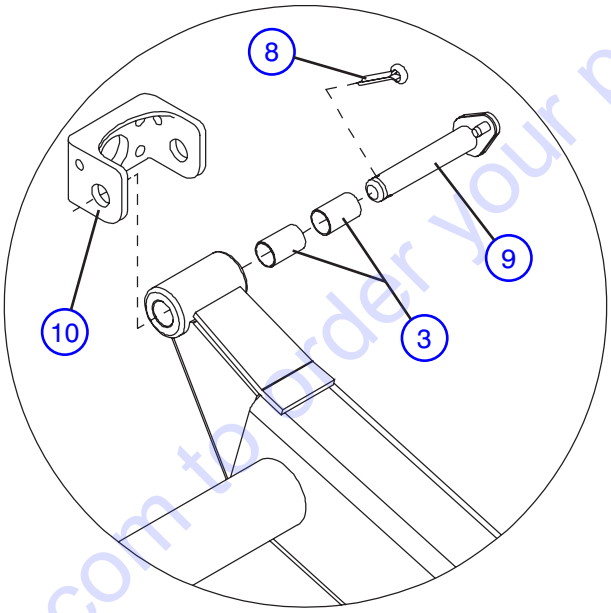
Index No.	Skyjack Part No.	Qty.	Description
-	135872	-	SCISSOR ASSEMBLY **(ANSI/CSA)**
-	135907	-	SCISSOR ASSEMBLY **(CE)**
1	(Ref.)	-	• MOUNTING, Scissor stack assembly (For components, refer to Figure 6.2-3)
2	136211	10	• SCISSOR ARMS, Outside
3	(Ref.)	-	• CYLINDER, Lower lift (For components, refer to Figure 6.2-6)
4	(Ref.)	-	• HARDWARE, Scissor arm assembly connecting (For components, refer to Figure 6.2-4)
5	136222	1	• SCISSOR LEVEL, Inside (1st Level)
6	130840	4	• BUMPER, Scissor first level
	123713	AR	• • BOLT, Hex head (M12-1.25 x 16mm, Grade 9.8)
	600426	AR	• • WASHER, Flat (M12, plated DIN 125)
7	(Ref.)	-	• LIMIT SWITCH ASSEMBLIES (For components, refer to Figure 6.2-5)
8	137562	1	• SCISSOR LEVEL, Inside (3rd Level)
9	136230	2	• SCISSOR LEVEL, Inside (2nd & 4th Level)
10	121907	2	• WELDMENT, Cable carrier
11	(Ref.)	-	• CYLINDER, Upper lift (For components, refer to Figure 6.2-6)
12	136231	1	• SCISSOR LEVEL, Inside (5th Level)
13	123344	1	• MAINTENANCE SUPPORT
	122006	AR	• • BOLT, Hex head (0.312”-18 x 3.25”, Grade 5)
	103984	AR	• • NUT, Hex (0.312”-18)
14	121860	16	• BUMPER, Scissor arm
15	(Ref.)	-	• TUBE, Outside scissor spacer (Refer to Figure 6.2-4)
16	(Ref.)	-	• BEEPER/TRANSDUCER ASSEMBLY (For components, refer to Figure 6.2-9)

Figure 6.2-3. Scissor Stack Assembly Mounting

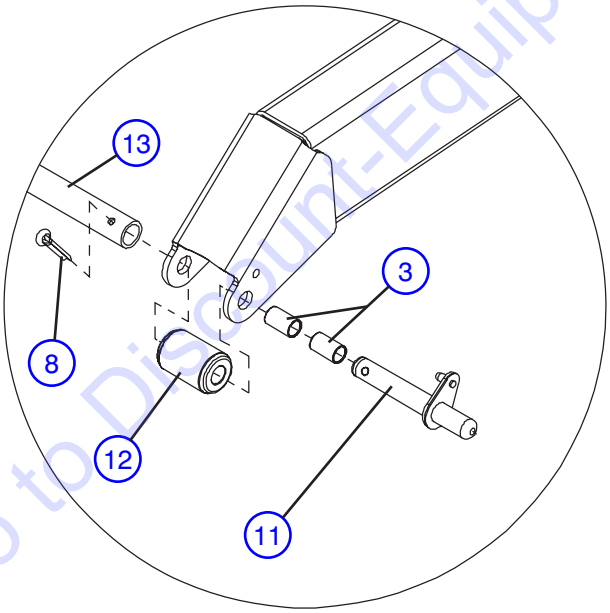
Top Slider Assembly



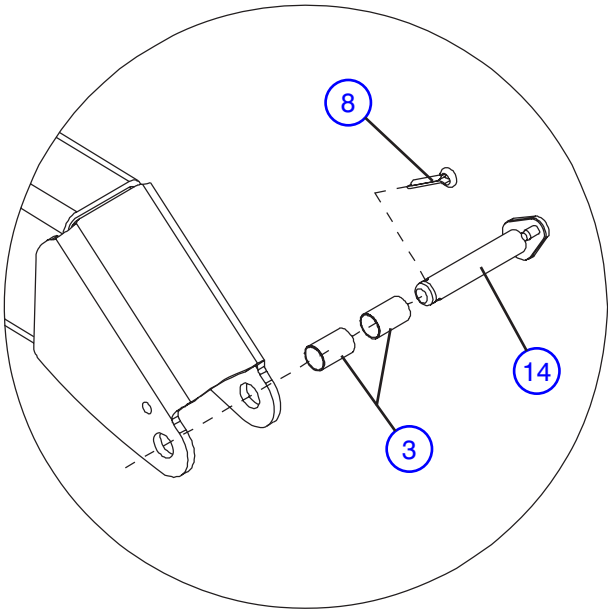
Main Platform Bracket Mounting Assembly



Bottom Slider Assembly



End Pin Assembly at Base



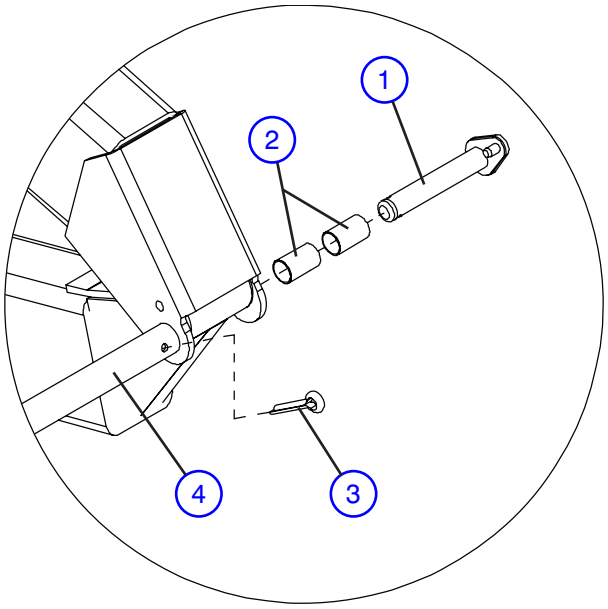
M135901AA_M135872AA_1

Figure 6.2-3. Scissor Stack Assembly Mounting

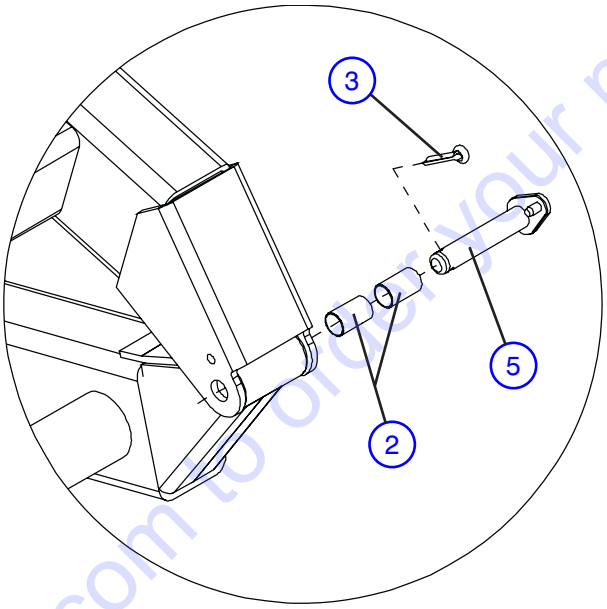
Index No.	Skyjack Part No.	Qty.	Description
1	120772	AR	PAD, Slider
2	120771	AR	BRACKET, Main platform slider
3	123430	AR	BUSHING, Fiberglide (3/4” Inside DIA x 1-1/2”)
4	134494	AR	PIN, Upper slider (Scissor level without cable carrier weldment)
	137207	AR	PIN, Upper slider 6832RT (Scissor level with cable carrier weldment)
5	103995	AR	WASHER, Flat (1/4”)
6	104000	AR	WASHER, Lock (1/4”)
7	103892	AR	BOLT, Hex head (1/4”-20 x 5/8”)
8	121874	AR	COTTER PIN (1/4” x 1.25”)
9	120958	AR	PIN, (3/4” DIA x 4”) (Scissor level without cable carrier weldment)
	121676	AR	PIN, (3/4” DIA x 4-1/4”) (Scissor level with cable carrier weldment)
10	134065	AR	CASTING, Platform mounting bracket
11	136551	AR	PIN, Bottom roller
12	120697	AR	ROLLER, Scissor
13	(Ref.)	-	TUBE, Outside scissor spacer (Refer to Figure 6.2-4)
14	126027	AR	PIN, Scissor to base

Figure 6.2-4. Scissor Arm Assembly Connecting Hardware

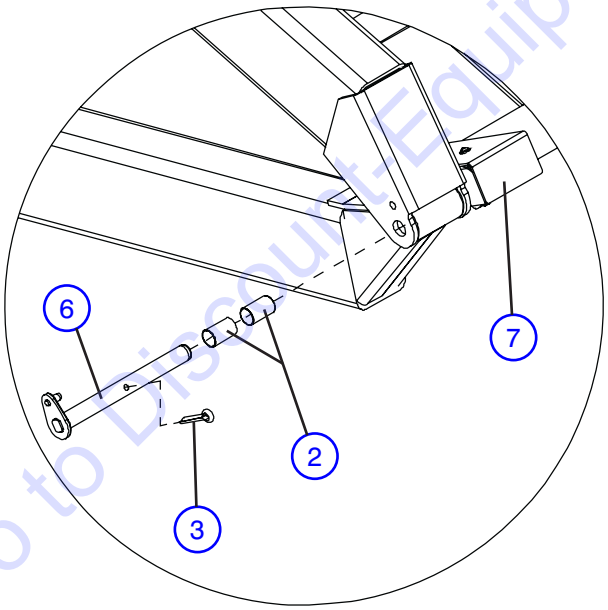
Outside End Pin Assembly (With Cross Member Tube)



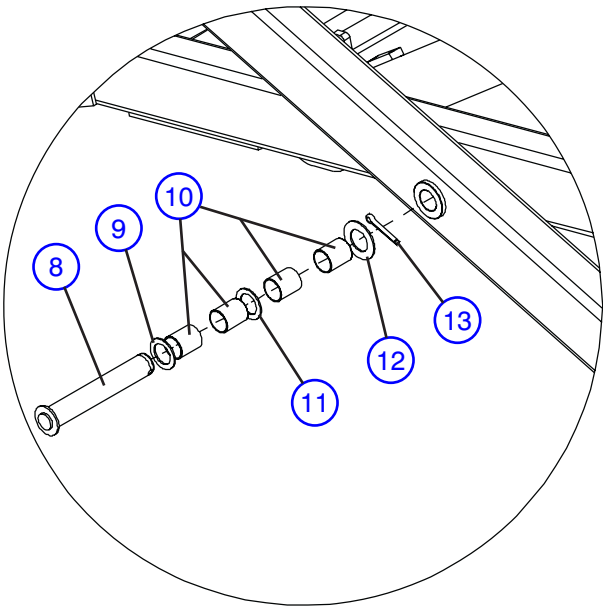
Inside End Pin Assembly (Without Cross Member Tube)



Limit Switch Pin Assembly



Center Pin Assembly

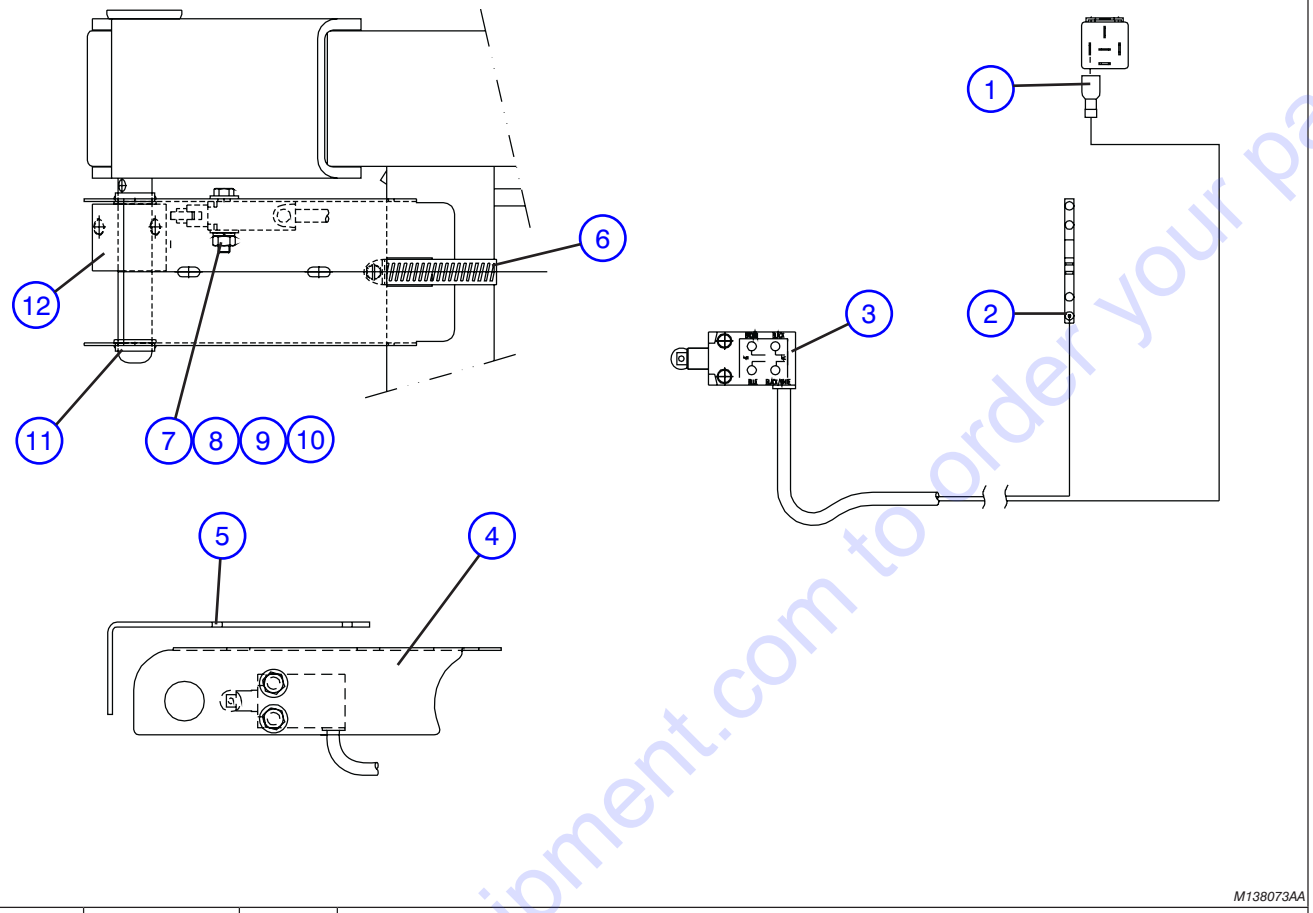


M135901AA_M135872AA_2

Figure 6.2-4. Scissor Arm Assembly Connecting Hardware

Index No.	Skyjack Part No.	Qty.	Description
1	121674	AR	PIN, Outside scissor
2	123430	AR	BUSHING, Fiberglide (3/4” Inner DIA x 1-1/2”)
3	121874	AR	COTTER PIN (1/4” x 1.25”)
4	121605	AR	TUBE, Outside scissor spacer
5	120958	AR	PIN, Inside scissor
6	121677	AR	PIN, Limit switch
7	(Ref.)	-	ASSEMBLY, Limit switch (For components, refer to Figure 6.2-5)
8	120673	AR	PIN, Center
9	101520	AR	WASHER, Nylon (2” Outer DIA x 1.28” Inner DIA x 0.12”)
10	123431	AR	BUSHING, Fiberglide (1-1/4” x 1-13/16”)
11	121703	AR	SPACER, Bearing thrust fiberglide (1-1/4” Inner DIA)
12	122502	AR	WASHER, Flat (1-1/4” Inner DIA x 2-1/4” Outer DIA)
13	121875	AR	COTTER PIN (5/16” x 2.0”)

Figure 6.2-5. Limit Switch Assemblies

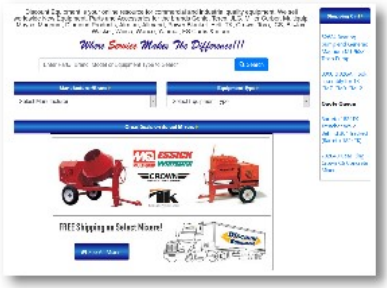


Index No.	Skyjack Part No.	Qty.	Description
1	105359	1	TERMINAL, Female (14-16GA x 1/4”)
2	115401	1	FERULE, 18GA Red
3	122010	1	SWITCH, Drilled Sealed Limit
4	121867	1	BRACKET, Limit Switch
5	121868	1	GUARD, Limit Switch
6	121869	1	CLAMP, Worm Gear (2.5”)
7	104000	AR	WASHER, Lock (1/4”)
8	103858	AR	BOLT, Hex Head (1/4”-20 x 1.25”, Grade 5)
9	103995	AR	WASHER, Flat (1/4”)
10	103980	AR	NUT, Hex (1/4”-20, Grade B)
11	121908	2	BUSHING, Snap-in (3/4”)
12	100967	1	CAM, Limit Switch

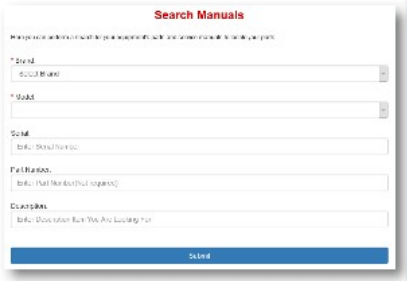
PARTS FINDER

Search Website by Part Number

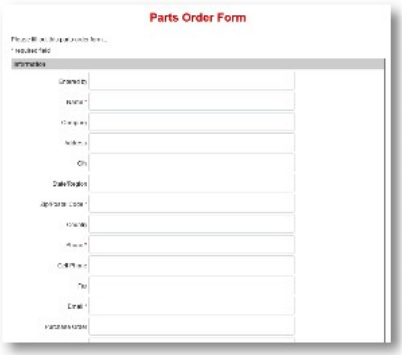
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

Figure 6.2-6. Lift Cylinder Assembly And Mounting Hardware

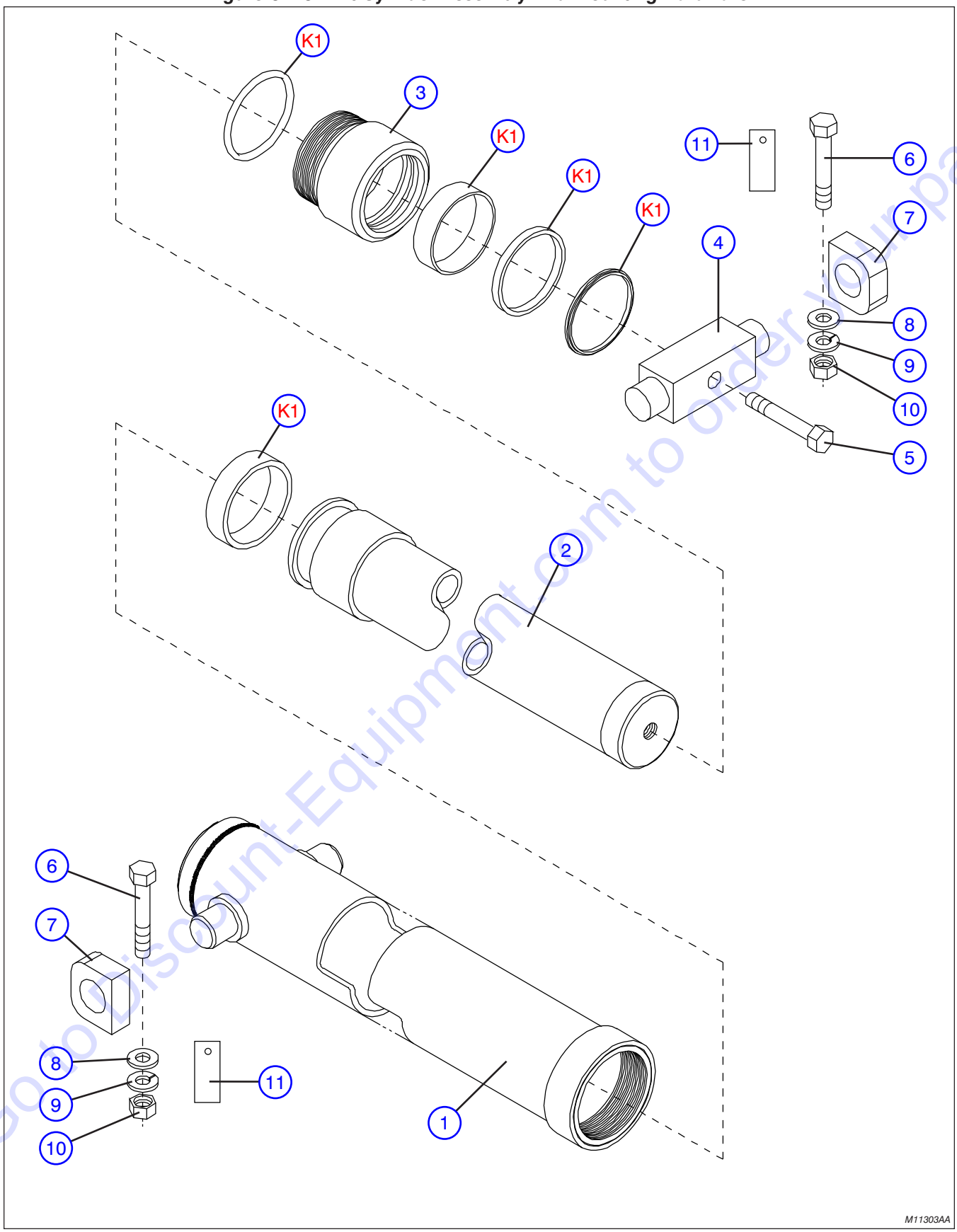
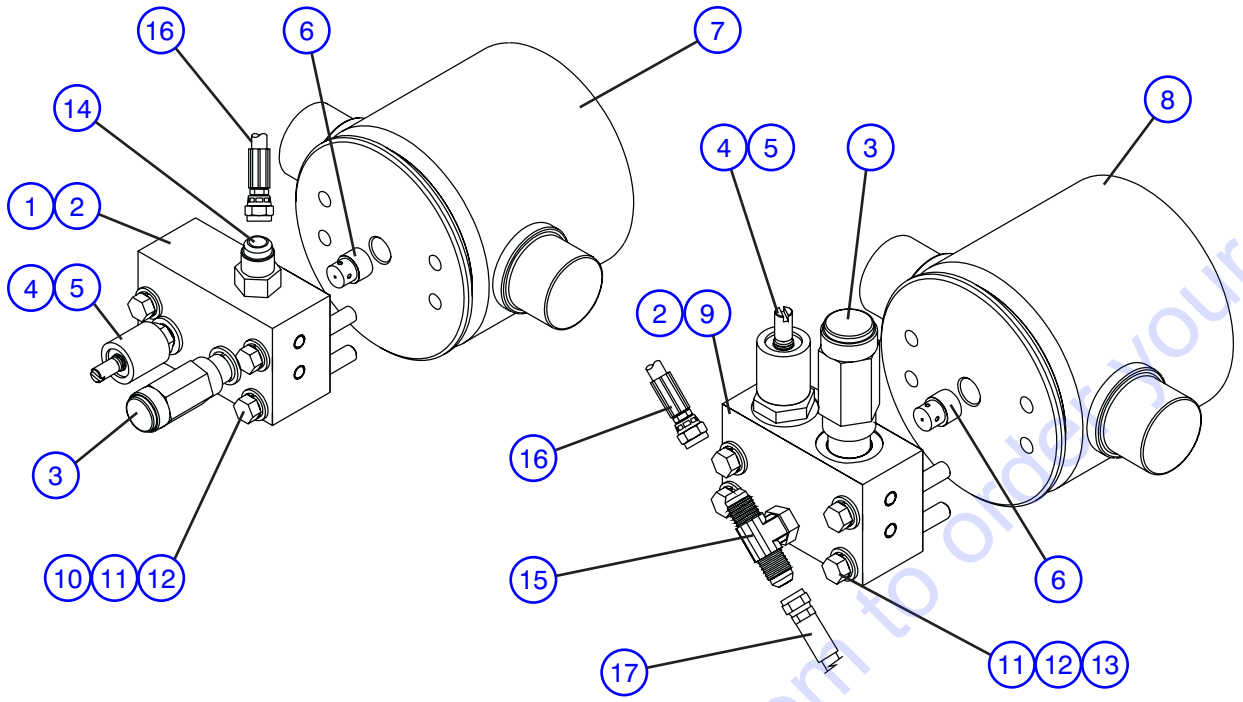


Figure 6.2-6. Lift Cylinder Assembly And Mounting Hardware

Index No.	Skyjack Part No.	Qty.	Description
-	120989	-	LIFT CYLINDER ASSEMBLY
1	120993	1	• WELDMENT, Barrel
2	120991	1	• ROD, Piston
3	121096	1	• GLAND, Front head
4	121668	1	• TRUNNION
5	105686	1	• BOLT (3/4-16 x 3, Grade 5)
6	103869	4	BOLT, Hex head (5/16-18 x 4.5, Grade 5)
7	123808	4	BEARING BLOCK ASSEMBLY
	101076		• BLOCK
	100904		• BUSHING
8	103996	4	WASHER, Flat (5/16 SAE)
9	103404	4	WASHER, Lock (5/16 NOM x 0.07)
10	100397	4	NUT, Hex head (5/16-18, Grade B)
11	130337	AR	SHIM, Bearing block (16 GA) (If equipped)
	130387	AR	SHIM, Bearing block (18 GA) (If equipped)
	130388	AR	SHIM, Bearing block (22 GA) (If equipped)
K1	121097	1	KIT, Seal repair

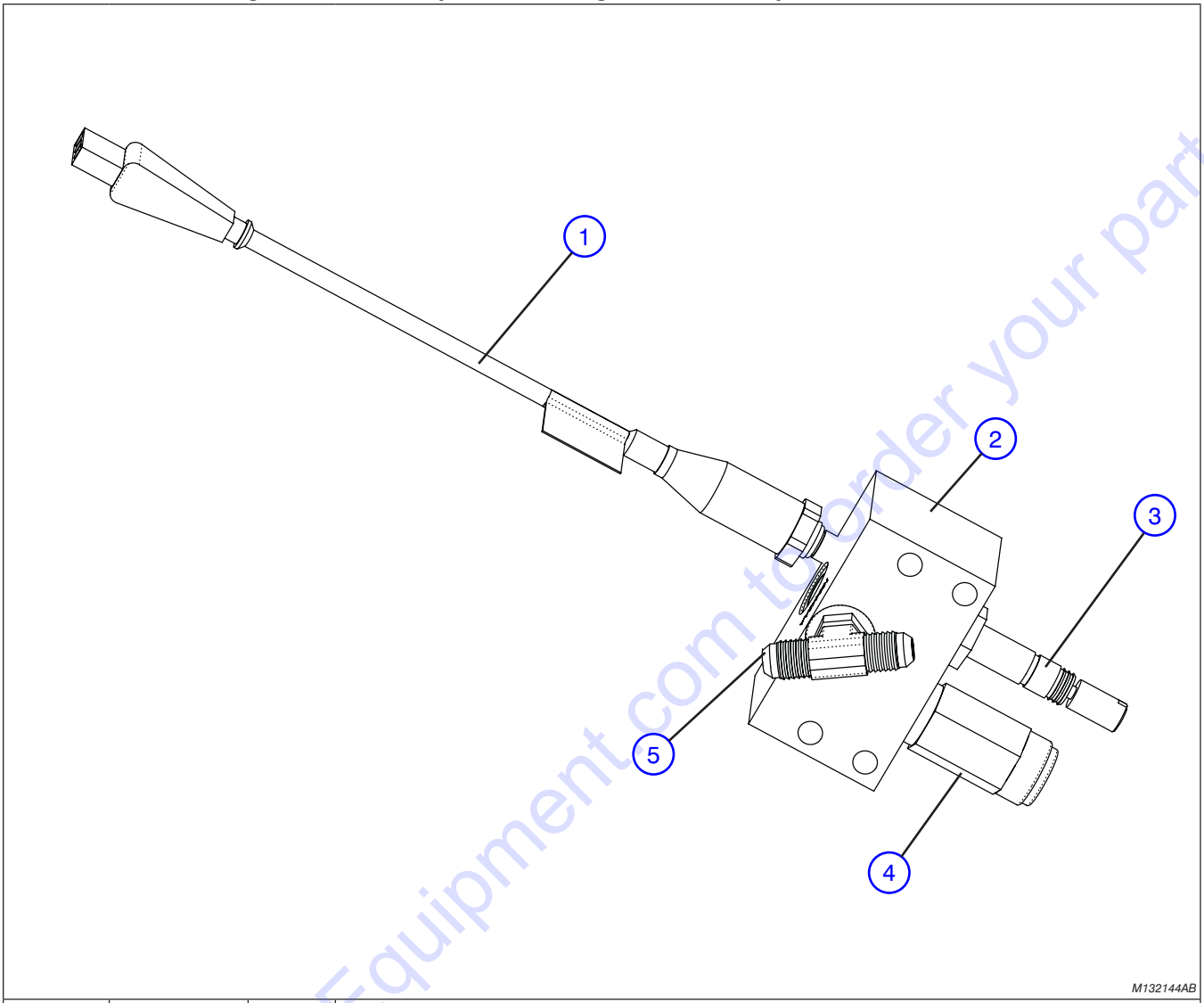
Figure 6.2-7. Lift Cylinder Holding Valve Assemblies without Transducer



M125916AA M125917

Index No.	Skyjack Part No.	Qty.	Description
1	108778	1	BLOCK, Upper holding valve
	212915	1	• BLOCK, Manifold
	111320	1	• • BLOCK, Cylinder block
	108052	2	• • PLUG, Expander
	108052	1	• PLUG, Expander
2	103403	2	SEAL, O-Ring
3	106557	2	VALVE, Relief
4	107269	2	VALVE, N.C. Holding
5	104410	2	COIL, 12 Volt
6	105281	2	ORIFICE, One way
7	(Ref.)	-	ASSEMBLY, Lift cylinder (Upper Cylinder) (For components, refer to Figure 6.2-6)
8	(Ref.)	-	ASSEMBLY, Lift cylinder (Lower Cylinder) (For components, refer to Figure 6.2-6)
9	106688	1	BLOCK, Lower holding valve
	111316	1	• BLOCK, Manifold
	108052	2	• PLUG, Expander
10	108429	4	BOLT, Hex head 5/16” - 18 x 2.50”
11	103996	8	WASHER, Flat 5/16” S.A.E.
12	104637	8	WASHER, Lock (5/16” high collar 0.09)
13	103931	4	BOLT, Socket (5/16” - 18 x 2” Grade 5)
14	103069	1	FITTING, Straight (upper lift Cylinder)
15	114579	1	FITTING, Tee (lower lift cylinder)
16	102635	1	HOSE ASSEMBLY, Upper Lift cylinder to lower lift cylinder
17	134684	1	HOSE ASSEMBLY, Lower lift cylinder to main manifold (3/8” DIA x 84”)

Figure 6.2-8. Lift Cylinder Holding Valve Assembly with Transducer **AD**



Index No.	Skyjack Part No.	Qty.	Description
-	132144	1	ASSEMBLY, Lift cylinder holding valve manifold
1	134432	1	• TRANSDUCER, Pressure 3000 psi
2	130443	1	• BLOCK, Manifold with Plugs
	130442	1	• • BLOCK, Manifold
	108052	2	• • PLUG, Expander
3	107269	1	• VALVE, N.C. Holding
4	106557	1	• VALVE, Relief
5	114579	1	• FITTING, Tee

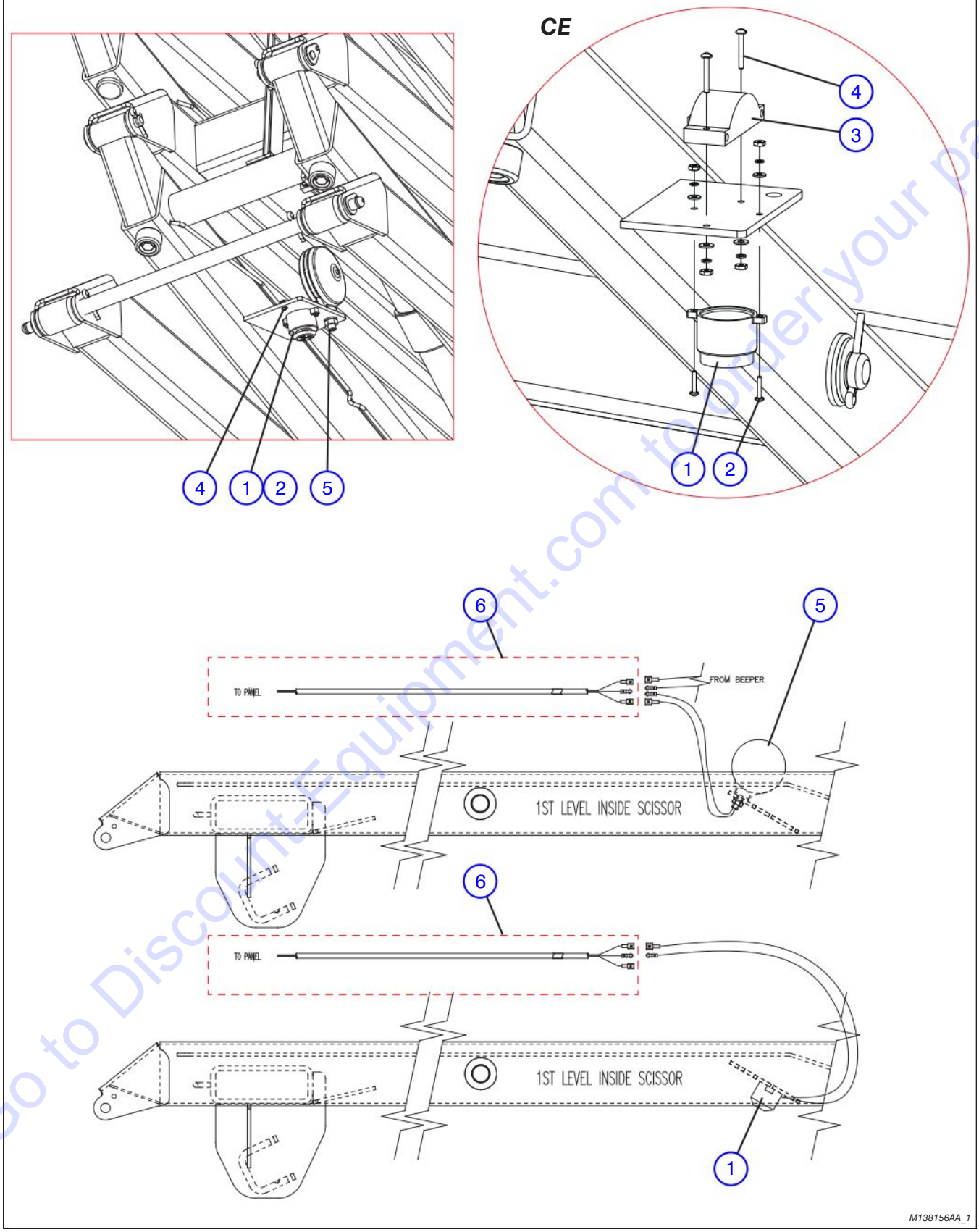


Figure 6.2-9. Light & Beeper Assemblies **AD**

Index No.	Skyjack Part No.	Qty.	Description
1	103056	1	BEEPER, 7.5 - 16 VDC **(ANSI/CSA)**
	117967	1	BEEPER, XL - 600 9 - 28 VDC **(CE)**
2	-	-	HARDWARE, Beeper
	112248	2	• SCREW, Round head machine (#8 - 32 x 1”) **(ANSI/CSA)**
	103958	2	• SCREW, Round head machine (#8 - 32 x 3/4”) **(CE)**
	103986	2	• NUT, Hex Head (#8-32)
	112249	2	• WASHER, Lock (#8)
	103991	2	• WASHER, Flat (#8)
3	130440	1	TRANSDUCER, Angle **(CE)**
4	-	-	HARDWARE, Angle transducer **(CE)** or wire mounting **(ANSI/CSA)**
	104698	AR	• SCREW, Machine (#10 - 32 x 3/4”) **(ANSI/CSA)**
	122498	AR	• SCREW, Machine (#10 - 32 x 1.25”) **(CE)**
	104003	AR	• NUT, Machine (#10-32, Grade B)
	104185	AR	• WASHER, Lock (#10)
	104694	AR	• WASHER, Flat (#10)
5	126677	1	LIGHT, Beacon 12 V with terminals (If equipped)
	121476	1	• LIGHT, Beacon 12 V
	146152	1	• BULB, Dual contact (12 V)
6	138007	1	ASSEMBLY, Cabtire beeper 18/3 **(ANSI/CSA)**
	103257	156”	• CABTIRE 18/3

Figure 6.3-1. Base, Axles and Wheels

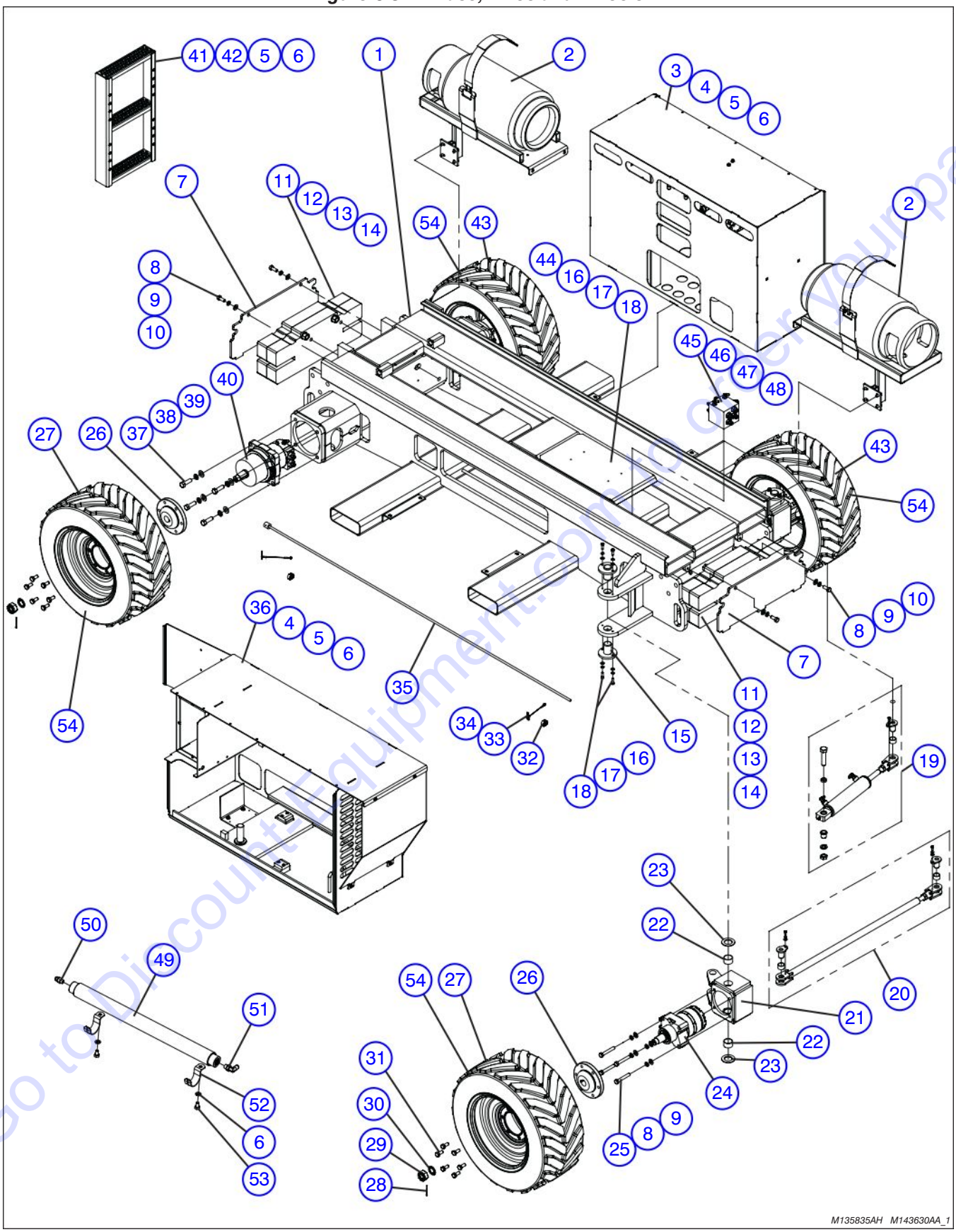


Figure 6.3-1. Base, Axles and Wheels

Index No.	Skyjack Part No.	Qty.	Description
1	135891	1	WELDMENT, Base
2	(Ref.)	-	PROPANE TRAY (For components, refer to Figure 6.3-2)
3	(Ref.)	-	HYDRAULIC CABINET ASSEMBLY (For components, refer to Figure 6.3-10)
4	300437	AR	BOLT, Hex head (3/8”-16 x 2.25”, Grade 5)
5	103472	AR	WASHER Flat (3/8”)
6	103999	AR	WASHER, Lock (3/8”)
7	137123	2	PLATE, Base front cover
8	103909	4	BOLT, Hex-head (1/2”-13 x 1.25”, Grade 5)
9	104379	12	WASHER, Flat (1/2”)
10	103470	12	WASHER, Lock (1/2”, Grade 5)
11	137396	2	WELDMENT, Base weight (If equipped)
12	112008	4	BOLT, Hex-head (3/4”-10 x 1.5” Grade 8)
13	104002	4	WASHER, Lock (3/4”)
14	702194	4	WASHER, Flat (3/4”)
15	136521	4	PIN, Wheel pivot
16	103864	AR	BOLT, Hex head (5/16”-18 x 1”, Grade 5)
17	103404	AR	WASHER, Lock (5/16”)
18	103996	AR	WASHER, Flat (5/16”)
19	(Ref.)	-	CYLINDER ASSEMBLY, Steer (For components, refer to Figure 6.3-3)
20	(Ref.)	-	ASSEMBLY, Tie rod (For components, refer to Figure 6.3-4)
21	135892	2	WELDMENT, Front wheel motor housing
22	138063	4	BUSHING, DU (1.5” x 1”)
23	136567	4	BUSHING, (1.505” ID x 2.505” OD x 0.125”)
24	(Ref.)	-	MOTOR, Front wheel (For components, refer to Figure 6.3-7)
25	103469	AR	BOLT, Hex head (1/2”-13 x 3.25”, Grade 5)
26	134716	4	HUB, 6 ON 6 (1-1/2” shaft)
27	135905	AR	WHEEL ASSEMBLY, RH (26x12D) (foam filled, **Models 6826 & 6832**)
	141736	AR	WHEEL ASSEMBLY, RH (26x12D) (air filled, **only ANSI/CSA Model 6826 equipped with weights or outriggers**)
	142222	AR	WHEEL ASSEMBLY, RH (air filled with sealant, **only ANSI/CSA Model 6826 equipped with weights or outriggers**)
	141848	2	• LABEL, Tire sealant
28	140920	4	PIN, Cotter 5/32 x 2.5”
29	(Ref.)	-	NUT, Castle (Refer to Figure 6.3-7)

Part list continued on the following page.

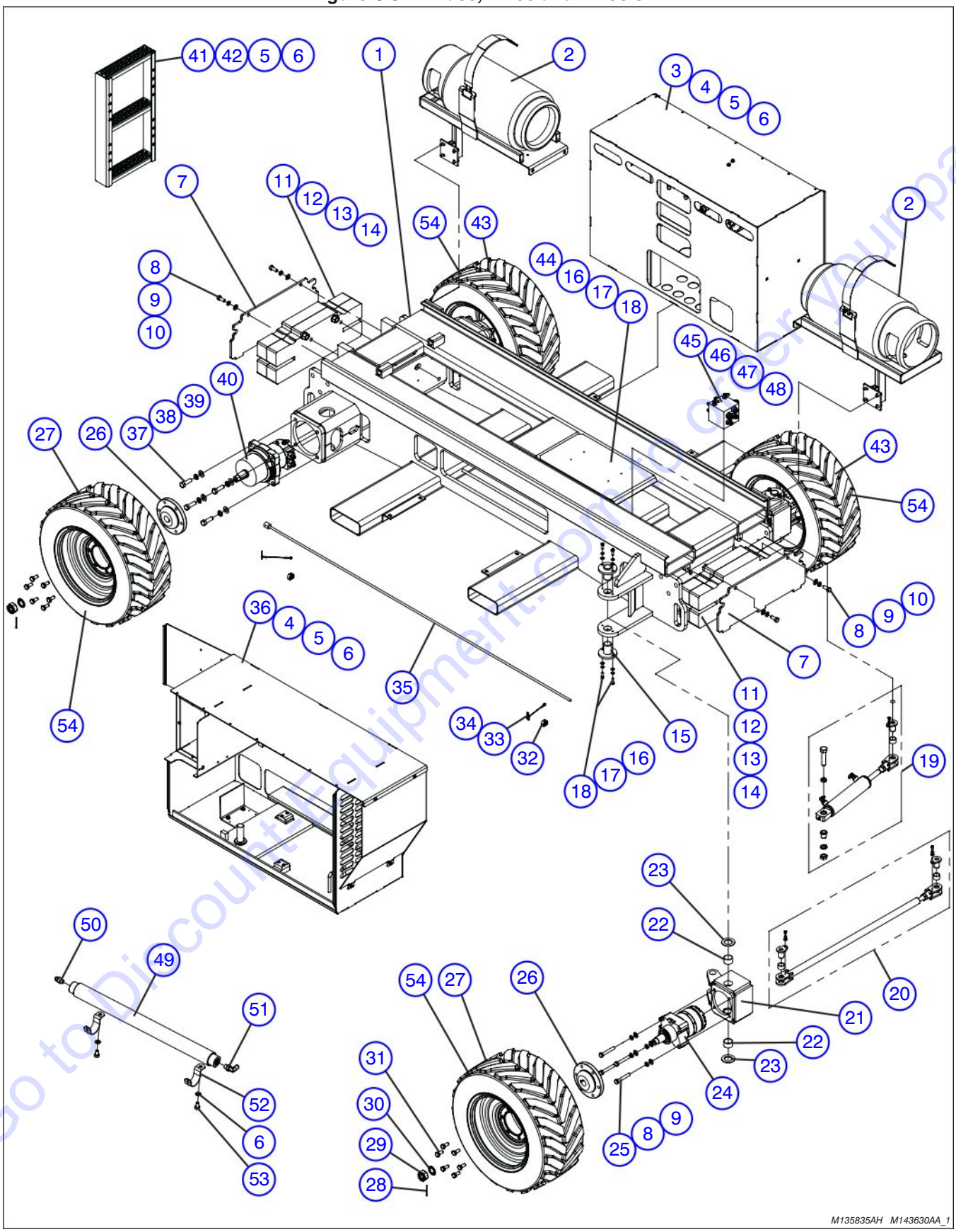


Figure 6.3-1. Base, Axles and Wheels (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
30	103969	4	WASHER, Internal tooth (1.125”, zinc)
31	103199	AR	BOLT, Wheel (1/2”-20 unf x 1.5”)
32	119920	2	CLIP, Vinyl coated
33	124160	2	PIN ASSEMBLY, Locking
34	103964	2	SCREW, Round head machine (10”-32 x 1/4”)
35	132477	1	ROD, Emergency lowering access
36	(Ref.)	-	ENGINE CABINET ASSEMBLY (For components, refer to Figure 6.3-15)
37	106795	AR	BOLT, Hex head (5/8”-11 x 2.25”, Grade 5)
38	700782	AR	WASHER, Flat (5/8”)
39	103998	AR	WASHER, Lock (5/8”)
40	(Ref.)	-	MOTOR, Rear wheel (For components, refer to Figure 6.3-8)
41	141798	1	WELDMENT, Ladder **(Model 6826)**
	141801	1	WELDMENT, Ladder **(Model 6832)**
42	101632	AR	BOLT, Hex-head (3/8”-16x 3/4”, Grade 5)
43	135904	AR	WHEEL ASSEMBLY, LH (26x12D) (foam filled, **Model 6826 & 6832**)
	141735	AR	WHEEL ASSEMBLY, LH (26x12D) (air filled, **only ANSI/CSA Model 6826 equipped with weights or outriggers**)
	142221	AR	WHEEL ASSEMBLY, LH (air filled with sealant, **only ANSI/CSA Model 6826 equipped with weights or outriggers**)
	141848	2	• LABEL, Tire sealant
44	137960	1	PLATE, Inverter mounting
45	(Ref.)	-	ASSEMBLY, Splitter manifold with fittings (For components, refer to Figure 6.3-5)
46	103856	AR	BOLT, Hex-head (1/4”-20 x 0.75”, Grade 5)
47	104000	AR	WASHER, Lock (1/4”)
48	103995	AR	WASHER, Flat (1/4”)
49	107752	1	CUSHION CYLINDER (If equipped)
50	103069	1	FITTING, Straight connector (6 SAE 37 - 6 ORB) (If equipped)
51	114578	1	FITTING, Elbow (6-6) (If equipped)
52	102971	2	BRACKET, Conduit (If equipped)
53	138464	2	BOLT, Hex head (0.375-16 x 0.625 grade 5) (If equipped)
54	147293	4	WHEEL ASSEMBLY (solid non-marking)

Figure 6.3-2. Propane Tray Assembly

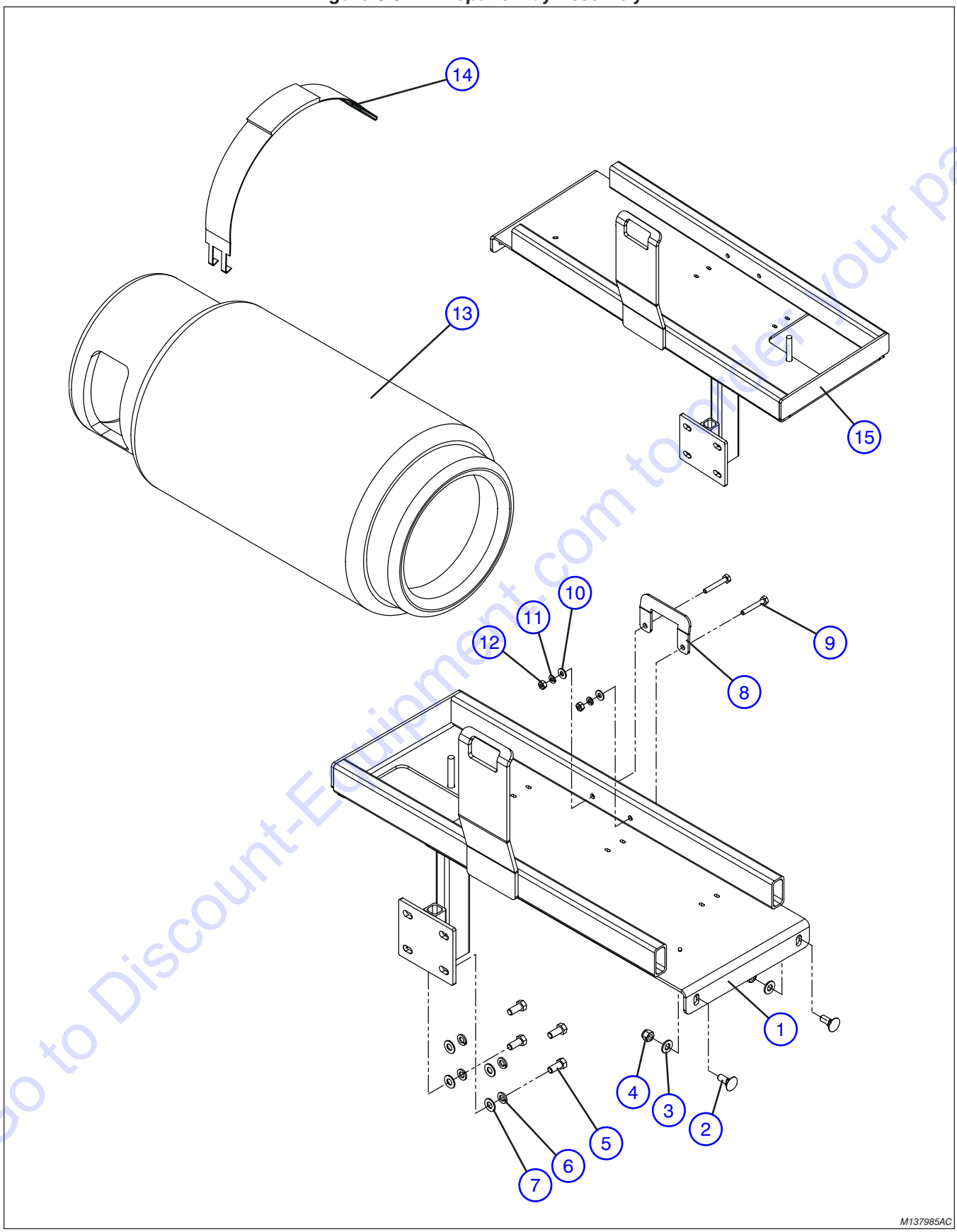


Figure 6.3-2. Propane Tray Assembly

Index No.	Skyjack Part No.	Qty.	Description
A	137985	-	PROPANE BOTTLE MOUNT ASSEMBLY, Rear
B	137265	-	PROPANE BOTTLE MOUNT ASSEMBLY, Front
1	137968	1	• WELDMENT, Propane bottle mount, A
2	125800	AR	• BOLT, Carriage (3/8” x 1”)
3	125959	AR	• WASHER, Flat hard (3/8”)
4	104606	AR	• NUT, Hex nylon lock (3/8”-16, Grade 5)
5	300437	AR	• BOLT, Hex head (3/8”-16 x 7/8”, Grade 5)
6	103999	AR	• WASHER, Lock (3/8”)
7	103472	AR	• WASHER, Flat (3/8”)
8	137814	1	• PLATE BRACKET, Propane tank strap
9	103860	AR	• BOLT, Hex head (1/4”-20 x 1.75”, Grade 5)
10	103995	AR	• WASHER, Flat (1/4”)
11	104000	AR	• WASHER, Lock (1/4”)
12	103980	AR	• NUT, Hex head (1/4”-20, Grade 5)
13	145976	1	• TANK, Propane
14	103020	1	• STRAP, Propane tank (2 Sets)
15	137256	1	• WELDMENT, Propane bottle mount, B

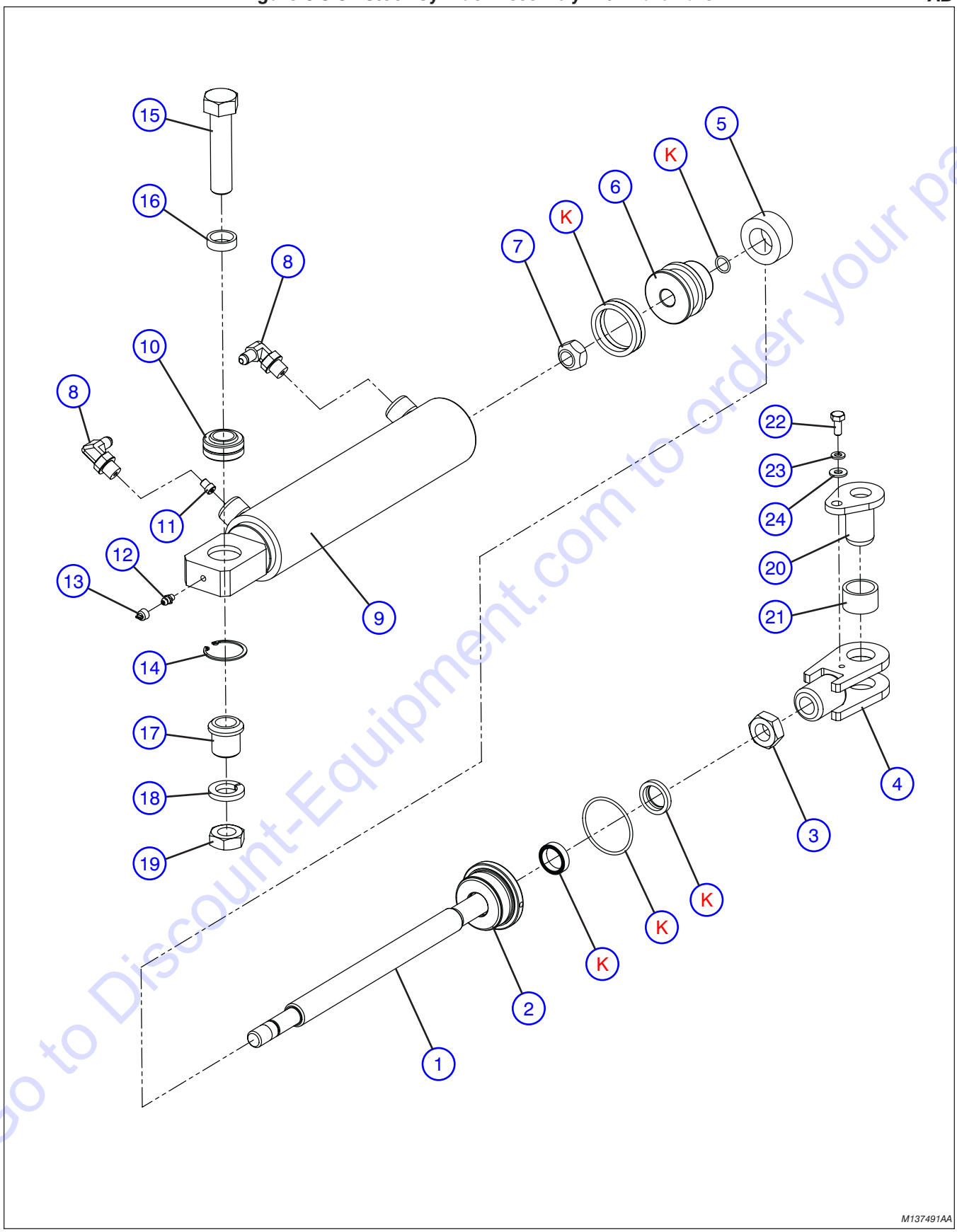
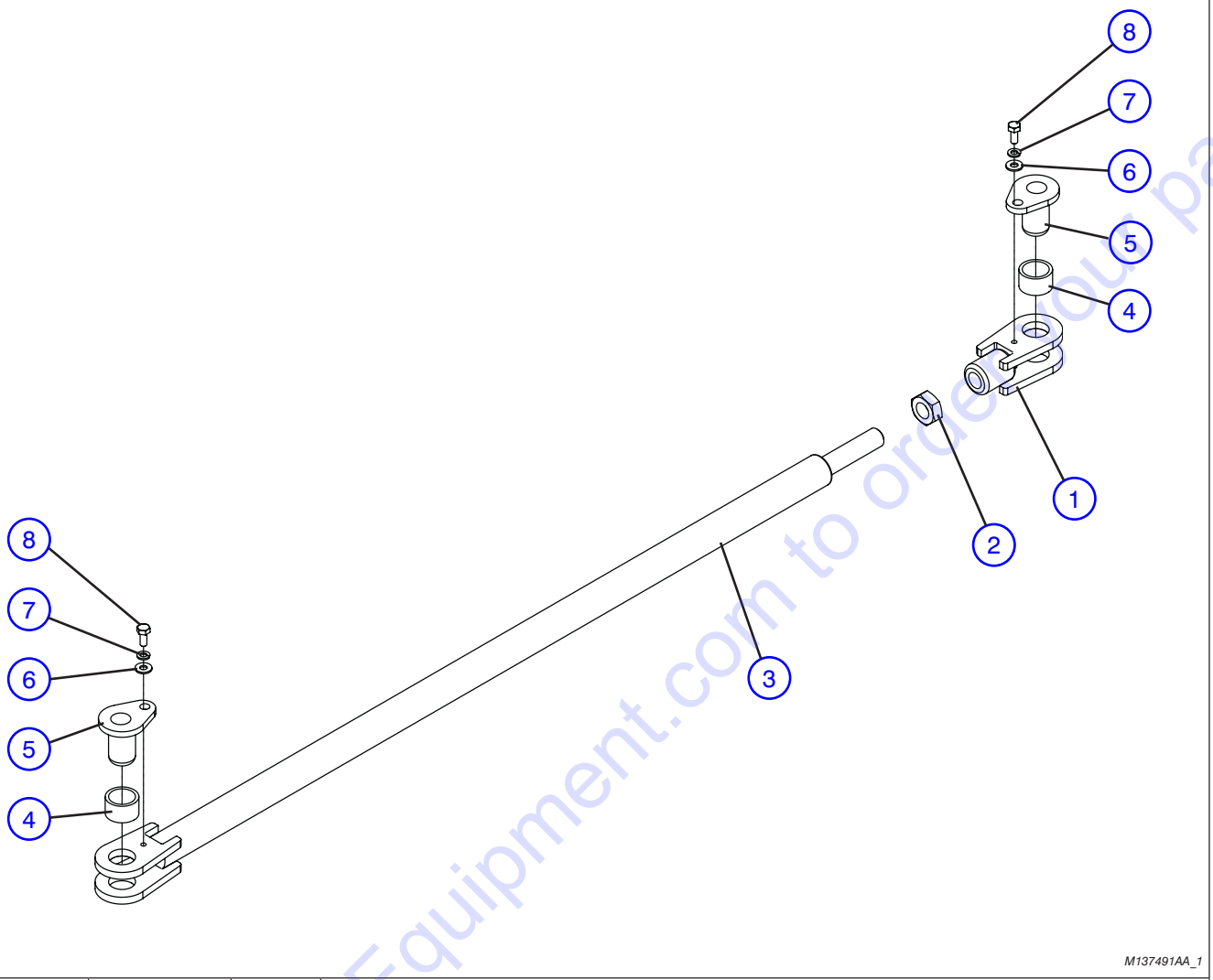


Figure 6.3-3. Steer Cylinder Assembly with Hardware **AD**

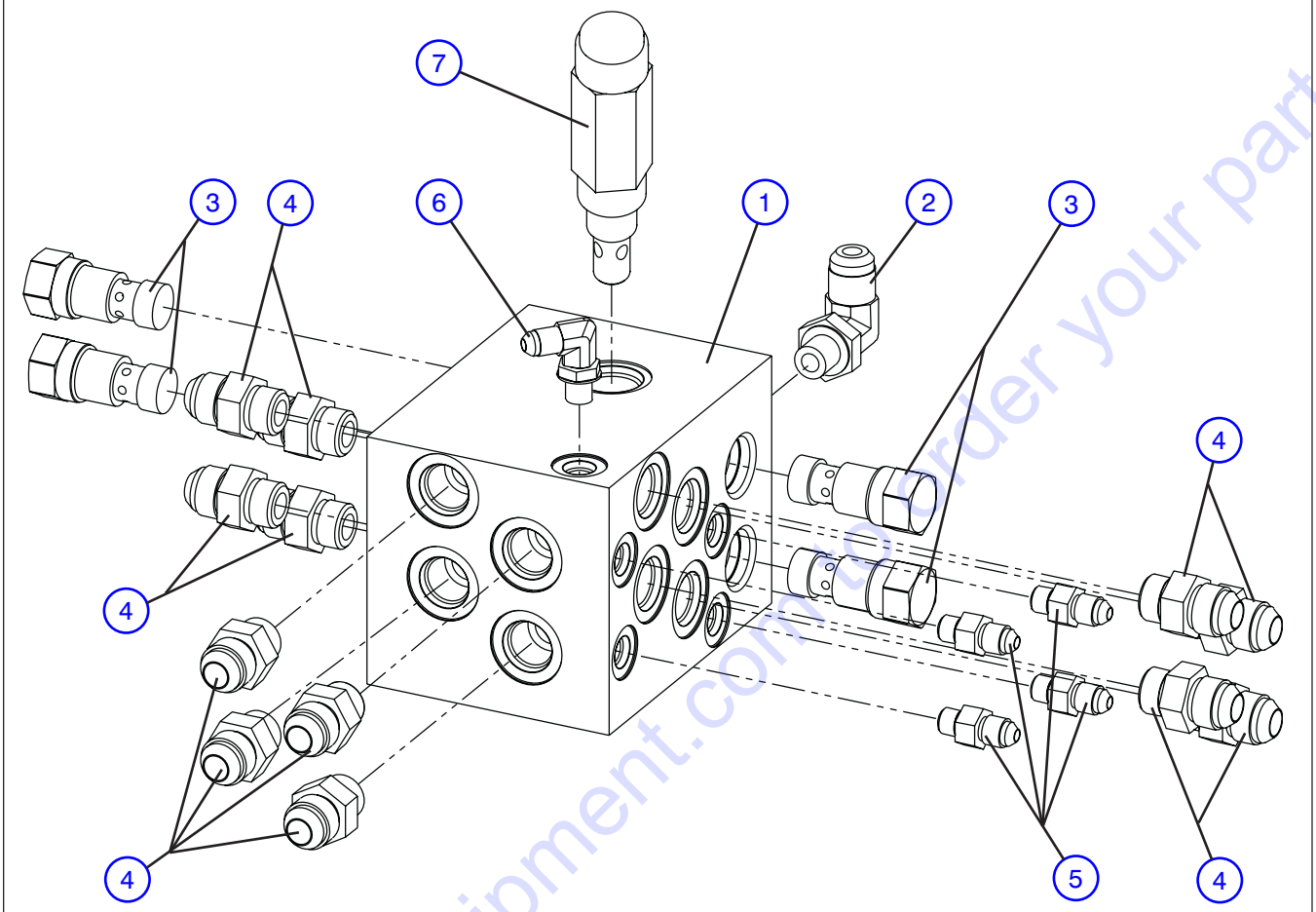
Index No.	Skyjack Part No.	Qty.	Description
-	135896	-	CYLINDER ASSEMBLY, Steer
1	136477	1	• ROD, Piston
2	120401	1	• GLAND, Steer cylinder (Universal)
3	100252	1	• NUT, Hex head jam (3/4”-10, Grade 5)
4	135895	1	• END, Cylinder rod (Female)
5	136479	1	• SPACER
6	120633	1	• PISTON, Steer cylinder (Universal)
7	103830	1	• NUT, Crownlock (5/8”-11, Grade C)
8	129127	2	• FITTING, Hydraulic elbow
9	120404	1	• WELDMENT, Cylinder barrel
10	102025	1	• BEARING, Spherical
11	139679	1	• ORIFICE, 0.375 OD X 0.55”
12	103513	1	• FITTING, Grease
13	132565	1	• CAP, Grease fitting
14	104114	1	• RING, Retaining
15	103893	1	BOLT, Hex head (3/4”-10 x 3-1/4”, Grade 8)
16	102028	1	SPACER, Steering clevis
17	113432	1	PIN, Steer cylinder
18	104002	1	WASHER , Lock (3/4”)
19	100252	1	NUT, Hex head jam (3/4”-10, Grade 5)
20	136519	1	PIN, Tie rod/steer cylinder
21	137811	1	BUSHING, Housing (1” x Ø 3/4”)
22	103892	1	BOLT, Hex head (1/4”-20 x 5/8”, Grade 5)
23	104000	1	WASHER, Lock (1/4”)
24	103995	1	WASHER, Flat (1/4”)
K	113443	1	KIT, Seal Repair

Figure 6.3-4. Tie Rod Assembly with Hardware



Index No.	Skyjack Part No.	Qty.	Description
1	142173	1	WELDMENT, Tie rod (Female end)
2	107947	1	NUT, Hex head jam (1-14, Grade 5)
3	135894	1	WELDMENT, Tie rod
4	137811	AR	BUSHING, Housing (1” Ø x 0.75”)
5	136519	AR	PIN,Tie rod/steer cylinder
6	103995	AR	WASHER, Flat (1/4”)
7	104000	AR	WASHER, Lock (1/4”)
8	103892	AR	BOLT, Hex-head (1/4”-20 x 0.625”, Grade 5)

Figure 6.3-5. Splitter Manifold



Index No.	Skyjack Part No.	Qty.	Description
-	138045	1	SPLITTER MANIFOLD ASSEMBLY
1	139450	1	• MANIFOLD, Splitter with plugs
2	114582	1	• FITTING, 6-8 O-ring elbow
3	104624	4	• VALVE, Pilot Check
4	102659	12	• FITTING, Connector (8 SAE - 8 JIC)
5	126128	4	• FITTING, Connector (4 SAE - 4 JIC)
6	125883	1	• FITTING, Hydraulic 90° (04MJ04MB)
7	139683	1	• VALVE, Relief

Figure 6.3-6. Splitter Manifold Plumbing

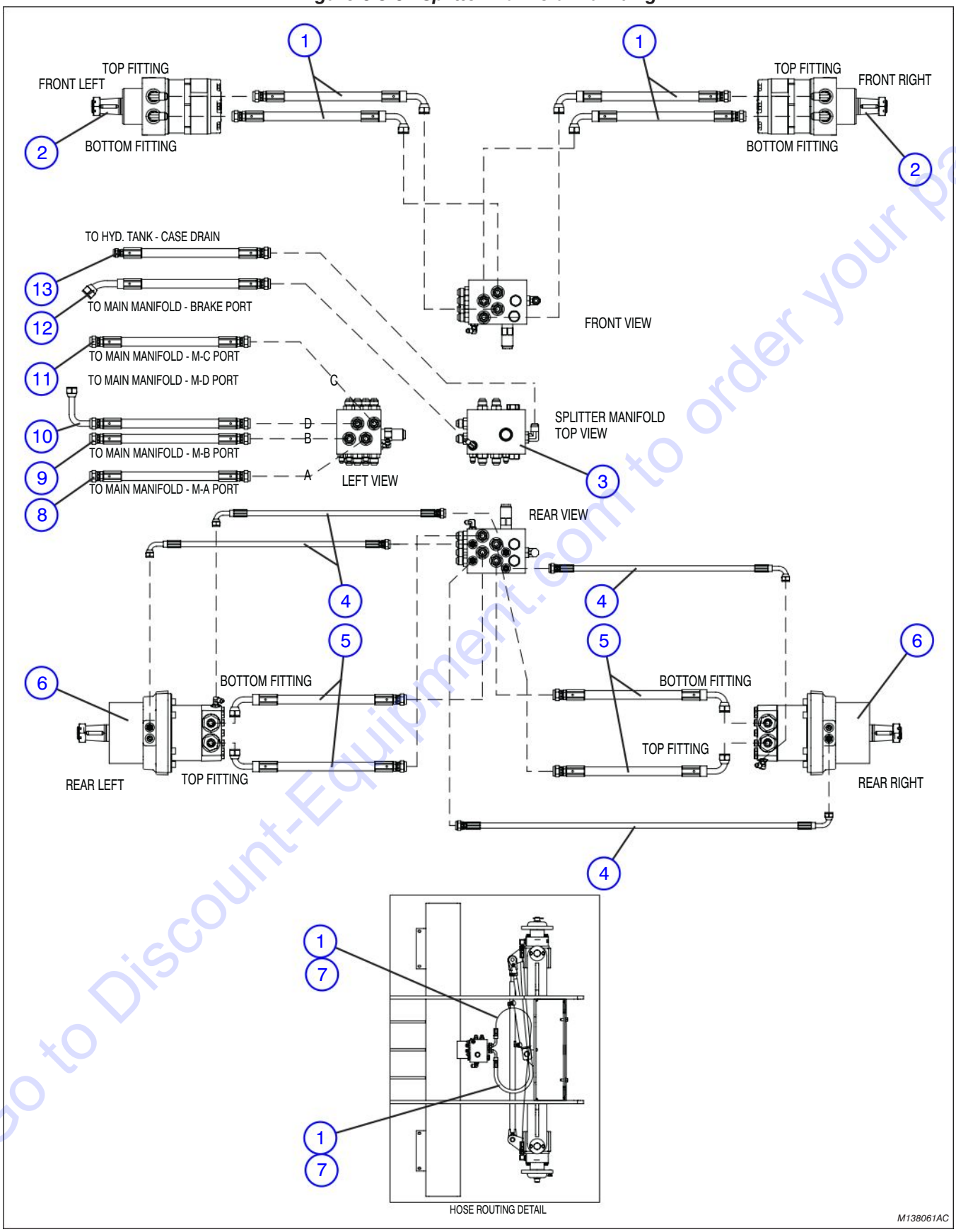
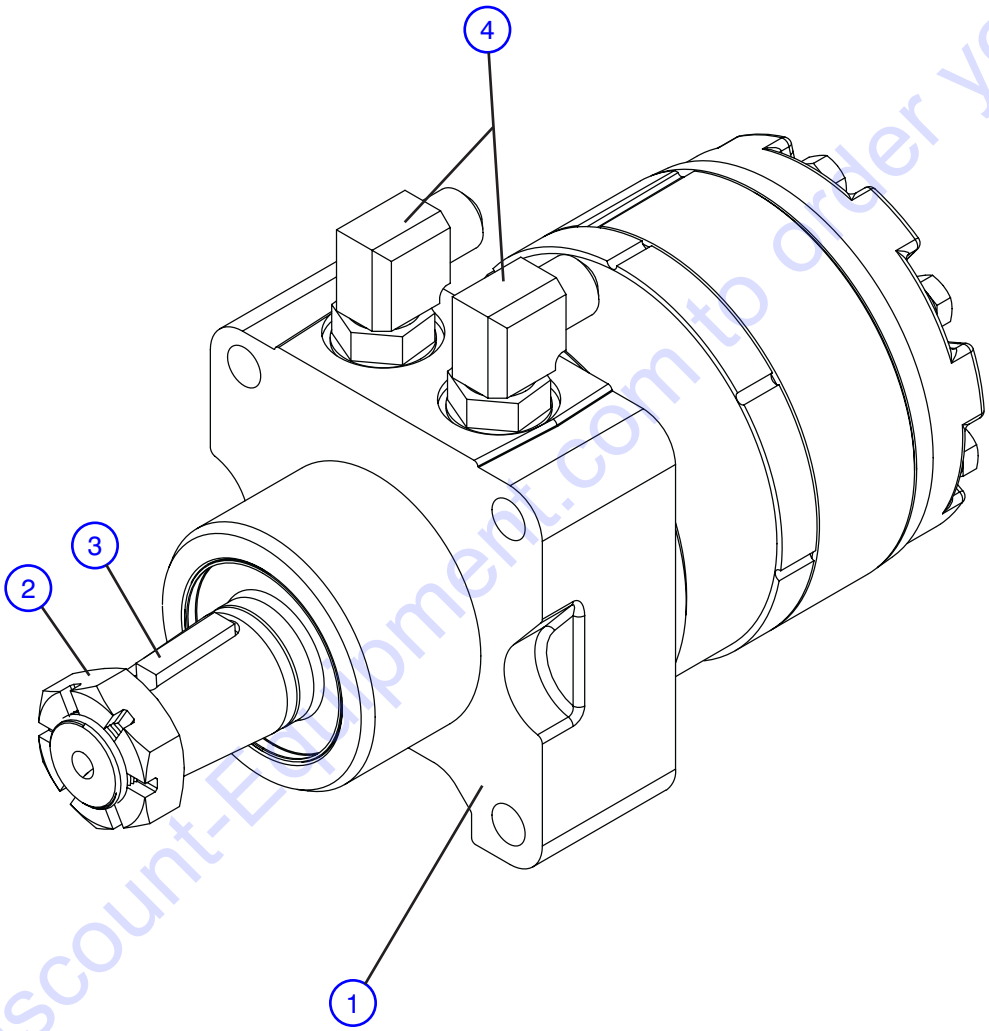


Figure 6.3-6. Splitter Manifold Plumbing

Index No.	Skyjack Part No.	Qty.	Description
1	140902	AR	HOSE, Hydraulic line (1/2” DIA x 41”)
2	(Ref.)	-	MOTOR, Wheel front (For components, refer to Figure 6.3-7)
3	(Ref.)	-	ASSEMBLY, Splitter manifold (For components, refer to Figure 6.3-5)
4	140901	AR	HOSE, Hydraulic line (1/4” DIA x 81”)
5	140900	AR	HOSE, Hydraulic line (1/2” DIA x 75”)
6	(Ref.)	-	MOTOR, Wheel rear (For components, refer to Figure 6.3-8)
7	140914	AR	SLEEVE, Nylon hose protector
8	140904	1	HOSE, Hydraulic line (1/2” DIA x 64”)
9	140905	1	HOSE, Hydraulic line (1/2” DIA x 62”)
10	140906	1	HOSE, Hydraulic line (1/2” DIA x 65”)
11	110473	1	HOSE, Hydraulic line (1/2” DIA x 60”)
12	140903	1	HOSE, Hydraulic line (1/4” DIA x 50”)
13	137826	1	HOSE, Hydraulic line (1/4” DIA x 50”)

Figure 6.3-7. Front Wheel Motor

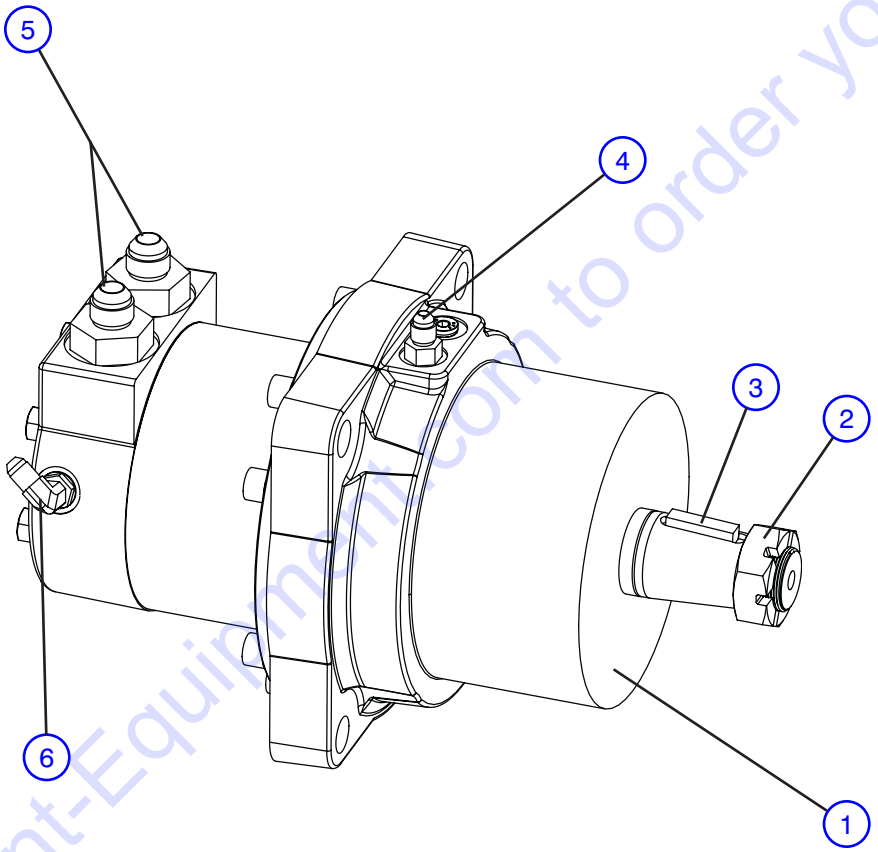


M138039AC

Figure 6.3-7. Front Wheel Motor

Index No.	Skyjack Part No.	Qty.	Description
1	141656	-	MOTOR, Front wheel
2	139342	1	• NUT, Castle
3	139508	1	• KEY, Shaft
	139520	AR	• KIT, Seal repair
4	132256	2	FITTING, 90° (8 JIC-10 SAE NWO)

Figure 6.3-8. Rear Wheel Motor

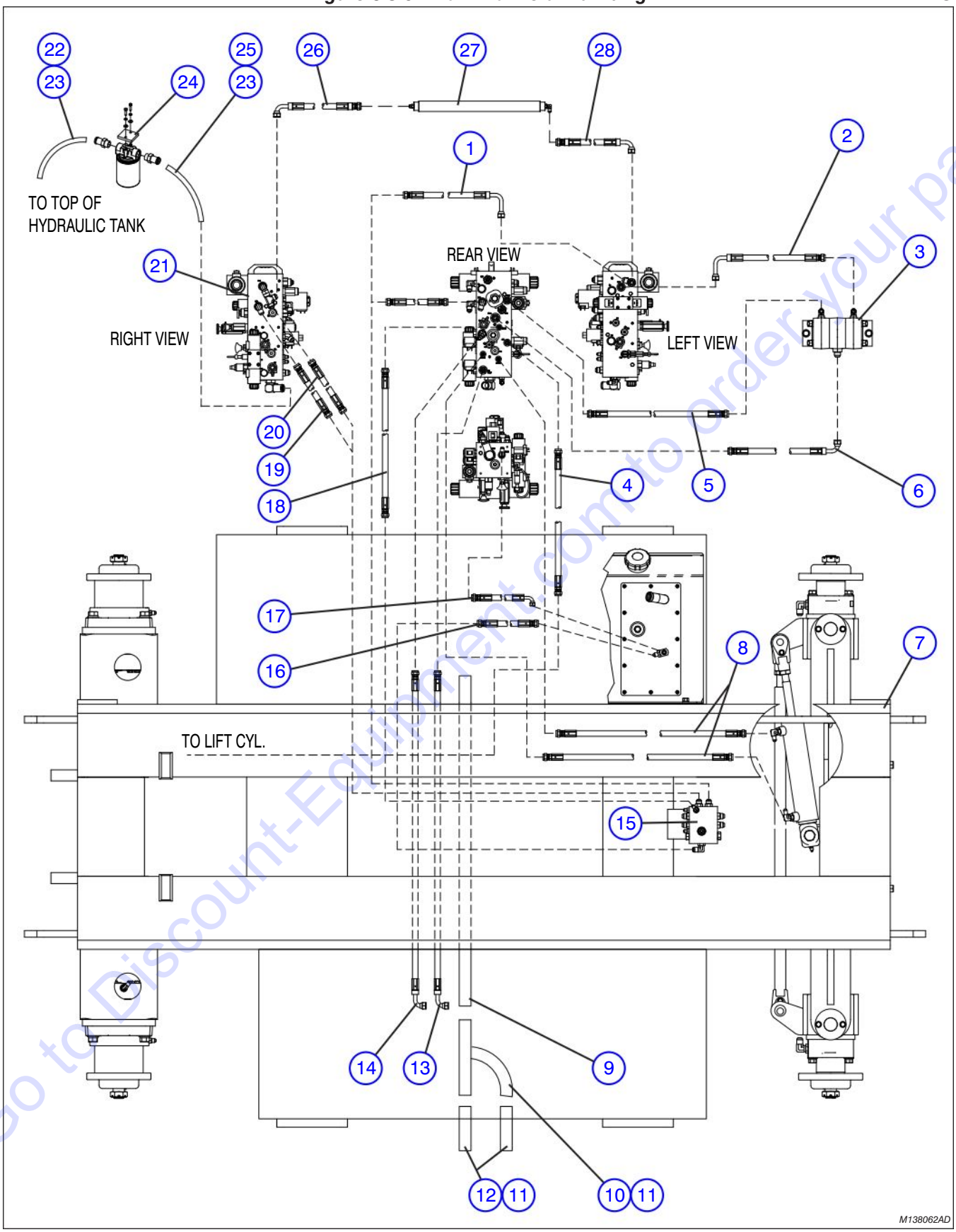


M138043AA

Figure 6.3-8. Rear Wheel Motor

Index No.	Skyjack Part No.	Qty.	Description
1	141657	-	MOTOR, Rear wheel
2	139342	1	• NUT, Castle
3	139508	1	• KEY, Shaft
	139542	AR	• KIT, Seal repair
4	126128	1	FITTING, Connector (4 SAE - 4 JIC)
5	105446	2	FITTING, Connector (12 SAE - 8 JIC)
6	125883	1	FITTING, Hydraulic 90° (04MJ04MB)

Figure 6.3-9. Main Manifold Plumbing **AC**



Index No.	Skyjack Part No.	Qty.	Description
1	143653	1	HOSE, Hydraulic line (1/2” DIA x 67”) ***(Machines with S/N 370019 & above)***
	140906	1	HOSE, Hydraulic line (1/2” DIA x 65”) ***(Machines with S/N 370018 & below)***
2	137818	1	HOSE, Hydraulic line (1/2” DIA x 29”)
3	(Ref.)	-	FLOW DIVIDER, Gear type (For components, refer to Figure 6.3-10)
4	(Ref.)	-	HOSE, Hydraulic line (3/8” DIA x 84”) (Refer to Figure 6.2-7)
5	137819	1	HOSE, Hydraulic line (1/2” DIA x 24”)
6	137831	1	HOSE, Hydraulic line (5/8” DIA x 20”)
7	(Ref.)	1	ASSEMBLY, Base (For components, refer to Figure 6.3-1)
8	137820	2	HOSE, Hydraulic line (1/4” DIA x 68”)
9	137821	1	HOSE, Suction (1-1/4” DIA x 44”)
10	137204	1	TUBE, Suction
11	114326	AR	CLAMP, Hose (1.58”)
12	133654	2	HOSE, Tank truck (1-1/4” DIA x 3.5”)
13	137816	1	HOSE, Hydraulic line (1/2” DIA x 77”)
14	102463	1	HOSE, Hydraulic line (1/2” DIA x 84”)
15	(Ref.)	1	ASSEMBLY, Splitter manifold (For components, refer to Figure 6.3-5)
16	140907	1	HOSE, Hydraulic line (1/2” DIA x 62”)
17	137832	1	HOSE, Hydraulic line (3/8” DIA x 35”)
18	140903	1	HOSE, Hydraulic line (1/4” DIA x 50”)
19	140905	1	HOSE, Hydraulic line (1/2” DIA x 62”)
20	140904	1	HOSE, Hydraulic line (1/2” DIA x 64”)
21	(Ref.)	1	ASSEMBLY, Main manifold (For components, refer to Figure 6.3-13)
22	136454	1	HOSE, (1” DIA x 11”)
23	103320	AR	CLAMP, Gear (#16)
24	(Ref.)	1	ASSEMBLY, Filter (For components, refer to Figure 6.3-10)
25	137485	1	HOSE, (1” DIA x 41.5”)
26	143615	1	HOSE, Hydraulic line (3/8” DIA x 51”) ***(Machines with S/N 370019 & above)***
27	(Ref.)	1	CYLINDER, Cushion ***(Machines with S/N 370019 & above)*** (For components, refer to Figure 6.3-1)
28	143616	1	HOSE, Hydraulic line (3/8” DIA x 72”) ***(Machines with S/N 370019 & above)***

Figure 6.3-10. Hydraulic Cabinet Assembly

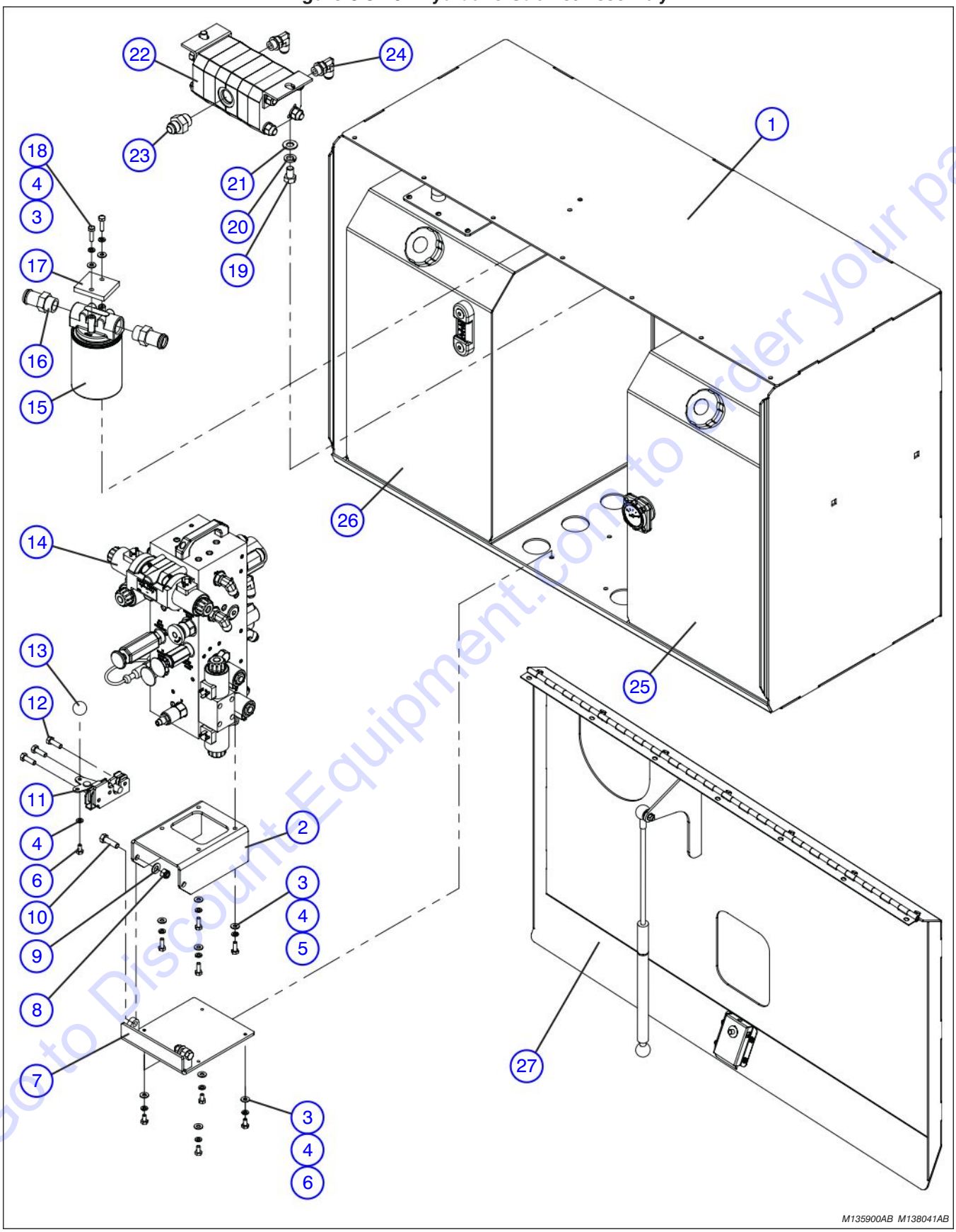
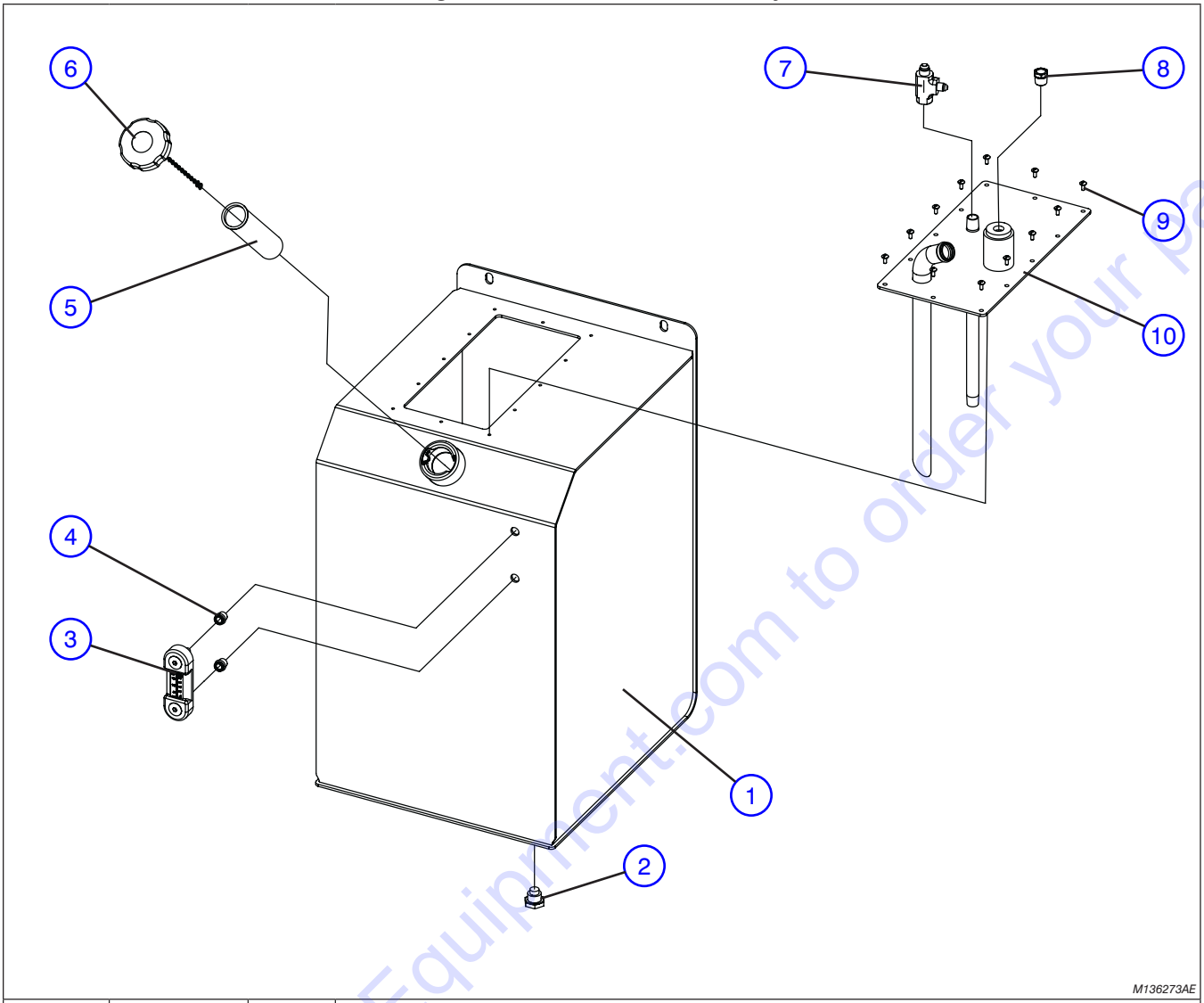


Figure 6.3-10. Hydraulic Cabinet Assembly

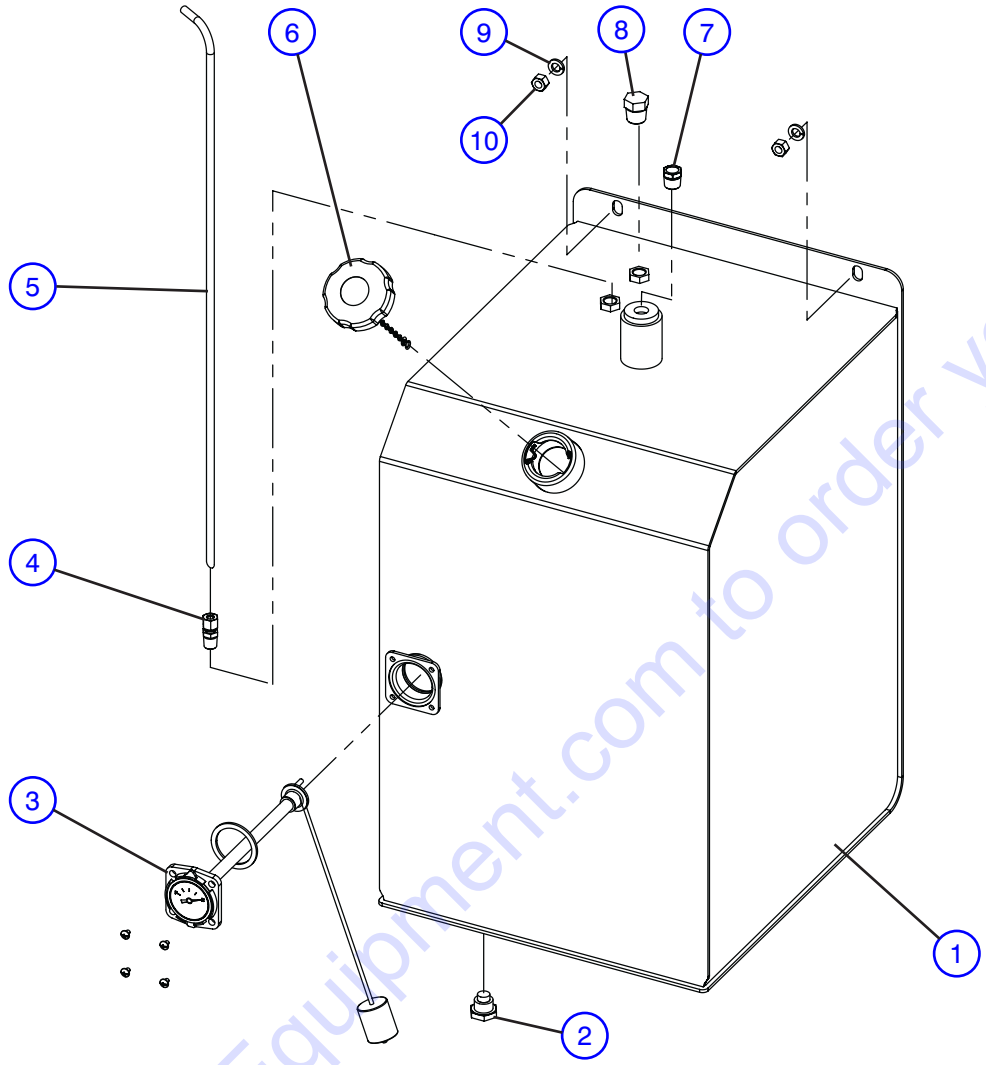
Index No.	Skyjack Part No.	Qty.	Description
-	135900	-	HYDRAULIC CABINET ASSEMBLY
1	136352	1	• WELDMENT, Hydraulic cabinet
2	137252	1	• WELDMENT, Manifold baseplate
3	103995	AR	• WASHER, Flat (1/4”)
4	104000	AR	• WASHER, Lock (1/4”)
5	103856	AR	• BOLT, Hex head (1/4”-20 x 3/4”, Grade 5)
6	103855	AR	• BOLT, Hex head (1/4”-20 x 1/2”, Grade 5)
7	137250	1	• WELDMENT, Mounting plate
8	104606	2	• NUT, Hex nylon lock (3/8”-16, Grade 5)
9	103472	AR	• WASHER, Flat (3/8”)
10	101297	AR	• BOLT, Hex head (3/8”- 16 x 1-1/4”, Grade 5)
11	102781	1	• LATCH, Rotary LH
12	103864	AR	• BOLT, Hex head (5/16”-18 x 1”, Grade 5)
13	111534	1	• KNOB, Latch
14	(Ref.)	-	• ASSEMBLY, Main manifold (For components, refer to Figure 6.3-13)
15	136405	1	• ASSEMBLY, Filter
	136403	1	• • HEAD, Oil filter
	108628	1	• • FILTER, Oil
16	112187	2	• FITTING, Hose barb
17	137450	1	• PLATE, Return filter mount
18	103857	AR	• BOLT , Hex head (1/4”-20 x 1”, Grade 5)
19	116997	AR	• BOLT , Hex head (1/2”-13 x 3/4”, Grade 5)
20	103470	AR	• WASHER, Lock (1/2”)
21	104379	AR	• WASHER, Flat (1/2”)
22	137185	1	• FLOW DIVIDER, Gear type
23	137490	1	• FITTING, Straight connector (12 SAE -10 JIC)
24	114583	2	• FITTING, Adjustable o-ring (37° flared elbow)
25	(Ref.)	-	TANK ASSEMBLY, Fuel (For components, refer to Figure 6.3-12)
26	(Ref.)	-	TANK ASSEMBLY, Oil (For components, refer to Figure 6.3-11)
27	(Ref.)	-	DOOR, Hydraulic cabinet (For components, refer to Figure 6.3-14)

Figure 6.3-11. Oil Tank Assembly



Index No.	Skyjack Part No.	Qty.	Description
-	136273	1	TANK ASSEMBLY, Oil
1	136259	1	• TANK, Oil
2	117701	1	• FITTING, Magnetic drain plug
3	103236	1	• GAUGE, Oil level/temp
4	124311	2	• • INSERT, Threaded
5	132128	1	• SCREEN
6	136369	1	• CAP, Filler non-vented assembly
7	139468	1	• FITTING, Tee hydraulic
8	137540	1	• VENT, Breather
9	103962	AR	• BOLT, Machine head (#10-32 x 1/2”)
10	136262	1	• LID, Oil tank

Figure 6.3-12. Gas Tank Assembly



Index No.	Skyjack Part No.	Qty.	Description
-	136272	1	TANK ASSEMBLY, Fuel
1	136258	1	• TANK, Fuel
2	117701	1	• THREAD STRAIGHT MAGNETIC PLUG ASSEMBLY
	149606	1	• • PLUG, Thread straight magnetic
	120190	1	• • SEAL, Thread straight magnetic plug
3	136427	1	• GAUGE, Level
4	103155	1	• FITTING, Brass tank (#T68-5B)
5	136289	1	• TUBE, Suction
6	136369	1	• CAP, Filler non-vented assembly
7	137540	1	• VENT, Breather
8	102932	1	• PLUG, Pressure
9	125959	AR	WASHER, Flat hardened (3/8”)
10	104606	AR	NUT, Hex lock nylon insert (3/8”-16, Grade 5)

Figure 6.3-13. Main Manifold

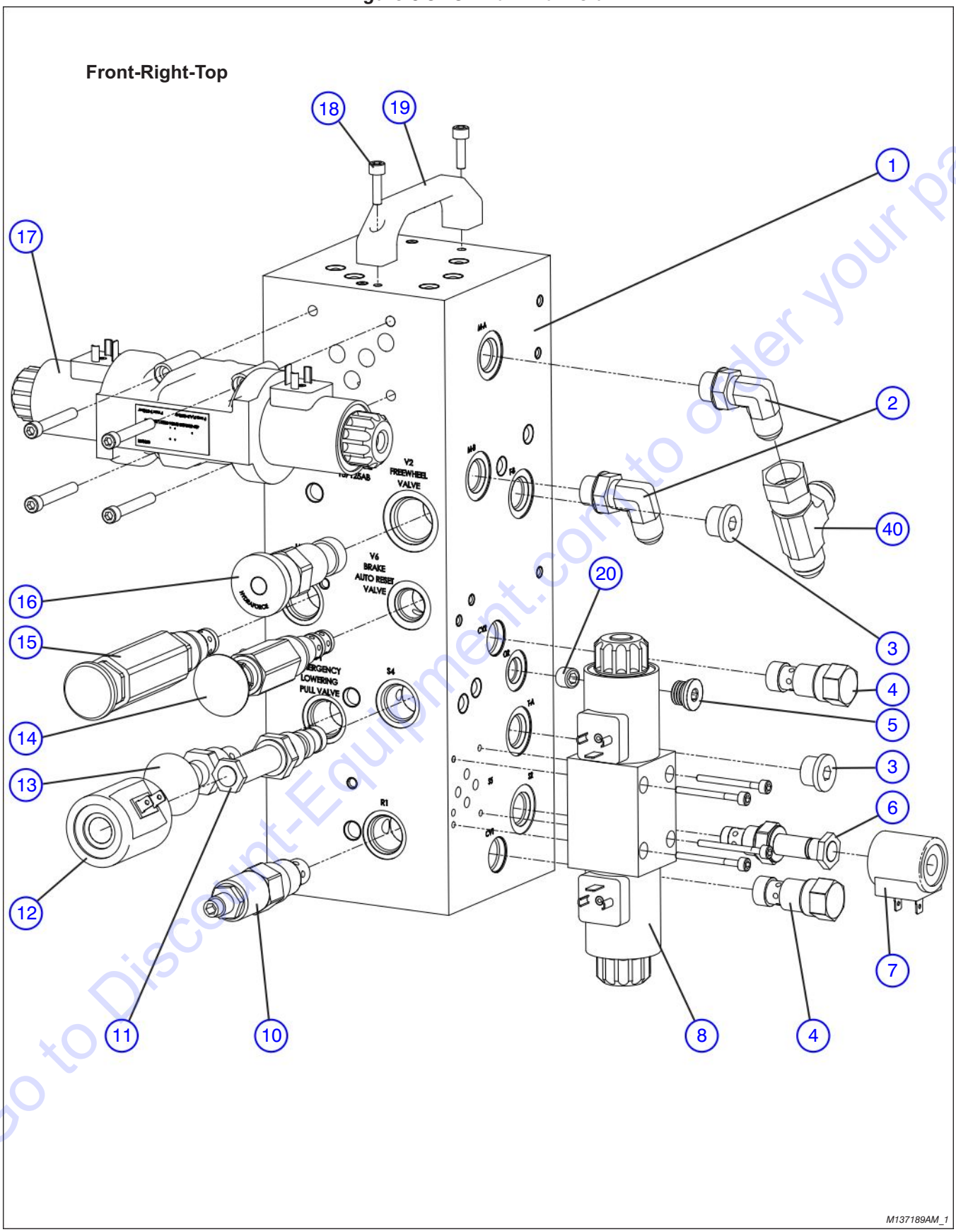


Figure 6.3-13. Main Manifold

Index No.	Skyjack Part No.	Qty.	Description
-	137189	1	MAIN MANIFOLD ASSEMBLY
1	137125	1	• MANIFOLD, Main with plugs
2	114583	3	• FITTING, Adjustable o-ring - 37° flared elbow
3	115320	3	• FITTING, Hydraulic plug (08MB) (No outriggers)
4	104624	2	• VALVE, Pilot check
5	104437	4	• FITTING, Plug (6 SAE - 6 JIC) (Port)
6	103656	1	• VALVE, Small pump dump
7	103613	3	• COIL, 12 Volt
8	128797	1	• VALVE ASSEMBLY, Directional spool w/ mounts
	128318	1	• • VALVE ASSEMBLY, Directional spool
	128321	2	• • • COIL, 12 Volt
	103919	4	• • BOLT, Socket head(#10-24 x 1-3/4", Grade 5)
9	128318	1	• VALVE ASSEMBLY, Directional spool
	128321	2	• • COIL, 12 Volt
10	104534	2	• VALVE, Relief
11	106273	1	• VALVE, Lift
12	106272	2	• COIL, #10, 12 Volt
13	107271	1	• VALVE, Manual directional
14	113752	1	• VALVE, Auto reset
15	110652	1	• PUMP, Cavity hand
16	137182	1	• VALVE, Needle cartridge NV12-20
17	139257	1	• VALVE ASSEMBLY, Directional spool w/ mounts ***(Machines with S/N 370018 & Above)***
	139256	1	• • VALVE ASSEMBLY, Directional spool
	128321	2	• • • COIL, 12 Volt
	103942	4	• • BOLT, Socket head (1/4"-20 x 1-3/4", Grade 5)
	128796	1	• VALVE ASSEMBLY, Directional spool w/ mounts ***(Machines S/N 370017 & Below)***
	128319	1	• • VALVE ASSEMBLY, Directional spool
	128322	2	• • • COIL, 12 Volt
	103942	4	• • BOLT, Socket head (1/4"-20 x 1-3/4", Grade 5)
18	103941	2	• BOLT, Socket (1/4"-20 x 3/4", Grade 5)
19	137653	1	• HANDLE, Pull
20	137510	2	• ORIFICE, Lowering (Ø 0.106) **(Model 6826)**
	137509	2	• ORIFICE, Lowering (Ø 0.089) **(Model 6832)**
21	102659	AR	• FITTING, Connector (8 SAE - 8 JIC)
22	103923	4	• BOLT, Socket head(#10-24 x 3-1/2", Grade 5)
23	103655	1	• VALVE, Lowering (N.C.)

Part list continued on the following page.

Back-Left-Bottom

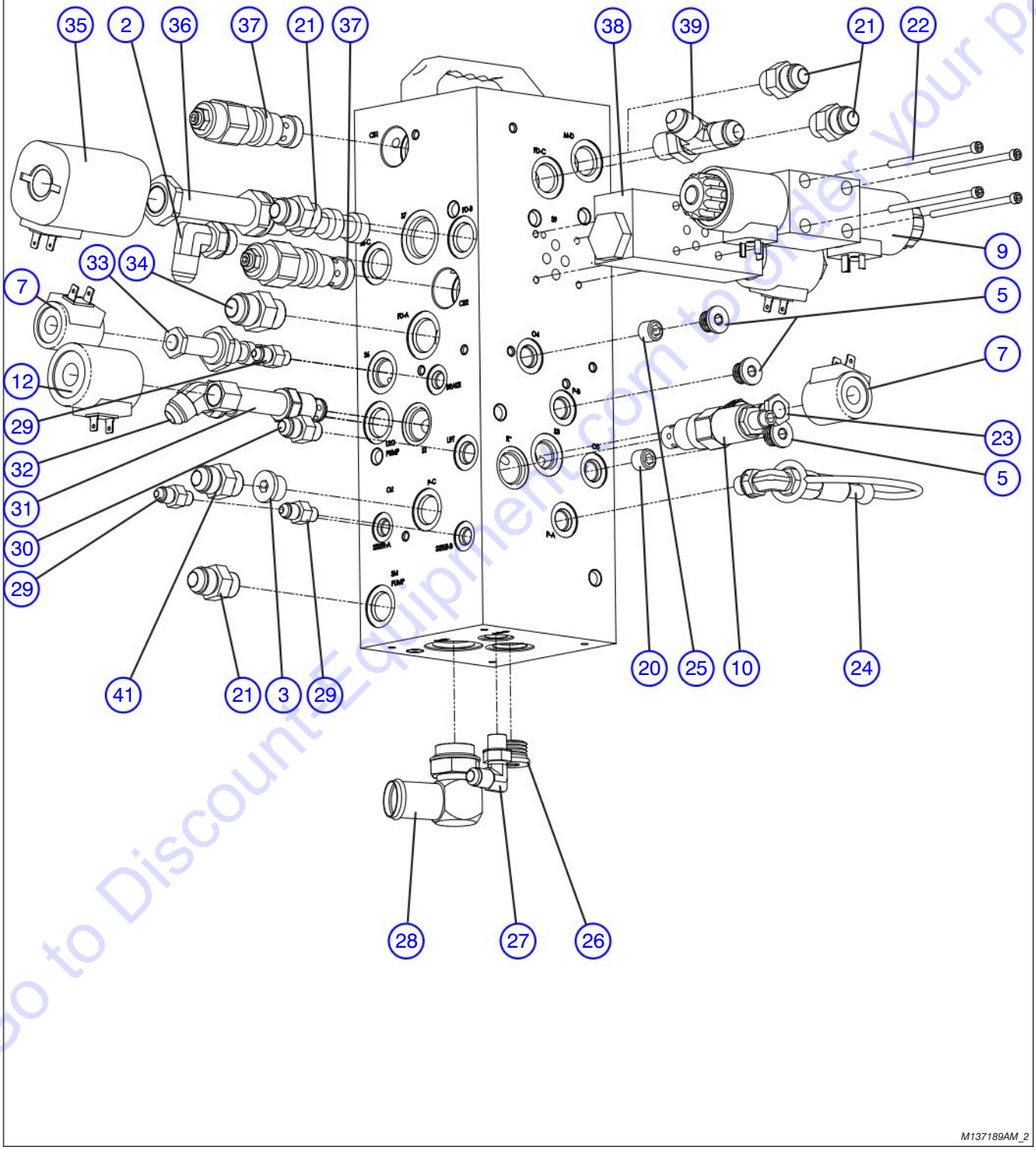
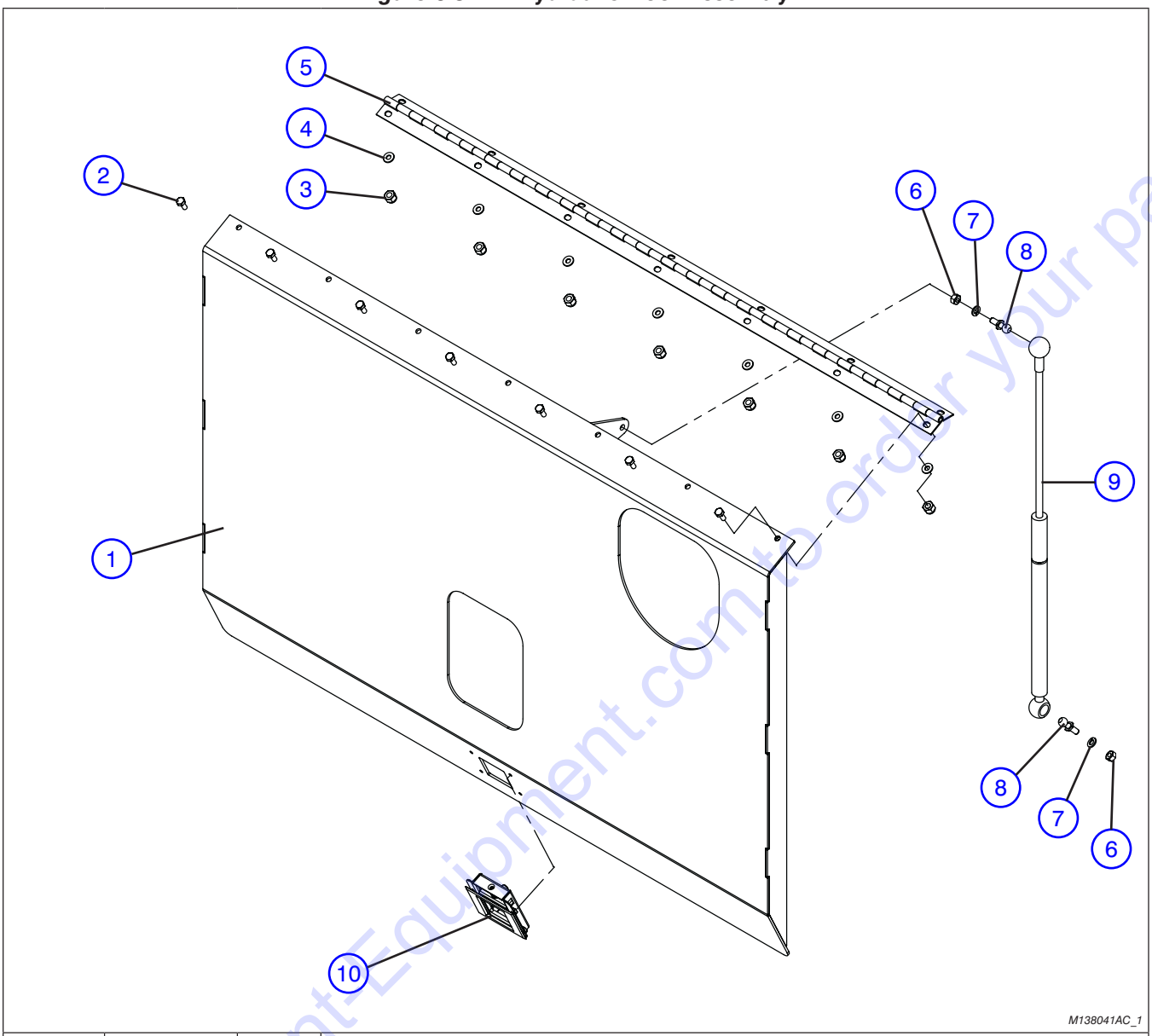


Figure 6.3-13. Main Manifold (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
24	122419	1	• ASSEMBLY, Quick disconnect (system pressure)
	122365	1	• • FITTING, Connector (6 SAE - 6 JIC)
	122385	1	• • COUPLER, Quick
	114521	1	• • DUST CAP, 600 Series
25	137508	1	• ORIFICE, Brake (Ø 0.028)
26	137629	1	• FITTING, Plug cavity (#12)
27	114578	1	• FITTING, Elbow 90° (6 SAE - 6 JIC)
28	137626	1	• FITTING, Hydraulic 90° (SAE-12 to Barb-16)
29	126128	3	• FITTING, Connector (4 SAE - 4 JIC)
30	103069	1	• FITTING, Connector (6 SAE - 6 JIC)
31	114365	1	• VALVE, Large pump dump (N.O.)
32	139739	1	• FITTING, Elbow 45° (8 SAE - 8 JIC)
33	103623	1	• VALVE, Brake feed
34	137630	1	• FITTING, Connector (10 SAE - 10 JIC)
35	137513	1	• COIL (#12, 12 Volt)
36	139351	1	• VALVE, Series/Parallel
37	137181	2	• VALVE, Cartridge counterbalance
38	139830	1	• ASSEMBLY, Sandwich valve
	140898	1	• • BLOCK, Sandwich manifold
	140897	1	• • PLUG, Cavity
	139834	4	• • O-RING
	106272	1	• • COIL, 12V
	111937	1	• • VALVE, Solenoid
39	106170	1	• FITTING, Tee swivel (8 JIC) ***(AWP with S/N 370019 & above)***
40	110554	1	• FITTING, Tee (08JICM - 08 JICM - 08 ORBM) ***(AWP with S/N 370019 & above)***
41	103070	1	• FITTING, Connector (8 SAE - 6 JIC) (Outrigger option)

Figure 6.3-14. Hydraulic Door Assembly



Index No.	Skyjack Part No.	Qty.	Description
-	138041	-	HYDRAULIC DOOR ASSEMBLY
1	136355	1	• DOOR, Hydraulic cabinet
2	103892	AR	• BOLT, Hex head (1/4”-20 x 5/8”, Grade 5)
3	115649	AR	• NUT, Hex nylon lock (1/4”-20, Grade 5)
4	103995	AR	• WASHER, Flat (1/4”)
5	136996	1	• HINGE, Cabinet door
6	103984	AR	• NUT, Hex head (5/16”-18, Grade 5)
7	103404	AR	• WASHER, Lock (5/16”)
8	138026	AR	• STUD, Ball (13mm)
9	137183	1	• GAS SPRING (10” stroke)
10	137005	1	• LATCH, Sliding with trimplate

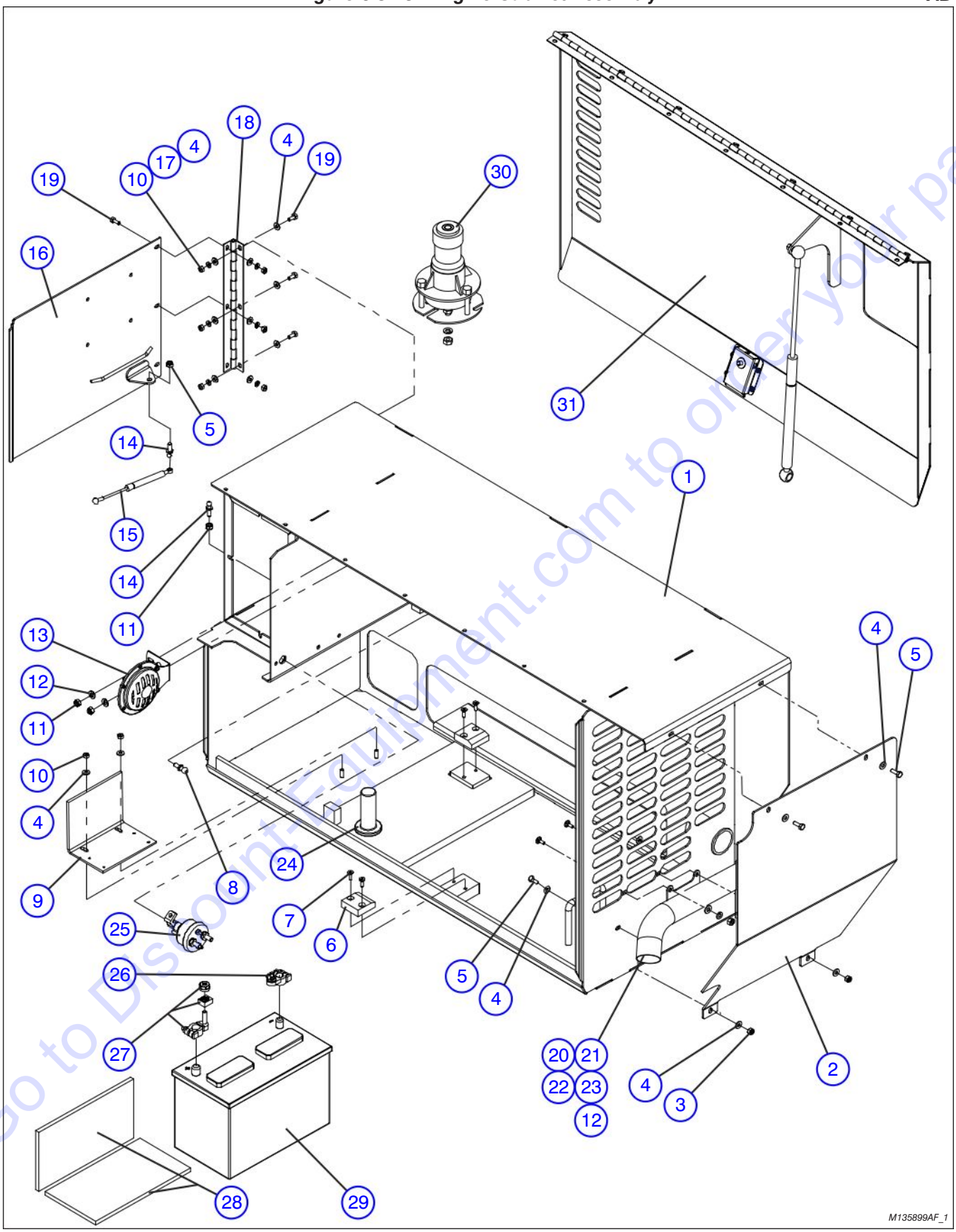


Figure 6.3-15. Engine Cabinet Assembly

Index No.	Skyjack Part No.	Qty.	Description
-	135899	-	ENGINE CABINET ASSEMBLY
1	147812	1	• WELDMENT, Engine cabinet
			(Order Part # 136351 for Machines with Serial #'s 37002061 and Below)
2	147824	1	• WELDMENT, Mud guard
			(Order Part # 137835 for Machines with Serial #'s 37002061 and Below)
3	115649	4	• NUT, Hex nylon lock (1/4"-20, Grade 5)
4	103995	19	• WASHER, Flat (1/4")
5	103856	4	• BOLT, Hex head (1/4"-20 x 3/4", Grade 5)
6	136395	2	• UHMW BLOCK, Engine cabinet
7	139688	4	• SCREW, Flat head machine (1/4"-20 x 1")
8	138026	1	• STUD, Ball (13mm)
9	137246	1	• BRACKET, Battery
10	103980	8	• NUT, Hex head (1/4"-20, Grade 5)
11	103984	2	• NUT, Hex nylon lock (5/16"-18, Grade 5)
12	103996	4	• WASHER, Flat (5/16")
13	102850	1	• HORN, 12 Volt
14	138025	2	• STUD, Ball (10mm)
15	137184	1	• GAS SPRING (2.5" stroke)
16	137135	1	• DOOR, Instrumentation panel
17	104000	4	• WASHER, Lock (1/4")
18	137016	1	• HINGE, Instrumentation panel
19	103892	6	• BOLT, Hex head (1/4"-20 x 0.62", Grade 5)
20	147590	1	• WELDMENT, Exhaust tube ***(Machines with S/N 37002062 & Above)***
21	110814	2	• CARRIAGE BOLT, (0.313-18 x 0.75, Grade 5) ***(Machines with S/N 37002062 & Above)***
22	103404	2	• WASHER, Lock (0.312) ***(Machines with S/N 37002062 and Above)***
23	100397	2	• NUT, Hex head (0.312-18, Grade 5) ***(Machines with S/N 37002062 & Above)***
24	107952	1	WASHER, Bronze (1-1/4" Inner DIA x 2-3/8" Outer DIA x 1/8")
25	119726	1	SWITCH, 12V Main disconnect
26	128620	1	ADAPTER, Negative battery post to 5/16" stud
27	128632	1	ADAPTER ASSEMBLY, 300A fuse positive battery post
	128596	1	• CLAMP, Battery post single
	128595	1	• FUSE, 300A
	128597	1	• NUT, Battery post insulated
28	112125	2	PLYWOOD, (3/8*6*11)
29	103295	1	BATTERY, 12V (WET)
30	139263	1	ASSEMBLY, Tilt switch **(ANSI/CSA, No outriggers)**
	117880	1	• SWITCH, Tilt 2.5 / 4.5 deg.
	103855	2	• BOLT, Hex head (1/4-20 x 1/2, Grade 5)
	104000	2	• WASHER, Lock (1/4")
	103980	2	• NUT, Hex head (1/4"-20, Grade 5)
31	(Ref.)	-	ASSEMBLY, Engine door (For components, refer to Figure 6.3-20)

Figure 6.3-16. Electrical Panel Assembly

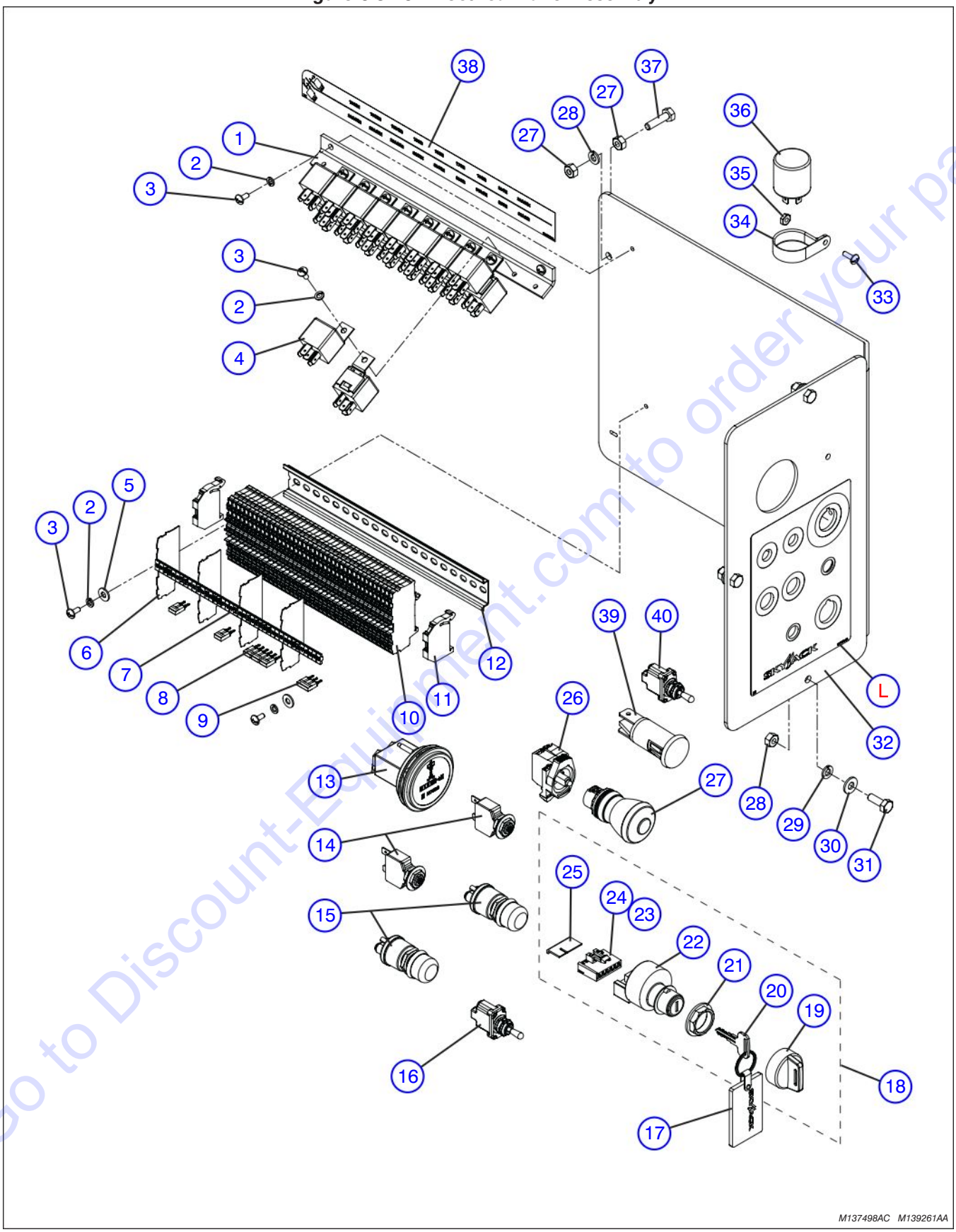


Figure 6.3-16. Electrical Panel Assembly

Index No.	Skyjack Part No.	Qty.	Description
A	137498	-	ASSEMBLY, Electrical panel **(ANSI/CSA)**
B	139261	-	ASSEMBLY, Electrical panel **(CE)**
1	137507	1	• MOUNT, Bracket relay
2	104185	AR	• WASHER, Lock (#10)
3	115545	AR	• SCREW, Round head machine (#10-32 x 3/8”)
4	127035	AR	• RELAY, 12 Volt, 40A
5	104694	AR	• WASHER, Flat (#10)
6	137941	4	• END PLATE, **A**
7	137443	1	• LABEL, Terminal Strip ANSI/CSA, **A**
	138071	1	• LABEL, Terminal Strip CE, **B**
8	137942	5	• JUMPER, 2 Pin, **A**
9	137943	1	• JUMPER 3 Pin, **A**
10	137940	AR	• TERMINAL BLOCK, 4 Conductor through, **A, B**
11	707147	2	• END STOP, **A**
12	137958	1	• TRACK, Relay (10”), **A**
13	103336	1	• HOUR METER
14	137919	2	• BREAKER, 25 Amp circuit
15	102692	2	• SWITCH, Push-button
16	102853	1	• SWITCH, Toggle
17	114710	1	• RING KEY, SKYJACK
18	133762	1	• SWITCH KEY, 3 Way
19	138138	1	• • BOOT, Key switch, **A**
20	138137	1	• • KEY, #455, **A**
21	138136	AR	• • NUT, Key switch, **A**
22	137440	1	• • HEAD, Switch key 3 way, **A**
23	137442	6	• • WIRE TERMINAL, 280 Female unsealed, **A**
24	137441	1	• • CONNECTOR, Housing 6 Way, **A**
25	137443	1	• • TERMINAL POSITION ASSURANCE, **A**
26	137790	1	• SWITCH BASE ASSEMBLY, NC/LED (Red)
27	137795	1	• SWITCH ASSEMBLY, Emergency stop
28	103980	AR	• NUT, Hex head (0.25”- 20, Grade 5)
29	104000	AR	• WASHER, Lock (1/4”)
30	103995	AR	• WASHER, Flat (1/4”)
31	103856	AR	• BOLT, Hex Head (1/4” - 20 x 3/4”, Grade 5)
32	137199	1	• SHEET, Electrical panel
33	103962	AR	• SCREW, Round head machine (#10 - 32 x 1/2”), **A**
34	132793	1	• CLAMP, Plastic (1-1/4”), **A**
35	104003	AR	• NUT, Hex head (#10-32), **A**
36	103743	1	• FLASHER, 12/24 Volt, **A**
37	103857	AR	• BOLT, Hex head (1/4”- 20 x 1”, Grade 5)
38	138111	1	• LABEL, Relay Names, **A**
	138112	1	• LABEL, Relay Names, **B**
39	(Ref.)	-	• LIGHT, Indicator 12 Amber (For components, refer to Figure 6.3-21)
40	(Ref.)	-	• SWITCH, Toggle (For components, refer to Figure 6.3-21)
L	(Ref.)	-	• LABEL, Panel 68XXRT (For components, refer to Figure 6.6-5)

Figure 6.3-17. Engine Installation (Kubota DF972)

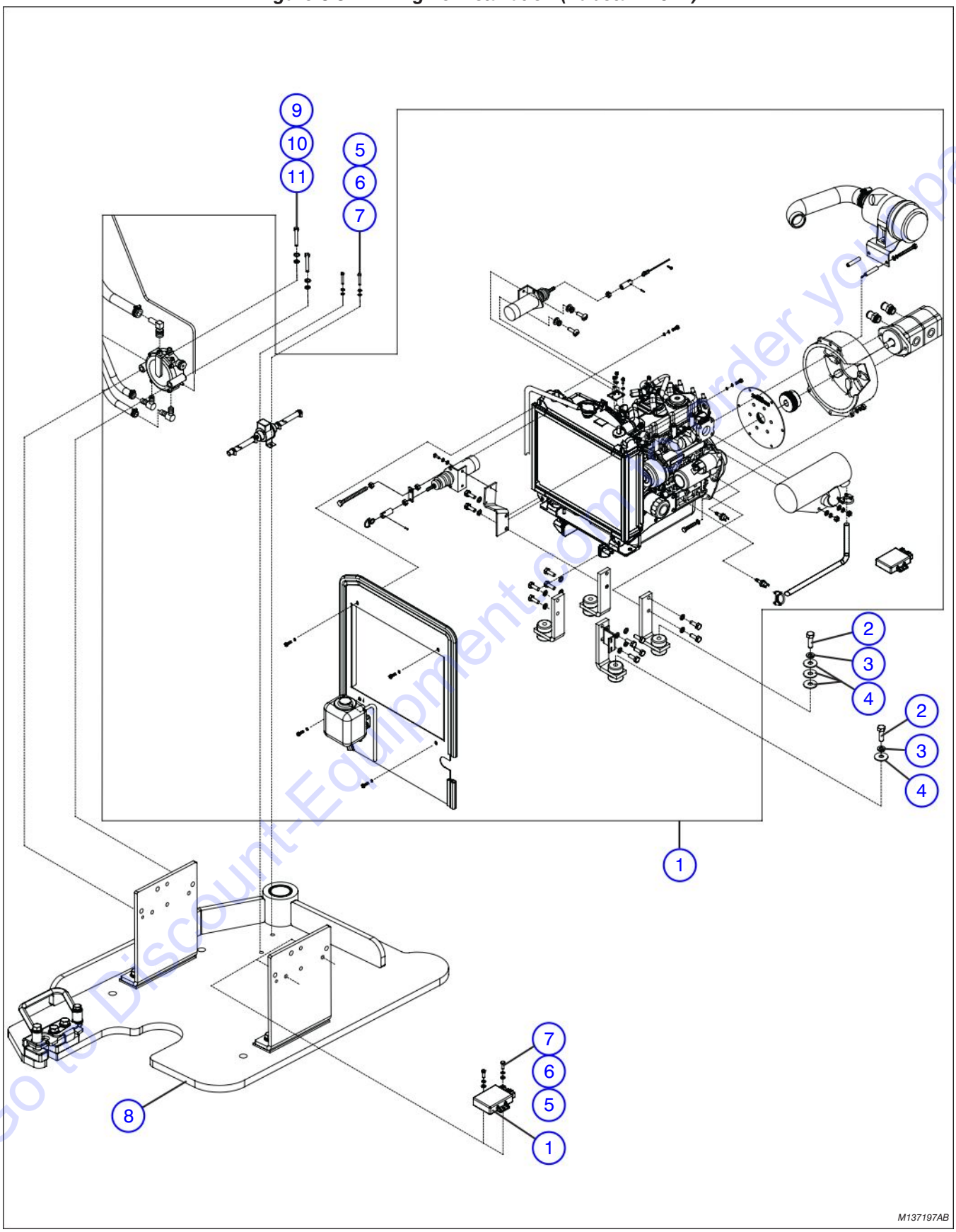


Figure 6.3-17. Engine Installation (Kubota DF972)

Index No.	Skyjack Part No.	Qty.	Description
1	(Ref.)	-	ASSEMBLY, Engine (For components, refer to Figure 6.4-1)
2	108818	AR	BOLT, Hex head (1/2”-13 x 2.75”, Grade 5)
3	103470	AR	WASHER, Lock (1/2”, Nom. 0.12)
4	137241	AR	WASHER, Fender (1/2” Inner DIA)
5	103892	AR	BOLT, Hex head (1/4”-20 x 5/8”, Grade 5)
6	104000	AR	WASHER, Lock (1/4”, Nom. 0.06)
7	103995	AR	WASHER, Flat (1/4” SAE)
8	(Ref.)	-	ASSEMBLY, Tray engine (For components, refer to Figure 6.3-19)
9	103885	AR	BOLT, Hex head (5/16”-18 x 1.75”, Grade 5)
10	103996	AR	WASHER, Flat (5/16”)
11	103404	AR	WASHER Lock (5/16”, Nom. 0.07)

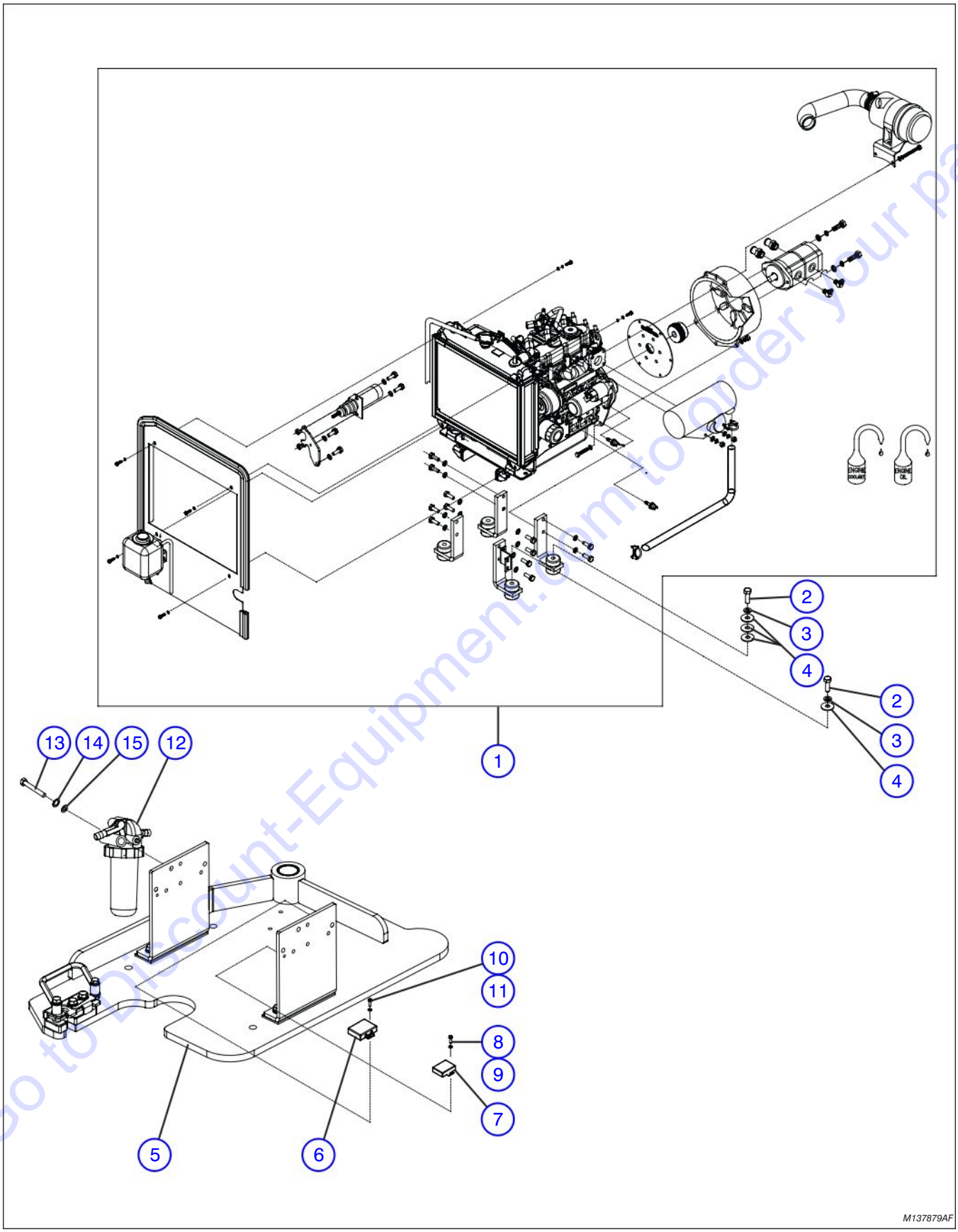
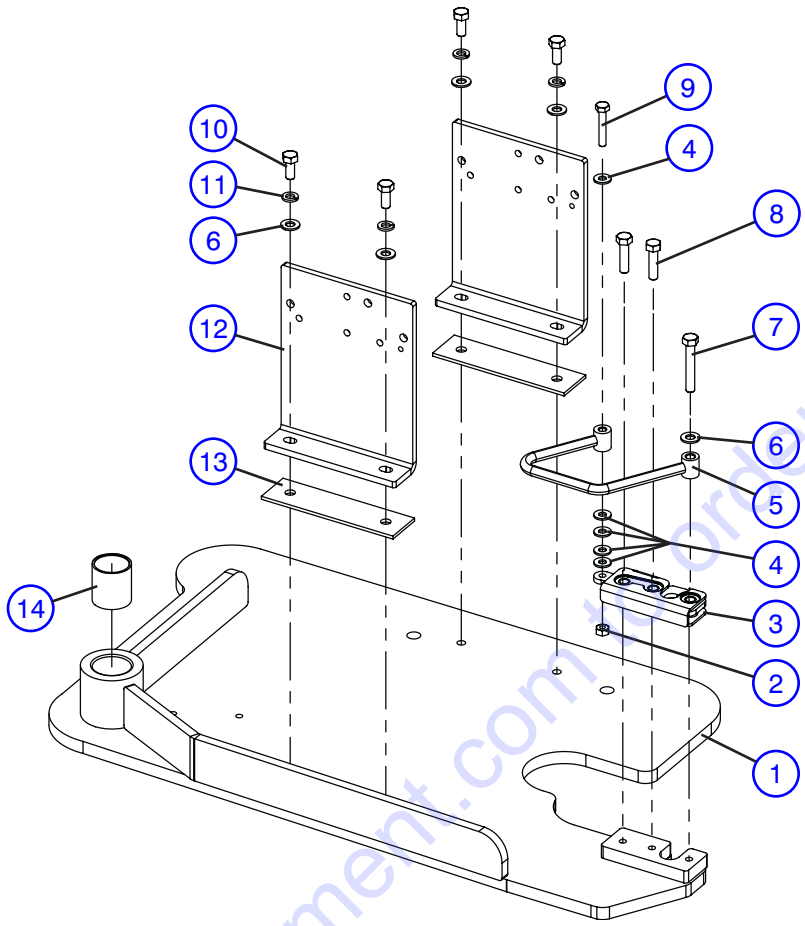


Figure 6.3-18. Engine Installation (Kubota D902) **AC**

Index No.	Skyjack Part No.	Qty.	Description
1	(Ref.)	-	ASSEMBLY, Engine (For components, refer to Figure 6.4-8)
2	108818	AR	BOLT, Hex head (1/2”-13 x 2.75”, Grade 5)
3	103470	AR	WASHER, Lock (1/2”, Nom. 0.12)
4	137241	AR	WASHER, Fender (1/2” Inner DIA)
5	(Ref.)	-	ASSEMBLY, Tray engine (For components, refer to Figure 6.3-19)
6	(Ref.)	-	TIMER, Glow lamp (For components, refer to Figure 6.4-8)
7	127035	1	RELAY, 12 Volt, 40A
8	103964	AR	BOLT, Round head machine (#10-32 x 0.25”)
9	104185	AR	WASHER, Lock (#10)
10	103855	1	BOLT, Hex head (1/4”-20 x 0.5”, Grade 5)
11	104000	1	WASHER, Lock (1/4”)
12	137885	1	ASSEMBLY, Fuel filter
	137904	1	• REPLACEMENT, Filter element
13	116218	AR	BOLT, Hex head (M8-1.25 x 65mm, Grade 8.8, ZP)
14	137886	AR	WASHER, Lock (M8)
15	133232	AR	WASHER, Flat (M8)

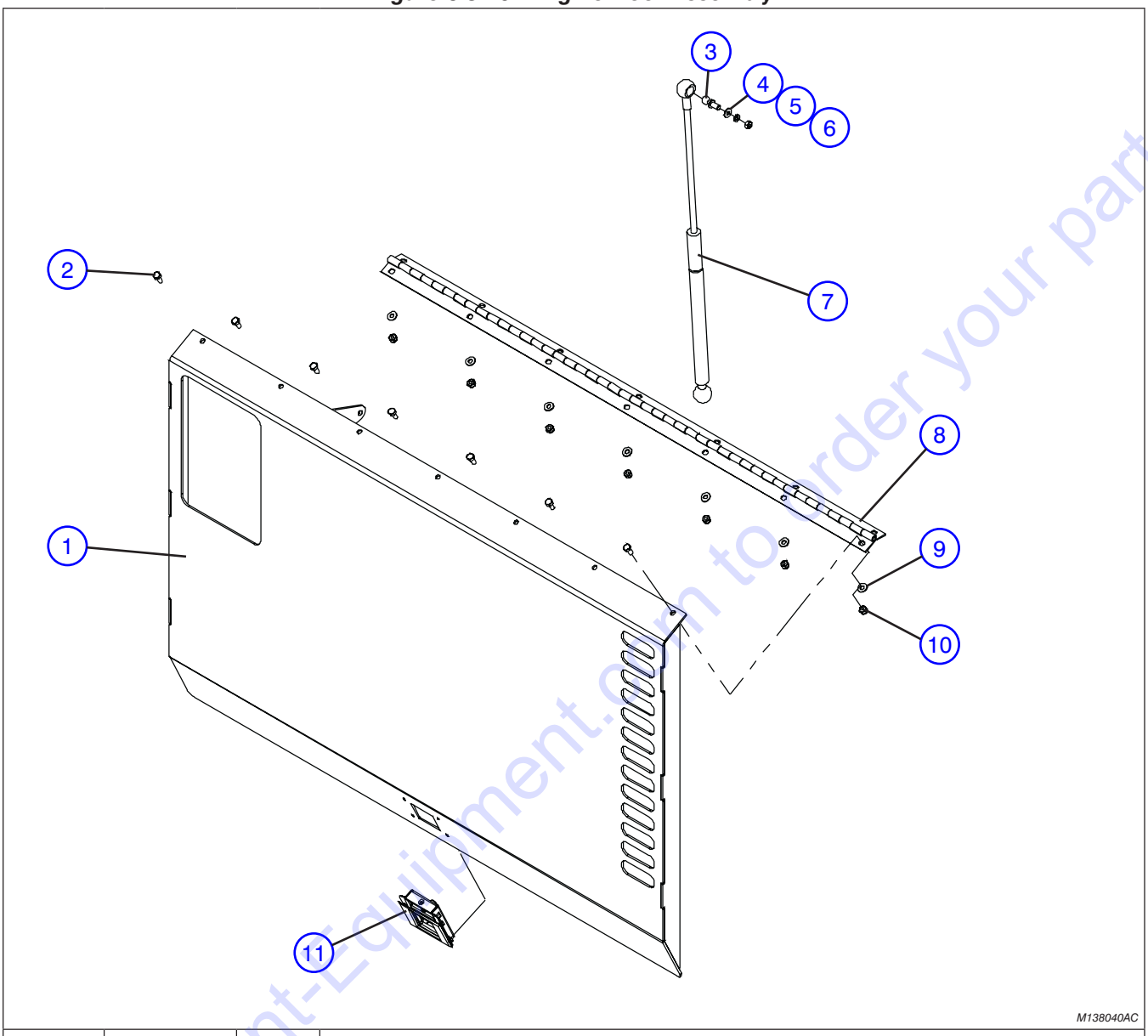
Figure 6.3-19. Tray Engine Assembly



M136394AC

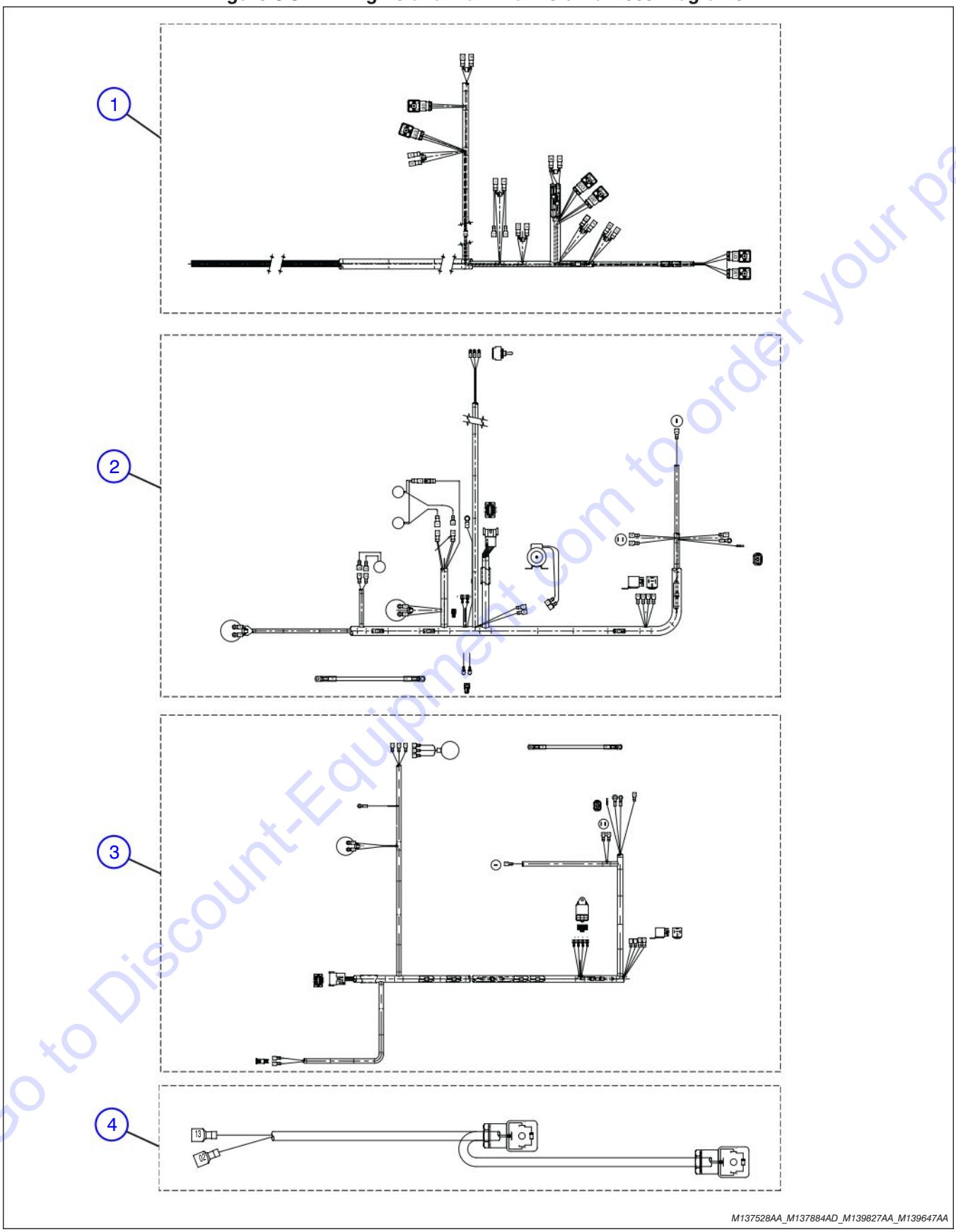
Index No.	Skyjack Part No.	Qty.	Description
-	136394	-	ASSEMBLY, Tray engine DF972/D902
1	136387	1	• WELDMENT, Tray engine
2	115649	1	• NUT, Hex nylon lock (1/4”- 20 Grade 5)
3	112307	1	• LATCH, Rotary LH
4	103995	AR	• WASHER, Flat (1/4”)
5	126634	1	• HANDLE WELDMENT, Tray Lock
6	103996	AR	• WASHER, Flat (5/16”)
7	103865	1	• BOLT, Hex head (5/16”-18 x 2”, Grade 5)
8	103864	AR	• BOLT, Hex head (5/16”-18 x 1”, Grade 5)
9	103860	1	• BOLT, Hex head (1/4”- 20 x 1.75”, Grade 5)
10	103887	AR	• BOLT, Hex head (5/16”-18 x 3/4”, Grade 5)
11	103404	AR	• WASHER, Lock (5/16”)
12	136077	2	• BRACKET
13	136976	2	• PAD, Rubber
14	125262	2	• BUSHING, Fiberglide (1-1/4” DIA x 1-1/2”)

Figure 6.3-20. Engine Door Assembly



Index No.	Skyjack Part No.	Qty.	Description
-	138040	-	ENGINE DOOR ASSEMBLY
1	137017	1	• DOOR, Engine cabinet
2	103892	AR	• BOLT, Hex head (1/4”-20 x 5/8”, Grade 5)
3	138026	AR	• STUD, Ball (13mm)
4	103996	1	• WASHER, Flat (5/16”)
5	103404	1	• WASHER, Lock (5/16”)
6	103984	AR	• NUT, Hex nylon lock (5/16”-18, Grade 5)
7	137183	1	• GAS SPRING, (10” stroke)
8	136996	1	• HINGE, Cabinet door
9	103995	AR	• WASHER, Flat (1/4”)
10	115649	AR	• NUT, Hex nylon lock (1/4”-20, Grade 5)
11	137005	1	• LATCH, Sliding with trimplate

Figure 6.3-21. Engine and Main Manifold Harness Diagrams



M137528AA_M137884AD_M139827AA_M139647AA

Figure 6.3-21. Engine and Main Manifold Harness Diagrams

Index No.	Skyjack Part No.	Qty.	Description
1	139827	-	HARNESS WIRING DIAGRAM, Main manifold **(ANSI/CSA)**
	139828	-	HARNESS WIRING DIAGRAM, Main manifold **(CE)**
2	137382	-	WIRING DIAGRAM, Engine - dual fuel system (Kubota engine)
	136178	1	• ASSEMBLY, Coupler
	136179	1	• ASSEMBLY, Coupler alternator
3	137527	-	WIRING DIAGRAM, Engine - diesel fuel system (Kubota engine)
	137869	1	• COUPLER ASSEMBLY, Glow lamp timer
	136179	1	• ASSEMBLY, Coupler alternator
4	139647	-	HARNESS, Cylinder - Manifold

Figure 6.3-22. Electrical Panel Harness Diagram

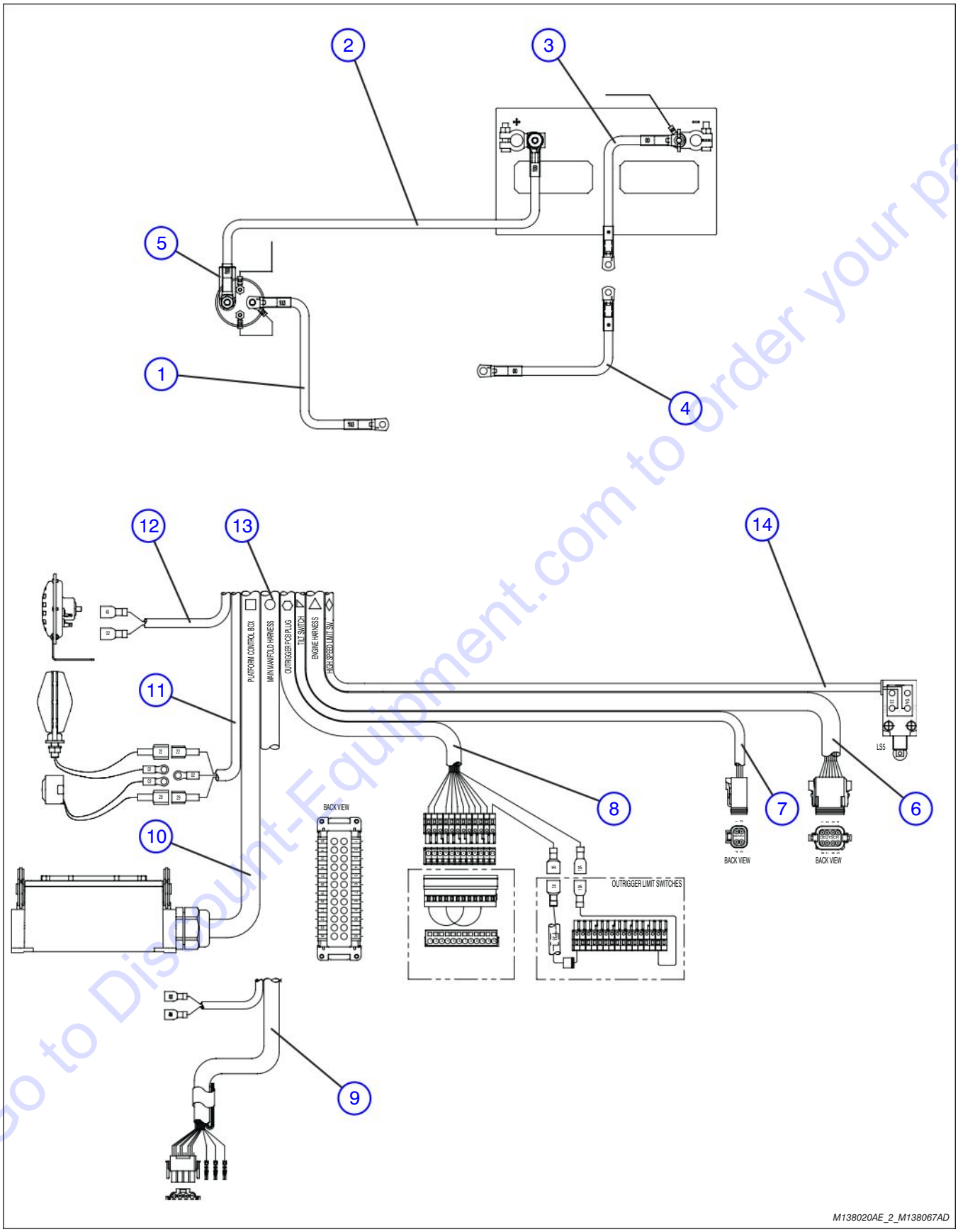
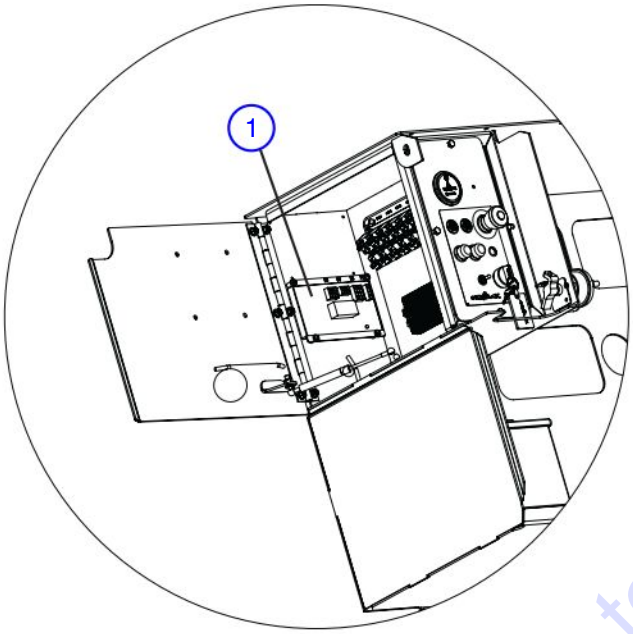
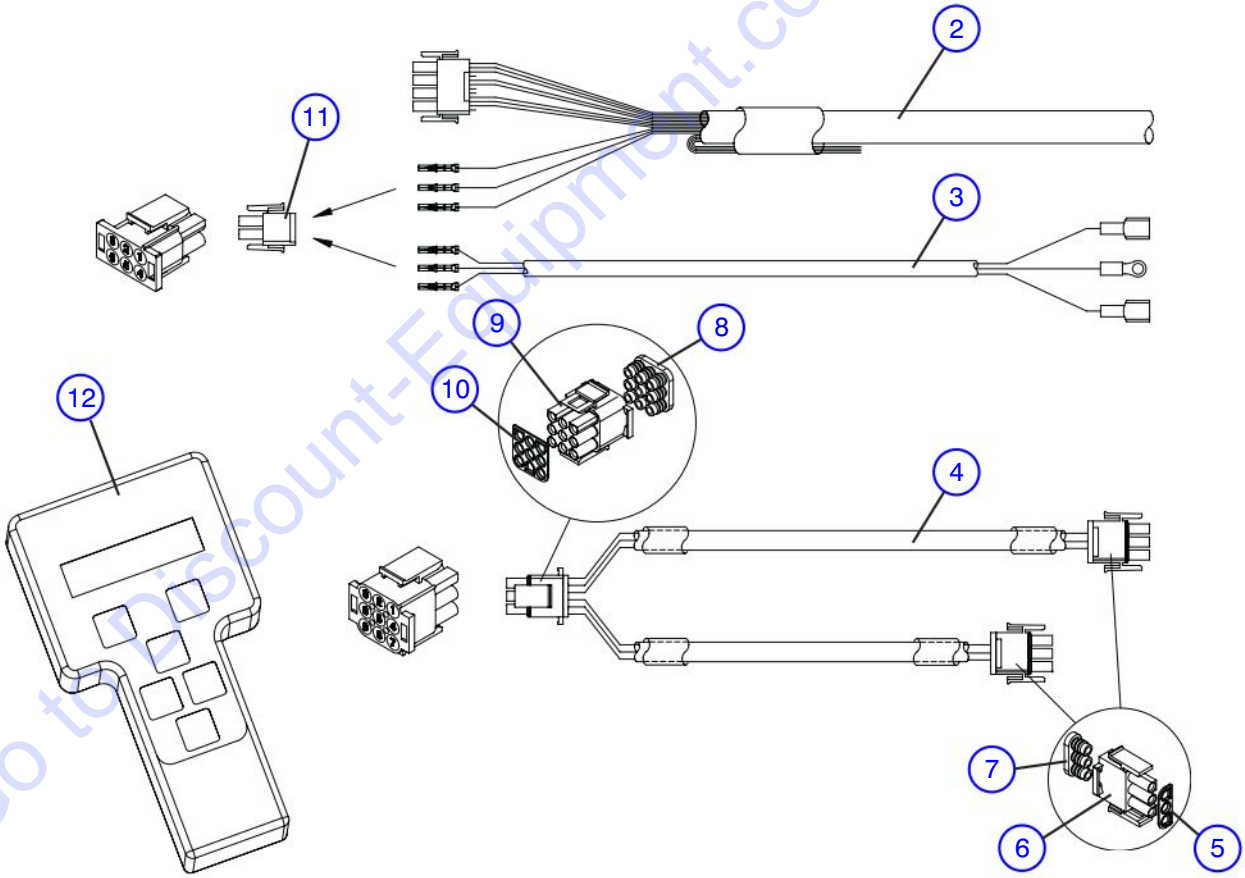


Figure 6.3-22. Electrical Panel Harness Diagram **AD**

Index No.	Skyjack Part No.	Qty.	Description
1	138068	1	CABLE, Welding #2GA (3/8”x42”x5/16”)
2	139251	1	CABLE, Welding #2GA (7/16”x16”x3/8”)
3	139233	1	CABLE, Welding #2GA (5/16”x12”x5/16”)
4	138069	1	CABLE, Welding #2GA (3/8”x45”x5/16”)
5	105600	1	BOOT, Red battery
6	137955	1	ENGINE HARNESS
	117583	1	• PLUG, Connector Pin 8-PIN
	117593	7	• SOCKET, Connector Contact 14-16
	117594	1	• PLUG, Connector Sealing
	117585	1	• PLUG, Connector Pin 8-PIN Wedge
7	138005	1	HARNESS, Tilt switch **(ANSI/CSA)**
	139271	1	HARNESS, Outrigger control module **(CE)**
	103255	23”	• CABTIRE, 18/4 SJ **(ANSI/CSA)**
	103257	48”	• CABTIRE, 18/3 SJ **(CE)**
	117579	1	• PLUG, Connector 4-PIN
	117581	1	• PLUG, Connector 4-PIN WEDGE
	117591	4	• SOCKET, Connector Contact 16-18
8	(Ref.)	1	HARNESS, Outrigger panel (For components, refer to Figure 6.5-2)
9	139262	1	HARNESS, Electrical panel **(CE)**
	102887	55”	• CABLE, Control 16/15
	116990	11	• PIN, Female wire
	130449	1	• HOUSING, Male plug (12-pole)
10	137354	1	CONTROL CABLE, Electrical panel
	137201	67”	• CONTROL CABLE 16/25
	137330	1	• HOUSING, Surface mount 24 PIN with strain relief
	137223	1	• INSERT, Female (24 PIN)
	121050	25	• FERULE, 16GA (Black)
11	(Ref.)	1	ASSEMBLY, Cabtire beeper 18/3 (For components, refer to Figure 6.2-9)
12	137952	1	HARNESS, Horn
13	(Ref.)	1	HARNESS, Main manifold (Refer to Figure 6.3-21)
14	138074	1	LIMIT SWITCH, High speed



Hydraulic/Electric Side Cabinet



M139301AA M138158AB M139273AA

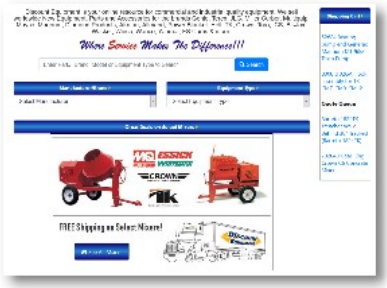
Figure 6.3-23. Load Sensing Components

Index No.	Skyjack Part No.	Qty.	Description
1	130439	1	CONTROLLER, Overload sensing
	105621	4	• SCREW, Machine (#10 - 32 x 1”)
	104185	4	• WASHER, Lock (#10)
	104694	4	• WASHER, Flat (#10)
	104003	4	• NUT, Hex Head (#10-32)
2	139262	1	HARNESS, Electric panel
3	139264	1	HARNESS, Light/beeper to control module
	103257	156”	• CABTIRE, 18/3
	116990	3	• PIN, Female wire
4	139273	1	HARNESS, Transducer to control module
	103257	192”	• CABTIRE, 18/3
	116990	12	• PIN, Female wire
5	134067	2	• SEAL, 3 position interface
6	130446	2	• HOUSING, 3 pole plug
7	134068	2	• SEAL, 3 position wire
8	134070	1	• SEAL, 9 position wire
9	116993	1	• HOUSING, 9 pole plug
10	134069	1	• SEAL, 9 position interface
11	130445	1	HOUSING, 6 pole plug
12	130477	1	KIT, Hand held calibration/diagnostic tool
	130441	1	• TOOL, Hand held calibration/diagnostic
	130457	1	• CABLE, Computer cable 24 gauge
	130448	1	• PLUG, Male 4 pole
	130451	1	• PLUG, Male 4 pole (Enclosed version)

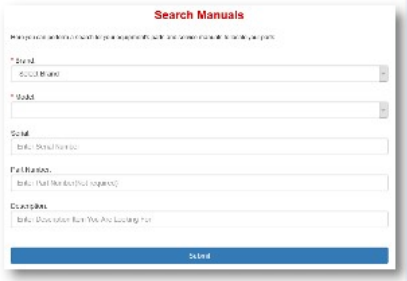
PARTS FINDER

Search Website by Part Number

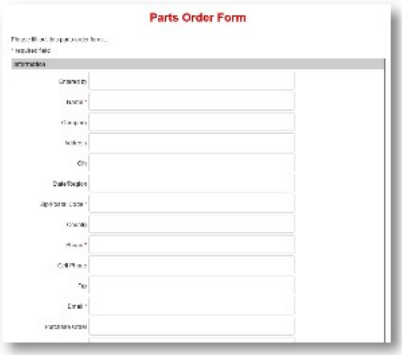
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

Figure 6.4-1. Engine Assembly (Kubota Engine DF972)

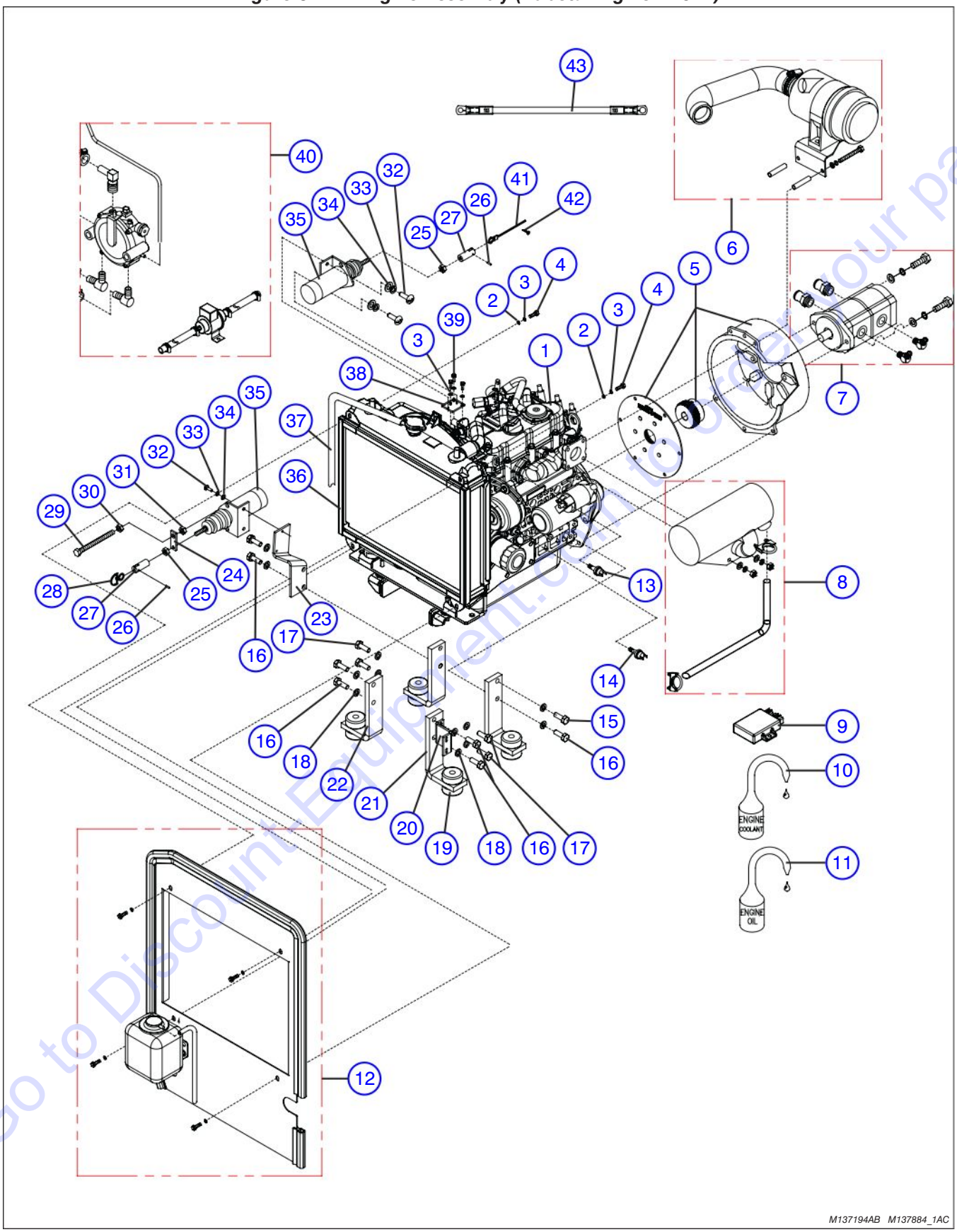
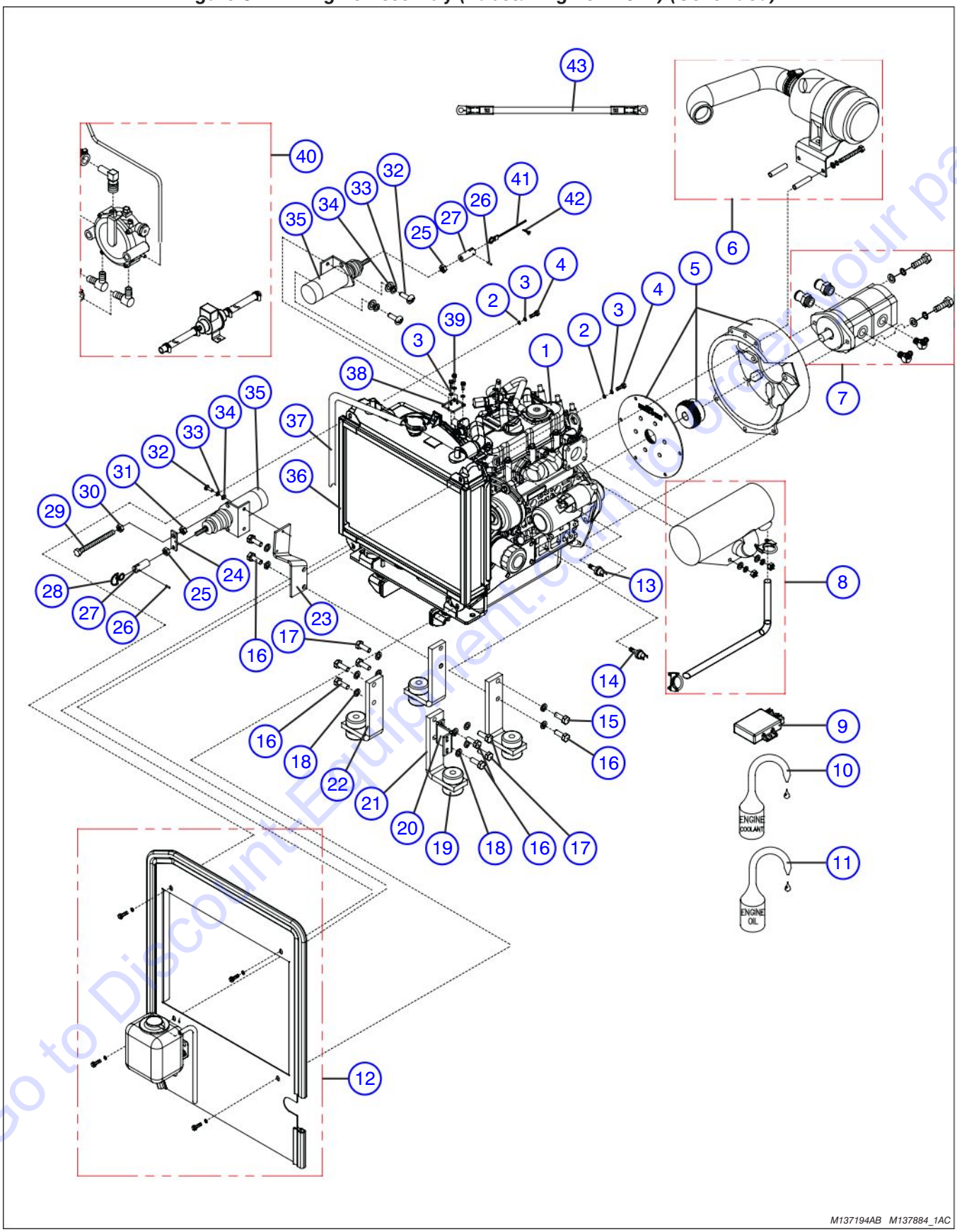


Figure 6.4-1. Engine Assembly (Kubota Engine DF972)

Index No.	Skyjack Part No.	Qty.	Description
1	136036	1	ENGINE, Kubota DF972
	136095	1	• ASSEMBLY, Carburetor
	136083	1	• MANIFOLD, Inlet
	136085	1	• MANIFOLD, Exhaust
	136086	1	• SHIELD, Exhaust manifold heat
	136088	1	• ASSEMBLY, Idler gear
	136089	1	• SHAFT, Idler gear
	136091	1	• PLATE, Rear end
	136092	1	• OIL FILTER, Cartridge
	136093	1	• GAUGE, Oil (Dipstick)
	136097	1	• SPRING, Governor
	136098	1	• LEVER, Speed control
	136100	1	• STARTER, Engine
	136101	1	• ALTERNATOR
	136102	1	• • BRACKET, Alternator
	136103	1	• • GUARD, Alternator
	136104	1	• PLUG, Spark
	136105	1	• • CAP, Spark plug
	136106	1	• COIL, Ignition
	136172	1	• SENSOR, Crankshaft position
	136109	1	• THERMOSTAT, Engine
	136110	1	• COVER, Thermostat
	137649	1	• FAN, Pusher
	136112	1	• PULLEY, Fan
	136113	1	• PULLEY, Fan drive
	136114	1	• BELT, Fan
	136115	1	• MANUAL, Operators
	136117	1	• LABEL, CSA
	136099	1	• HARNESS, Wiring
	136118	1	• FILTER, Fuel
	136119	1	• KIT, Electric fuel pump
	136122	1	• VAPORIZER
	136090	1	• FLYWHEEL, Complete
2	133219	AR	WASHER, Flat (M6)
3	121758	AR	WASHER, Lock (6mm)
4	136185	AR	BOLT, Hex head (M6 - 1 x 30mm)
5	136441	1	BELL HOUSING ASSEMBLY, Kubota DF972
	136440	1	• HUB, Coupling
	136437	1	• BELL HOUSING
	136439	1	• FLANGE
	136438	1	• KIT, Hardware

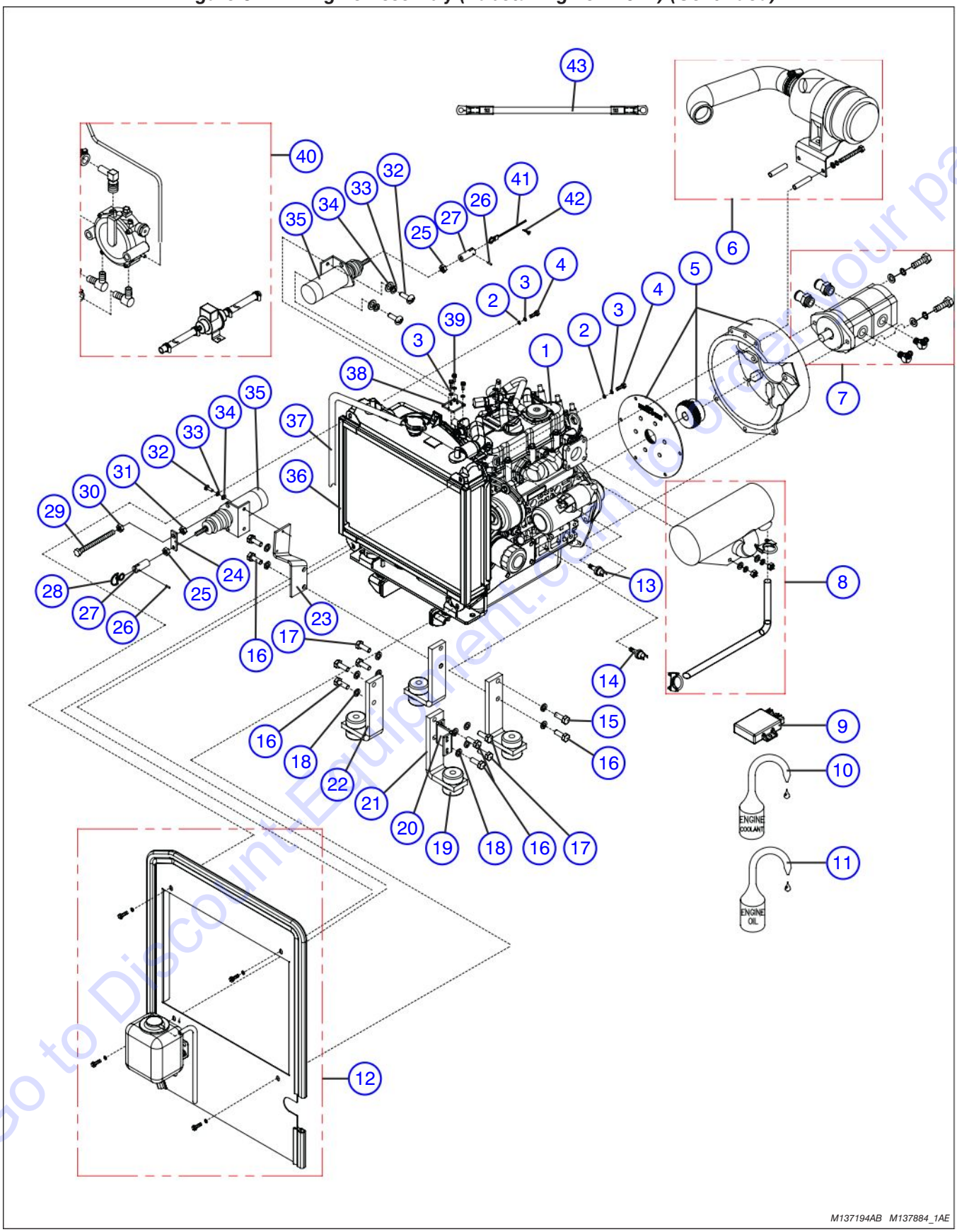
Part list continued on the following page.

Figure 6.4-1. Engine Assembly (Kubota Engine DF972) (Continued)



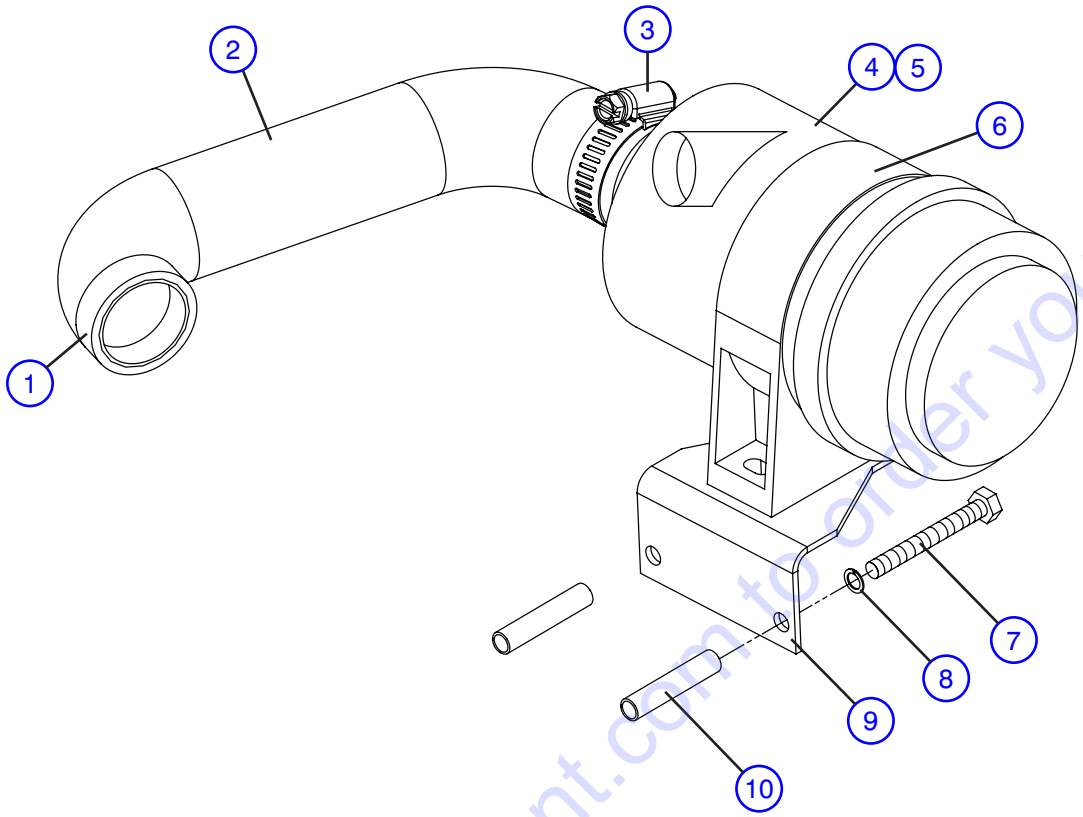
Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
6	(Ref.)	-	ASSEMBLY, Air cleaner (For components, refer to Figure 6.4-2)
7	(Ref.)	-	ASSEMBLY, Hydraulic Pump (For components, refer to Figure 6.4-5)
8	(Ref.)	-	ASSEMBLY, Exhaust System (For components refer to Figure 6.4-3)
9	136121	1	MODULE, Igniter control
10	(Ref.)	-	SOLUTION, Engine coolant (Antifreeze) (Refer to Table 1.1.)
11	(Ref.)	-	OIL, Engine (Refer to Table 1.1.)
12	137648	1	ASSEMBLY, Radiator plate
	137481	1	• PLATE, Radiator SJ68XX
	137643	1	• TRIM, Rubber long
	137647	1	• TRIM, Rubber short
	147142	1	• RESERVOIR, Coolant
			(Order Part # 132519 for Machines with S/N 37001758 and Below)
	-	-	• HARDWARE, Coolant reservoir ***(Machines with S/N 37001759 and Above)***
	103887	2	• • BOLT, Hex head (5/16-18 x 0.75, Grade 5)
	103996	2	• • WASHER, Flat (5/16)
	100397	2	• • NUT, Hex head (5/16-18 Grade 5)
	103404	2	• • WASHER, Lock (5/16)
	-	-	• HARDWARE, Coolant reservoir ***(Machines with S/N 37001758 and Below)***
	103962	2	• • SCREW, Rnd hd machined (10-32 x 0.500)
	104185	2	• • WASHER, Lock (#10)
	104003	2	• • NUT, Hex head (10-32)
	103014	1	• GROMMET, Rubber (7/8)
	133140	1	• BRACKET, Reservoir
13	113400	1	SWITCH, Temperature
14	102838	1	SWITCH, Oil pressure
15	103850	AR	BOLT, Hex head (M10 x 1.25 x 30mm, Grade 8.8)
16	136665	AR	BOLT, Hex head (M10 x 1.25 x 35mm, Grade 8.8)
17	103848	AR	BOLT, Hex head (M10 x 1.25 x 20mm, Grade 8.8)
18	130884	AR	WASHER, Lock (M10)
19	147634	4	MOUNT, Engine vibration control
20	137657	1	BRACKET, Exhaust
21	136033	2	BRACKET, Engine mount FR/RL
22	136032	2	BRACKET, Engine mount FL/RR
23	136264	1	MOUNT, Lower solenoid
24	113582	1	LIMITER, Solenoid
25	114709	AR	NUT, FHN (1/4” - 28)
26	114684	2	PIN, Roll (1/8” DIA x 7/16”)
			Part list continued on the following page.

Figure 6.4-1. Engine Assembly (Kubota Engine DF972) (Continued)



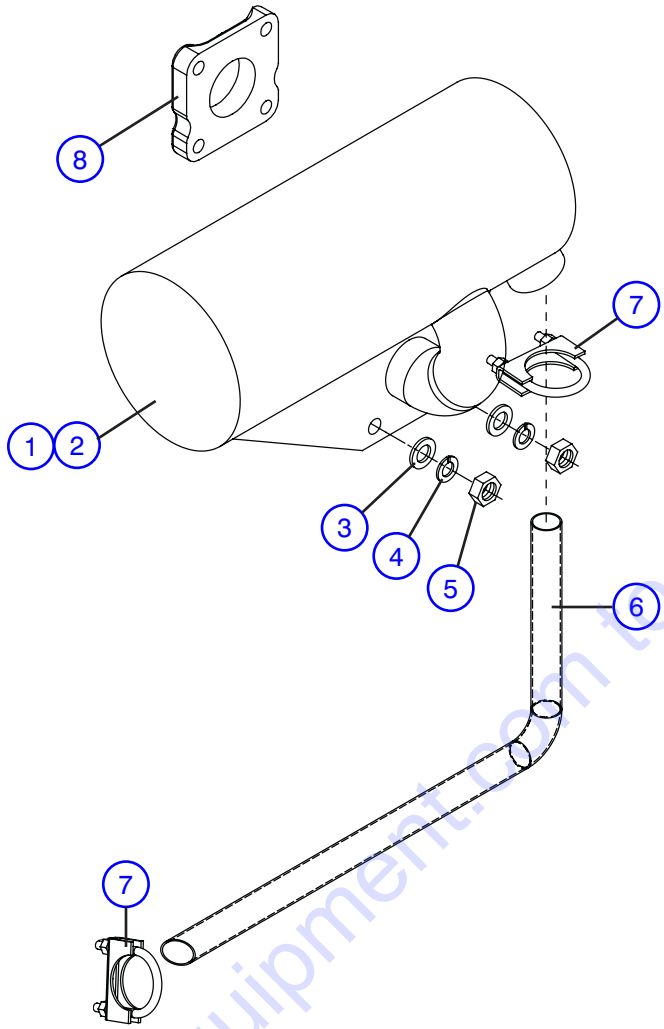
Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
27	101860	2	ATTACHMENT, Throttle linkage
28	116031	1	SWIVEL, Solenoid contactor
29	120738	AR	BOLT, HHCS (1/4”-20 x 4”)
30	103980	AR	NUT, Hex head (1/4”- 20, Grade B)
31	115649	AR	NUT, Nylon lock (1/4”-20)
32	103962	AR	SCREW, Round head machine (#10 - 32 x 1/2”)
33	104185	4	WASHER, Lock (#10)
34	104694	4	WASHER, Flat (#10)
35	103007	2	SOLENOID, DC 12V
36	(Ref.)	-	RADIATOR KIT, Kubota DF972/D902 (For components, refer to Figure 6.4-4)
37	102984	46”	LINE, 5/16” Fuel
38	136974	1	BRACKET, Choke solenoid
39	104608	3	BOLT, Hex head (M6-1 x 16mm, Grade 5)
40	(Ref.)	-	ASSEMBLY, Fuel line (For components, refer to Figure 6.4-6 and Figure 6.4-7)
41	116467	1	CABLE, Choke
42	137525	1	SCREW, Pan head (M4 x 6, DIN 85, ZP)
43	139252	1	CABLE, Welding #6GA

Figure 6.4-2. Air Cleaner Assembly - Kubota Dual Fuel Engine DF972



Index No.	Skyjack Part No.	Qty.	Description
-	136038	AR	ENGINE KIT, Kubota DF972, Air Cleaner Kit
1	104528	1	• CLAMP, Gear (#28)
2	136145	1	• HOSE, Inlet
3	133222	1	• CLAMP, Gear (#32)
4	136144	1	• ASSEMBLY, Air cleaner (Kubota)
	137924	1	• FILTER ELEMENT, (Kubota)
5	137924	1	• FILTER, Air
6	136148	1	• BRACKET, Air cleaner band
	136667	AR	• • BOLT, Hex head (M8-1.25 x 30mm)
	127940	AR	• • WASHER, Flat (M8 - ZN)
	121059	AR	• • NUT, Hex (M8-1.25)
7	136154	AR	• BOLT, Hex head (M8-1.5 x 75mm, Grade 8.8, ZP)
8	116218	AR	• WASHER, Lock (M8)
9	136153	1	• BRACKET, Air cleaner
10	136155	2	• SLEEVE, (8.38mm Inner DIA x 10.65mm Outer DIA x 40mm)

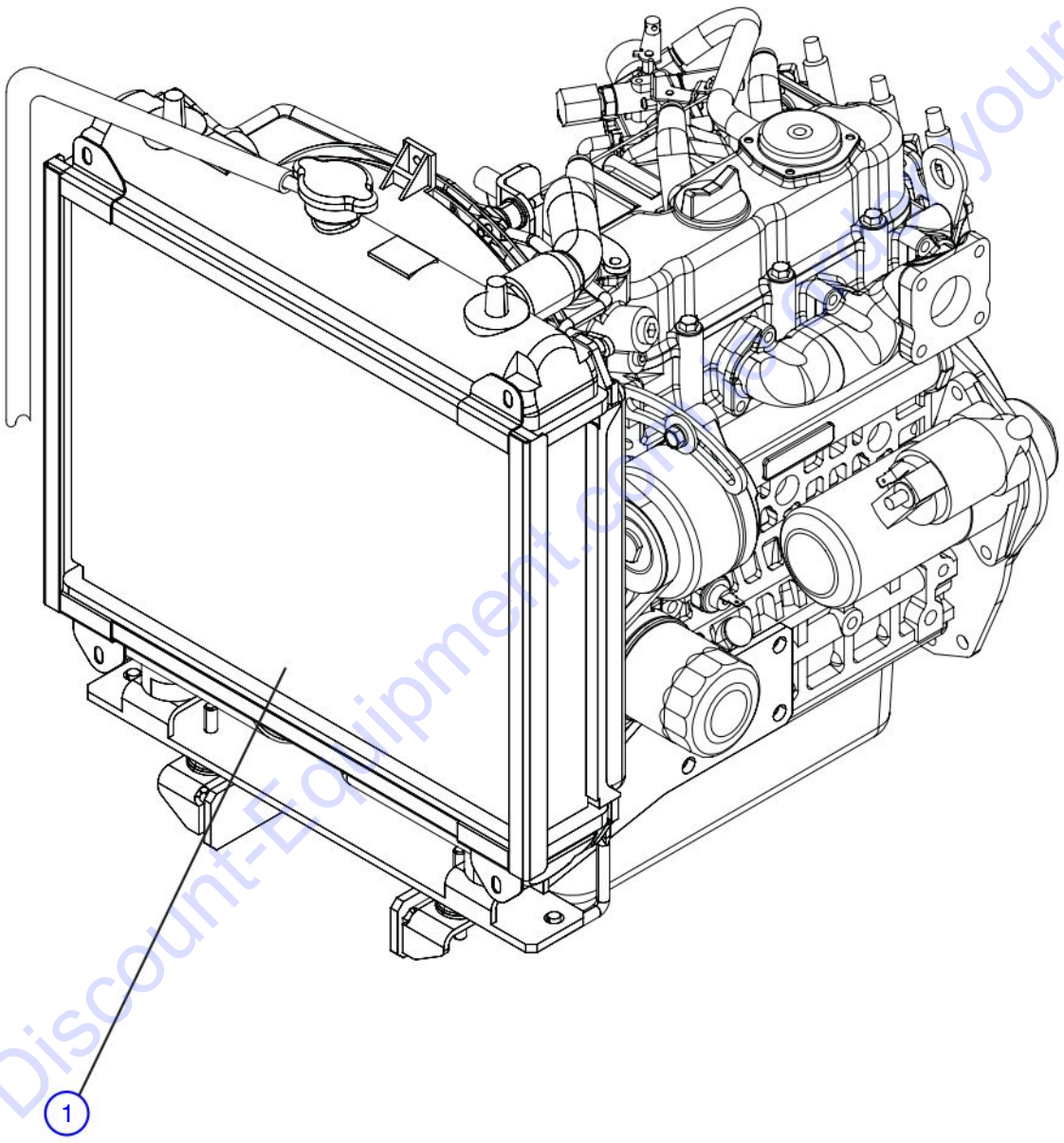
Figure 6.4-3. Exhaust System Assembly - Kubota Engines DF972 / D902



M137194AA

Index No.	Skyjack Part No.	Qty.	Description
1	136039	AR	MUFFLER, Horizontal
2	139447	AR	MUFFLER, Diesel purifier (Kubota D902)
3	127940	AR	WASHER, Flat (8mm)
4	116218	AR	WASHER, Lock (M8)
5	121059	AR	NUT, Hex Head (M8-1.25)
6	136951	1	TUBE, Exhaust (Engine Kubota 972DF)
	137642	1	TUBE, Exhaust (Engine Kubota 902DF)
7	136969	2	CLAMP, Exhaust (1-1/4”)
8	136084	1	GASKET, Muffler (Engine Kubota 972DF)
	137844	1	GASKET, Exhaust (Engine Kubota 902DF)

Figure 6.4-4. Radiator Kit - Kubota DF972 / D902

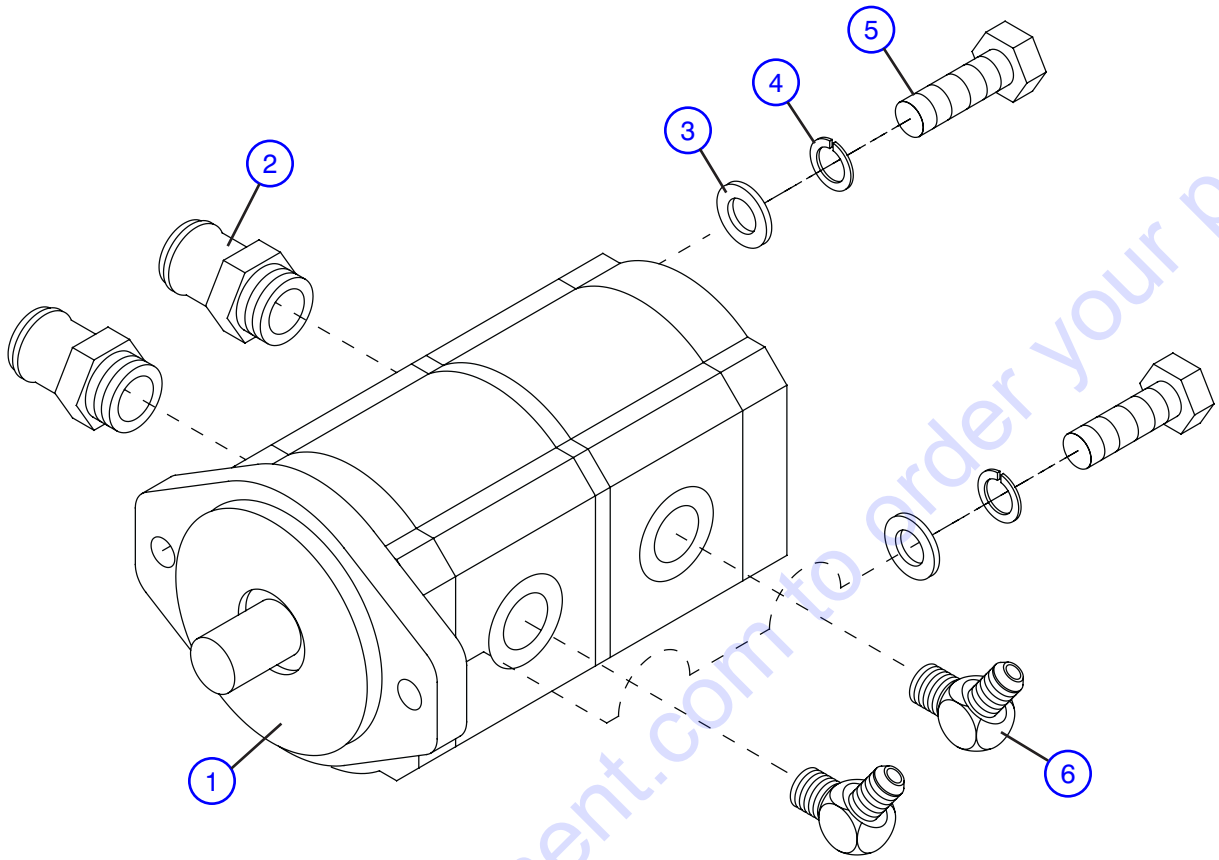


M137891AA_1

Figure 6.4-4. Radiator Kit - Kubota DF972 / D902

Index No.	Skyjack Part No.	Qty.	Description
1	136037	1	RADIATOR KIT, Kubota DF972/D902
	136123	1	• ASSEMBLY, Radiator
	136124	1	• LABEL, Caution
	136125	1	• LABEL, Caution
	136126	1	• HOSE, Water
	136127	1	• HOSE, Water
	103320	4	• CLAMP, Gear (#16)
	133223	AR	• BOLT, Hex head (M16 x 1 x 20mm)
	136130	2	• CUSHION
	136131	1	• SUPPORT 1, Radiator
	136132	1	• SUPPORT 2, Radiator
	136133	1	• BRACKET, Radiator
	136134	2	• BRACKET 1, Radiator
	136135	AR	• BOLT, Hex head (M8-1.25 x 18mm, Grade 8.8, ZP)
	136136	2	• CUSHION
	121059	AR	• NUT, Hex (M8-1.25)
	116218	AR	• WASHER, Lock (M8)
	136139	1	• BRACKET 2, Radiator
	136667	AR	• BOLT, Hex head (M8-1.25 x 30mm, Grade 8.8, ZP)
	136141	1	• CUSHION
	800354	AR	• NUT, Hex (M6)
	121758	AR	• WASHER, Lock (M6)
	136183	1	• SUPPORT IN, Radiator
	136184	4	• COLLAR
	136185	AR	• BOLT, Hex head (M6-1 x 30mm, Grade 8.8, ZP)
	136186	1	• SUPPORT EX, Radiator
	104608	AR	• BOLT, Hex head (M6 - 1 x 16mm, Grade 5)
	136188	1	• COVER, Fan
	133219	AR	• WASHER, Flat (M6)
	136190	2	• STOPPER, Radiator
	139777	AR	• SPACER, (6mm length x 6.2mm ID)

Figure 6.4-5. Hydraulic Pump Assembly (Kubota Engine DF972 / D902)



Index No.	Skyjack Part No.	Qty.	Description
1	114201	1	PUMP, Dual hydraulic (0.671/ 0.366)
2	114325	2	FITTING, Suction pump
3	103472	2	WASHER, Flat (3/8”)
4	103999	2	WASHER, Lock (3/8”)
5	101297	2	BOLT, Hex head (3/8”-16 x 1.25”, Grade 5)
6	120054	2	FITTING, (SAE O-ring 37°, 45° 10-8)

Figure 6.4-6. Propane Fuel System - Kubota Dual Fuel Engine DF972

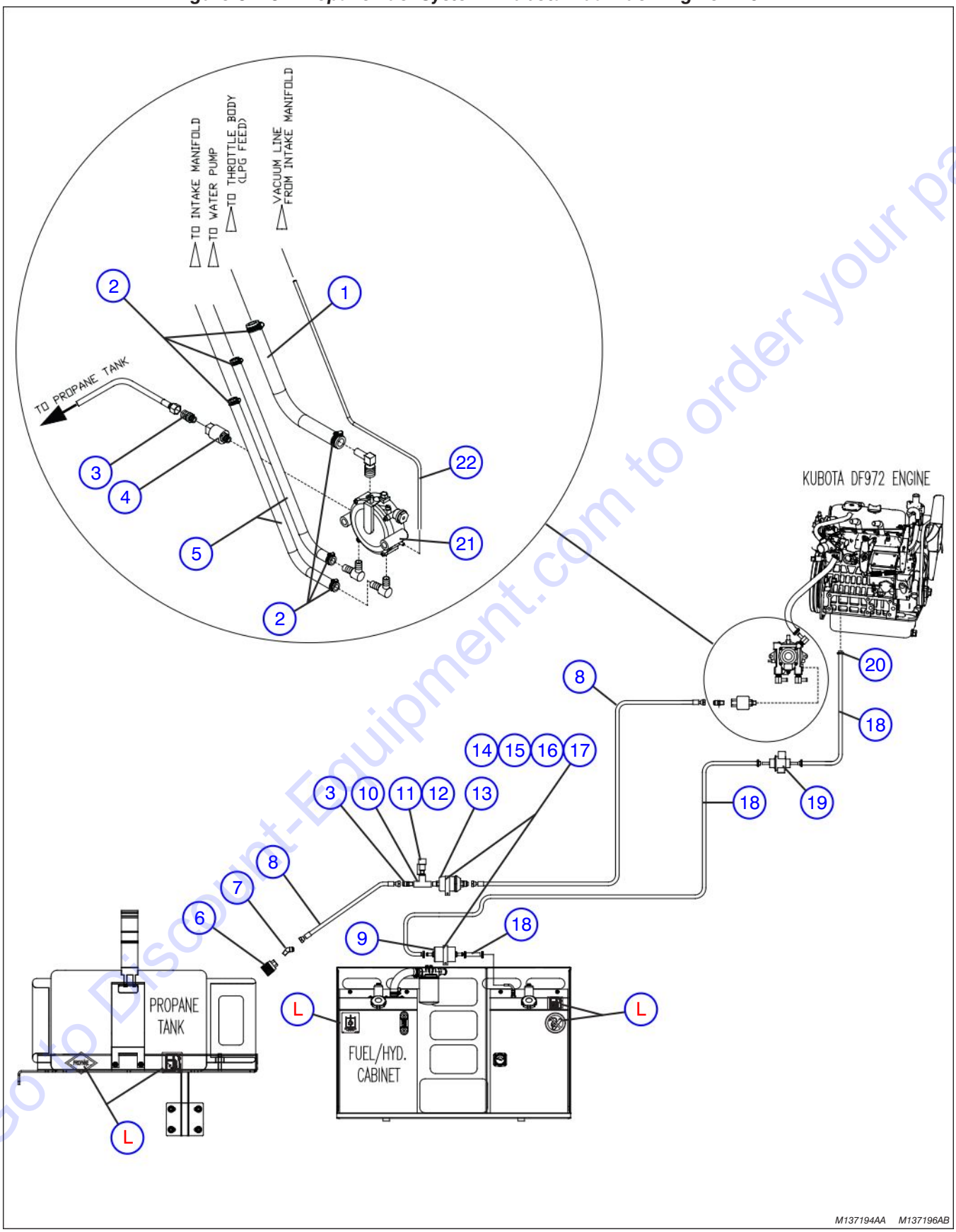


Figure 6.4-6. Propane Fuel System - Kubota Dual Fuel Engine DF972

Index No.	Skyjack Part No.	Qty.	Description
1	128917	11”	HOSE, (1/2” Inner DIA)
2	102519	AR	CLAMP, Gear (#6)
3	103156	2	FITTING, Brass (48-6B)
4	125793	1	VALVE, Shut-off (Propane)
5	300797	2	HOSE, (3/8”, 200psi)
6	103006	1	COUPLER, Quick female
7	103159	1	FITTING, Pipe (45°, 1/4”)
8	137633	80”	HOSE, Propane
9	136118	1	FILTER, Fuel
10	132919	1	TEE, Female pipe
11	111622	1	CAP, Rain
12	300799	1	VALVE, Propane relief
13	137566	1	FILTER, LPG
14	124433	2	CLIP, Single
15	103983	2	NUT, (1/4”-20)
16	103995	AR	WASHER, (1/4”)
17	104000	AR	WASHER, Lock (1/4”)
18	102984	109”	LINE, Fuel (5/16”)
19	136119	1	PUMP, Electric fuel
20	103321	AR	CLAMP, Gear (#4)
21	136122	1	VAPORIZER, LPG
22	102660	24”	HOSE, Fuel Line (1/8”)
L	(Ref.)	-	LABELS (Refer to Figure 6.5)

Figure 6.4-7. Propane Fuel System - Dual Tank (Kubota Engine DF972)

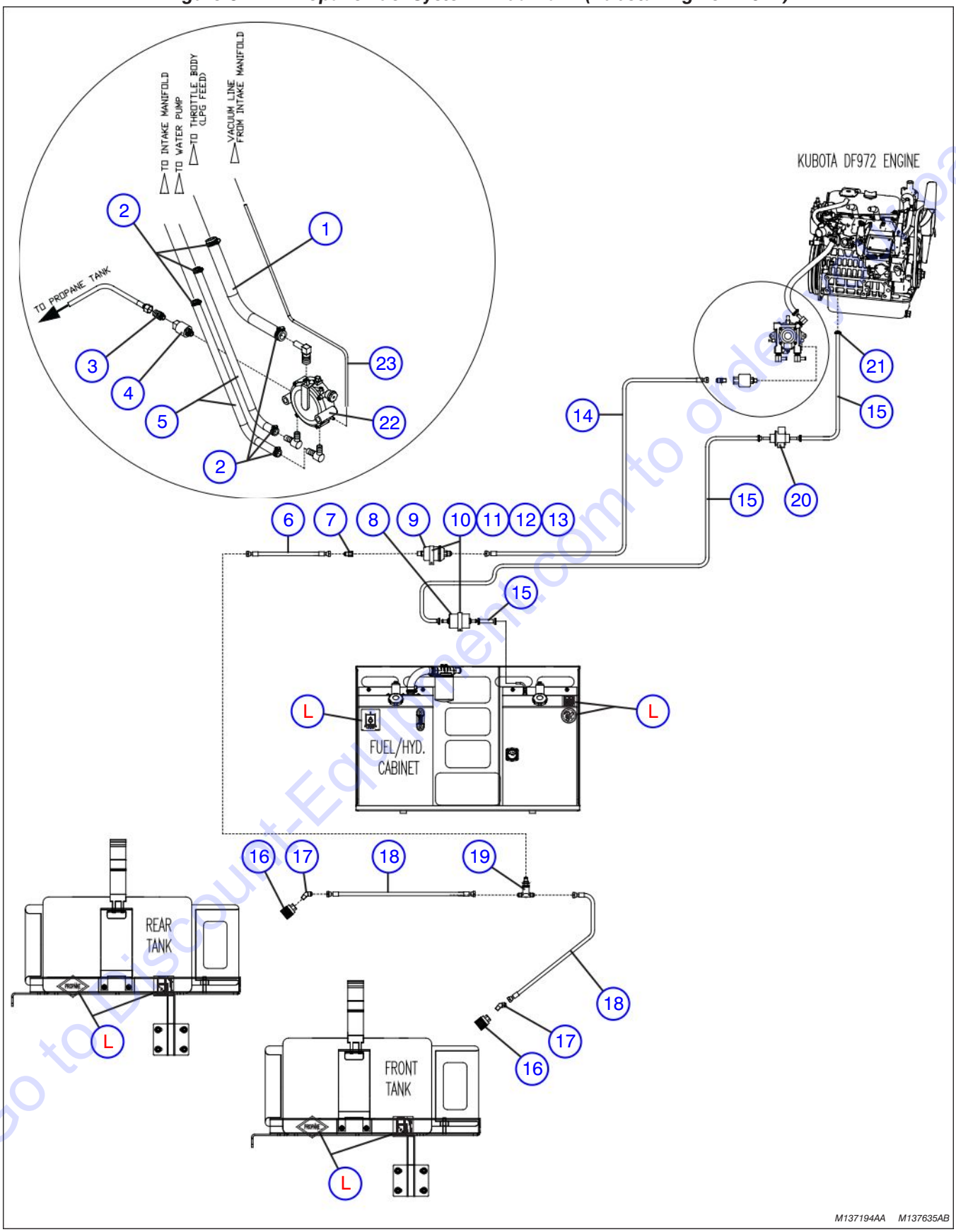


Figure 6.4-7. Propane Fuel System - Dual Tank (Kubota Engine DF972)

Index No.	Skyjack Part No.	Qty.	Description
1	128917	11”	HOSE, (1/2” Inner DIA)
2	102519	AR	CLAMP, Gear (#6)
3	103156	1	FITTING, Brass (48-6B)
4	125793	1	VALVE, Shut-off (Propane)
5	300797	2	HOSE, (3/8”, 200psi)
6	137806	8”	HOSE, Propane
7	124656	1	FITTING, (1/4” FPT - 3/8” Male, 45° Flare)
8	136118	1	FILTER, Fuel
9	137566	1	FILTER, LPG
10	124433	2	CLIP, Single
11	103983	2	NUT, (1/4”-20)
12	103995	2	WASHER, (1/4”)
13	104000	2	WASHER, Lock (1/4”)
14	137633	80”	HOSE, Propane
15	102984	109”	LINE, Fuel (5/16”)
16	103006	2	COUPLER, Quick female
17	103159	2	FITTING, Pipe (45°, 1/4”)
18	137634	2	HOSE, Propane (70”)
19	123062	1	TEE, Valve shuttle
20	136119	1	PUMP, Electric fuel
21	103321	AR	CLAMP, Gear (#4)
22	136122	1	VAPORIZER, LPG
23	102660	24”	HOSE, Fuel Line (1/8”)
L	(Ref.)	-	LABELS (Refer to Figure 6.6-5)

Figure 6.4-8. Engine Assembly (Kubota Engine D902)

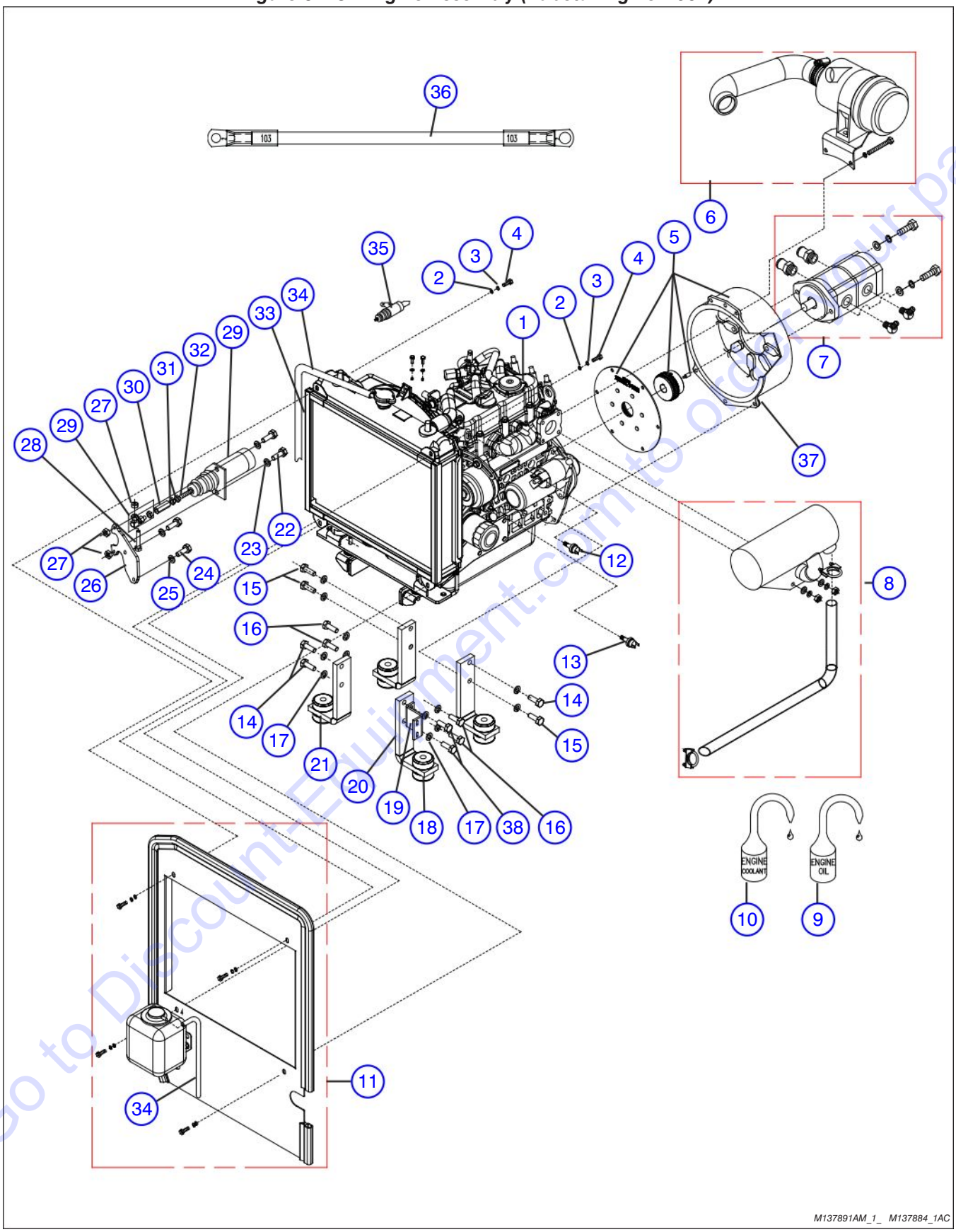


Figure 6.4-8. Engine Assembly (Kubota Engine D902)

Index No.	Skyjack Part No.	Qty.	Description
1	137651	1	ENGINE, Kubota D902
	137839	1	• CRANKCASE
	137840	1	• PAN, Oil
	137841	1	• CYLINDER HEAD
	137842	1	• PUMP, Water
	137843	1	• INLET-MANIFOLD
	137845	1	• MANIFOLD, Exhaust
	137846	1	• COVER, Cylinder head
	137847	1	• FLYWHEEL
	137848	1	• HOUSING, Flywheel
	137849	1	• FILTER, Oil (Inner)
	137850	1	• CARTRIDGE, Oil filter
	137851	1	• DIPSTICK
	137852	1	• PUMP ASSEMBLY, Injection
	137853	1	• PUMP, Fuel transfer
	137854	1	• NOZZLE HOLDER ASSEMBLY
	137855	1	• PLATE, Speed control
	137856	1	• STARTER
	137857	1	• ALTERNATOR
	137858	1	• BRACKET, Alternator
	137859	1	• GUARD, Alternator
	137860	1	• GLOW PLUG
	137861	1	• THERMOSTAT
	137862	1	• COVER, Thermostat
	137863	1	• PULLEY, Fan
	137864	1	• PULLEY, Fan Drive
	137865	1	• BELT, Fan
	137866	1	• MANUAL, Operators
	137867	1	• WARRANTY STATEMENT
	119185	1	• TIMER, Glow lamp
	137873	1	• COUPLER, Alternator assembly
	137649	1	• FAN, Pusher
2	133219	AR	WASHER, Flat (M6)
3	121758	AR	WASHER, Lock (6mm)
4	167051	AR	BOLT, Hex Head (M6 x 1 x 30MM Gr. 8.8 ZN)
5	136441	1	BELL HOUSING, Kubota DF972
	136440	1	• HUB, Coupling
	136437	1	• HOUSING
	136439	1	• FLANGE
	136438	1	• KIT, Hardware
6	(Ref.)	-	ASSEMBLY, Air cleaner (For components, refer to Figure 6.4-9)
7	(Ref.)	-	ASSEMBLY, Hydraulic Pump (For components, refer to Figure 6.4-5)

Part list continued on the following page.

Figure 6.4-8. Engine Assembly (Kubota Engine D902) (Continued)

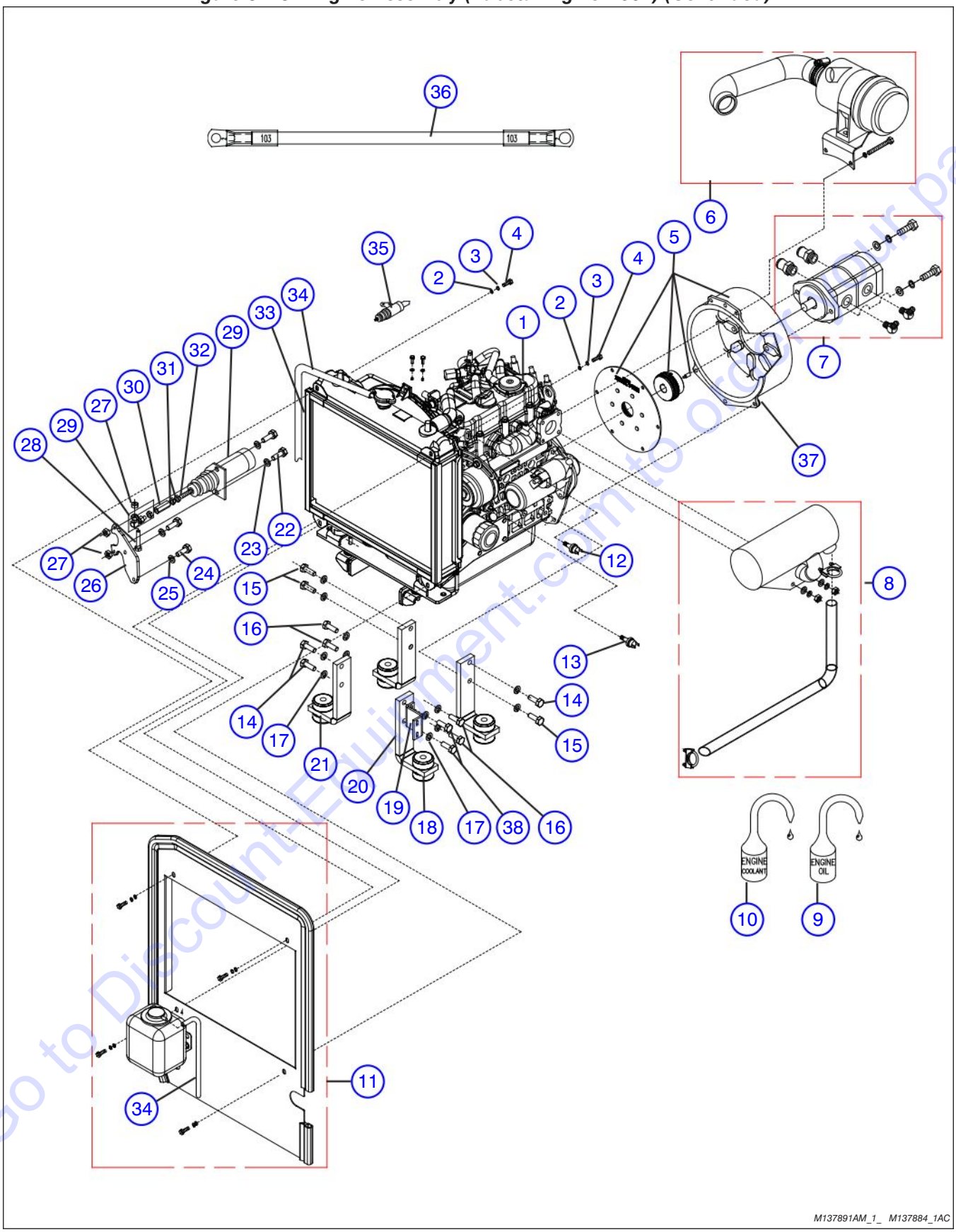
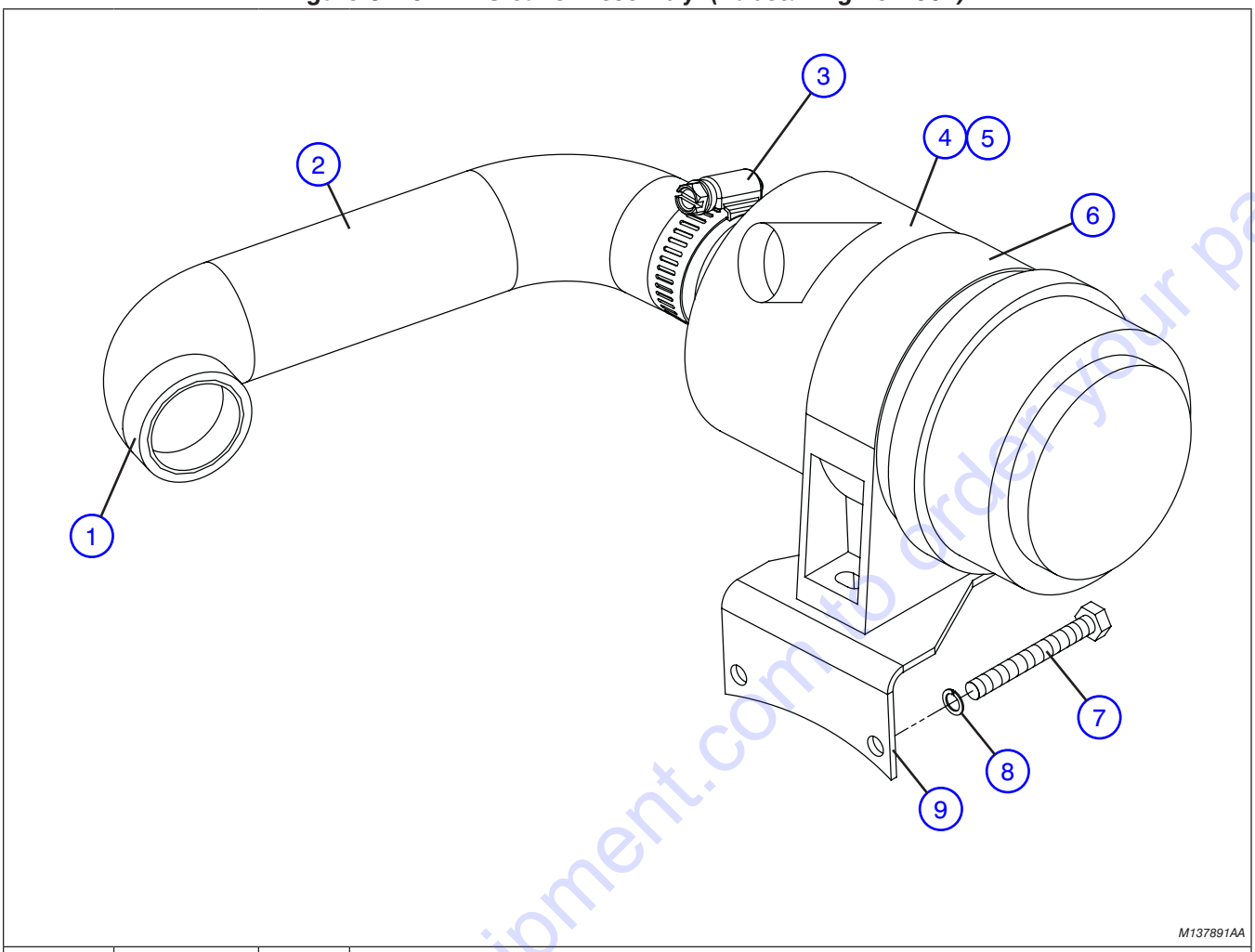


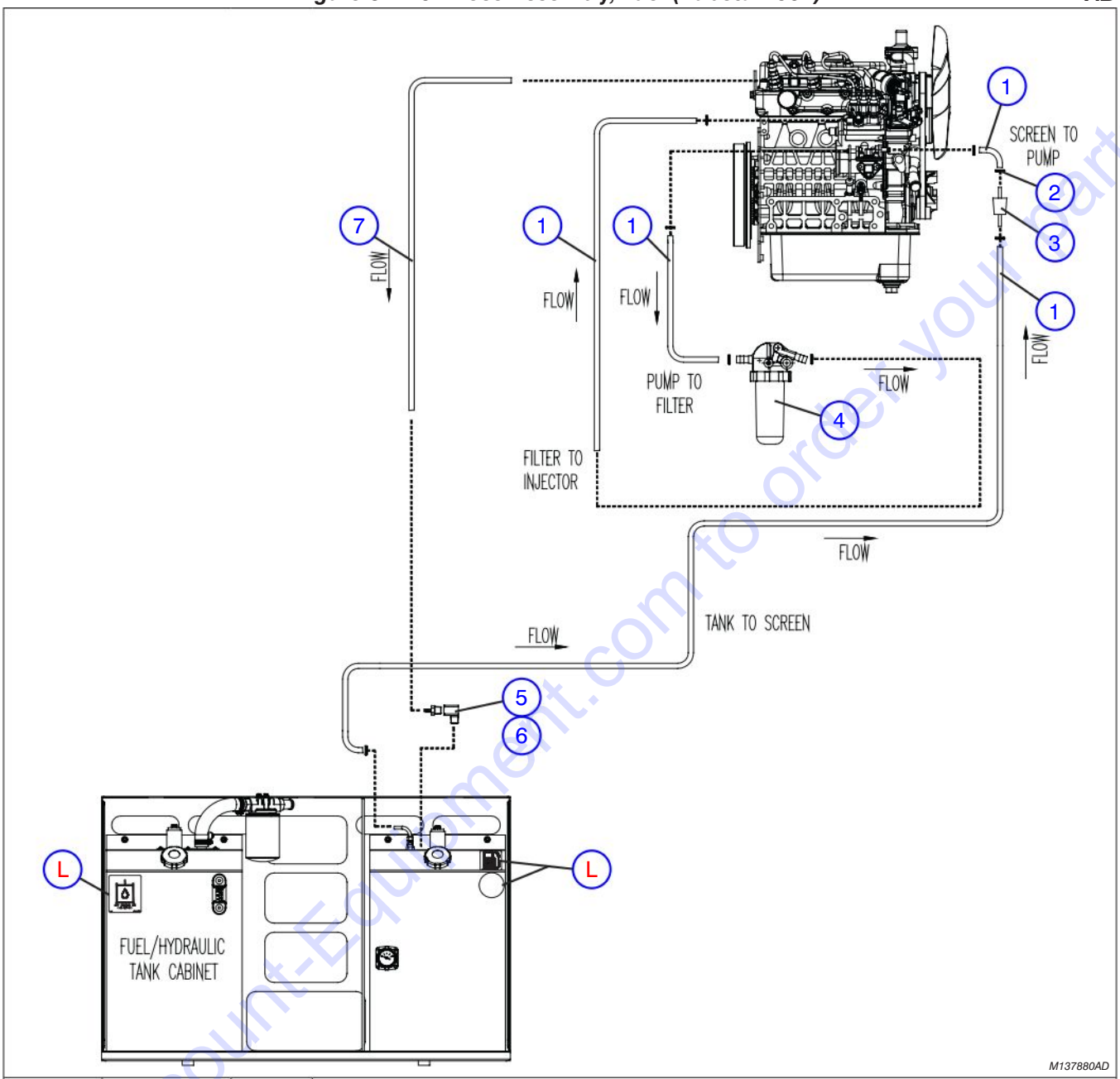
Figure 6.4-8. Engine Assembly (Kubota Engine D902) (Continued)

Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
8	(Ref.)	-	ASSEMBLY, Exhaust System (For components, refer to Figure 6.4-3)
9	(Ref.)	-	OIL, Engine (Refer to Table 1.1.)
10	(Ref.)	-	SOLUTION, Engine coolant (Antifreeze) (Refer to Table 1.1.)
11	(Ref.)	-	ASSEMBLY, Radiator plate (For components, refer to Figure 6.4-1)
12	113400	1	SWITCH, Temperature
13	102838	1	SWITCH, Oil pressure
14	103850	AR	BOLT, Hex head (M10 x 1.25 x 30mm, Grade 8.8)
15	136665	AR	BOLT, Hex head (M10 x 1.25 x 35mm, Grade 8.8)
16	103848	AR	BOLT, Hex Head (M10 x 1.25 x 20mm, Grade 8.8)
17	130884	AR	WASHER, Lock (M10)
18	147634	4	MOUNT, Engine vibration control
19	137657	1	BRACKET, Exhaust
20	136033	2	BRACKET, Engine mount FR/RL
21	136032	2	BRACKET, Engine mount FL/RR
22	103856	AR	BOLT, Hex head (1/4”-20 x 3/4”)
23	104000	AR	WASHER, Lock (1/4” NOM. 0.06)
24	133869	AR	BOLT, Hex head (M8-1.25 x 25MM, Grade 8.8, ZP, DIN933)
25	116218	AR	WASHER, Lock (M8)
26	137200	1	BRACKET, Solenoid
27	103980	AR	NUT, Hex head (1/4”- 20, Grade B)
28	103859	AR	BOLT, Hex head (0.25”-20 x 1.5”, Grade 5)
29	106370	1	SOLENOID
30	137915	AR	NUT, Coupling (1/4”-28 x 1.25”)
31	106368	AR	NUT, Hex head jam (1/4”-28, Grade B)
32	137918	1	ROD, Threaded (1/4”-28 x 2.25”)
33	(Ref.)	-	RADIATOR KIT, Kubota DF972/D902 (For components, refer to Figure 6.4-4)
34	102984	46”	LINE, Fuel (5/16”)
35	139321	1	SOLENOID, Fuel shutdown
36	139252	1	CABLE, Welding #6GA
37	933832	1	WASHER, Flat - M8 x 16 O.D.
38	216001	2	BOLT, Hex Head - M10 x 1.25 x 30MM Gr. 8.8

Figure 6.4-9. Air Cleaner Assembly (Kubota Engine D902)



Index No.	Skyjack Part No.	Qty.	Description
-	137654	AR	ENGINE KIT, Kubota D902, Air Cleaner Kit
1	104528	1	• CLAMP, Gear (#28)
2	137893	1	• HOSE, Inlet
3	133222	1	• CLAMP, Gear (#32)
4	136144	1	• ASSEMBLY, Air cleaner (Kubota)
5	137924	1	• • FILTER ELEMENT (Kubota)
6	136148	1	• BRACKET, Air cleaner band
	136667	AR	• • BOLT, Hex head (M8-1.25 x 30mm)
	127940	AR	• • WASHER, Flat (M8 - ZN)
	121059	AR	• • NUT, Hex (M8-1.25)
7	137895	AR	• BOLT, Hex head (M8-1.25 x 35mm, Grade 8.8, ZP)
8	116218	AR	• WASHER, Lock (M8)
9	137120	1	• BRACKET, Air cleaner



Index No.	Skyjack Part No.	Qty.	Description
1	102984	174”	LINE, Fuel (5/16”)
2	103321	AR	CLAMP, Gear (#4)
3	139254	1	FILTER, Pre-fuel
4	(Ref.)	-	ASSEMBLY, Fuel filter (For components, refer to Figure 6.3-18)
5	103164	1	FITTING, Brass
6	103176	1	FITTING, (1/8” BAR-1/4” NPT, #125-2B)
7	102660	130”	LINE, Fuel (1/8”)
L	(Ref.)	-	LABELS (Refer to Figure 6.6-5)

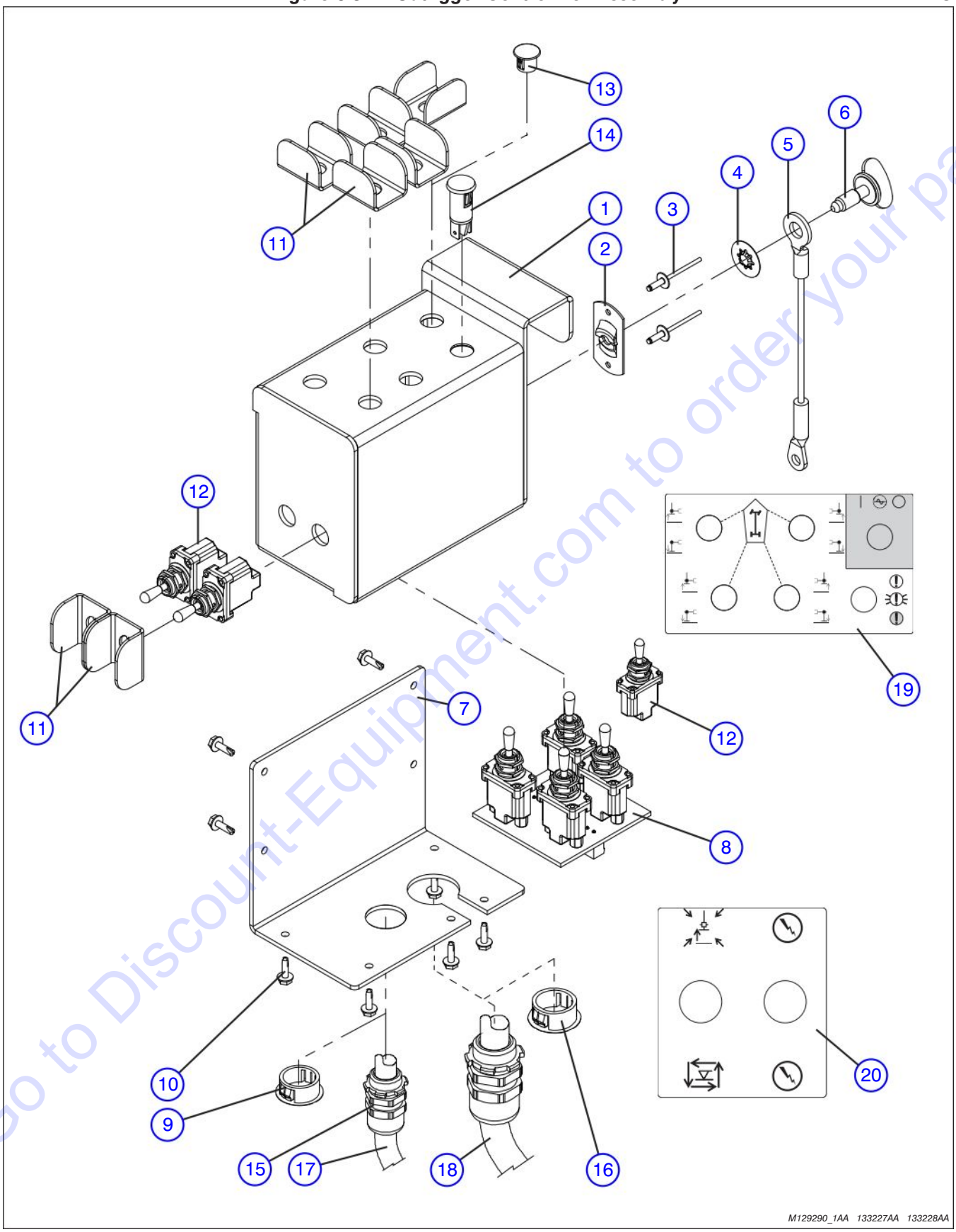


Figure 6.5-1. Outrigger Control Box Assembly

Index No.	Skyjack Part No.	Qty.	Description
A	129290	-	ASSEMBLY, Control Box (Outrigger Option Only)
B	132812	-	ASSEMBLY, Control Box (Hydraulic Generator Option Only)
C	129291	-	ASSEMBLY, Control Box (Outrigger & Hydraulic Option)
1	132811	1	• WELDMENT, Control box
2	120269	1	• RECEPTACLE, Screw captive
3	119945	2	• RIVET, Large aluminum pop
4	120270	1	• RETAINER, Screw captive
5	120277	1	• LANYARD, Nylon coated (6”)
6	120268	1	• SCREW, Captive wing head
7	129289	1	• WELDMENT, Bottom Cover
8	121664	1	• BOARD, Outrigger control **A, C**
	102853	4	• SWITCH, Toggle
9	102956	1	• PLUG, Snap-in hole (7/8”) **A**
10	112327	9	• SCREW, Hex head, self tapping (#8-18 x 1/2”)
11	111181	AR	• GUARD, Toggle Switch
12	102853	AR	• SWITCH, Toggle
13	114377	AR	• PLUG, Snap-in hole (1/2”) **A, B**
14	133133	1	• LIGHT, Indicator 12V amber **A, C**
15	103036	1	• CONNECTOR, Strain Relief 1/2”, **B, C**
16	131938	1	• PLUG, 1-1/8” Snapin Hole **B**
17	143533	1	CABLE ASSEMBLY, Hydraulic Generator **B, C (Model 6832)**
	103257	768”	• CABTIRE, 18/3
	143536	1	CABLE ASSEMBLY, Hydraulic Generator **B, C (Model 6826)**
	103257	660”	• CABTIRE, 18/3
18	(Ref.)	-	CABLE ASSEMBLY, Outrigger control **A, C** (For components, refer to Figure 6.5-2)
*19	133227	-	LABEL, Outrigger and hydraulic generator
*20	133228	-	LABEL, Auto level outrigger
			* Part of Label Kit

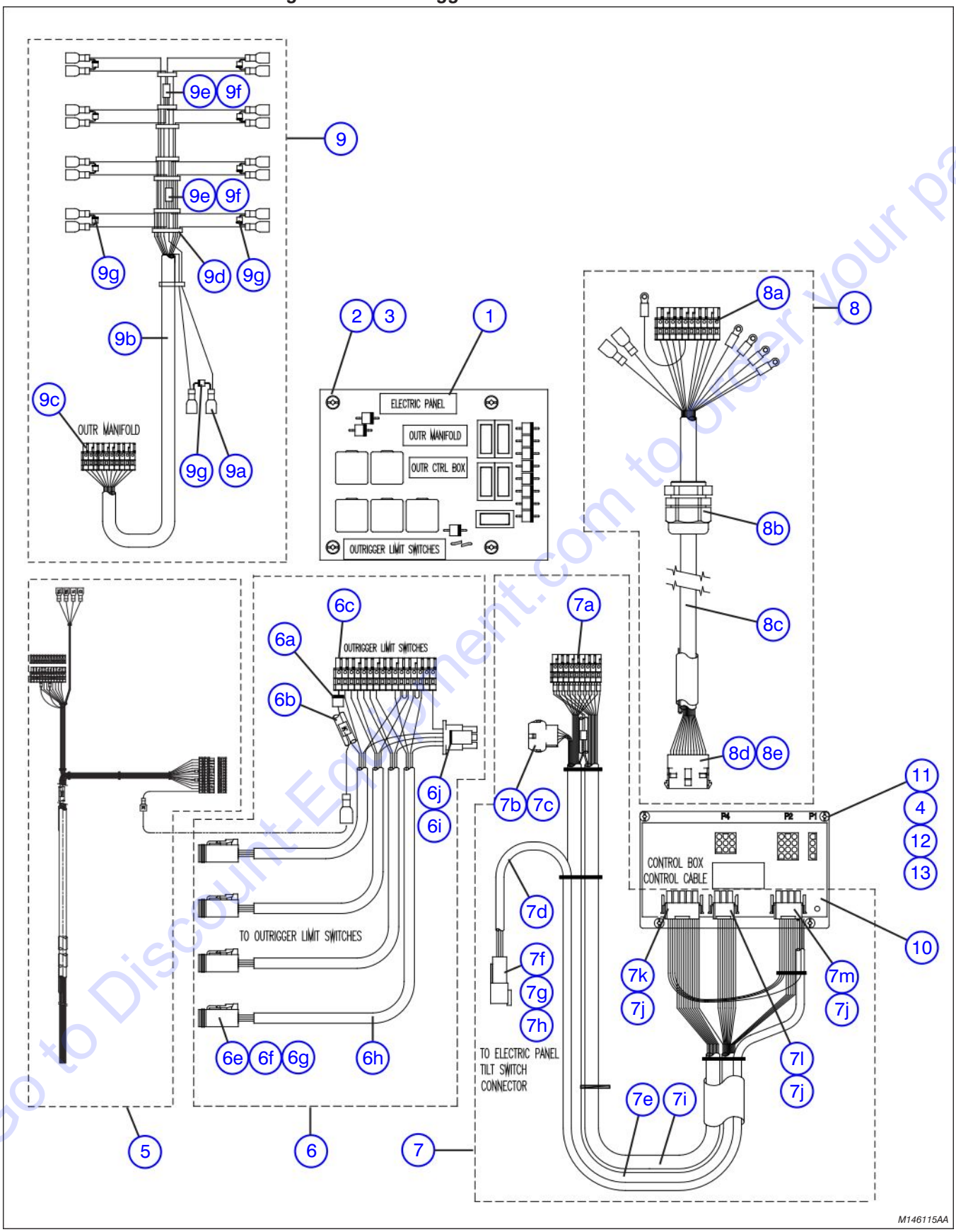
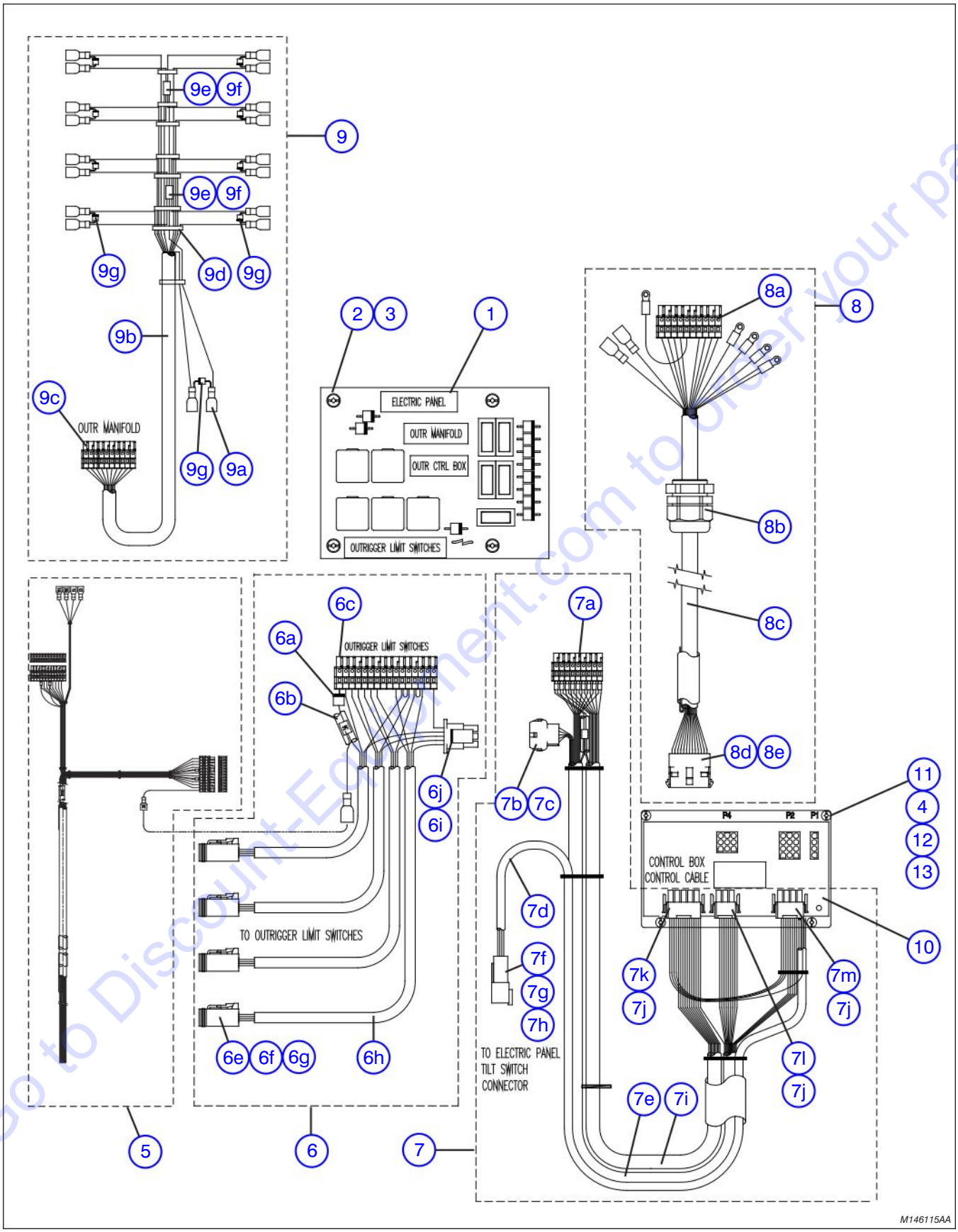


Figure 6.5-2. Outrigger Electrical Connections **AD**

Index No.	Skyjack Part No.	Qty.	Description
1	127036	1	PC BOARD, Outrigger Option 12 V
	127131	5	• RELAY, 12V (40 Amp)
	127132	5	• SWITCH (3 position)
2	103856	AR	BOLT, Machine (1/4-20 x 3/4”)
3	104000	AR	WASHER, Lock (1/4)
4	104185	AR	WASHER, Lock (#10)
5	146066	1	HARNESS, Outrigger & hydraulic generator **(ANSI/CSA)**
			(Order Part # 137967 for Machines with S/N 37000303 & Below)
	146067	1	HARNESS, Outrigger & hydraulic generator **(CE)**
			(Order Part # 137953 for Machines with S/N 37000303 & Below)
	119904	2	• PLUG, PC board 12-Pin Connector
	102887	57.5”	• CABLE, Control
6	137992	1	HARNESS, Outrigger auto-level limit switch
6a	102921	1	• DIODE, 6 Amp
6b	119431	1	• SPLICE, Parallel (10-12GA non insulated)
6c	119908	1	• PLUG, PC Board 16-Pin Connector
6d	139462	4	• FERRULE (16 GA)
6e	117579	4	• PLUG, Connector 4-PIN
6f	117581	4	• PLUG, Connector 4-pin wedge
6g	117591	16	• SOCKET, Connector contact (16-18)
6h	103255	444”	• CABTIRE, 18/4 (Right front)
6i	130445	1	• HOUSING, Male plug (6-Pole)
6j	116990	5	• PIN, Female Wire
7	137990	1	HARNESS, Outrigger Auto-Level Control Module
7a	119901	1	• PLUG, PC Board 9-pin connector
7b	132799	1	• HOUSING, Female plug (6-Pole)
7c	116989	5	• PIN, Male wire
7d	103255	28”	• CABTIRE (18/4)
7e	102888	30”	• CABLE, Control (16/10)
7f	117578	1	• RECEPTACLE, Connector 4-pin
7g	117580	1	• RECEPTACLE, Connector 4-pin wedge
7h	117590	4	• CONTACT, Connector pin (16-18)
7i	102887	30”	• CABLE, Control (16/15)
7j	116990	34	• PIN, Female wire
7k	116994	1	• HOUSING, Male plug (15-pole)
7l	116993	1	• HOUSING, Male plug (9-pole)
7m	130449	1	• HOUSING, Male plug (12-pole)

Part list continued on the following page.



Index No.	Skyjack Part No.	Qty.	Description
			Part list continued from the previous page.
8	137552	1	HARNESS, Outrigger Control Cable **(Model 6826)**
	134032	1	HARNESS, Outrigger Control Cable **(Model 6832)**
8a	119902	1	• PLUG, PC Board 10-pin Connector
8b	300788	1	• CONNECTOR, Strain Relief
8c	102887	636”	• CABLE, Control 16/15 **(Model 6826)**
		700”	• CABLE, Control 16/15 **(Model 6832)**
8d	132800	1	• HOUSING, 15-Pole Male Plug
8e	116989	AR	• PIN, Male Wire
9	137991	1	HARNESS, Outrigger Manifold
9a	105359	18	• TERMINAL, Female (14-16GA insulated, Blue)
9b	102888	96”	• CABLE, Control 16/10
9c	119902	1	• PLUG, PC Board 10-pin Connector
9d	113719	AR	• TIEWRAP, (3-5/8”, Black)
9e	102871	2	• SPLICE, Parallel
9f	103370	4”	• HEATSHRINK, (3/8” DIA)
9g	102921	9	• DIODE, 6 Amp
10	132804	1	MODULE, Outrigger Auto-Levelling Controller
11	105621	AR	BOLT, Machine (#10-32 x 1”)
12	104694	AR	WASHER, Flat (#10)
13	104003	AR	NUT, Hex (#10-32)

Figure 6.5-3. Front And Rear Outrigger Assembly

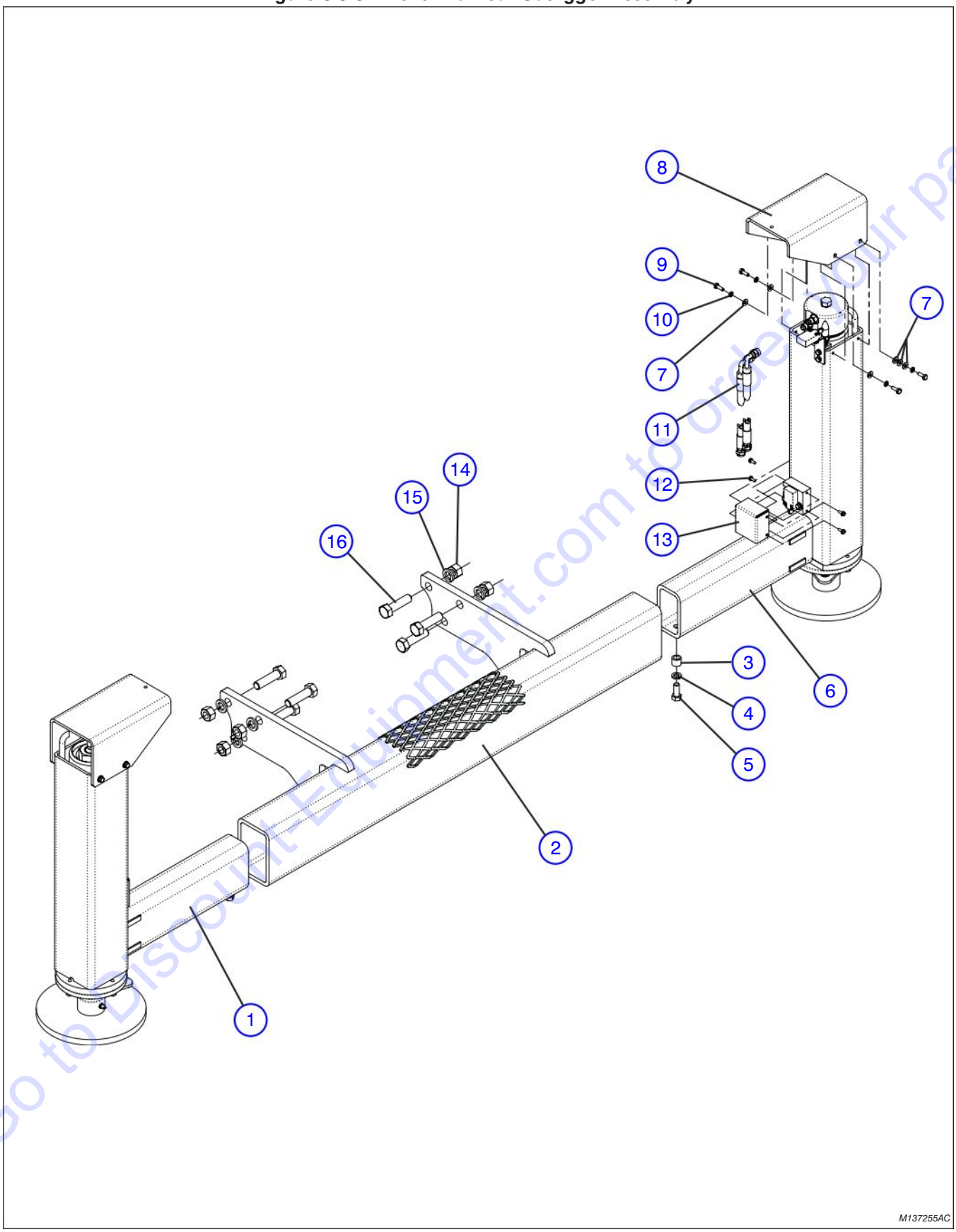


Figure 6.5-3. Front And Rear Outrigger Assembly

Index No.	Skyjack Part No.	Qty.	Description
1	(Ref.)	-	OUTRIGGER ASSEMBLY, RH (For components, refer to Figure 6.5-4)
2	137210	1	OUTRIGGER WELDMENT, Rear
	137966	1	OUTRIGGER WELDMENT, Front
3	118387	2	SPACER, Outrigger
4	103470	2	WASHER, Lock (1/2”, Grade 5)
5	103909	2	BOLT, Hex head (1/2”- 13 x 1.25”, Grade 5)
6	(Ref.)	-	ASSEMBLY, Outrigger (LH) (For components, refer to Figure 6.5-4)
7	103995	12	WASHER, Flat (1/4”)
8	102355	2	PLATE, Outrigger hose cover
9	103856	8	BOLT, Hex head (1/4”- 20 x 3/4”, Grade 5)
10	104000	8	WASHER, Lock (1/4”)
11	127422	4	HOSE, Hydraulic line
12	116193	8	SCREW, Hex washer head (#10-32 x 1/2”)
13	116826	2	COVER, Limit switch
14	139672	6	NUT, Hex head (3/4”- 10 Grade 5)
15	702194	6	WASHER, Flat (3/4”)
16	139671	6	BOLT, Hex head (3/4”- 10 x 2.75”, Grade 8)

Note: ***Quantities are as per complete machine assembly***

Figure 6.5-4. Outrigger Assembly

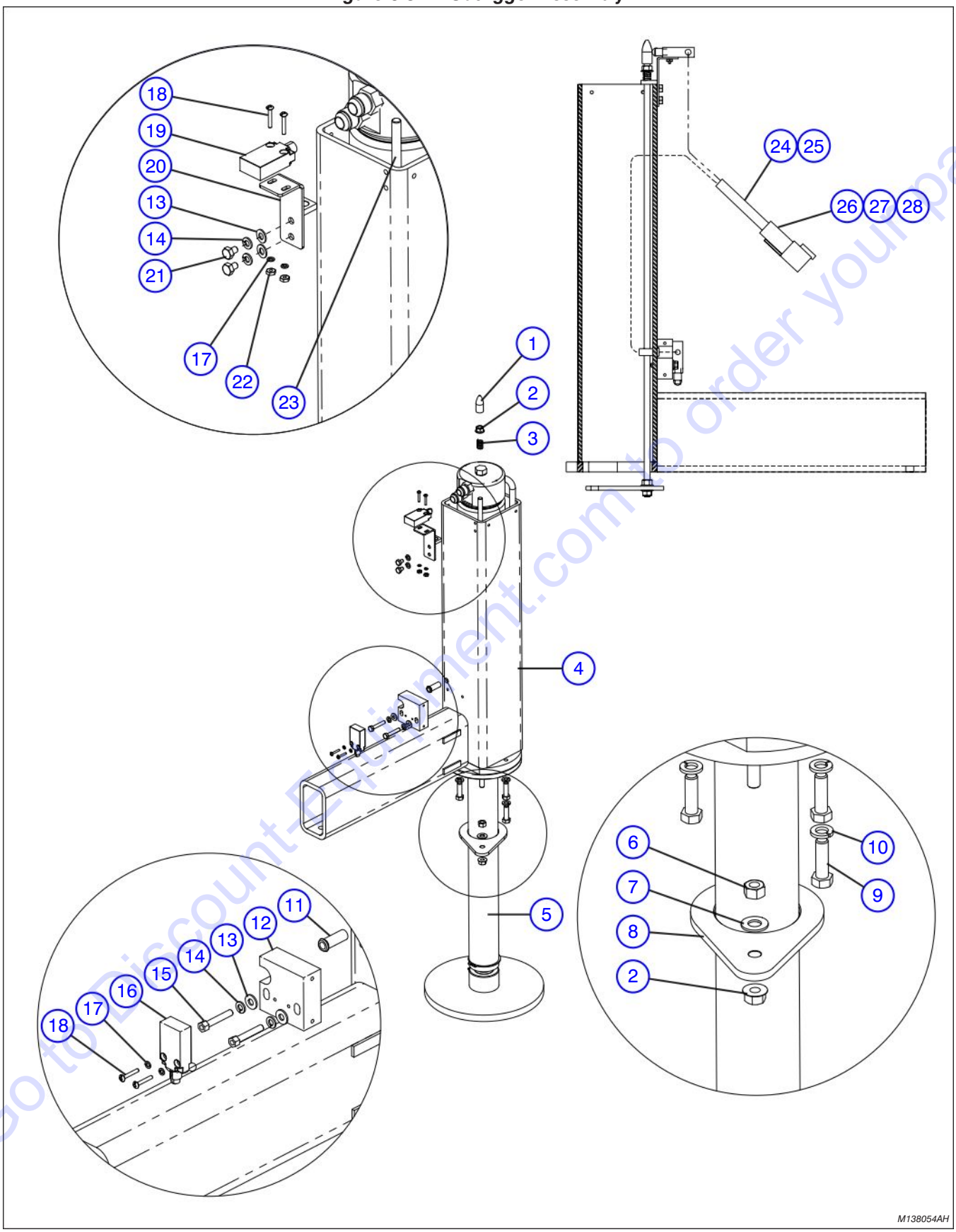
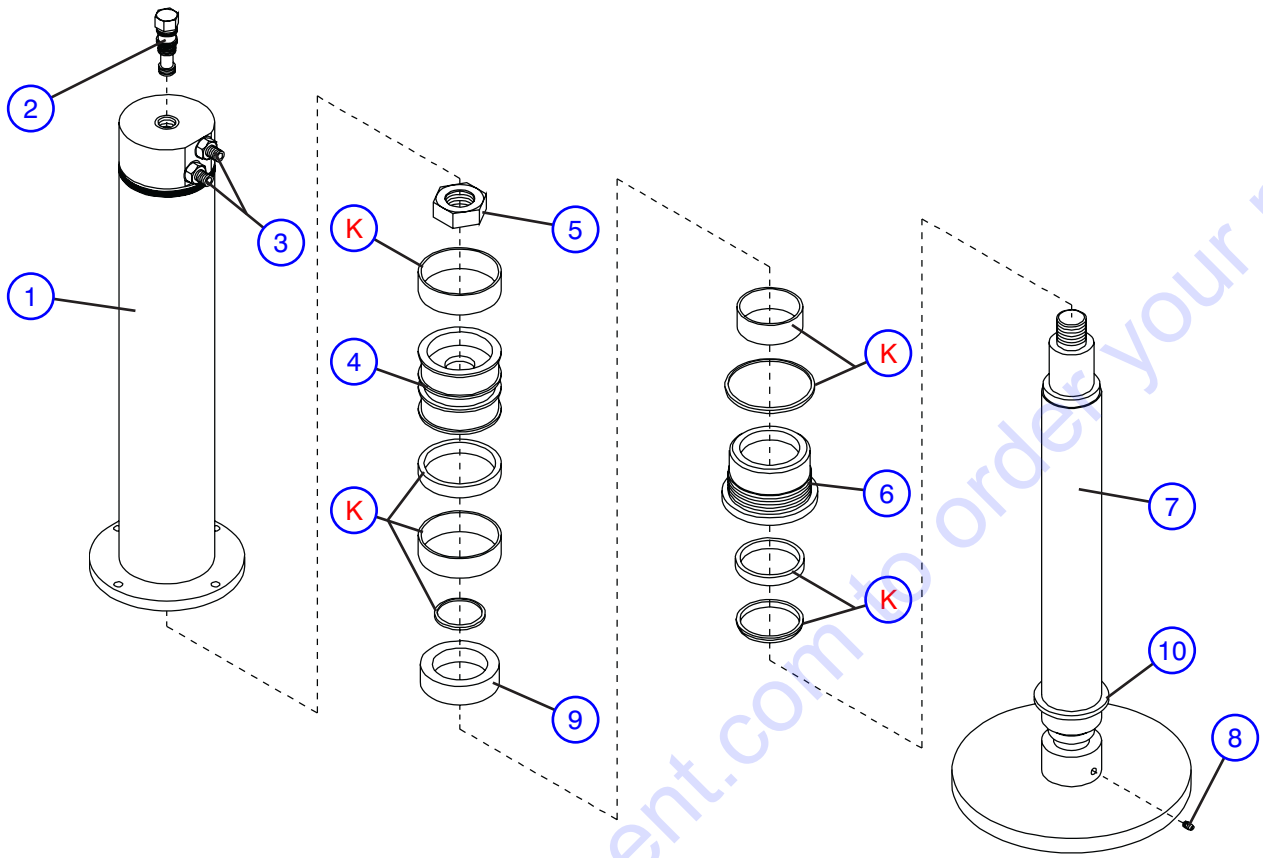


Figure 6.5-4. Outrigger Assembly

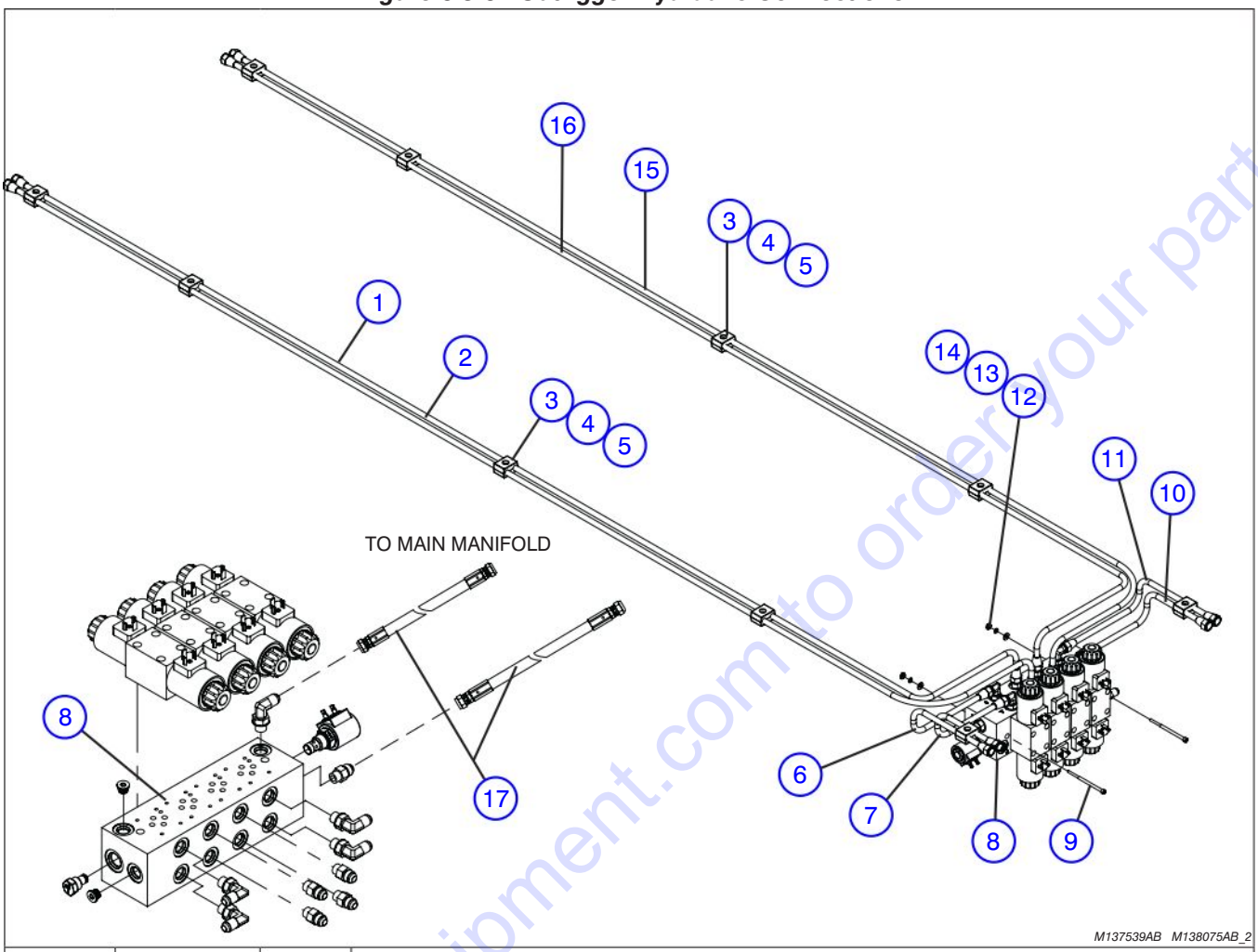
Index No.	Skyjack Part No.	Qty.	Description
A	138054	2	OUTRIGGER ASSEMBLY (FL/RR)
B	138055	2	OUTRIGGER ASSEMBLY (FR/RL)
1	124972	1	• NUT CAP, (3/8"- 16 UNC)
2	112601	1	• NUT, Hex flange lock (3/8"- 16)
3	124356	1	• SPRING, Compression (1/2" outer diameter x 1.75")
4	124196	1	• ENCLOSURE, Outrigger (FL/RR), A
	124200	1	• ENCLOSURE, Outrigger (FR/RL), B
5	(Ref.)	1	• ASSEMBLY, Outrigger cylinder
			(For components, refer to Figure 5.5)
6	103978	2	• NUT, Hex head (3/8"-16, Gr. 5)
7	103472	1	• WASHER, Flat (3/8")
8	124338	1	• CLIP, Plastic
9	101297	3	• BOLT, Hex head (3/8"-16 x 1.25", Gr. 5)
10	103999	3	• WASHER, Lock (3/8")
11	118478	1	• BUSHING, PVC (5/16" inner diameter x 1.25")
12	116827	1	• MOUNT, Bar flat limit switch
13	103995	4	• WASHER, Flat (1/4")
14	104000	4	• WASHER, Lock (1/4")
15	213350	2	• SCREW, Socket Head (1/4"-20 x 1.5", Gr. 5)
16	207008	1	• SWITCH, Limit, assembly with cable (80")
17	112249	4	• WASHER, Lock (#8)
18	126499	4	• SCREW, Round head machine (#8-32 x 7/8")
19	207009	1	• SWITCH, Limit, assembly with cable (60")
20	124335	1	• BRACKET, Outrigger Upper switch
21	103855	2	• BOLT, Hex head (1/4"-20 x 1/2")
22	103986	2	• NUT, Hex head (#8-32)
23	127003	1	• ROD, Outrigger actuator
24	103091	58"	• PROTECTOR, Wire (5/8" diameter)
25	113584	4"	• HEATSHRINK, 1/2" (Black)
26	117580	1	• CONNECTOR, Receptacle wedge (4 pin)
27	117590	4	• CONNECTOR, Pin contact (16-18)
28	117578	1	• CONNECTOR, Receptacle (4 pin)

Figure 6.5-5. Outrigger Cylinder Assembly



Index No.	Skyjack Part No.	Qty.	Description
-	132694	-	OUTRIGGER CYLINDER ASSEMBLY
1	152132	1	• WELDMENT, Outrigger Cylinder Barrel
2	104115	1	• VALVE, Pilot Check (Not part of cylinder)
3	103069	2	• FITTING, O-ring
4	120640	1	• PISTON
5	106230	1	• NUT, Lock (1.25”-12, Grade 8)
6	120387	1	• GLAND, Front head
7	126999	1	• OUTRIGGER CYLINDER ROD ASSEMBLY
8	102027	1	• FITTING, Grease (1/8P)
	132565	1	• CAP, Rubber grease
9	132690	1	• SPACER, Cylinder tube
10	126279	1	• RING, Retaining (2.5”)
K	104355	1	KIT, Seal repair

Figure 6.5-6. Outrigger Hydraulic Connections



Index No.	Skyjack Part No.	Qty.	Description
1	137536	1	TUBE ASSEMBLY, Hydraulic outrigger (front left inner)
2	137538	1	TUBE ASSEMBLY, Hydraulic outrigger (front left outer)
3	109127	20	MOUNT, Tube twin insert
4	103995	AR	WASHER, Flat (1/4")
5	103980	AR	NUT, Hex head (1/4"- 20, Grade 5)
6	137550	1	TUBE ASSEMBLY, Hydraulic outrigger (rear left outer)
7	137548	1	TUBE ASSEMBLY, Hydraulic outrigger (rear left inner)
8	(Ref.)	-	MANIFOLD ASSEMBLY, Outrigger (For components, refer to Figure 6.5-7)
9	137556	AR	SCREW, Socket head cap
10	137544	1	TUBE ASSEMBLY, Hydraulic outrigger (rear right inner)
11	137546	1	TUBE ASSEMBLY, Hydraulic outrigger (rear right outer)
12	104694	AR	WASHER, Flat (#10)
13	104185	AR	WASHER, Lock (#10)
14	103987	AR	NUT, Hex head (#10-24)
15	137534	1	TUBE ASSEMBLY, Hydraulic outrigger (front right outer)
16	137532	1	TUBE ASSEMBLY, Hydraulic outrigger (front right inner)
17	107275	2	HOSE ASSEMBLY, Hydraulic line

Figure 6.5-7. Outrigger Manifold Assembly

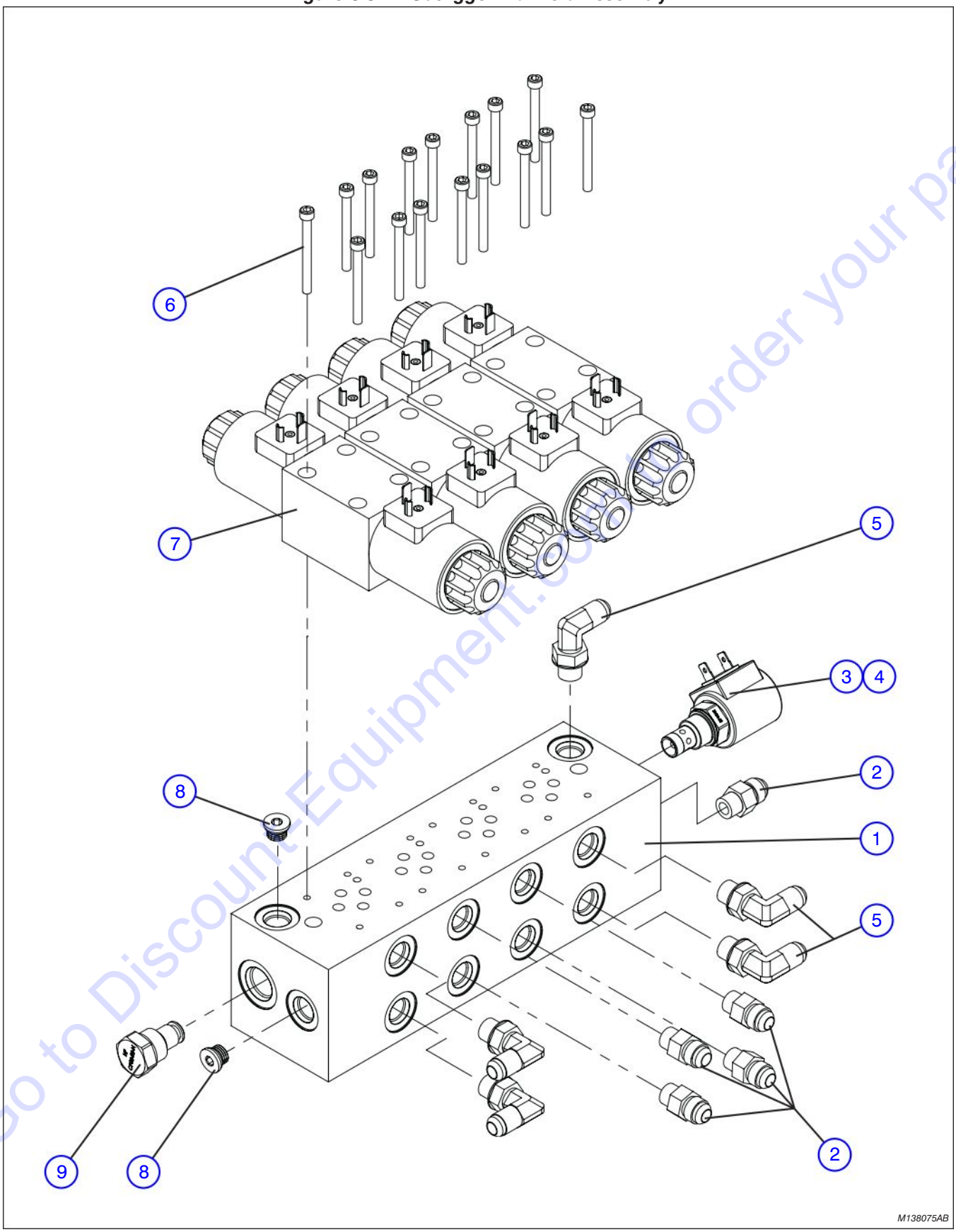


Figure 6.5-7. Outrigger Manifold Assembly

Index No.	Skyjack Part No.	Qty.	Description
-	133122	1	MANIFOLD OUTRIGGER ASSEMBLY
1	111970	1	• MANIFOLD, Outrigger
2	103069	AR	• FITTING, Straight
3	103613	1	• COIL, 12V solenoid 2 prong
4	103655	1	• VALVE, Poppet valve
5	114578	AR	• FITTING, Elbow
6	103920	AR	• BOLT, Socket Head Cap Screw #10-24 x 2”
7	128318	AR	• ASSEMBLY, Directional Spool Valve 12V “Hytos”
	128321	AR	• • COIL, 12 Volt Spool Valve
8	104437	AR	• PLUG
9	113801	1	• PLUG, Cavity

Figure 6.5-8. 800W Inverter Option

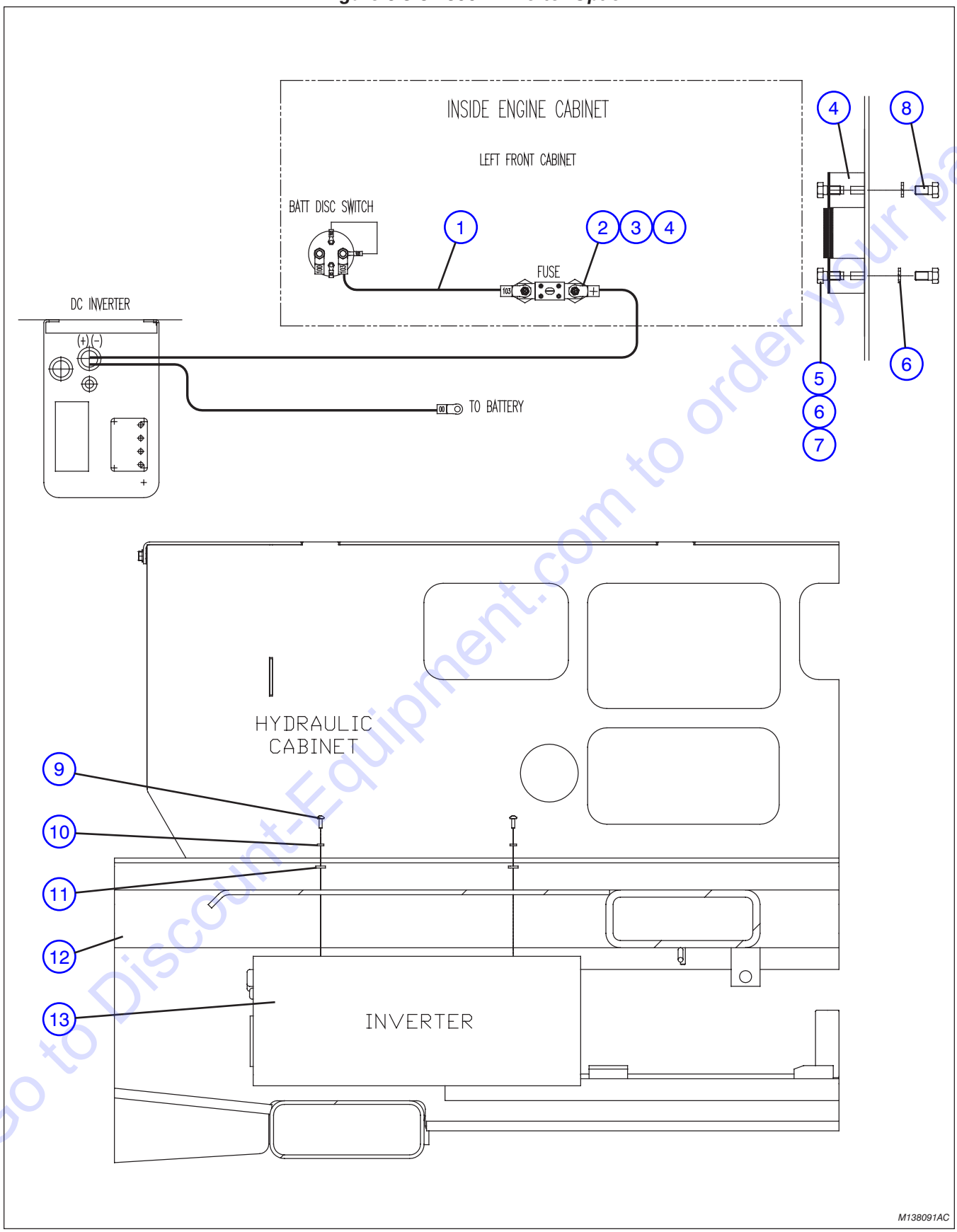


Figure 6.5-8. 800W Inverter Option

Index No.	Skyjack Part No.	Qty.	Description
1	138093	1	CABLE, Welding #6GA, 1/4” x 8” x 3/8”, (103, 103)
2	138094	1	FUSE, 125 Amp
3	(Ref.)	-	LABEL, Fuse (For components, refer to Figure 6.6-5)
4	103068	2	INSULATOR, Fuse
5	103855	AR	BOLT, Hex head (1/4”-20 x 1/2”, Grade 5)
6	104000	AR	WASHER, Lock (1/4”)
7	103995	AR	WASHER, Flat (1/4”)
8	103892	AR	BOLT, Hex head (1/4”-20 x 0.62”, Grade 5)
9	103856	4	BOLT, Hex head cap screw (1/4”-20 x 3/4”)
10	100400	4	WASHER, Lock (1/4”)
11	103995	4	WASHER, Flat (1/4”)
12	(Ref.)	-	WELDMENT, Base (For components, refer to Figure 6.3-1)
13	137269	1	INVERTER, 12VDC, 110VAC @ 60HZ **(ANSI/CSA)**
	137403	1	INVERTER, 12VDC, 110/220VAC @ 50HZ **(CE)**

Figure 6.5-9. 110/220 Clamp Assembly Option

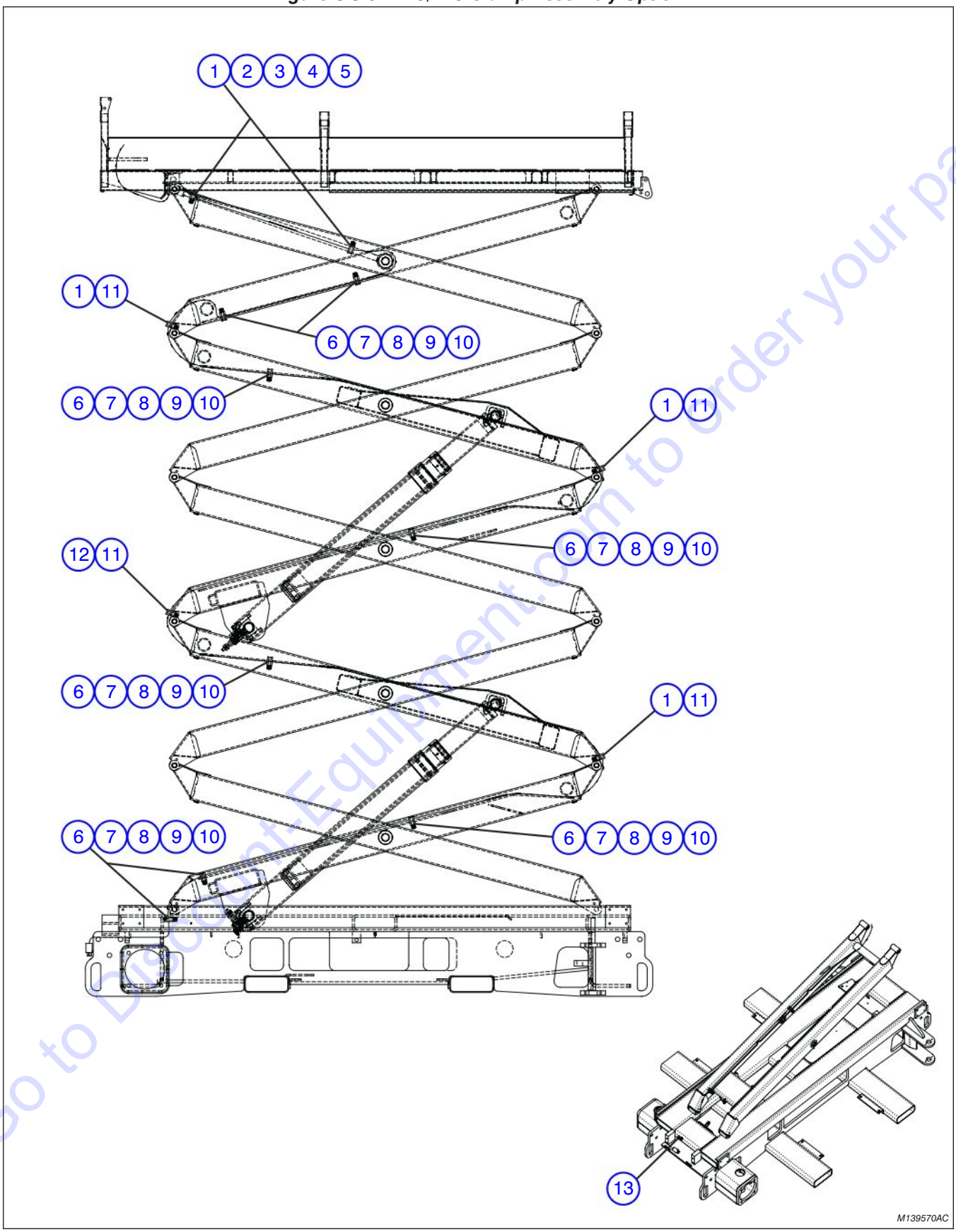


Figure 6.5-9. 110/220 Clamp Assembly Option

Index No.	Skyjack Part No.	Qty.	Description
1	103078	AR	CLAMP, Double G10
2	101632	AR	BOLT, Hex head (3/8”-16 x 3/4” Grade 5)
3	103999	AR	WASHER, Lock (3/8”)
4	103472	AR	WASHER, Flat (3/8”)
5	103978	AR	NUT, Hex head (3/8”-16 Grade 5)
6	125810	AR	CLAMP, Double S470G5-1
7	103962	AR	SCREW, Round head machine (#10 - 32 x 1/2”)
8	104694	AR	WASHER, Flat (#10)
9	104185	AR	WASHER, Lock (#10)
10	104003	AR	NUT, Hex head (#10-32)
11	122501	AR	SCREW, Machine hex washer head (3/8”-16 x 5/8”)
12	123764	1	CLAMP, Single G6
13	124763	1	LABEL, Ontario hydro

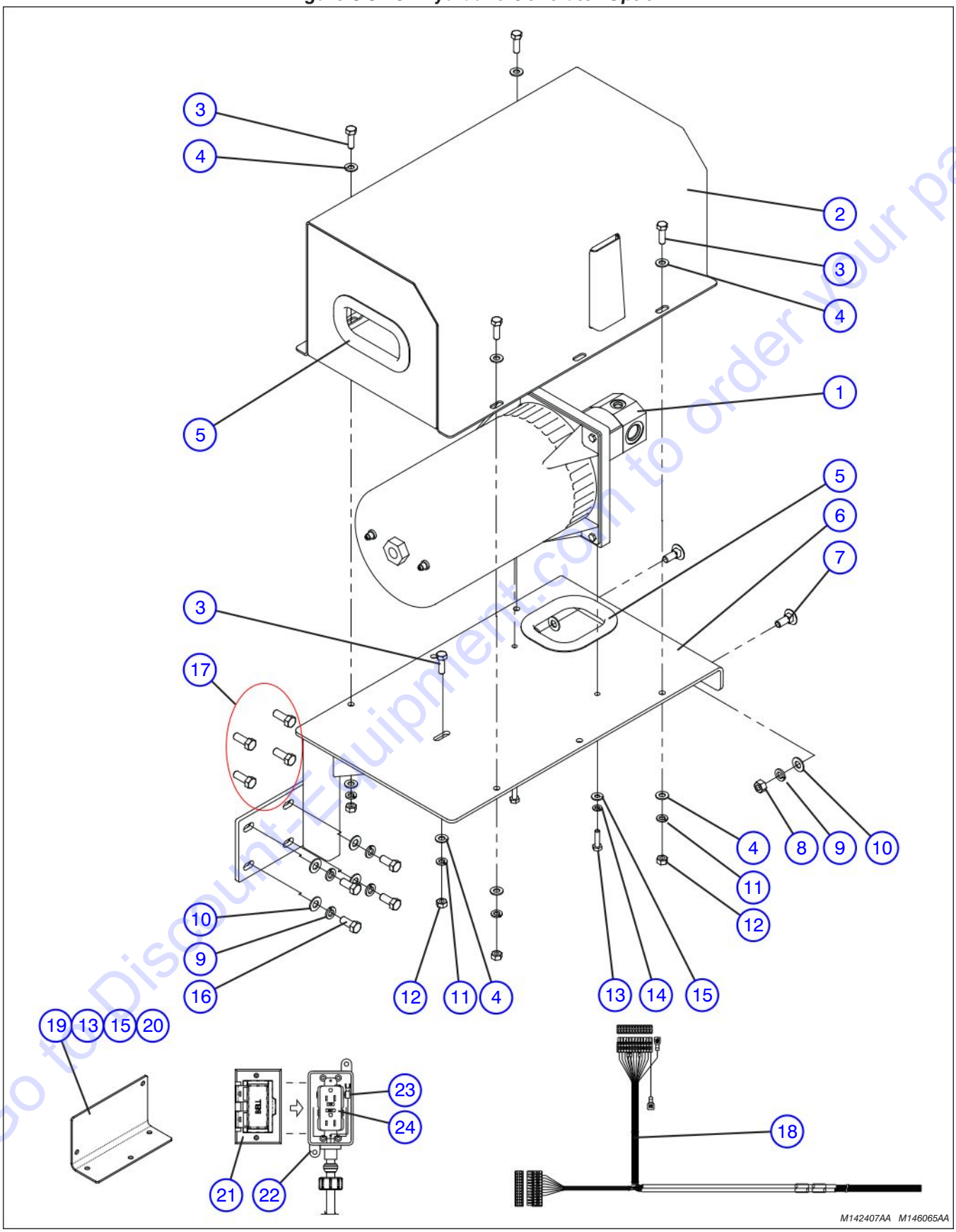


Figure 6.5-10. Hydraulic Generator Option **AD**

Index No.	Skyjack Part No.	Qty.	Description
1	145952	1	GENERATOR, 2kW Hydraulic (115V/220V) **CE**
	141829	1	GENERATOR, 2kW Hydraulic (115V) **ANSI/CSA**
2	142417	1	WELDMENT, Generator cover
3	103864	5	BOLT, Hex head (0.312-18 x 1 grade 5)
4	103996	9	WASHER, Flat 0.312
5	143693	2	GUARD, Tray edge
6	142395	1	WELDMENT, Generator mount
7	125800	2	BOLT, Carriage (3/8 x 1 lg.)
8	103978	2	Nut, Hex head (0.375-16 grade 5)
9	103999	6	WASHER, Lock (0.375)
10	103472	6	WASHER, Flat (0.375)
11	103404	5	WASHER, Lock 0.312
12	100397	5	Nut, Hex head (0.312-18 grade 5)
13	103856	AR	BOLT, Hex head (0.25-20 x 0.75 grade 5)
14	104000	2	WASHER, Lock (0.25)
15	103995	AR	WASHER, Flat (0.25)
16	300437	4	BOLT, Hex head (0.375-16 x 0.875 grade 5)
17	103473	4	BOLT, Hex head (0.375-16 x 1 grade 5) ***(for Machines with Scissor Guards)***
18	(Ref.)	1	HARNESS, Outrigger & hydraulic generator (For components, refer to Figure 6.5-2)
19	147133	1	BRACKET, Power receptacle box (if equipped)
20	115649	2	NUT, Hex nylon lock (1/4”-20 Grade 5) (if equipped)
21	109699	1	PLATE, Weatherproof cover (if equipped)
22	136328	1	BOX, Outlet with fitting (if equipped)
23	109892	1	TERMINAL, Fork (16-14GA) (if equipped)
24	109698	1	RECEPTACLE, GFI (125V) (if equipped)

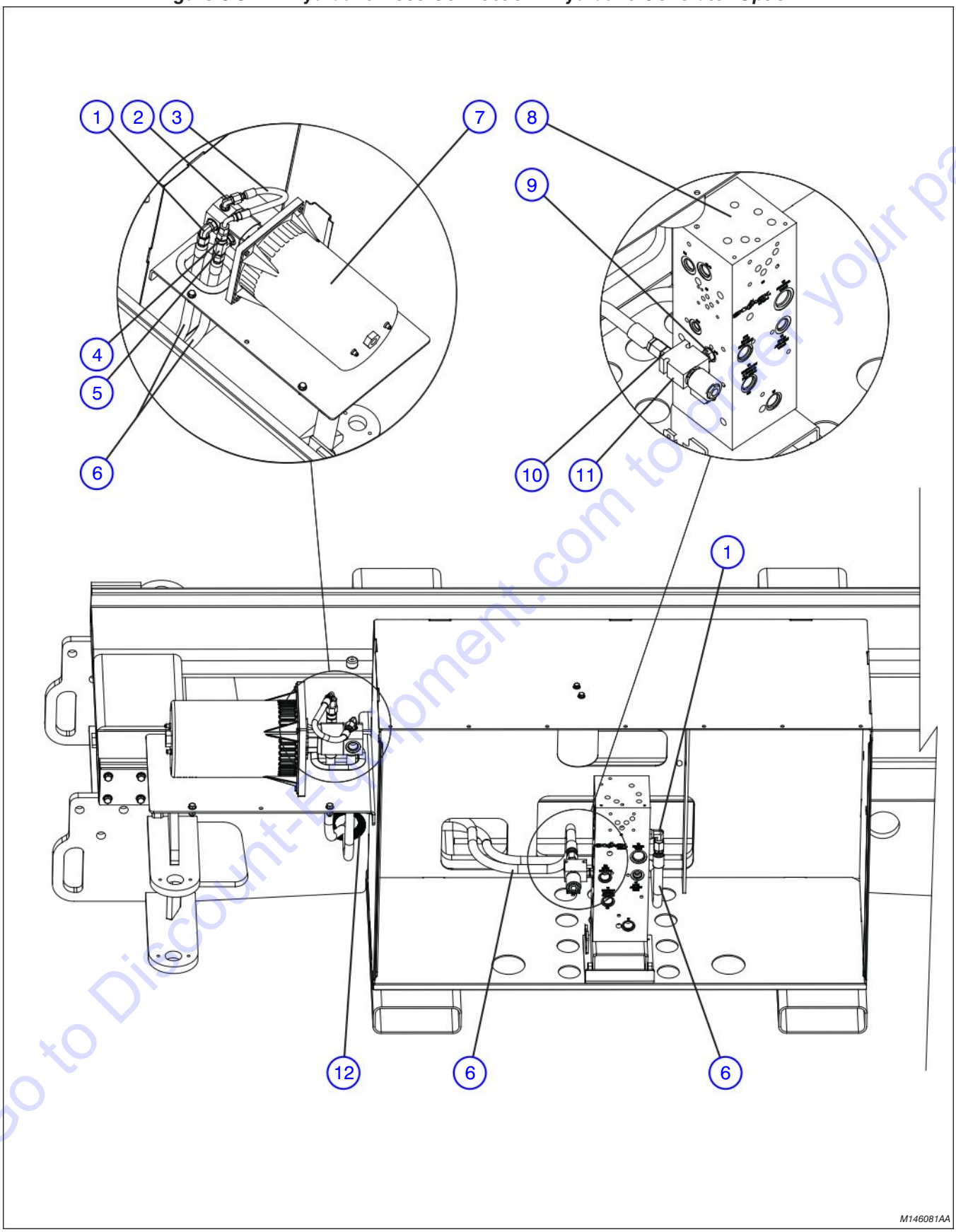
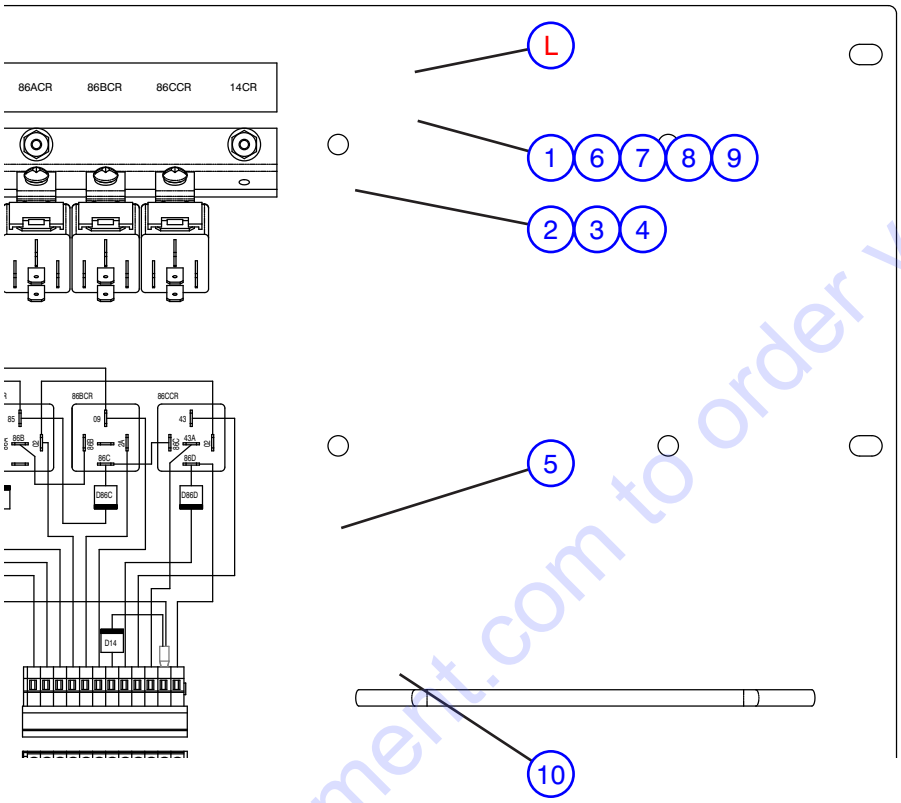


Figure 6.5-11. Hydraulic Hose Connection - Hydraulic Generator Option **AD**

Index No.	Skyjack Part No.	Qty.	Description
1	114583	2	FITTING, Hydraulic (08MJ08MB 90 DEG)
2	113348	1	FITTING, Hydraulic (6-4 O-RING 90 elbow)
3	106551	1	HOSE, Hydraulic line (1/4 DIA*10)
4	110498	1	FITTING, Hydraulic (08FJ06MJ reducer)
5	146107	1	FITTING, Tee (10MORB - 08MJ - 08MJ)
6	143653	2	HOSE, Hydraulic (1/2 08JICF - 08JICF X 71”)
7	(Ref.)	-	GENERATOR, 2kW Hydraulic (115V/220V) (For components, refer to Figure 6.5-10)
8	(Ref.)	-	ASSEMBLY, Main manifold (For components, refer to Figure 6.3-13)
9	122428	1	FITTING, (6-6 MALE O-ring TO MALE O-ring)
10	104402	1	FITTING, Straight connector (6 SAE - 8 JIC)
11	146109	1	VALVE ASSEMBLY, 12V
	146082	1	• VALVE BODY
	103613	1	• COIL, 12V
	103655		• VALVE, Brake feed (N.C.)
12	146110	1	WIRE PROTECTOR, (3/4”ID x 9.5”)



Index No.	Skyjack Part No.	Qty.	Description
-	146098	-	ASSEMBLY, Hydraulic generator relay
1	146055	1	• BRACKET, Relay mount
2	127035	3	• RELAY, 12V 40 AMP
3	115545	3	• BOLT, Machine (#10-32*0.375)
4	104185	3	• WASHER, Lock (#10 NOM)
5	138053	1	• CONNECTOR, Male 12 pin
6	120094	2	BOLT, Machine (#10-32*5/8)
7	104694	2	WASHER, Flat (#10 S.A.E)
8	104185	2	WASHER, Lock (#10 NOM)
9	104003	2	NUT, Machine (#10-32 grade B)
10	(Ref.)	2	DOOR, Instrumentation panel (Refer to Figure 6.3-15)
L	146083	1	LABEL, Relay names outrigger & hydraulic generator

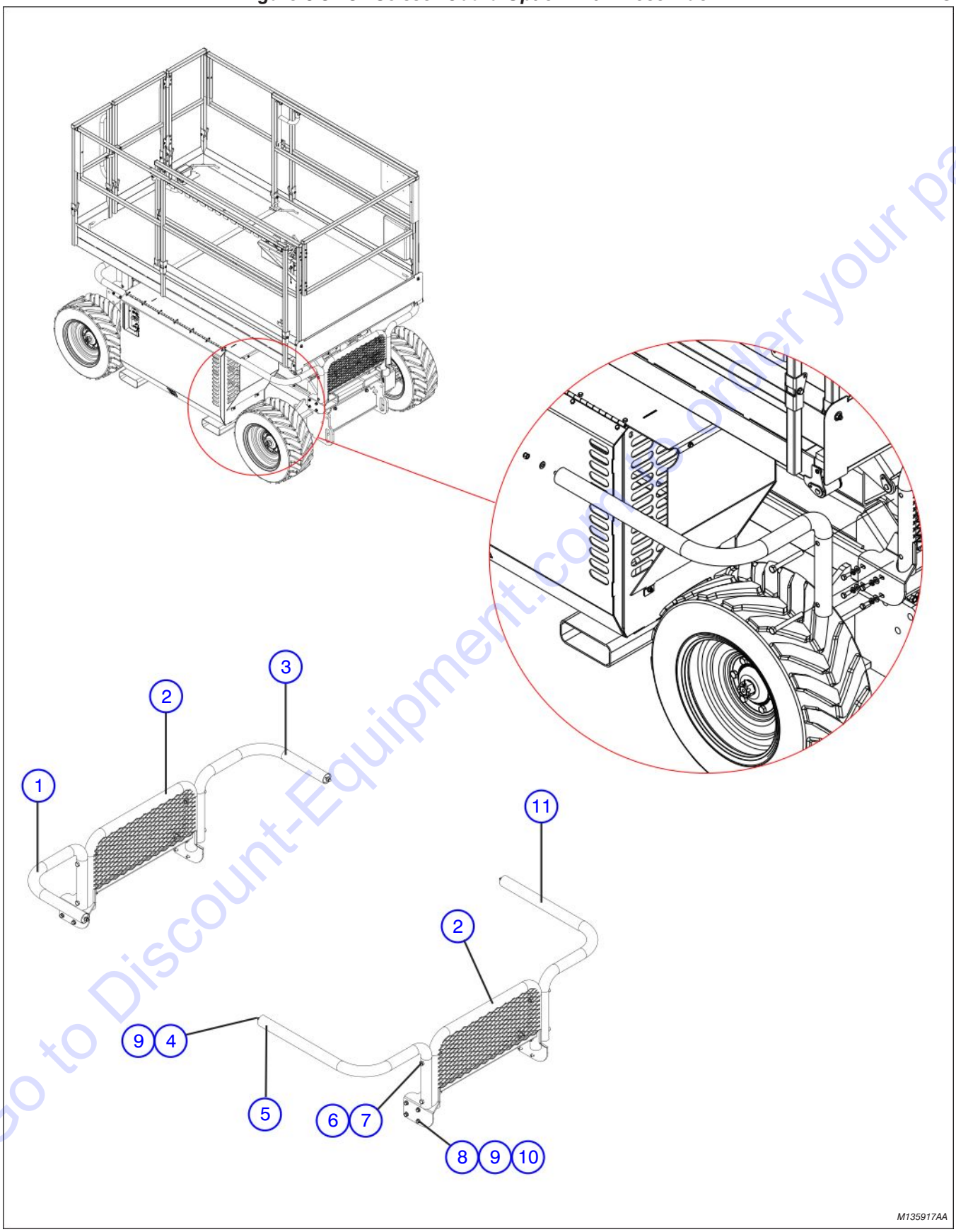
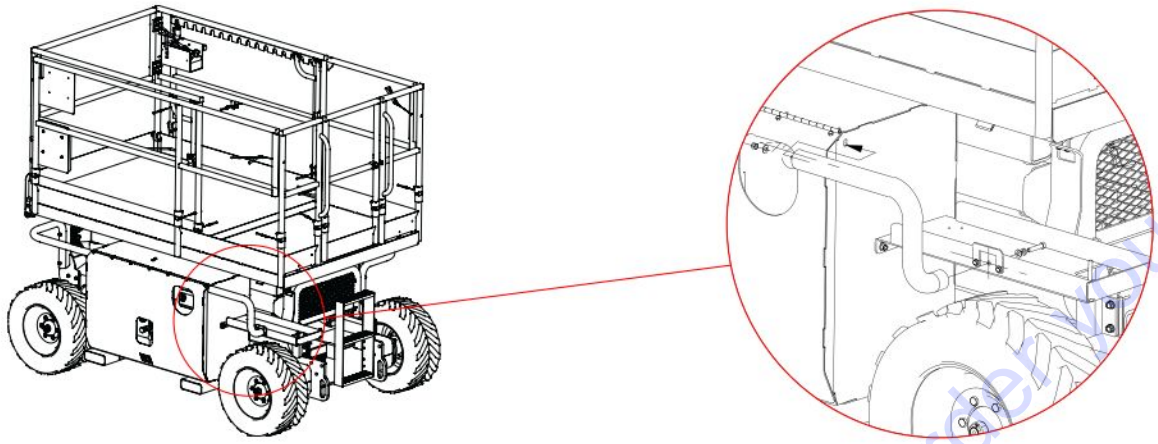


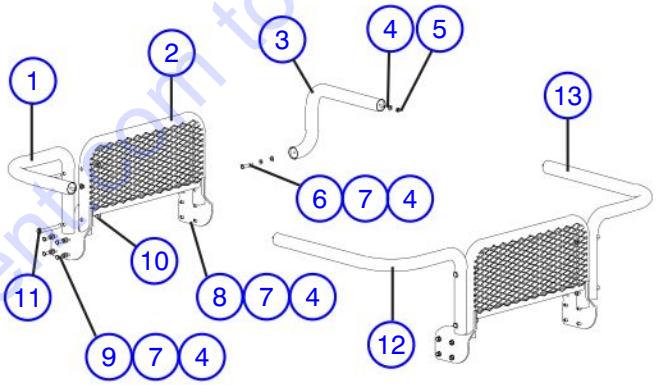
Figure 6.5-13. Scissor Guard Option With Diesel Fuel **AC**

Index No.	Skyjack Part No.	Qty.	Description
-	135917	1	Scissor Guard Assembly
1	139408	1	• WELDMENT, Scissor guard (right rear)
2	139400	2	• WELDMENT, Scissor guard (front/rear)
3	139407	1	• WELDMENT, Scissor guard (left rear)
4	104606	4	• NUT, Hex lock (0.375-16)
5	139403	1	• WELDMENT, Scissor guard (right front)
6	111420	8	• BOLT, Hex head (1.5-13 x 4.500)
7	702507	8	• NUT, Hex lock (0.500-13)
8	300437	16	• BOLT, Hex head (0.375-16 x 0.875)
9	103472	20	• WASHER, Flat (0.375)
10	103999	16	• WASHER, Lock (0.375)
11	139404	1	• WELDMENT, Scissor guard (left front)

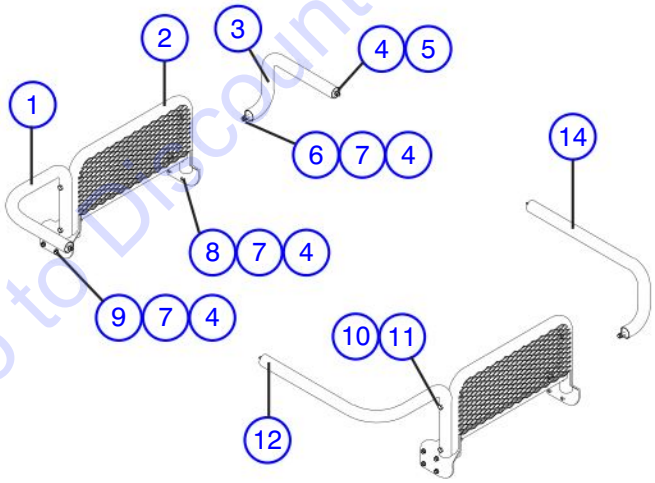
A - Single Propane

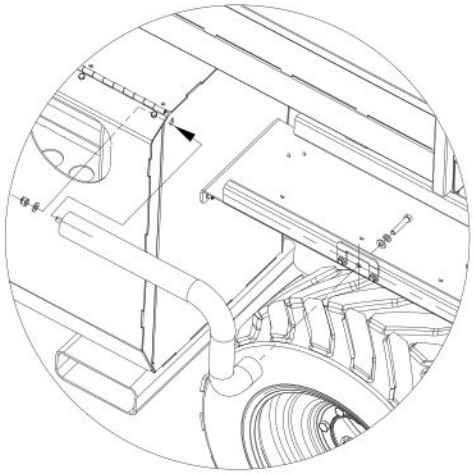


B - Dual Propane



M135918AA

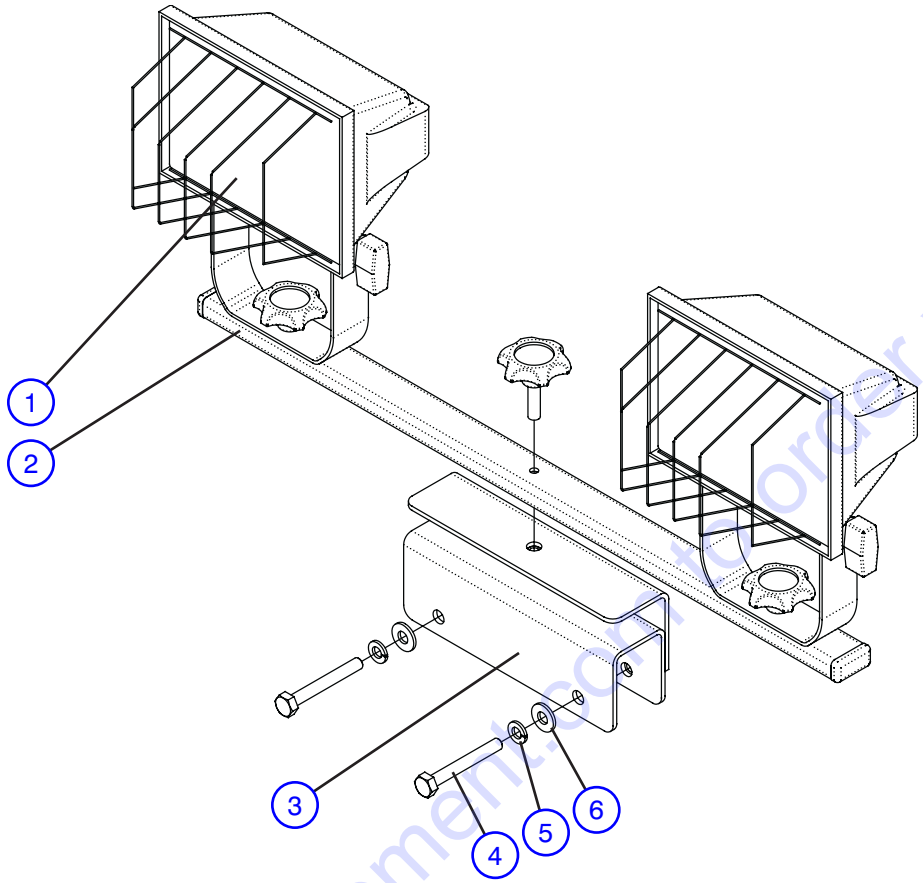




M135919AA

Figure 6.5-14. Scissor Guard With Dual Fuel **AC**

Index No.	Skyjack Part No.	Qty.	Description
A	135918	1	Scissor Guard Assembly With P-B Option
B	135919	1	Scissor Guard Assembly With Dual P-B Option
1	139408	1	• WELDMENT, Scissor guard (right rear)
2	139400	2	• WELDMENT, Scissor guard (front/rear)
3	139406	1	• WELDMENT, Scissor guard (left rear)
4	103472	4	• WASHER, Flat (0.375)
5	104606	AR	• NUT, Hex lock (0.375-16)
6	103596	AR	• BOLT, Hex head (0.375-16 x 2.000)
7	103999	AR	• WASHER, Lock (0.375)
8	103473	AR	• BOLT, Hex head (0.375-16 x 1.000)
9	300437	AR	• BOLT, Hex head (0.375-16 x 0.875)
10	702507	AR	• NUT, Hex lock (0.500-13)
11	111420	AR	• BOLT, Hex head (0.500-13 x 4.500)
12	139403	1	• WELDMENT, Scissor guard (right front)
13	139404	AR	• WELDMENT, Scissor guard (left front) A
14	139405	AR	• WELDMENT, Scissor guard (left front) B



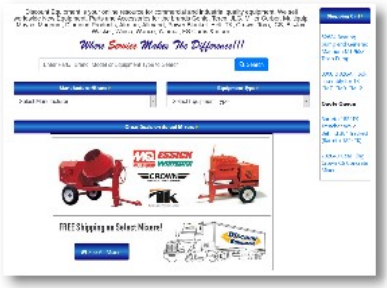
M137979AB

Index No.	Skyjack Part No.	Qty.	Description
-	137979	-	ASSEMBLY, Work light
1	141732	1	• BULB, 150 Watt halogen, 78 mm
2	141701	1	• WORK LIGHT, Dual 250 Watt halogen
3	138050	1	• BRACKET, Work light
4	103861	2	• BOLT, Hex head (0.25-20 x 2 grade 5)
5	104000	2	• WASHER, Lock (0.25)
6	103995	2	• WASHER, Flat (0.25)

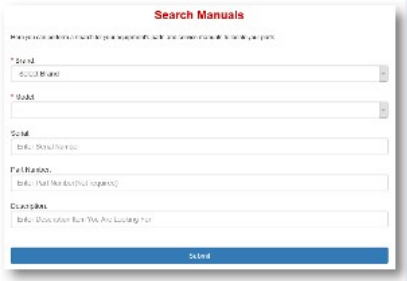
PARTS FINDER

Search Website by Part Number

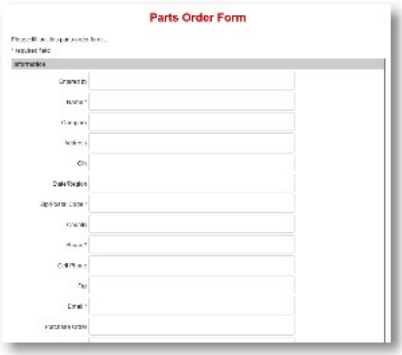
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

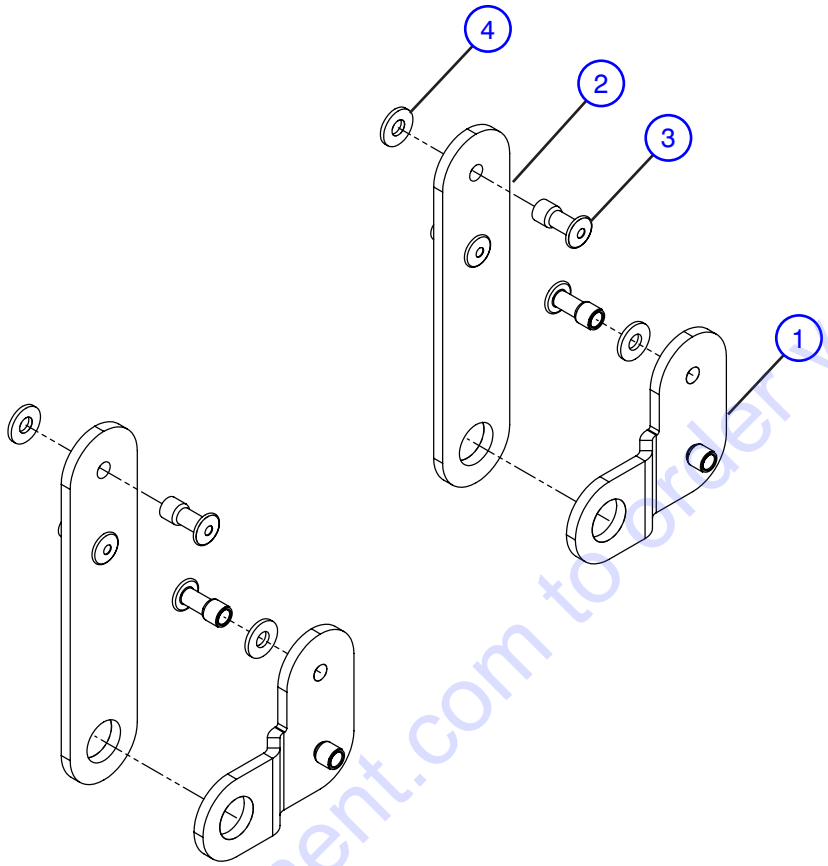
Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

Figure 6.5-16. Cabinet Locking Option AC



M63821AA

Index No.	Skyjack Part No.	Qty.	Description
-	223151	1	CABINET LOCKING SERVICE KIT
1	223061	2	• BRACKET, Cabinet locking - Cabinet
2	223062	2	• BRACKET, Cabinet locking - Door
3	157759	8	• RIVET, Pop (0.1875” x 0.565”)
4	103991	8	• WASHER, Flat (#8)
5	223161	1	• INSTRUCTIONS, Cabinet locking brackets (Not Shown)

Figure 6.6-1. Label Kit

Label Kits

The following label kit is for models SJ 6826 and 6832. It contains labels that are common to both machines including outrigger option.

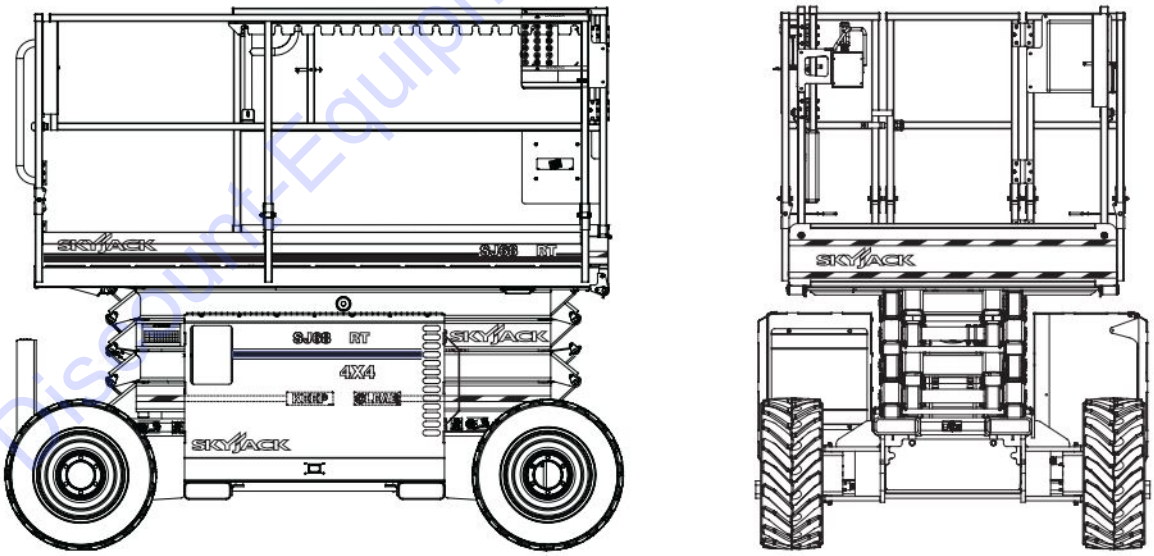
It excludes:

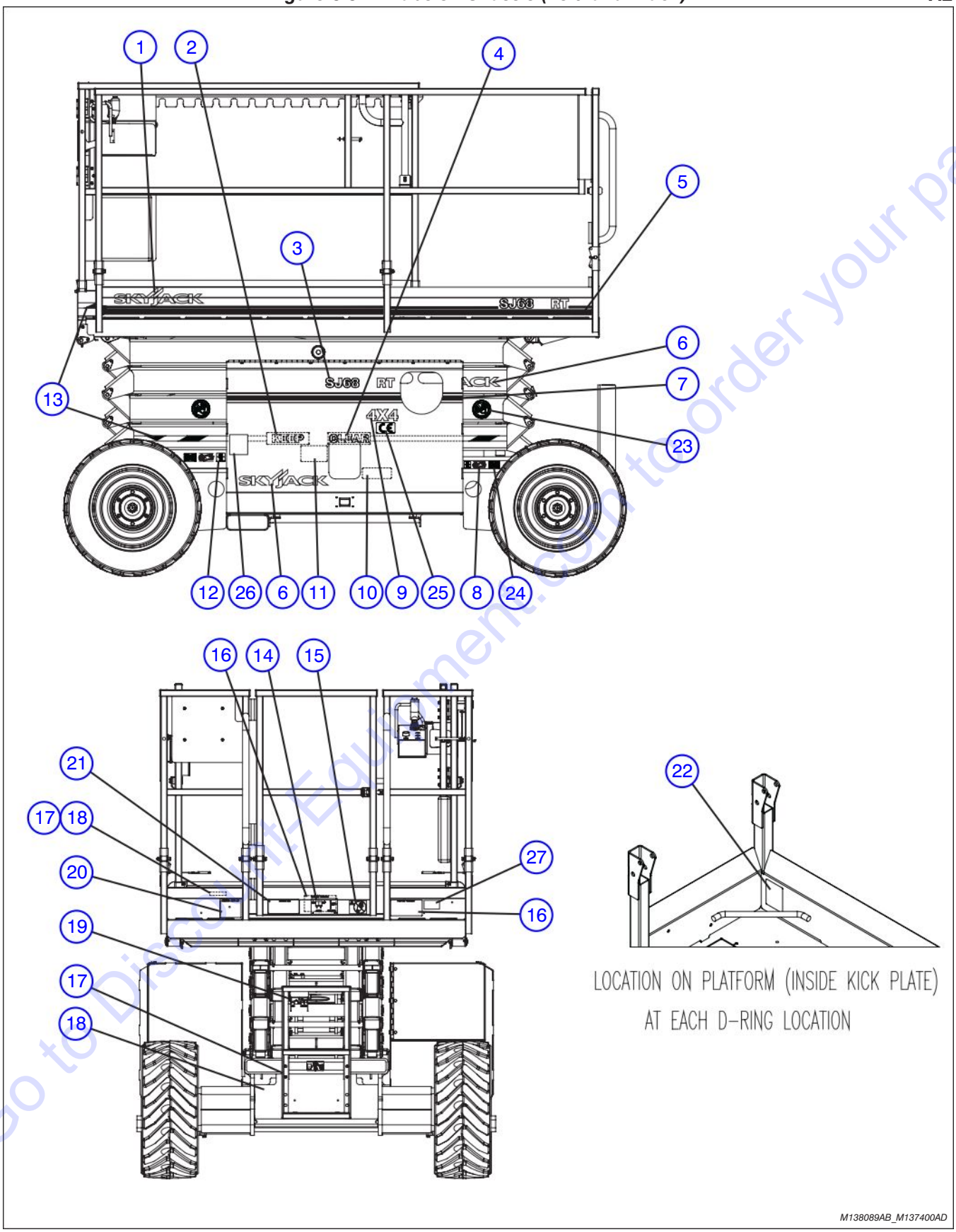
- serial numbers
- stripes
- tapes
- platform capacities
- model designations

Supply model number, country and language when ordering complete machine labels. Items with * are part of the label kit.

Label Kit	
MODELS	**ANSI/CSA & CE**
	Part # 139544
SJ 6826	All Serial Numbers
SJ 6832	All Serial Numbers

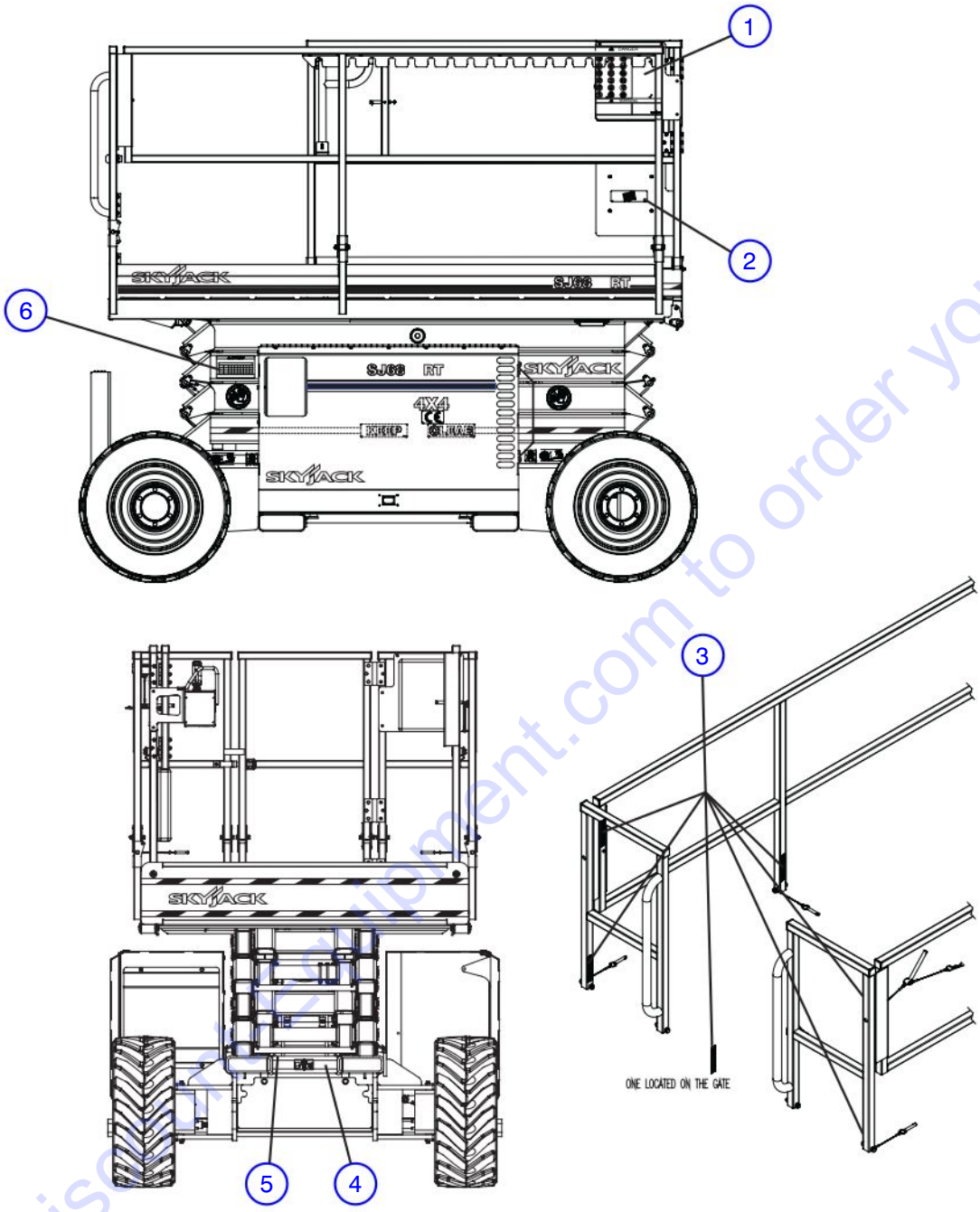
M60445AB





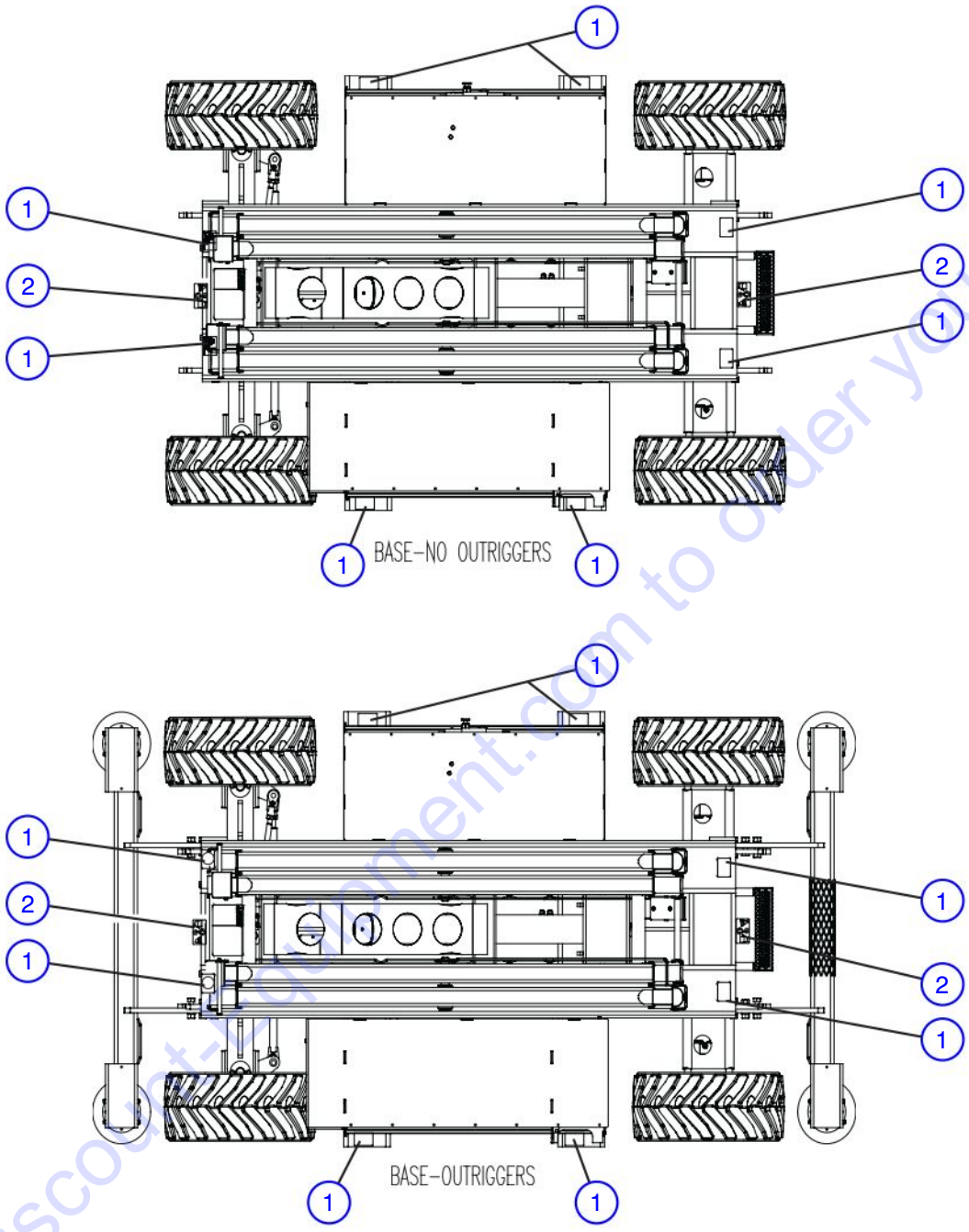
Index No.	Skyjack Part No.	Qty.	Description
*1	129758	3	LABEL, Skyjack logo, small blue
*2	129838	2	LABEL, Keep
3	138086	2	LABEL, “SJ6832RT” **(Model 6832)**
	138087	2	LABEL, “SJ6826RT” **(Model 6826)**
*4	129839	2	LABEL, Clear
5	103125	AR	STRIPE, White/blue
*6	129759	4	LABEL, Skyjack logo, small
7	103110	AR	STRIPE, Red/blue/red
*8	124631	4	LABEL, Wheel offset/pressure
*9	129810	2	LABEL, “4X4”
*10	109442	1	LABEL, Emergency lowering
*11	139618	1	LABEL, Manual brake release
*12	138123	2	LABEL, Wheel load
*13	119803	AR	TAPE, Safety caution
*14	124465	1	LABEL, Side force/outdoor
*15	124362	1	LABEL, Warning! Do not wear jewelry
16	138082	2	LABEL, Platform capacities 1000 (700/300) **(Model 6832) (CE)**
	142168	2	LABEL, Platform capacities 1000 (700/300) 4P **(Model 6832) (ANSI/CSA)**
	138083	1	LABEL, Platform capacities 1250 (950/300) **(Model 6826)**
*17	138212	1	LABEL, Connect air supply (Air supply option)
*18	138211	1	LABEL, Connect AC supply (AC supply option)
*19	106705	2	LABEL, Do not alter
*20	106691	1	LABEL, Check list
*21	147781	1	LABEL, On/Off Slab **(ANSI/CSA)**
			(Order Part # 129999 for Machines with S/N 37000634 and Below)
	129772	1	LABEL, On/off slab **(CE)**
*22	130018	6	LABEL, Harness anchorage
23	139855	4	LABEL, Keep Clear **(CE)**
24	142384	4	LABEL, Foam-Filled Tires
	142136	4	LABEL, Tire presseure 40 PSI - Air Tires (if equipped)
25	117023	2	LABEL, “CE” **(CE)**
26	128226	2	LABEL, 103 decibel **(CE)**
27	114252	1	LABEL, California proposition 65 **(ANSI/CSA)**

* Part of Label Kit

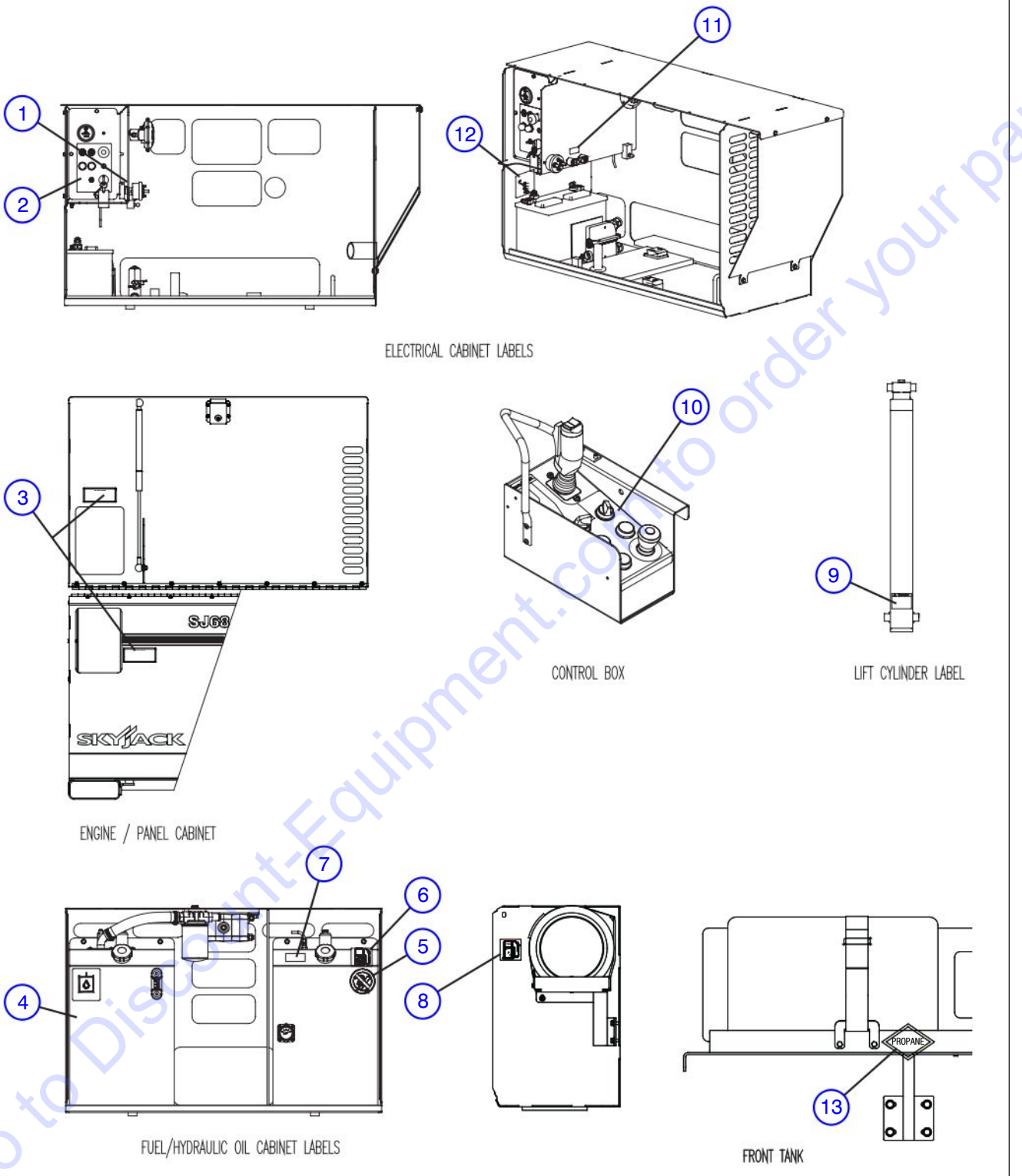


Index No.	Skyjack Part No.	Qty.	Description
*1	146526	1	LABEL, Danger/Warning Info
			(Order Part # 128742 for Machines with S/N 37000634 and Below)
*2	123628	1	LABEL, Manual box
*3	126056	10	LABEL, Falling hazard
*4	106406	1	LABEL, Maintenance support
*5	127711	1	LABEL, Maintenance support
*6	109985	1	LABEL, Annual inspection
			* Part of Label Kit

Figure 6.6-4. Labels - Chassis (Top)

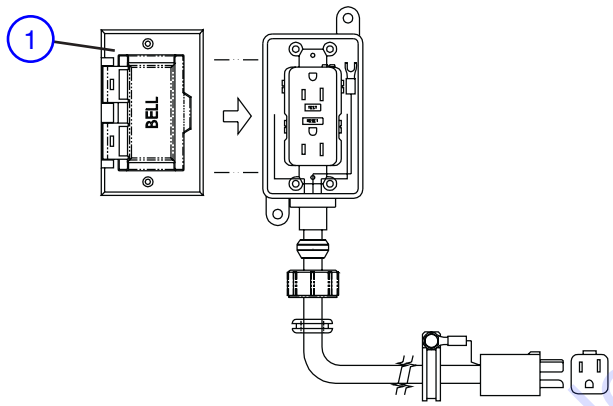


Index No.	Skyjack Part No.	Qty.	Description
*1	102896	AR	LABEL, Forklift boot
*2	124767	2	LABEL, Tie down/lift lugs
			* Part of Label Kit

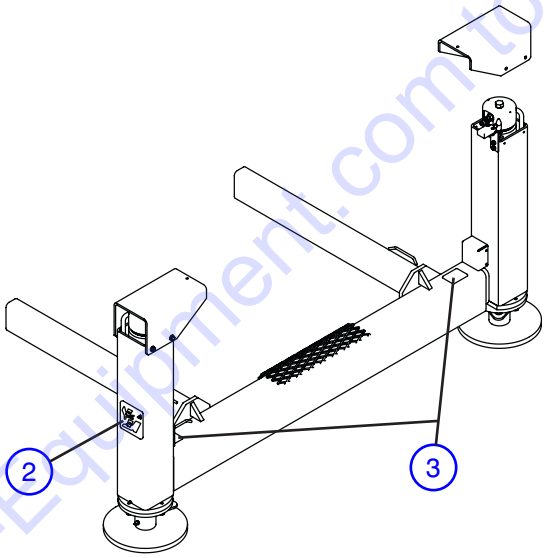


Index No.	Skyjack Part No.	Qty.	Description
*1	119674	1	LABEL, Battery disconnect switch
*2	137681	1	LABEL, Panel 68XXRT
*3	124883	2	LABEL, Fuel switch sequence
*4	102961	1	LABEL, ATF Dexron III
*5	138146	1	LABEL, No smoking
*6	132400	1	LABEL, Unleaded fuel only (Kubota DF engine)
	102962	1	LABEL, Diesel fuel (Diesel engine)
7	149502	1	LABEL, “Use low sulfur fuel” (Diesel fuel engines **ANSI**/**CSA**)
*8	103023	1	LABEL, Use liquid propane only
*9	106703	2	LABEL, Orifice decal
*10	127343	1	LABEL, Control box
*11	119915	1	LABEL, Fuse (Inverter option)
*12	128827	1	LABEL, Warning fuse
*13	120390	1	LABEL, “Propane”

* Part of Label Kit



OUTLET BOX ASSEMBLY



OUTRIGGERS

M135913AA_2 M133949AB

Figure 6.6-6. Labels - Misc

Index No.	Skyjack Part No.	Qty.	Description
*1	110333	1	LABEL, Connect platform AC supply here
*2	119866	1	LABEL, Danger, hand/foot pinch
*3	106705	2	LABEL, Do not alter
			* Part of Label Kit

AXLE OIL						
Axle Type		***Qty. (Liters)**	***Qty. (Gallons)**	**Oil Type**	**Skyjack Part No.**	**Recommended Equivalent Oil**
Cushman	Front	2.4	0.634	Gear Oil, 80W-90 GL5	134612	-
Dana	Front / Rear					
Cushman	Rear	1	0.264	Gear Oil, ESI 80W-90	133461	Chevron Gear Lubricant Delo ESI 80W-90, Caltex Gear Lubricant ESI 80W-90, Caltex RPM Borate EP 80W-90, Texaco Star Gear Lubricant 80W-90

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

CENTER DRIVE OIL					
Center Drive Type	***Qty. (Liters)**	***Qty. (Gallons)**	**Oil Type**	**Skyjack Part No.**	**Recommended Equivalent Oil**
Center Drive	1	0.26	Gear Oil, 80W-90 GL5	134612	-

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

HYDRAULIC OIL				
Model	***Qty. (Liters)**	***Qty. (Gallons)**	**Oil Type**	**Skyjack Part No.**
SJRT-68XX	86.88	22.95	ATF Dexron III	119309
SJRT-7127	80.48	21.26		
SJRT-7135				
SJRT-8243				
SJRT-8850				
SJRT-8831	75.71	20		
SJRT-8841				
SJRT-8831E				
SJRT-8841E				
SJRT-9250	67.38	17.8		

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

Table continued on the following page.

Table continued from the previous page.

ENGINE OIL					
Engine Type	***Qty. (Liters)**	***Qty. (Gallons)**	**Oil Type, Viscosity**	**Skyjack Part No.**	**Recommended Equivalent Oil (Viscosity - API Service Designation)**
Kubota D902	3.9	1.03	Engine Oil, SAE 10W-30	105287	10W30 - API Service Designation CG-4, CF-4, CF, CD, SH.
Kubota D1105	5.1	1.35			
Kubota DF972	3.4	0.9			
Nissan A15	3.5	0.98			
GM 1.6				142454	10W30 - API Service Designation SF/CC.

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE COOLANT				
Component Type	***Qty. (Liters)**	***Qty. (Gallons)**	****Coolant Type**	**Skyjack Part No.**
Kubota D902	3.1	0.82	Anti-freeze / Water	125985
Kubota D1105				
Kubota DF972				
Nissan A15	11.4	3.01		
GM 1.6			Extended life anti-freeze / Water	142208

*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

ENGINE FUEL							
Model	**Tank**		**Diesel**		**Gasoline / Liquid Propane**		
	***Qty. (Liters)**	***Qty. (Gallons)**	**Kubota D902**	**Kubtoa D1105**	**Kubota DF972**	**GM 1.6**	**Nissan A15**
SJRT-68xx	86.88	22.95	✓	N/A	✓	N/A	
SJRT-7127	80.48	21.26	N/A	✓			
SJRT-7135							
SJRT-8243					N/A	✓	
SJRT-8850							
SJRT-8831	49.21	13					
SJRT-8841							
SJRT-9250	64.35	17					

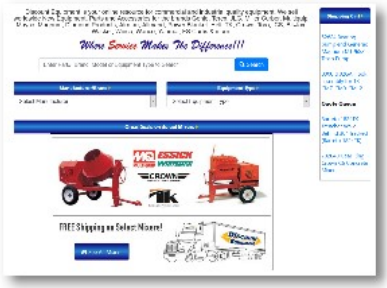
*All fuel capacity quantities are in standard liter or US gallons (liquid).

**Use distilled water and 50/50 mix of anti-freeze/water.

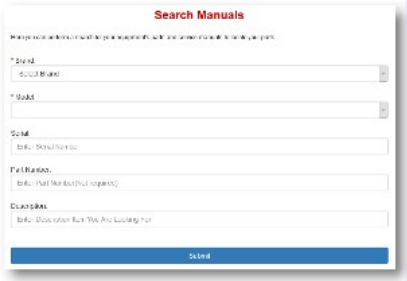
PARTS FINDER

Search Website by Part Number

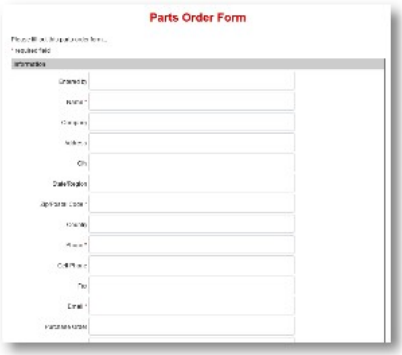
Discount Equipment



Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote



Can't Find Part or Manual? Request Help by Manufacturer, Model & Description



Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: 561-964-4949 Outside Florida TOLL FREE: 877-690-3101

Need parts?

Click on this link: http://www.discount-equipment.com/category/5443-parts/ and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment ,Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar