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# 5700® ALL-DAY BATTERY RIDE-ON SCRAPER SERVICE MANUAL



Read Manual Before Servicing Machine

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# **Specifications**

Product Specifications							
Width	Length	Height	Weight (Machine Only)	Weight (Fully Weighted)	Removable Weight		
24.5"	54"	50.5"	2,059 lb	2,244 lb	185 lb		
(62 cm)	(149 cm)	(128 cm)	(933.9 kg)	(1,017.9 kg)	(83.9 kg)		
Run Time	Power	Max. Speed	Max. Speed (5700-18XXXX and 5700HS-23XXXX Only)		Sound Level		
8-12 hours*	2.98 kW	120 ft/min	160 ft/min		94-97 dB(A)*		

<sup>\*</sup>Run time may vary depending on battery age, state of charge, or other factors.
\*\*Hearing protection is strongly recommended.

	N	Machine Variants	3 10	
Region	Serial Number	Power / Frequency	Body Panels	Slide Plate
	5700-10XXXX	120 / 60	Silver Vein	Manual Lift
	5700-12XXXX	120 / 60	Green	Manual Lift
	5700-17XXXX	120 / 60	Silver Vein	Dual Lift
Domestic	5700-18XXXX	120 / 60	Silver Vein	Manual Lift
	5700-23XXXX	120 / 60	Silver Vein	Manual Lift
	5700DL-23XXXX	120 / 60	Silver Vein	Dual Lift
	5700HS-23XXXX	120 / 60	Silver Vein	Manual Lift
	5700-13XXXX	230 / 50	Silver Vein	Dual Lift
	5700-21XXXX	230 / 50	Silver Vein	Manual Lift
	5700-11XXXX	230 / 50	Silver Vein	Dual Lift
International	5700-20XXXX	110 / 50	Silver Vein	Dual Lift
International	5700-15XXXX	230 / 50	Orange	Dual Lift
	5700ML-13XXXX	230 / 50	Silver Vein	Manual Lift
	5700-26XXXX	230 / 50	Silver Vein	Dual Lift
	5700-28XXXX	100 / 50/60	Silver Vein	Dual Lift

#### **Dual Lift**



#### Manual Lift



#### **GENERAL RULES FOR SAFE OPERATION**

Before use, anyone operating or performing maintenance on this equipment must read and understand this manual, as well as any labels packaged with or attached to the machine and its components. Read the manual carefully to learn equipment applications and limitations, as well as potential hazards associated with this type of equipment. Keep manual near machine at all times. If your manual is lost or damaged, contact National Flooring Equipment (NFE) for a replacement.

#### Personal

#### Dress properly and use safety gear.

Do not wear loose clothing; it may be caught in moving parts. Anyone in the work area must wear safety goggles or glasses, hearing protection during extended use, and a dust mask for dusty operations. Hard hats, face shields, safety shoes, etc. should be worn when specified or necessary.

#### Maintain control; stay alert.

Keep proper footing and balance, and maintain a firm grip. Observe surroundings at all times and use common sense. Do not use when tired, distracted, or under the influence of drugs, alcohol, or any medication that may cause decreased control.

#### Keep hands away from all moving parts and tooling.

Wear gloves when changing tooling. Remove tooling when machine is not in use and/or lower cutting head to the floor.

#### Do not force equipment.

Equipment will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear, and reduced control.

#### **Environment**

#### Avoid use in dangerous environments.

Do not use in rain, damp or wet locations, or in the presence of explosive atmospheres (gaseous fumes, dust, or flammable materials). Remove materials or debris that may be ignited by sparks. Keep work area tidy and well-lit - a cluttered or dark work area may lead to accidents. Extreme heat or cold may affect performance.

#### Protect others in the work area and be aware of surroundings.

Provide barriers or shields as needed to protect others from debris and machine operation. Children and other bystanders should be kept at a safe distance from the work area to avoid distracting the operator and/or coming into contact with the machine. Operator should be aware of who is around them and their proximity. Support personnel should never stand next to, in front of, or behind the machine while the machine is running. Operator should look behind them before backing up.

#### Guard against electric shock.

Ensure that machine is connected to a properly grounded outlet. Prevent bodily contact with grounded surfaces, e.g. pipes, radiators, ranges, and refrigerators. When scoring or making cuts, always check the work area for hidden wires or pipes.

#### **Maintenance & Repairs**

Begin maintenance work only when the machine is shut down, unplugged, and cooled down.

#### Use proper cleaning agents.

Ensure that all cleaning rags are fiber-free; do not use any aggressive cleaning products.

#### Schedule regular maintenance check-ups.

Ensure machine is properly cleaned and serviced. Remove all traces of oil, combustible fuel, or cleaning fluids from the machine and its connections and fittings. Retighten all loose fittings found during maintenance and repair work. Loose or damaged parts should be replaced immediately; use only NFE parts.

Do not weld or flame-cut on the machine during repairs, or make changes to machine without authorization from NFE.

#### **Equipment**

#### Use proper parts and accessories.

Only use NFE-approved or recommended parts and accessories. Using any that are not recommended may be hazardous.

#### Ensure accessories are properly installed and maintained.

Do not permanently remove a guard or other safety device when installing an accessory or attachment.

#### Inspect for damaged parts.

Check for misalignment, binding of moving parts, loose fasteners, improper mounting, broken parts, and any other conditions that may affect operation. If abnormal noise or vibration occurs, turn the machine off immediately. Do not use damaged equipment until repaired. Do not use if power switch does not turn machine on and off. For all repairs, insist on only identical NFE replacement parts.

#### Maintain equipment and labels.

Keep handles dry, clean, and free from oil and grease. Keep cutting edges sharp and clean. Follow instructions for lubricating and changing accessories. Motor and switches should be completely enclosed at all times with no exposed wiring. Inspect cord regularly. Labels carry important information; if unreadable or missing, contact NFE for a free replacement.

#### Avoid accidental starting; store idle equipment.

When not in use, ensure that the machine is unplugged and breaker is set to OFF. Store in a dry, secured place. Remove tooling when storing, and keep away from children.

#### RIDE-ON SCRAPER SAFETY GUIDELINES

#### Scraping

#### Do not drive machine along hills or uneven surfaces.

The weight of the machine may become distributed differently if on an uneven surface. Too much of an angle could make the machine unsafe or cause it to tip over. Always keep the front of the machine facing downward while traveling up or down ramps or inclines. Do not run the machine in unsafe environments.

Inspect work area for potential hazards prior to operation.

Observe location of electrical supplies and extension cords. Do not allow cutting heads to come into contact with any electrical supply or extension cord.

## Operator must be seated before starting machine and should stay seated until motor has stopped running.

This machine is equipped with a safety switch under the seat, which requires the operator to be seated before the machine can be operated. Do not attempt the start-up procedure without first

being seated on the machine.

#### **Batteries and Chargers**

#### Use caution; risk of explosive gases.

Batteries generate explosive gases during normal operation. Do not use near fuels, grain, dust, solvents, or other flammables; never smoke near the machine, battery, or charger.

#### Inspect battery and charger regularly.

Disconnect charger from wall outlet before operating. Machine should be off before connecting to a power source. Periodically inspect batteries, cables, charger, and all plug connections. Be extremely cautious when working with batteries. Do not open or tamper with batteries; doing so could cause electrical shock.



WARNING: BE CAUTIOUS WHEN WORKING WITH BATTERY. IF ELECTROLYTIC ACID GETS IN THE EYES, IMMEDIATELY FLUSH OUT WITH COLD, FRESH WATER FOR AT LEAST 10 MINUTES AND GET MEDICAL HELP.

#### **Charger Operation**

#### Ensure proper use of charger.

- Once connected and plugged into AC power, the LED will indicate whether or not it is charging. Refer to manufacturer's charger manual.
- Only use charger on branch circuits protected by a circuit breaker or fuse that can carry the power of the charger.
- Do not use charger if it shows signs of physical stress, or if DC output leads or connector feel hot when used.
- Do not disconnect DC output clamps or connector from batteries while charger is on. This could cause an explosion.
- Failure to unplug AC power before moving equipment will damage cords, plugs, and receptacles.
- Do not over-discharge batteries, this could cause batteries to fail. Re-charge as soon as possible after discharge; if they are warm, first allow them to cool.
- Charger is not water proof, only resistant, and cannot withstand immersion, continuous exposure, or heavy rain.
- A drive lockout option will disable the drive mechanism of the machine while the charger is plugged in.
- There is a built-in Low Voltage Interrupter that continuously monitors for low voltage and will sound when voltage falls. At 44V the alarm will sound; stop immediately and recharge. At 43.5V the machine will auto-disconnect and shut down; let machine sit until batteries recover enough to drive to outlet.
- Chargers are equipped with a grounding plug.

**Note:** Leaving the charger plugged in does not harm the battery and is preferred to leaving the battery in a state of discharge.



**WARNING:** ONLY USE BATTERY/CHARGER CONFIGURATIONS SPECIFICALLY APPROVED BY NFE. USE OF A DIFFERENT OR INCORRECT CONFIGURATION HAS A HIGH RISK OF LEADING TO FIRE, PREMATURE BATTERY FAILURE, DAMAGE TO MACHINE, AND/OR BODILY INJURY.



**CAUTION:** THE RETURN CAPACITY WHEN CHARGING THE BATTERY IS NOT 1-TO-1. ENSURE THAT BATTERY IS ALLOWED TO CHARGE FOR A GREATER PERIOD OF TIME THAN IT WAS USED (IF NOT COMPLETING A FULL CHARGE). FOR MAXIUMUM BATTERY LIFE, FULLY RECHARGE BATTERY (LED WILL APPEAR SOLID GREEN) AT LEAST TWICE PER WEEK. FAILURE TO DO SO MAY RESULT IN SHORTER RUNTIMES AND PREMATURE BATTERY FAILURE.



WARNING: GRINDING/CUTTING/DRILLING OF MASONRY, CONCRETE, METAL AND OTHER MATERIALS CAN GENERATE DUST, MISTS AND FUMES CONTAINING CHEMICALS KNOWN TO CAUSE SERIOUS FATAL INJURY OR ILLNESS, SUCH AS RESPIRATORY DISEASE, CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. IF YOU ARE UNFAMILIAR WITH THE RISKS ASSOCIATED WITH THE PARTICULAR MATERIAL BEING CUT, REVIEW THE MATERIAL SAFETY DATA SHEET AND/OR CONSULT YOU EMPLOYER, THE MATERIAL MANUFACTURER/SUPPLIER, GOVERNMENTAL AGENCIES SUCH AS OSHA AND NIOSH AND OTHER AUTHORITIES ON HAZARDOUS MATERIALS. CALIFORNIA AND SOME OTHER AUTHORITIES, FOR INSTANCE, HAVE PUBLISHED LISTS OF SUBSTANCES KNOWN TO CAUSE CANCER, REPRODUCTIVE TOXICITY, OR OTHER HARMFUL EFFECTS. CONTROL DUST, MIST AND FUMES AT THE SOURCE WHERE POSSIBLE. IN THIS REGARD USE GOOD WORK PRACTICES AND FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER/SUPPLIER, OSHA/NIOSH, AND OCCUPATIONAL AND TRADE ASSOCIATIONS. WHEN THE HAZARDS FROM INHALATION OF DUST, MISTS AND FUMES CANNOT BE ELIMINATED, THE OPERATOR AND ANY BYSTANDERS SHOULD ALWAYS WEAR A RESPIRATOR APPROVED BY OSHA/MSHA FOR THE MATERIAL BEING CUT.

## **Safety**

#### HYDRAULIC SAFETY

#### **Maintaining a Safe Work Environment**

Establishing a safe work environment in and around your hydraulic equipment is extremely important. The easiest and most effective way to avoid problems is to make sure associates understand their equipment, know how to operate the machines safely, and recognize the dangers if handled carelessly. A few things to be aware of are:

- **Pressure:** Hydraulic fluid under pressure is dangerous and can cause serious injury. Never look for a leak when unit is under pressure. Using your hand could cause serious injury. A few common ways to encounter hydraulic fluid under pressure include:
  - Pinhole: Fluid under pressure can cause serious injury. It can be almost invisible escaping from a pinhole, and it can pierce the skin into the body.



**DANGER:** DO NOT TOUCH A PRESSURIZED HYDRAULIC HOSE ASSEMBLY WITH ANY PART OF THE BODY. IF FLUID PUNCTURES THE SKIN, EVEN IF NO PAIN IS FELT, A SERIOUS EMERGENCY EXISTS. OBTAIN MEDICAL ASSISTANCE IMMEDIATELY. FAILURE TO DO SO COULD RESULT IN LOSS OF THE INJURED BODY PART OR DEATH.

- Leak: Keep fittings and hoses tight. Only check and service when not under pressure. Leaking hydraulic fluid is hazardous; in addition
  to making workplace floors slippery and dangerous, it also contaminates the environment. Before cleaning an oil spill, always check
  EPA, state, and local regulations.
- Burst: Whether due to improper selection or damage, a ruptured hose can cause injury. If it bursts, a worker can be burned, cut, injected, or may slip and fall.
- Coupling Blow-Off: If the assembly is not properly made or installed, the coupling could come off and hit or spray a worker, possibly
  resulting in serious injury. Never operate machine without guards.
- Flammability: When ignited, some hydraulic fluids can cause fires and/or explode. With the exception of those comprised primarily of water, all hydraulic fluid is flammable (including many "fire-resistant" hydraulic fluids) when exposed to the proper conditions. Leaking pressurized hydraulic fluids may develop a mist or fine spray that can flash or explode upon contact with a source of ignition. These explosions can be very severe and could result in serious injury or death. Precautions should be taken to eliminate all ignition sources from contact with escaping fluids, sprays or mists resulting from hydraulic failures. Sources of ignition could be electrical discharges (sparks), open flames, extremely high temperatures, sparks caused by metal-to-metal contact, etc.



**CAUTION:** NEVER USE YOUR HANDS TO CHECK FOR LEAKS OVER HOSE OR HYDRAULIC CONNECTIONS. USE A PIECE OF CARD-BOARD TO LOCATE A PRESSURIZED LEAK. FOR LOW PRESSURE LEAKS (DRIPS), USE A RAG TO CLEAN THE AREA AND DETERMINE WHERE THE LEAK ORIGINATES.

- Mechanical: Hydraulic fluid creates movement, which means some equipment may move. Observe surroundings and equipment at all times
- Moisture: Do not use in wet or high moisture conditions.
- **Electrical:** Faulty wiring can be an electrical hazard. A regular preventive maintenance program should always include a wiring check. If applicable, disconnect battery before serving.
- **Temperature:** Because this machine operates at a relatively low pressure, overheating is not common. If surface of tank becomes too hot to touch by hand (above 130°F or 55°C), shut off machine and allow it to cool.

#### **Hydraulic Fluid**

Only use Texaco Rando 46 Hydraulic Oil or compatible fluid like ISO or AW #46 from a brand name manufacturer. Non-compatible fluids could cause damage to unit or serious injury.

## **Maintenance Schedule**

	Interval						
Maintenance to be performed	Daily	160 hrs	1000 hrs	2000 hrs	After initial 50 hrs	After initial 500 hrs	
Inspect extension cord for damage	•						
Check wheels, caster and wheel motors for build up; and clean	•						
Check hydraulic oil level	•						
Inspect all safety devices (e-stop, backup beeper, seat switch)	•						
Inspects for leaks (hoses and fittings)	•				N/S		
Blow out fan cover on the bottom of the motor after each job	•				Qu		
Grease front caster wheel			•	100			
Replace the hydraulic return line oil filter		•	\ext{o}		•		
Replace in-tank strainers			O <sub>l</sub> O	0			
Replace hydraulic fluid		×O	•			•	

o - Recommended to be replaced at the same time you replace the batteries on the machine.

It is recommended to perform initial maintenance during the break-in period when first operating the machine. After the first 250 operating hours the hydraulic oil filter should be replaced. At the 500 operating hour mark the hydraulic fluid should be replaced. Regular maintenance should be performed according to the schedule after.



**WARNING:** THE BACK-UP BEEPER IS ON THE MACHINE FOR SAFETY. IT IS IMPORTANT TO KEEP IT IN GOOD WORKING CONDITION. FAILURE TO DO SO COULD CAUSE BODILY INJURY.

# Troubleshooting Guide

Problem	Cause	Solution
Machine will not start.	Seat safety switch is diengaged.	Ensure operator is seated.
	Emergency stop (E-Stop) switch is disengaged.	Twist E-Stop so that it is in the "POWER ON" position.
	Circuit breaker is in the "OFF" position.	Verify circuit breaker is in On position.
	48 volt blue plugs are not connected.	Make sure that connection plugs are fully installed.
	"Start" button did not fully engage.	Firmly press down green start button.
	Wire harness is disconnected.	Connect wire harness.
	Batteries are low.	Charge batteries.
Machine doesn't run as long as it used to.	Battery is not fully charging.	Verify that you are charging machine properly.
		Verify that charger is working properly. Charger has a LED light to indicate.
	The 48 volt blue plugs are not connected.	Check that connection plugs are fully installed.
	Batteries no longer hold a charge.	Contact NFE for procedure.
	Motor fan cover plugged with dust or debris.	Blow out fan cover after each job.
Machine is making rattling noises.	Loose hardware on machine.	Inspect and tighten bolts as needed.
Charger is hot.	Charger is in use.	This is normal.
Fluid is leaking from machine.	Hose connections/or fittings have loosened through normal use.	Tighten hydraulic hoses and fittings as needed.
	Pin hole in the hoses.	Replace affected hose.
	Oil and/or oil filter are old.	Replace oil and oil filter yearly on machine.
Tires/Wheel motors make a slight clicking noise.	FOR	Normal noise with proper operation.
Machine is jerky or jumpy.	New operator.	Additional time is required to become familiar with machine.
Discou	Control levers are being moved too quickly.	Operate control levers with wrist resting on knees for additional support or purchase arm rest.
Coupling leaks at thread or seat.	Missing or damaged O-rings.	Check for missing or damaged O-rings; replace if necessary.
Co	Damaged threads due to misalignment or improper seat angle.	Correct seat angle. Check for thread damage; replace if necessary.
	Over or under torquing.	Only hand tighten hardware.
Any issues not listed above.		Contact NFE.

#### **Maintenance**



WARNING: ALWAYS DISCONNECT BATTERY BEFORE MAINTAINING.

#### MANUAL SLIDE PLATE REMOVAL

- Disconnect machine from power.
- 2. Remove slide plate pin.
- 3. Remove cutting head bolt
- 4. Remove cylinder from slide plate.
- 5. Remove slide plate.



WARNING: SLIDE PLATE WILL DROP TO THE FLOOR WHEN SLIDE PLATE SECURING BOLTS ARE DISENGAGED. KEEP HANDS AND FEET OUT FROM UNDERNEATH SLIDE PLATE, FAILURE TO DO SO COULD CAUSE SEVERE BODILY INJURY.

#### OR

- 1. Disconnect machine from power.
- 2. Disconnect hydraulic lines from cylinder. A small amount of oil leak out of lines, place rag below line to catch fluid. Cap lines or bleed into a container. Wipe up spillage immediately.
- 3. With lines removed, loosen slide plate bolts. Hold slide plate at the top of the cylinder.
- 4. Remove slide plate, cylinder and lower cutting head support.

#### **DUAL SLIDE PLATE REMOVAL**

- Lower the slide plate to the floor and place a wood block under the assembly.
- 7. Remove the front cylinder by taking the 1/2" bolt out of the bottom and removing the hitch clips and pin from the top of the cylinder.
- 8. Remove the E-clips from the pin at the bottom of the internal cylinder, then remove the pin.
- 9. Remove the pin from the top of the internal cylinder and then remove the cylinder from the machine.
- 10. Loosen the pinch bolt from the lower right side of the frame.
- 11. Remove the lock nut from securing bolts at the top of the slide plate.
- 12. Remove the socket head screws at the top of the dual slide from both sides of the assembly.
- 13. Install 3/8-16x5" bolts into the holes the socket head screws were removed from. Once installed the bolts should be used as lifting handles.
- 14. Lift the frame out of the machine, use team lift or forklift (Caution: very heavy).

#### **LEAK MAINTENANCE**

All fittings on this machine are O-ring style.

- 1. Disconnect machine from power.
- If a leak is detected, tighten fitting with the proper wrench size. Do not over-tighten. Over-tightening could damage to O-rings.

#### **CHECK OIL LEVEL**

Check fluid level in the fill hole on the right side of the frame, in front of the rear wheel.

- Remove filler plug.
- 2. Oil should be visible 2" below hole.
- 3. Reinsert plug.

to order your parts

#### **OIL CHANGE OUT**

- 1. Disconnect machine from power (charger or battery).
- 2. Drain fluid by removing the drain plug from side of tank.
- 3. Replace drain plug.
- 4. Remove filler plug.
- 5. Add oil into the filler plug hole until visual 2" below hole.

#### CHANGE/REMOVE HOSE

- 1. Disconnect machine from power.
- 2. Remove hood.
- 3. Using proper wrench size, remove hose from fitting.
- 4. When replacing, make sure O-ring is properly seated on hose fitting.

#### **CHANGE WHEEL MOTOR**

- 1. Disconnect machine from power.
- 2. Block up machine to remove wheel.
- 3. Remove wheel.
- 4. Remove oil lines from wheel motor. A small amount of oil will run out of the lines. Drain into a container. Wipe up spills immediately.
- 5. Remove four 1/2" wheel motor securing nuts.
- 6. Pull out on wheel motor to remove.

#### REMOVE/REPLACE FOOT PEG

- 1. Insert a socket wrench into foot peg and secure bolt head.
- 2. Remove nut.
- 3. Remove bolt and foot peg.
- 4. Replace foot peg before operating machine. Do not operate machine without foot pegs.

#### **CHANGE PUMP**

- Open hood to expose pump.
- 2. Disconnect hydraulic lines.
- 3. Remove two 5/16" pump securing bolts.
- 4. Remove pump by pulling pump straight out from pump motor.

#### CHANGE VALVE

- 1. Disconnect machine from power (charger or battery).
- 2. Lift hood all the way back, resting on the hood bumpers.
- 3. Remove hoses from valve body. Have a container ready to catch leakage from lines.
- 4. Take notice of angle of valve fittings.
- 5. Remove two 5/16-18" bolts securing valve body.

#### **Maintenance**

#### CHANGE MOTOR

- Disconnect motor from power.
- Lift hood and secure in place.
- 3. Remove pump.
- 4. Loosen screws and nuts.
- 5. Raise motor; disconnect electrical connections.
- Remove and replace motor.

#### CHANGE HYDRAULIC CYLINDER

- Disconnect machine from power.
- 2. Disconnect cylinder lines. Have a container ready to catch oil from lines.
- Remove cylinder securing hexhead bolt from lower cutting head support.
- Remove clips and pin from cylinder and slide plate. 4.
- 5. Remove cylinder upper pin.
- 6. Remove cylinder.

#### CHANGE REAR WHEEL (FIG. 1)

- yo order your parts Jack machine up by pushing the cylinder lift forward to lower and adjust the angle of the cutting head to raise machine. 1.
- 2. Place blocks under forklift cups on the side of the machine that wheel is being changed.
- Let cylinder down resting machine on blocks allowing rear wheel to be lifted off the floor. 3.
- Remove five 1/2" lug nuts with an extended arm wrench, remove wheel.
- 5. Replace wheel.
- Replace five lug nuts and tighten, making sure lug nuts are very tight.
- 7. Raise cylinder to raise machine off of blocks. Remove blocks and lower machine.
- Repeat on other side if necessary.

#### **CHANGE CASTER**

Keep clean and free of debris; ensure it can move freely.

- Give a shot of grease in grease fitting on caster every month to keep caster moving freely.
- To remove caster, machine will need to be raised. Push the cylinder lift lever forward to lower and adjust the angle of the cutting head to jack up the machine. Block up machine with wooden block. Remove four bolts, pull caster off and clean/replace as needed.
- Pull caster toward rear of machine; re-place and tighten the four bolts. 4.
- Lower the machine.

#### SEAT REPLACEMENT

- Rotate hood to bumper stops.
- 2. Remove four nuts securing seat rails.
- Replace seat; screw on nuts.

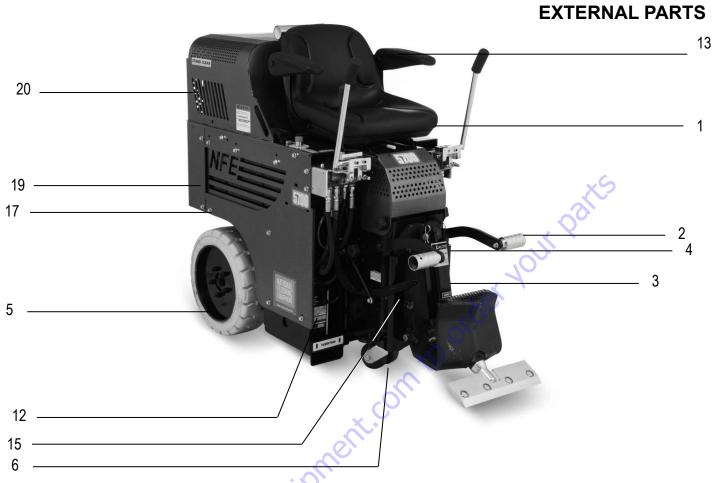
#### **Maintenance**

#### **CLEAN WHEEL MOTOR BUILD-UP**

- Inspect the wheel motor and wheel motor hub for debris build-up (best accessed from back of machine). Remove any strands of carpet and use compressed air (not high pressure) to clean out dust or glue build-up. If any build-up cannot be removed this way, complete the following steps to remove the wheel hub.
- Raise the front of the machine up by lowering the front cutting head down all the way, or by using 2 ton jack. Place blocks under the fork lift cup.
- Slowly raise the cutting head until the machine is resting on the blocks and the wheel on the side that is blocked up is raised off the ground.
- Remove the cotter pin and loosen the center wheel hub nut. 4.
- To loosen the wheel from the wheel motor shaft you might need to hit the steel rim from the inside with a rubber mallet.
- 6. Remove the wheel and remove the build up off of the wheel motor shaft.
- Go to Discount. Equipment. com to order your parts Re-mount the wheel hub, making sure that the keyway matches on the motor shaft. Tighten down the wheel hub nut to press fit in the wheel hub.
- 8. Re-insert the cotter pin.
- Lower the cutting head to raise the machine back off the blocks.
- 10. Repeat the process for the opposite side if needed.



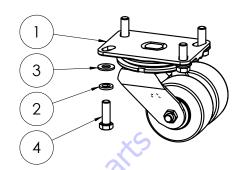
FIG. 1



	PART#	DESCRIPTION	QTY		PART#	DESCRIPTION	QTY
1	5110-111	SEAT, RIDE ON	1	18	401561-G	PANEL, SIDE, LEFT, GREEN	
2	5110-180	PEG, FOOT	2			(5700-12XXXX ONLY - NOT SHOWN)	1
3	5110-250	CYLINDER NN16	1		401561-SV	PANEL, SIDE, LEFT, SILVER VEIN (570	0-
4	5110-251	ROD, CYLINDER CONNECT	1			10XXXX, 11XXXX, 13XXXX, 17XXXX,	
5	N/A	SEE REAR WHEEL ASSEMBLY				18XXXX, 20XXXX, 21XXXX, 23XXXX, 26	XXXX
6	5200-194	CASTER, DOUBLE GRAY	1			ONLY - NOT SHOWN)	1
7	5700-103	SWITCH, START (NOT SHOWN)	1		401561-O	PANEL, SIDE, LEFT, ORANGE	
8	5700-102	SWITCH, E STOP (NOT SHOWN)	1			(5700-15XXXX ONLY - NOT SHOWN)	1
9	401571	TUB, BATTERY (NOT SHOWN)	1	19	402103-SV	WRAP, REAR, LOWER, SILVER VEIN	
10	401572	COVER, BATTERY, UPPER (NOT SHO	WN) 1			(5700-10XXXX, 11XXXX, 13XXXX, 17XX	XX,
11	401570	TRAY, BATTERY, UPPER (NOT SHOWN	N) 1			18XXXX, 20XXXX, 21XXXX, 23XXXX, 26	XXXX
12	N/A	SEE CHARGER ASSEMBLY				ONLY)	1
13	400321	ARMRESTS, KIT	1		402103-O	WRAP, REAR, LOWER, ORANGE	
14	5110-207	SWITCH, SEAT (NOT SHOWN)	1			(5700-15XXXX ONLY)	1
15	5200-603	GUIDE, HOSE	1		402103-G	WRAP, REAR, LOWER, GREEN	
16	70638	KNOB, ADJUSTABLE (NOT SHOWN)				(5700-12XXXX ONLY)	1
17	401560-G	PANEL, SIDE, RIGHT, GREEN		20	403132-SV	HOOD, RIDE-ON, SILVER VEIN	
		(5700-12XXXX ONLY)	1			(5700-10XXXX, 11XXXX, 13XXXX, 17X)	XΧ,
	401560-O	PANEL, SIDE, RIGHT, ORANGE				18XXXX, 20XXXX, 21XXXX, 23XXXX, 26	XXXX
		(5700-15XXXX ONLY)	1			ONLY)	1
	401560-SV	PANEL, SIDE, RIGHT, SILVER VEIN (57	'00-		403132-G	HOOD, RIDE-ON, GREEN	
		10XXXX, 11XXXX, 13XXXX, 17XXXX,				(5700-12XXXX ONLY)	1
		18XXXX, 20XXXX, 21XXXX, 23XXXX, 20	3XXXX		403132-O	HOOD, RIDE-ON, ORANGE	
		ONLY)	1			(5700-15XXXX ONLY)	1

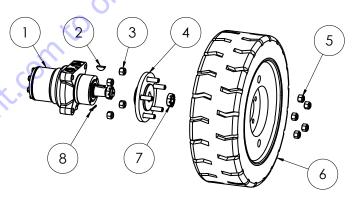
#### **CASTER WHEEL ASSEMBLY**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5200-194	Caster, Double Gray	1
2	73403	Washer, Split lock 1/2	4
3	73424	Washer, Flat, Zinc SAE 1/2	4
4	73427	Bolt, Hex Head Cap 1/2-13x1-1/2	4



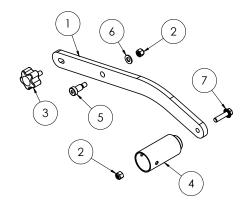
#### **REAR WHEEL ASSEMBLY**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	400133	Motor, Wheel, Hydraulic, 10mm	1
2	73047	1/4 x 1 Woodruff Key	1
3	73402	Nut, Nylock 1/2-13	4
4	5110-117	Wheel, Hub	1
5	73430	Nut, NyLock 1/2-20	5
6	5110-405	Wheel, Rim and Tire, 18"	1
7	5110-117-2	Hub Nut	1
8	401433	Pin, Cotter 1/8 x 1.75	1

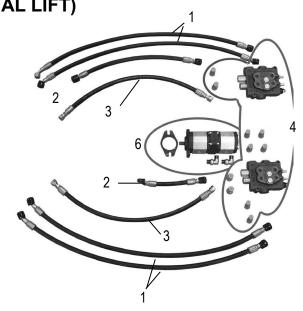


#### **FOOT PEG ASSEMBLY**

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	402298	Bracket, Pivot, Footrest	1
2	73207	NUT, NYLOCK, 3/8-16	2
3	401999	Knob, Adjustable, 3/4"	1
4	5110-180	Peg, Foot	1
5	402460	Bolt, Shoulder, .500 x .75, 3/8-16	1
6	73263	WASHER, FLAT SAE ZINC 3/8	1
7	73238	Bolt, Flange 3/8-16x1-1/2	1

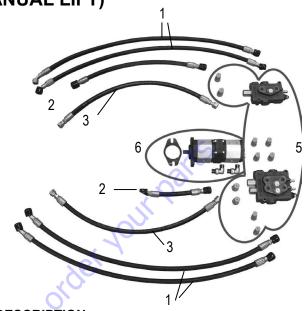


#### **SPOOL AND HOSE PARTS** (DUAL LIFT)



	PART#	DESCRIPTION	QTY
1	5200-261	HOSE, WHEEL MOTOR	4
2	5700-72	HOSE, HYDRAULIC, 3/8 X 21, F/F	2
3	5700-76	HOSE, HYDRAULIC, 3/8 X 26, F/F	2
4	N/A	SEE CONTROL LEVER PARTS (DUAL L	_IFT)

#### **SPOOL AND HOSE PARTS** (MANUAL LIFT)

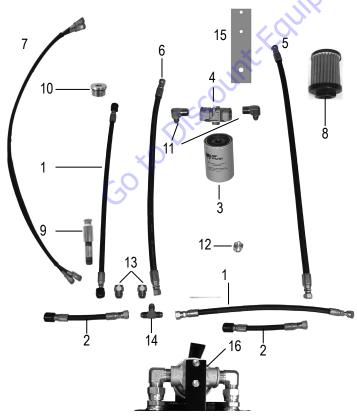


#### **DESCRIPTION**

5 N/A SEE CONTROL LEVER PARTS (MANUAL

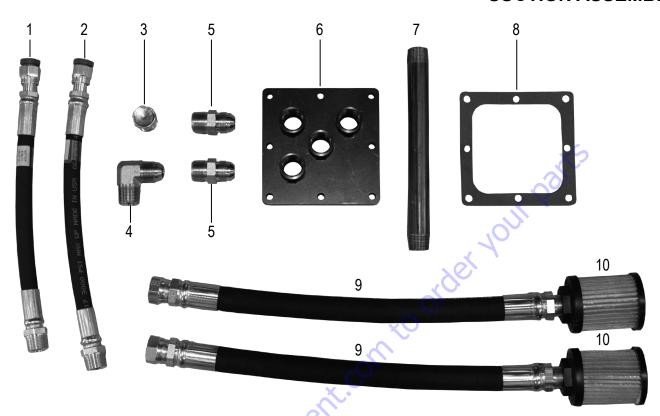
**6** N/A SEE GEAR PUMP ASSEMBLY

#### **FILTER AND TANK PARTS**



	PART#	DESCRIPTION	QTY
1	5700-72	HOSE, HYDRAULIC, 3/8 X 21, F/F	2
2	5700-76	HOSE, HYDRAULIC, 3/8 X 26, F/F	2
3	5700-65	FILTER	1
4	5700-66	FILTER HEAD	1
5	70354	HOSE, 3/4", RETURN LINE TO TANK	1
6	70355	HOSE, 3/4", RETURN LINE TO FILTER	1
7	5110-267	HOSE, CYLINDER	1
8	5110-237	FILTER SCREEN	2
9	5110-234-1	PIPE, RELIEF VALVE	1
10	5110-157	PLUG, DRAIN FILLER	2
11	70653	FITTING, FILTER	2
12	5700-67	PLUG, TANK	1
13	70654	FITTING, REDUCER	1
14	5700-70	T FITTING	1
15	5700-58	BRACKET, FILTER	1
16	70613	BRACKET, OIL FILTER	1
17	73020	BOLT, WIZLOCK, 1/4-20X5/8 (NOT SHO	WN) 2

#### **SUCTION ASSEMBLY**

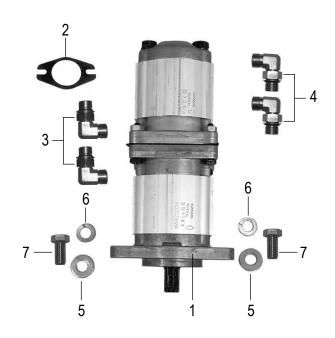


	PART#	DESCRIPTION	QTY		PART#	DESCRIPTION	QTY
1	5700-77	ASSEMBLY, HOSE	1	7	70655	PIPE, MALE, 10" X 3/4	1
2	5700-81	HOSE, SUCTION LINE	1	8	5700-93	GASKET	1
3	5700-67	PLUG, TANK	X / 1	9	400099	HOSE, SUCTION, 1/2" X 20" W/ FITTING	2
4	70653	FITTING, 90 DEGREE	1	10	5110-237	FILTER, SCREEN	2
5	70652	FITTING	2	11	73310	SCREW, SHC, 5/16-18 X 7/8	8
6	401574	PLATE, SUCTION	1	12	73303	WASHER, SPLIT LOCK, 5/16	8



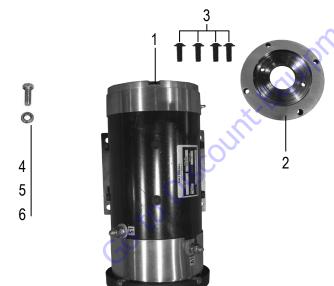


#### **GEAR PUMP ASSEMBLY**



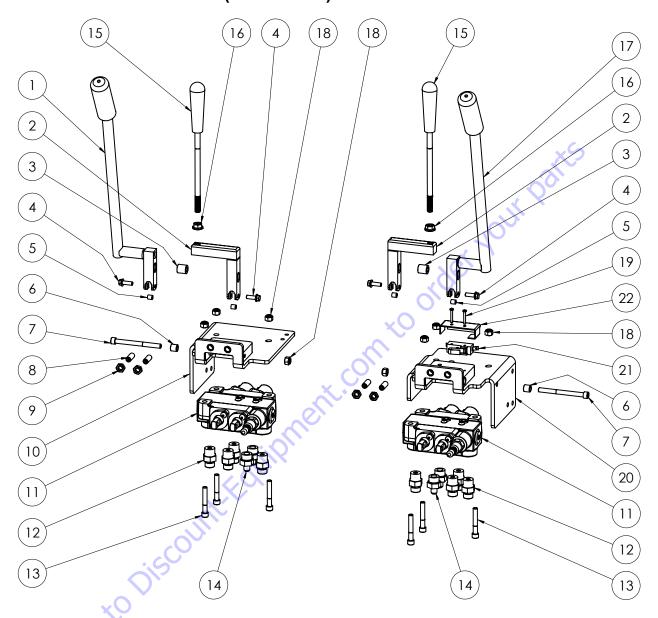
	PART#	DESCRIPTION	QTY
1	70905-D4	PUMP, DOUBLE, MARZOCCHI	1
	70905-D5	PUMP, DOUBLE, MARZOCCHI	
		(5700-18XXXX ONLY)	1
2	5200-1G	GASKET, PUMP	1
3	72816	FITTING, ELBOW, 90 DEGREE, 3/8"	2
4	6280-118	FITTING, SUCTION HOSE TO PUMP	2
5	73263	WASHER, FLAT SEA ZINC 3/8	2
6	73204	WASHER, SPLIT LOCK 3/8	2
7	73205	BOLT, HEX HEAD CAP 3/8 16X3/4	2

#### **MOTOR PARTS**



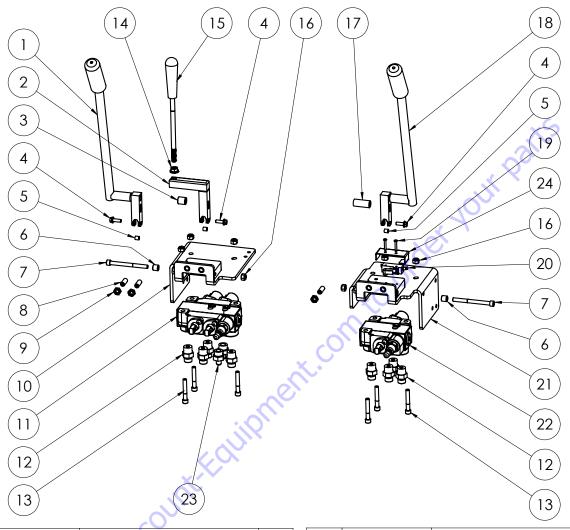
5 6 7	73263 73204 73205	WASHER, FLAT SEA ZINC 3/8 WASHER, SPLIT LOCK 3/8 BOLT, HEX HEAD CAP 3/8 16X3/4	2 2 2
v	PART#	DESCRIPTION	QTY
1	72385	MOTOR, 4 HP, XP2135	1
2	5200QL-1A 73242	PLATE, HYDRAULIC PUMP ADAPTOR SCREW, BH CAP WITH FLANGE 3/8 16	1 X 1 4
4	73222	BOLT, FLANGE, 3/8-16 X 1	1
5 6	73207 73263	NUT, NYLOC, 3/8-16 WASHER, FLAT, 3/8	1
O	13203	WASHER, FLAH, 3/0	- 1

#### **CONTROL LEVER PARTS (DUAL LIFT)**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	402416	Assembly, Valve Handle, Right	1	12	400034	Fitting, FF1231-06-08	8
2	401797	Bracket, Universal, Lever	2	13	73320	Bolt, Socket Head Cap 5/16-18x2	6
3	401408	Spacer, Round, .323 X .625 X .675	2	14	400137	Fitting, 1/2 - 1/4, JIC	4
4	73027	Bolt, Wizlock, 1/4-20 X 3/4	4	15	5700-60	Handle, Valve Adjustment	2
5	401604	Bushing, Lever, Hydro Valve	4	16	73211	Nut, Flange, Serrated, 3/8-16	2
6	402227	Sleeve, Take-up, Valve Brkt	2	17	402415	Assembly, Valve Handle, Left	1
7	73321	Bolt, SHCS, 5/16-18x3.5	2	18	73322	Nut, Nyloc, 5/16-18	8
8	73227	Screw, Set 3/8-24x1	4	19	74517	Screw, PPH-MS, 6-32x1	2
9	73235	Nut, Hex Jam 3/8-24	4	20	401795	Bracket Wldt, Valve, LH	1
10	401796	Bracket Wldt, Valve, RH	1	21	403064	Switch, Back-up Beeper	1
11	401832	Valve, Metered, Dual Spool, Low PSI	2	22	402949	Cover, Switch, Back-Up	1

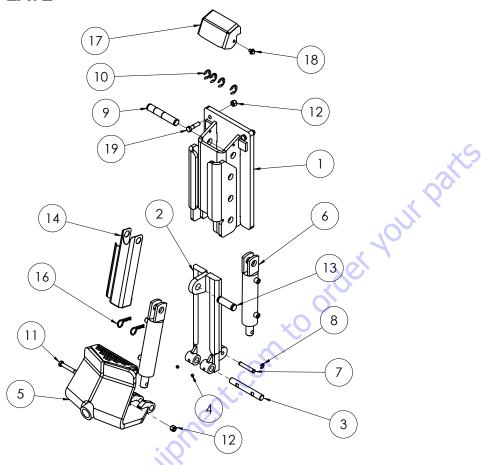
#### **CONTROL LEVER PARTS (MANUAL LIFT)**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	402416	Assembly, Valve Handle, Right	1
2	401797	Bracket, Universal, Lever	1
3	401408	Spacer, Round, .323 X .625 X .675	1
4	73027	Bolt, Wizlock, 1/4-20 X 3/4	3
5	401604	Bushing, Lever, Hydro Valve	3
6	402227	Sleeve, Take-up, Valve Brkt	2
7	73321	Bolt, SHCS, 5/16-18x3.5	2
8	73227	Screw, Set 3/8-24x1	3
9	73235	Nut, Hex Jam 3/8-24	3
10	401796	Bracket Wldt, Valve, RH	1
11	401832	Valve, Metered, Dual Spool, Low PSI	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	400034	Fitting, FF1231-06-08	8
13	73320	Bolt, Socket Head Cap 5/16-18x2	6
14	73211	Nut, Flange, Serrated, 3/8-16	1
15	5700-60	Handle, Valve Adjustment	1
16	73322	Nut, Nyloc, 5/16-18	7
17	401947	Spacer, Round, .323 X .625 X 1.455	1
18	402415	Assembly, Valve Handle, Left	1
19	74517	Screw, PPH-MS, 6-32x1	2
20	403064	Switch, Back-up Beeper	1
21	401795	Bracket Wldt, Valve, LH	1
22	401833	Valve, Metered, Single Spool, Low PSI	1
23	400137	Fitting, 1/2 - 1/4, JIC	2
24	402949	Cover, Switch, Back-Up	1

#### **DUAL SLIDE PLATE**



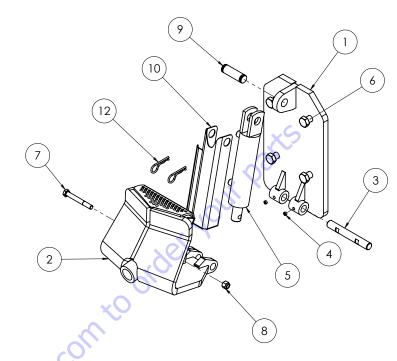
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	402423	Housing, Hydraulic Adjustment, Wldt	1
2	402432	Slide Plate, Hydraulic Adjustment, Wldt	1
. (3)	401429	Pin, Lower Cutting Head Support	1
4	401876	SSS, 3/8-24 x .25, Black Oxide	2
5	402440	Tooling Holder, Weldment	1
6	5110-250	Cylinder NN16	2
7	6500-31	Pin Lower Middle	1
8	80084	E-Clip, 1/2" shaft	2
9	402542	Pin, Upper, Hydraulic Cylinder	1
10	80083	E-Clip, 1" shaft	4
11	400132	Bolt, Hex Head, 1/2-13 x 4, Grade 8	1
12	73402	Nut, Nylock 1/2-13	3
13	402576	Pin, Cylinder/Guard, Upper	1
14	402574	Shield, Cylinder	1
15	400296*	Gasket, EPDM Foam	1
16	73536	5/8 Hitch Pin Clip	2
17	402513	Cover, Hydraulic Adjustment, Housing	1
18	73224	Bolt, Flange 3/8-16x1/2	2
19	73413	Bolt, Hex Head 1/2-13x2	2

\*-NOT SHOWN

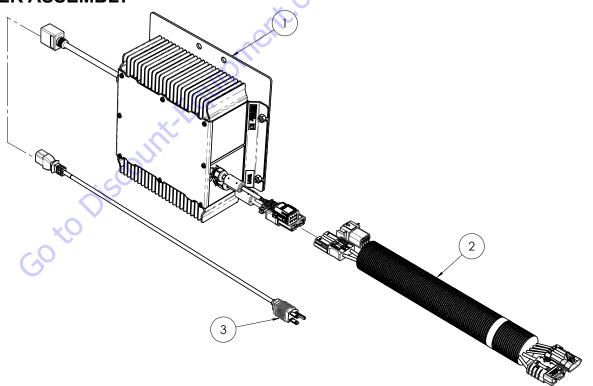
#### **MANUAL SLIDE PLATE**

PART NUMBER	DESCRIPTION	QTY.
402410	Slide Plate, Steel, Manual Adjustment	1
402440	Tooling Holder, Weldment	1
401429	Pin, Lower Cutting Head Support	1
401876	SSS, 3/8-24 x .25, Black Oxide	2
5110-250	Cylinder NN16	1
73605	Bolt, Hex Head, Grade 8, 3/4-10x1-1/2	4
400132	Bolt, Hex Head, 1/2-13 x 4, Grade 8	1
73402	Nut, Nylock 1/2-13	1
402576	Pin, Cylinder/Guard, Upper	1
402574	Shield, Cylinder	1
400296*	Gasket, EPDM Foam	1
73536	5/8 Hitch Pin Clip	2
	402410 402440 401429 401876 5110-250 73605 400132 73402 402576 402574 400296*	402410 Slide Plate, Steel, Manual Adjustment  402440 Tooling Holder, Weldment  401429 Pin, Lower Cutting Head Support  401876 SSS, 3/8-24 x .25, Black Oxide  5110-250 Cylinder NN16  73605 Bolt, Hex Head, Grade 8, 3/4-10x1-1/2  400132 Bolt, Hex Head, 1/2-13 x 4, Grade 8  73402 Nut, Nylock 1/2-13  402576 Pin, Cylinder/Guard, Upper  402574 Shield, Cylinder  400296* Gasket, EPDM Foam

<sup>\*-</sup>NOT SHOWN

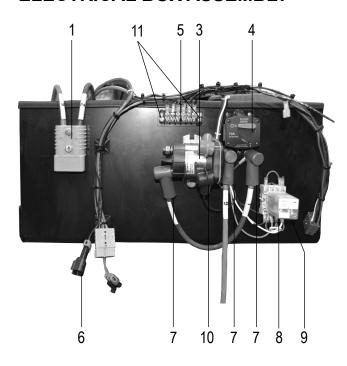






ITEM NO.	5700-10XXXX 5700-12XXXX 5700-17XXXX 5700-18XXXX 5700-23XXXX	5700-13XXXX 5700-21XXXX	5700-11XXXX 5700-15XXXX 5700-26XXXX	5700-20XXXX 5700-28XXXX	DESCRIPTION	QTY.
1	403202	403202	403202	403204	Assembly, Delta-Q Charger Replacement	1
2	403146	403146	403146	403146	Harness, Charger	1
3	402878	402880	402879	402635	Cord, Power	1

#### **ELECTRICAL BOX ASSEMBLY**



	PART#	DESCRIPTION Q	T
1	5200-118-8	CONNECTOR, BLUE 48V BATTERY	2
2	5700-100	WIRE SET (NOT SHOWN)	1
3	5700-104	SOLENOID	1
4	5700-106	BREAKER, CIRCUIT, 70 AMP	1
5	5700-85	COVER, TERMINAL STRIP	1
6	403129	HARNESS, MAIN	1
7	71703	PROTECTOR, BATTERY TERMINAL, RED	3
8	5700-90	RELAY, SOCKET	1
9	5700-91	RELAY	1
10	401450	BOOT, BATTERY TERMINAL BLK, SMALL	1
11	74508	SCREW, PHILLIPS PAN HEAD MACHINE	
		6-32X1/2	2

#### **BATTERY**



10 11	74508 74508	SCREW, PHILLIPS PAN HEAD MACHINE 6-32X1/2	2
	PART#	DESCRIPTION Q	ĮΤΥ
1	5213-2	BATTERY, 8 VOLT, 2900	12
1 2	401674	ROD, HOLD-DOWN, BATTERY	3
3	5700-56	SPACER, BATTERY (NOT SHOWN)	4
4	5700-100	WIRE SET (PARTIALLY SHOWN)	1
5	5700-62	COVER, BATTERY HOLD DOWN	3
6	5200QL-50	PAD, SHOCK, BATTERY	3
7	71703	PROTECTOR, BATTERY TERMINAL, RED	
8	71704	PROTECTOR, BATTERY TERMINAL, BLK	13

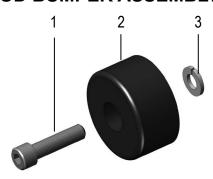
<b>PART# 1</b> 401476 <b>2</b> 401477	<b>DESCRIPTION</b> RISER, BATTERY TUB, FRONT RISER, BATTERY TUB, REAR	<b>QTY</b> 1 1	BATTERY RISERS
			Dait's
PART#	DESCRIPTION	QTY	INSTRUCTION TUBE ASSEMBLY
1 70602 2 70603 3 74425	TUBE, INSTRUCTION MANUAL CAP, INSTRUCTION TUBE NUT, KEPS LOCK 10/32	in the state of th	2 and a second s

#### **BACKUP BEEPER ASSEMBLY**



	PART#	DESCRIPTION	QTY
1	5200-116	BEEPER, BACK UP	1
2	73020	BOLT, WIZLOCK, 1/4-20X5/8	2

#### **HOOD BUMPER ASSEMBLY**



	PART#	DESCRIPTION	QTY
1	73020	BOLT, WIZLOCK 1/4-20X5/8	2
2	5600-66	BUMPER, HOOD	2
3	73002	WASHER, SPLIT LOCK 1/4	2

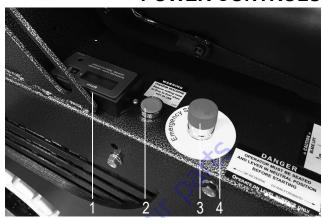
#### FRONT WHEEL ASSEMBLY



	PART#	DESCRIPTION Q	ΓY
1	5110-100	TRANSPORT WHEEL	1
2	5110-100W	CASTER ASSY, 5", TRANSPORT WHEELS	2

	PART#	DESCRIPTION	QTY
1	403042	ALARM, LOW VOLTAGE	1
2	5700-103	SWITCH, START	1
3	5700-102	SWITCH, E-STOP	1
4	5700-102D	NAME PLATE, EMERGENCY STOP	1

#### **POWER CONTROLS**



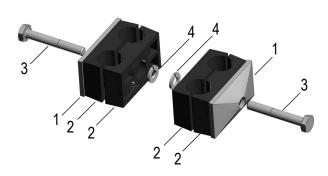
	PART#	DESCRIPTION	QTY
1	401991	PLATE, HOUR METER	1
2	5700-88	METER, HOUR	1

#### **HOUR METER**



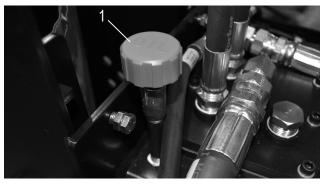
	PART#	DESCRIPTION	QTY
1	5200-261-1A	CLAMP	2
2	5200-261-1B	BODY ONLY, CLAMP	4
3	73063	BOLT, HEX HEAD CAP 1/4-20X1-3/4	2
4	73002	WASHER, SPLIT LOCK 1/4	2

**HOSE CLAMP ASSEMBLY** 



	PART#	QTY			
1	80058	BREATHER, WITH 6" DIP STICK	1		
2	402989	989 PIPE, RELIEF VALVE, 2-1/2"			
3	5110-234	4 COUPLER, RELIEF VALVE			
4	70655	PIPE, MALE, 10" X 3/4"	1		

**BREATHER DIP STICK** 



#### **SEAT SWITCH**

#### PART#

#### **DESCRIPTION**

**QTY** 

**1** 5110-207

SWITCH, SEAT



#### **SEAT HARNESS**

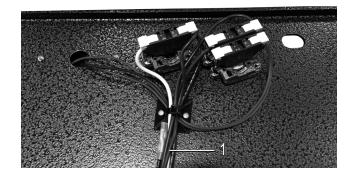


DESCRIPTION

**QTY** 

**1** 403128

HARNESS, SEAT



#### **SEAT ASSEMBLY**



PART#	DESCRIPTION
401631	ADJUSTER, FORE/AFT, SEAT

comtoorder

SEAT, RIDE-ON ARM RESTS, KIT FOR SEAT

**QTY** 

**QTY** 

400321

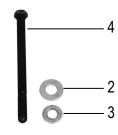
5110-111

73322

NUT, NYLOC, 5/16-18 (NOT SHOWN)

#### **WEIGHTS**





#### PART#

#### **DESCRIPTION**

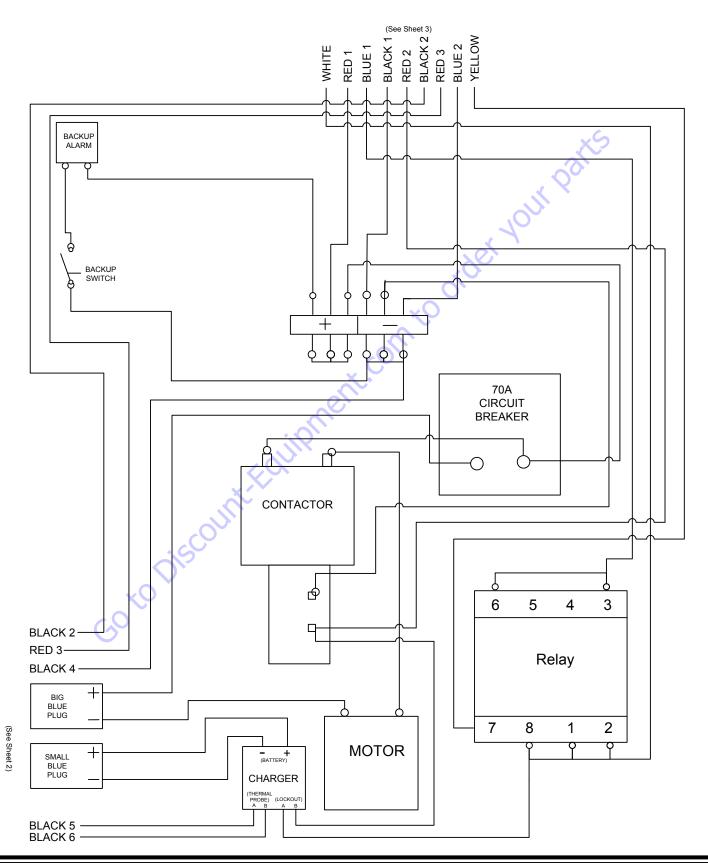
WEIGHT, POCKET, CAST, RIDE ON 5 WASHER, FLAT, ZINC SAE 5/8 7 WASHER, SPLIT LOCK 1/2 BOLT, HEX HEAD 1/2 13X7 WASHER, FLAT, 5/8

#### **LABELS**



	PART#	DESCRIPTION	QTY		PART#	DESCRIPTION	QTY
1	L08-1	LABEL, STAND CLEAR	2	12	L33B	LABEL, CAUTION MOVING PART	1
2	L106	_ LABEL, PINCH POINT	2	13	L33C	LABEL, INSTRUCTION MANUAL	1
3	L118	LABEL, OPERATOR MUST BE SEATED	2	14	L33D	LABEL, AUTHORIZED PERSONEL ONLY	1 1
4	L165	LABEL, LARGE, RIDE ON	1	15	L38	LABEL, DISCONNECT POWER	1
5	L137	LABEL, DISARM MACHINE	2	16	L66	LABEL, LARGE CAUTION	1
6	L155	LABEL, GENERAL WARNING	1	17	L95F	LABEL, FLUID LEAK	2
7	L223	LABEL, PATENT NUMBER	1	18	L98	LABEL, BLADE LIFT	1
8	L305	LABEL, DO NOT GET CHARGER WET	1	19	402001	LABEL, NATIONAL LOGO, LARGE	2
9	L309	LABEL, "A"	6	20	402010	LABEL, 5700 LOGO	2
10	L310	LABEL, "B"	6				
11	L311-2	LABEL. BATTERY	12				

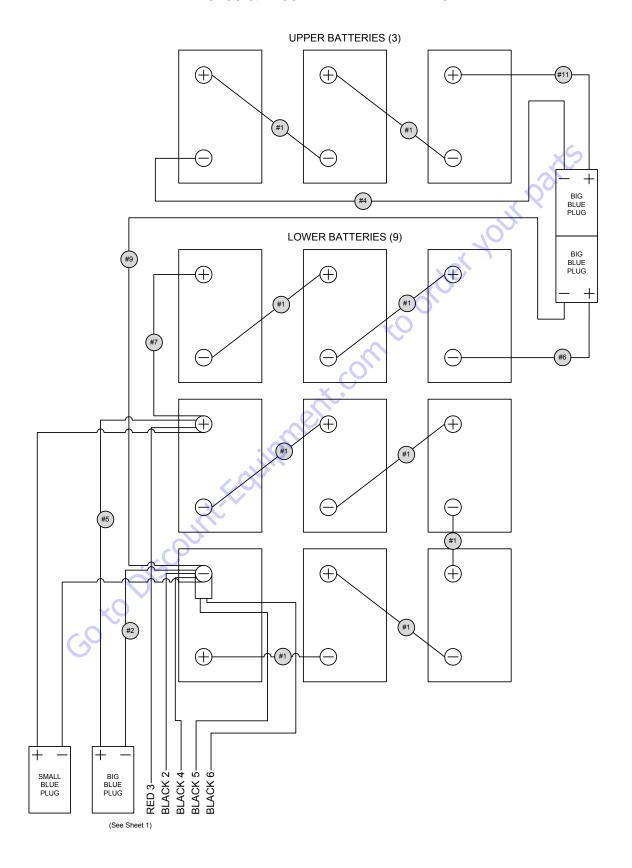
SHEET 1 OF 3



5700 & 7700 MAIN WIRING

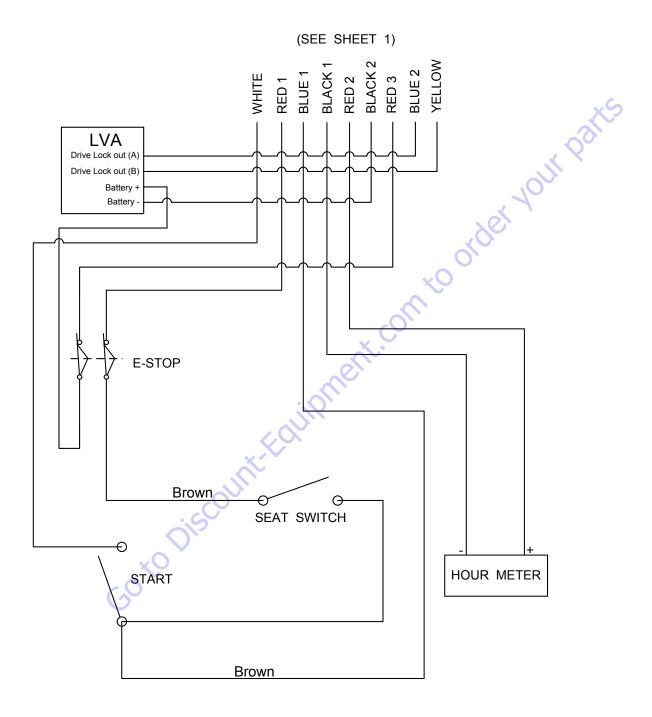
5700 & 7700 BATTERY WIRING

SHEET 2 OF 3



#### 5700 & 7700 SEAT WIRING

SHEET 3 OF 3



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