

OPERATION AND PARTS MANUAL



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MODEL V305EH VIBRATORY ROLLER (HONDA GX340UT2QAE2 GASOLINE ENGINE)

Revision #2 (10/18/19)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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PROPOSITION 65 WARNING



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NOTICE

Specifications and part numbers are subject to change without notice.

SAFETY INFORMATION

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.



SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: **DANGER**, **WARNING**, **CAUTION** or **NOTICE**.

SAFETY SYMBOLS

DANGER

Indicates a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**.

WARNING

Indicates a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

CAUTION

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE INJURY**.

NOTICE

Addresses practices not related to personal injury.

The following table shows the potential hazards associated with the operation of this equipment.

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Respiratory hazards
	Rotating parts hazards
	Pressurized fluid hazards
	Electric shock hazards
	Runover hazards


SAFETY INFORMATION

GENERAL SAFETY

CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.




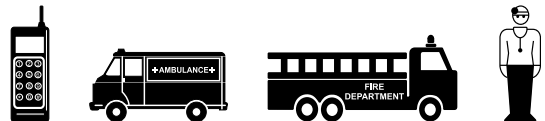
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication. 
- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **ALWAYS** check the equipment for loosened threads or bolts before starting.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.
- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.

NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **ALWAYS** know the location of the nearest **fire extinguisher**. 
- **ALWAYS** know the location of the nearest **first aid kit**. 
- **ALWAYS** know the location of the nearest phone or **keep a phone on the job site**. Also, know the phone numbers of the nearest **ambulance, doctor and fire department**. This information will be invaluable in the case of an emergency.



SAFETY INFORMATION

ROLLER SAFETY

DANGER

- **NEVER** operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.



WARNING

- **NEVER** disconnect any **emergency or safety devices**. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.

CAUTION

- **NEVER** lubricate components or attempt service on a running machine.
- Never leave the roller unattended with the engine running. Turn off engine.
- Use chock blocks when parking roller on a grade.
- Use extreme care when operating near obstructions, on slippery surfaces, grades, and slide slopes.
- When reversing, particularly on the edges and banks of ditches, as well as in front of obstacles, the operator must stay in a standing position at a safe distance from the machine.
- When operating near any house/building or pipelines, always check the effect of machine vibration. Stop work if necessary.
- **DO NOT** operate the roller with the covers open.
- **ALWAYS** keep the machine away from other personnel and obstacles. Always keep immediate area free of bystanders.

NOTICE

- **ALWAYS** keep the machine in proper running condition.
- Fix damage to machine and replace any broken parts immediately.

- **DO NOT** use worn-out hoses or couplings. Inspect daily.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

ENGINE SAFETY

DANGER

- The engine fuel exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled.
- The engine of this equipment requires an adequate free flow of cooling air. **NEVER** operate this equipment in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause injury to people and property and serious damage to the equipment or engine.



WARNING

- **DO NOT** place hands or fingers inside engine compartment when engine is running.
- **NEVER** operate the engine with heat shields or guards removed.
- Keep fingers, hands hair and clothing away from all moving parts to prevent injury.
- **DO NOT** remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the roller.



CAUTION

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing equipment.
- Always turn the engine off before performing maintenance.



SAFETY INFORMATION

NOTICE

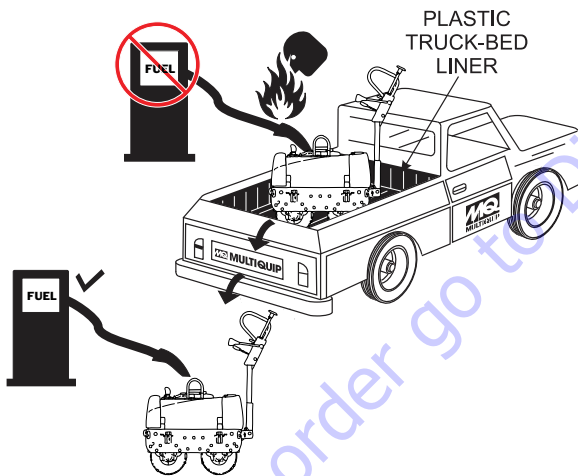
- **NEVER** run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.
- **NEVER** tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable.
- **NEVER** tip the engine to extreme angles during lifting as it may cause oil to gravitate into the cylinder head, making the engine start difficult.



FUEL SAFETY

DANGER

- **DO NOT** add fuel to equipment if it is placed inside truck bed with plastic liner. Possibility exists of explosion or fire due to static electricity.



- **DO NOT** start the engine near spilled fuel or combustible fluids. Diesel fuel is extremely flammable and its vapors can cause an explosion if ignited.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with **flammable** liquids.
- **DO NOT** fill the fuel tank while the engine is running or hot.

- **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system.
- Store fuel in appropriate containers, in well-ventilated areas and away from sparks and flames.
- **NEVER** use fuel as a cleaning agent.
- **DO NOT** smoke around or near the equipment. Fire or explosion could result from fuel vapors or if fuel is spilled on a hot engine.



BATTERY SAFETY (ELECTRIC START ONLY)

DANGER

- **DO NOT** drop the battery. There is a possibility that the battery will explode.
- **DO NOT** expose the battery to open flames, sparks, cigarettes, etc. The battery contains combustible gases and liquids. If these gases and liquids come into contact with a flame or spark, an explosion could occur.



WARNING

- **ALWAYS** wear safety glasses when handling the battery to avoid eye irritation. The battery contains acids that can cause injury to the eyes and skin.
- Use well-insulated gloves when picking up the battery.
- **ALWAYS** keep the battery charged. If the battery is not charged, combustible gas will build up.
- **DO NOT** charge battery if frozen. Battery can explode. When frozen, warm the battery to at least 61°F (16°C).
- **ALWAYS** recharge the battery in a well-ventilated environment to avoid the risk of a dangerous concentration of combustible gases.
- If the battery liquid (dilute sulfuric acid) comes into contact with **clothing or skin**, rinse skin or clothing immediately with plenty of water.



SAFETY INFORMATION

- If the battery liquid (dilute sulfuric acid) comes into contact with **eyes**, rinse eyes immediately with plenty of water and contact the nearest doctor or hospital to seek medical attention.

CAUTION

- **ALWAYS** disconnect the **NEGATIVE battery terminal** before performing service on the equipment.
- **ALWAYS** keep battery cables in good working condition. Repair or replace all worn cables.

TRANSPORTING SAFETY

CAUTION

- **NEVER** allow any person or animal to stand underneath the equipment while lifting.

NOTICE

- Before lifting, make sure that the equipment parts are not damaged and screws are not loose or missing.
- Use lifting equipment capable of lifting the weight of the roller.
- Always make sure crane or lifting device has been properly secured to the lifting bail (hook) of the equipment.
- **ALWAYS** shutdown engine before transporting.
- **NEVER** lift the equipment while the engine is running.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- Use one point suspension hook and lift straight upwards with sufficient bearing capacity to prevent machine from tilting or slipping.
- **DO NOT** lift machine to unnecessary heights.
- **ALWAYS** make sure that roller is secured correctly when transporting on a trailer. Make sure all supports attaching the roller to the trailer are tight.

ENVIRONMENTAL SAFETY

NOTICE


- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters. 
- **DO NOT** use food or plastic containers to dispose of hazardous waste.
- **DO NOT** pour waste, oil or fuel directly onto the ground, down a drain or into any water source.

Table 1. Specifications (Vibratory Roller)

Centrifugal Force	3,800 lbf (16.9 kN)
Vibration Frequency	4,200 vpm (70 Hz)
Gradeability (Maximum)	10% or 6°
Overall Length	88.5 in. (2,248 mm)
Overall Height	86.5 in. (2,197 mm)
Drum Diameter	22 in. (559 mm)
Drum Width	29 in. (737 mm)
Overall Width	35 in. (890 mm)
Operating Weight (Empty)	1168 lbs. (530 kg.)
Drive System	Hydrostatic
Working Speed (Forward)	0 - 2.5 mph (0 - 4.0 kph)
Working Speed (Reverse)	0 - 1.7 mph (0 - 2.7 kph)
Water Tank Capacity	7 gallons (26.5 liters)
Curb Clearance (Right)	16.5 in. (419 mm)
Curb Clearance (Left)	4.5 in. (114 mm)
Wall Clearance (Right)	0.75 in. (19 mm)
Wall Clearance (Left)	4.5 in. (114 mm)
Vibration Amplitude	.019 in. (.48 mm)

Engine Model	HONDA GX340UT2QAE2
Engine Type	Air-cooled, 4 stroke, Overhead Valve, Single Cylinder, Horizontal Shaft Gasoline Engine
Cylinder Bore X Stroke	3.2 in. X 2.5 in. (88 mm x 64 mm.)
Displacement	20.60 cu-in (337 cc)
Net power (in accordance with SAE J1349*)	10.7 H.P. (8 kW)
Fuel Tank Capacity	1.59 gallons (6.0 liters)
Fuel	Unleaded Automobile Gasoline
Oil Capacity	1.16 quarts (1.1 liters)
Oil Alert System	Yes
Speed Control Method	Centrifugal Flyweight Type
Starting Method	Electric/Recoil Start
Dry Net Weight	68.4 lbs (31 Kg.)
Dimensions (L x W x H)	15.0 x 17.7 X 17.4 in. (380 X 450 X 443 mm.)

* The power rating of the engine is the net power output tested on a production engine and measured in accordance with SAE J1349 at 3,600 rpm (net power) and at 2,500 rpm (max net torque). Mass production engines may vary from this value. Actual power output for the engine installed in the machine will vary depending on numerous factors, including the operating speed of the engine in application, environmental conditions, maintenance and other variables.

DIMENSIONS

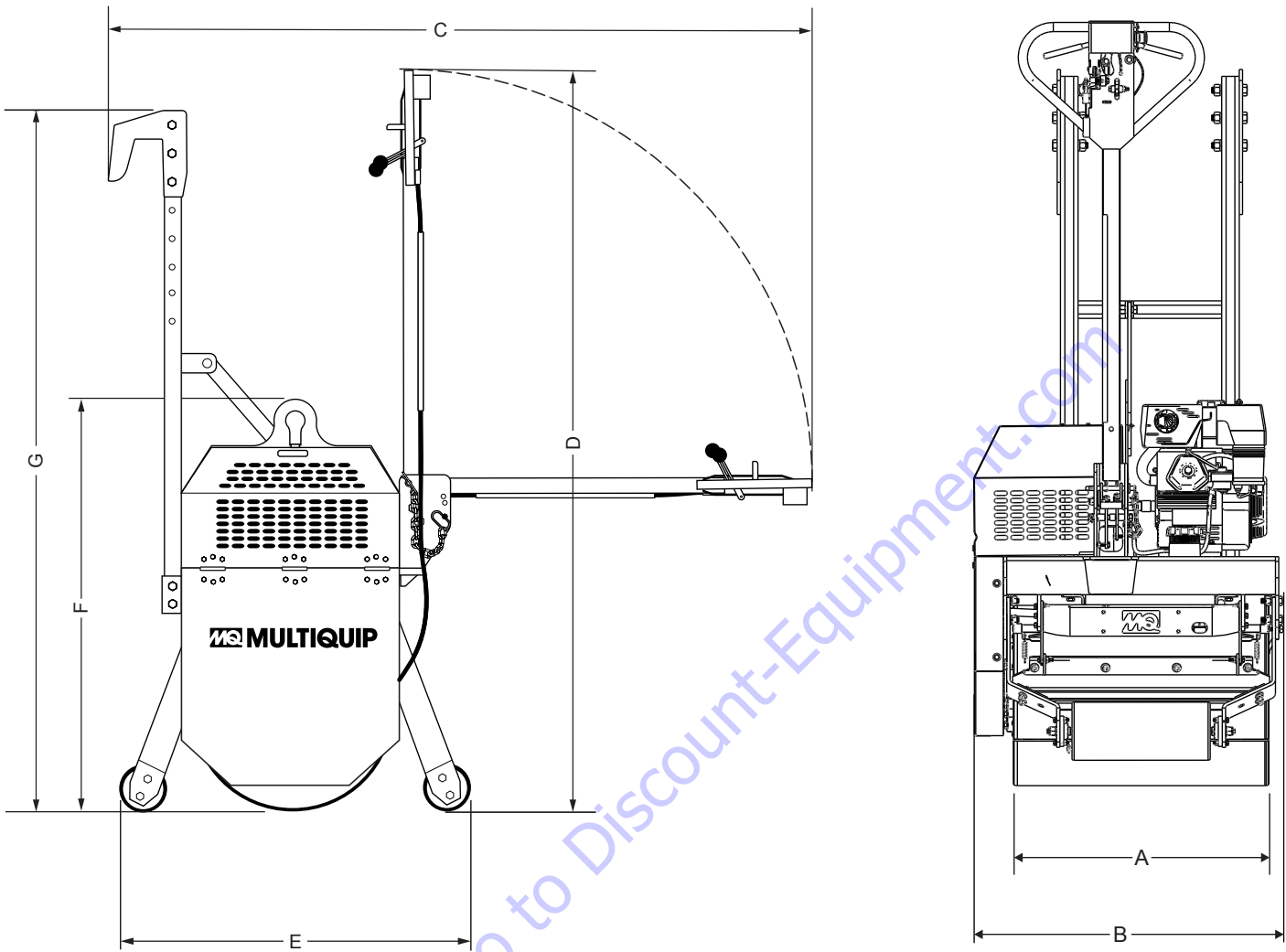


Figure 1. V305EH Dimensions

Table 3. Dimensions (Roller)

A	29.0 in. (736.6 mm.)
B	35.0 in. (889 mm.)
C	88.5 in. (2,248 mm.)
D	86.5 in. (2,197 mm.)
E	47 in. (1,193.8 mm.)
F	46.25 in. (1,175 mm.)
G	82.5 in. (2,095.5 mm.)

GENERAL INFORMATION

The V305EH Vibratory Roller is a walk-behind vibratory roller specifically designed for the compaction and patching of asphalt type surfaces.

The compaction force is delivered by a 29-inch wide steel drum with beveled edges to help prevent asphalt **marring**. A fully enclosed hydrostatic drive system offers a variable speed control as well as smooth acceleration and braking.

HYDROSTATIC DRIVE SYSTEM

This hydrostatic design offers a smooth performance, because of a fully integrated hydrostatically-actuated drive system, which provides a variable speed control under varying load conditions. Power from the hydraulic drive system is transferred via a drive belt to a gear reducer.

CONTROLS

The forward-reverse control lever (located on the handle) operates the hydrostatic pump which governs the roller speed and direction of travel. The neutral position of this lever will cause the roller to stop. The vibration control, when actuated, will apply a force of 4,200 vpm (vibrations per minute). This vibratory feature is controlled by an eccentric shaft via an operator controlled mechanical clutch.

FREE WHEEL ENGAGEMENT LEVER

The hydrostatic transmission is equipped with a free wheel engagement lever, which when actuated, allows the oil to circulate freely within the roller. This allows the roller to be moved without the engine running. This lever is only to be used in the event the roller is disabled.

This lever is located on the side of the transmission which faces the front of the roller. It is actuated by placing the handle into the side-lock position. To gain access to this lever, raise the roller's hood. **DO NOT** raise hood while engine is running. **STOP** engine first.

NOTICE

In normal operating conditions, the roller will not move in a forward or reverse direction unless the free wheel engagement lever is in the engage position (forward).

SPRINKLER SYSTEM

A 7 gallon (26.5 liters) water tank with a gravity feed spray bar is provided for wetting the roll for asphaltic pavement rolling. The delivery system is controlled by a mechanical

lever located on the handle with three water-flow adjustment settings.

Before starting an asphalt rolling job, be sure all spray bar holes are clear of dirt or foreign matter and are working. Front and rear neoprene rubber scrapers are provided to prevent the build-up of material between the drum and the frame.

Always use clean fresh water in the water tank. A plastic water reservoir is provided to prevent rust. It is suggested to drain and flush water tank and spray bars every 30 days to help the sprinkler system operate smoothly.

TRANSPORTATION

To help transport the roller from job site to job site, adjustable transport hooks have been provided. These transport hooks allow an operator to place the roller on the tailgate of a dump truck without any assistance. The control handle of the roller can be folded vertically for ease of transport and storage.

LIFTING THE ROLLER

When lifting of the roller is required (Figure 2), attach a suitable hook or shackle to the **lifting eye** of the roller. Make sure the lifting device is capable of lifting 1,168 lbs (530 kg).

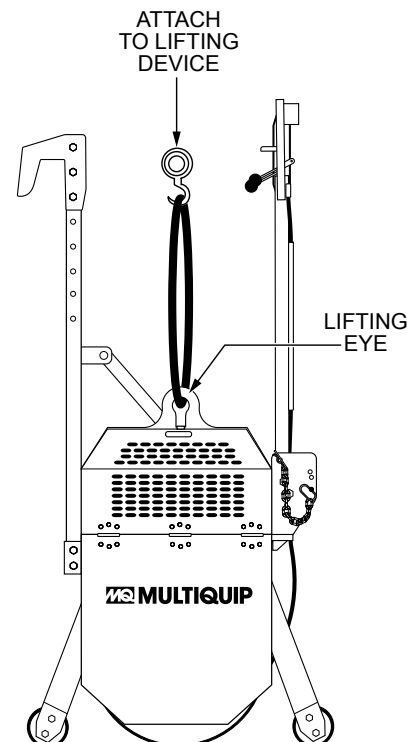


Figure 2. Lifting the Roller

GENERAL INFORMATION

CAUTION

NEVER stand under, or get onto the roller while it is being lifted or moved.

NOTICE

ONLY use steel ropes or chains that are capable of lifting at least 2,000 lbs (907 kg).

NEVER use any other part of the roller for lifting purposes. Use the lifting eye. Using other parts of the roller for lifting will cause severe damage to the roller.

OPERATING ON SLOPES

Special care must be taken when operating the roller on hills or slopes. There exist the possibility of serious injury to the operator and severe damage to the roller in the event of a roll over. **ALWAYS** operate the roller up and down hills rather than from side to side. For safe operation, hillside slopes should not exceed 6° (10% grade). See Figure 3 below.

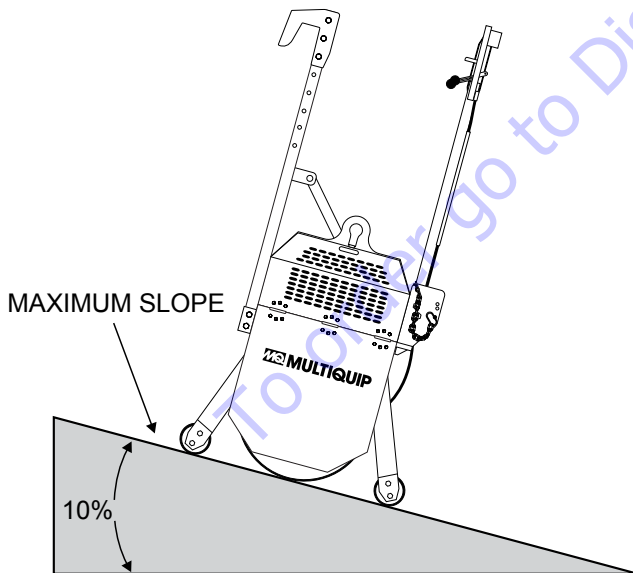


Figure 3. Recommended Slope

Tipping (Rollovers)

NEVER operate the roller on side slopes (Figure 4). The possibility exists of the roller tipping over (roll over), thus causing bodily harm even death and serious damage to the equipment.

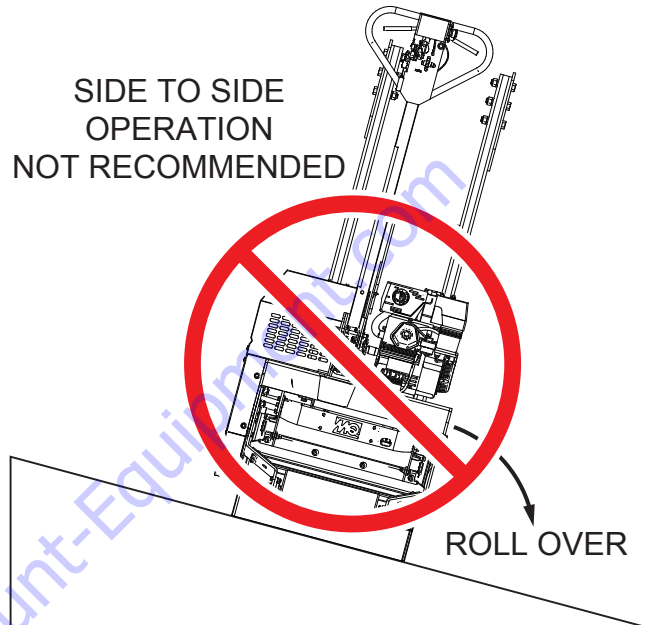


Figure 4. Tipping (Rollover)

In the event the roller does tip over, extreme care must be taken to prevent damage to the engine. When the roller has been tipped over, oil from the engine crankcase can flow into the combustion chamber, which can severely damage the engine the next time it is started.

IMMEDIATELY after a unit has tipped over upright the unit as soon as possible to prevent oil from leaking into the combustion chamber.

NOTICE

To prevent damage to the engine after a rollover, the unit must **NOT** be started. **NEVER** start a unit after a rollover. **CONTACT** your nearest authorized Multi-quip dealer for instructions or servicing.

CAUTION

NEVER operate the roller on **side slopes**. The roller may tip over causing injury to personnel and severe damage to the equipment.

ROLLER COMPONENTS

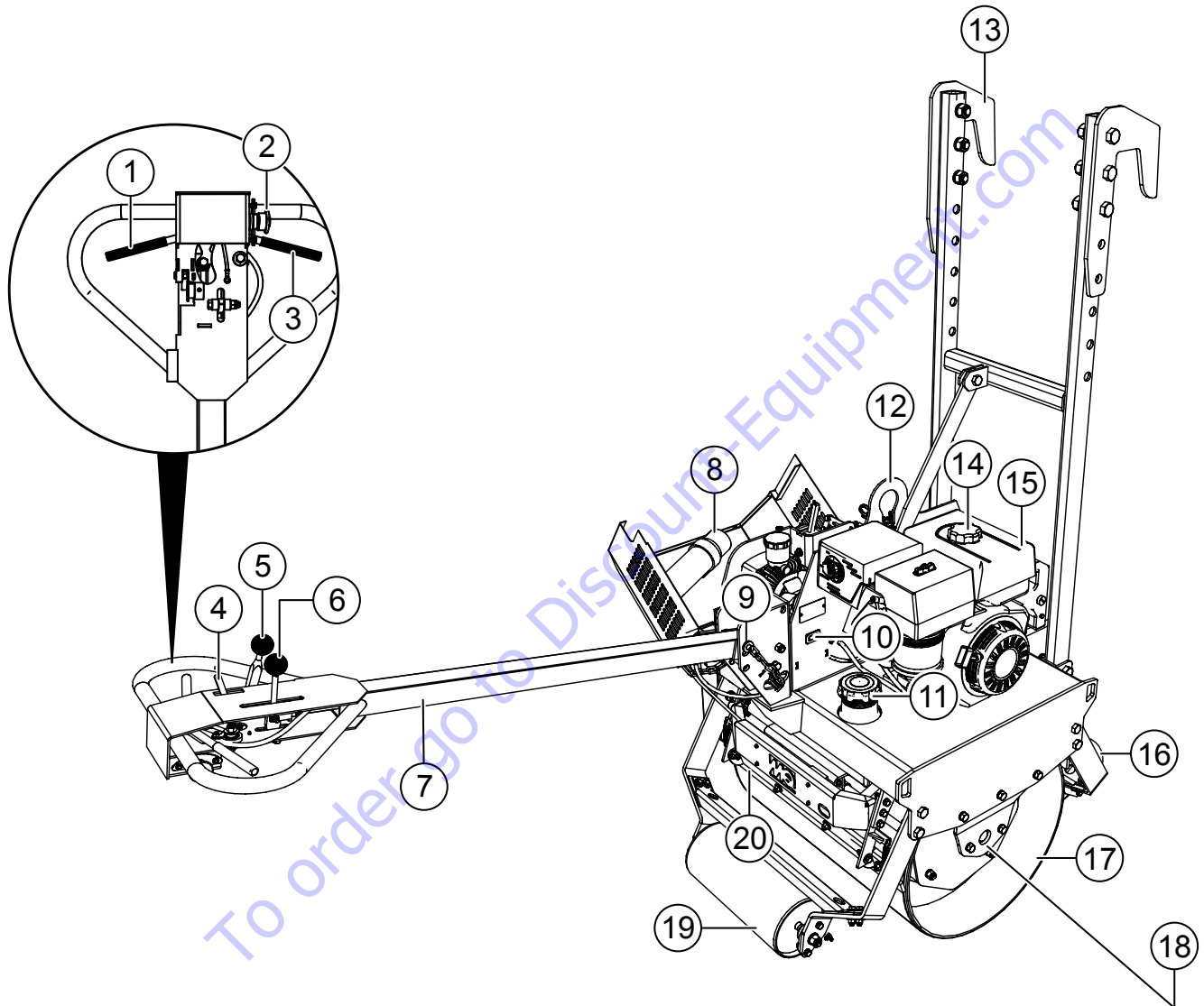


Figure 5. V305EH Components

ROLLER COMPONENTS

Figure 5 shows the location of the components for the V305EH roller. The functions are described below:

1. **Forward Travel Lever** — This is a variable speed control lever. Squeeze this lever to make the roller travel in a forward direction.
2. **Emergency Stop Button** — Press this button to stop the roller in the event of an emergency. **DO NOT** use this button as a means of stopping the roller under normal conditions. When starting the engine, make sure that this push button switch is in the up position.
3. **Reverse Travel Lever** — This is a variable speed control lever. Squeeze this lever to make the roller travel in a reverse direction.
4. **Water Shut-Off Release Control** — Closes the water valve.
5. **Water Flow Adjustment Control** — The lever located on the handle opens the water valve. This control has three adjustment settings: low, medium and high water flow. In addition, a water filter is provided to prevent foreign matter from clogging the spray bar holes. Clean this filter as detailed in the maintenance section of this manual.
6. **Vibration Control Lever** — Move this lever to the **ON** position and the eccentric will produce a vibration frequency of 4,200 vpm (vibrations per minute). Move the lever to the **OFF** position to stop the vibrations.
7. **Multi-Position Handle Bar** — This bar can be set to three different positions: stow, middle and low. When transporting the roller, always have the handle bar in the upright (stow) position.
8. **Documentation Canister** — Storage for documentation and other information regarding the roller.
9. **Handle Bar Release Pin** — Remove this pin to position the handle bar to the desired position. Make sure to reinsert release pin and cotter pin after each new position.
10. **Hour/Tachometer** — Indicates the number hours the unit has been in use when engine is off and RPM when engine is running.
11. **Water Tank Filler Port** — Remove this tethered cap to determine the amount of water in the water tank. If low, add clean water through this port. This water tank is made of plastic to prevent rust, and holds 7 gallons (26.5 liters) of water.

12. **Lifting Hook Eye** — Attach a crane or lifting device to this lifting hook eye. The lifting device should have a lifting capacity of 1,168 lbs. (530 kg.)
13. **Transport Hooks** — These hooks are used in the transportation of the roller (Figure 6). The hooks allow the roller to hang over the tailgate of a dump truck.

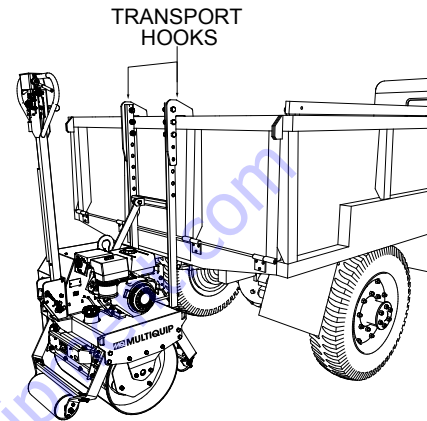


Figure 6. Transport Hooks

14. **Fuel Filler Port** — Remove this cap to determine the amount of fuel in the fuel tank. If low, add fuel through this port.
15. **Engine** — This roller uses a Honda GX340 engine. For additional engine information, read the engine Owner's Manual supplied with the roller.
16. **Front Stabilizer Roller** — This roller aids the roller in maintaining stability (prevents tipping) and simplifies handling when maneuvering the roller.
17. **Main Vibratory Roller** — This roller is a 29-inch wide steel drum with beveled edges. The beveled edges help prevent asphalt marring. The maintenance-free exciter reduces service time.
18. **Zerk Fittings** — Lube and grease these fittings as recommended in the maintenance section of this manual.
19. **Rear Stabilizer Roller** — This roller aids the roller in maintaining stability (prevents tipping) and simplifies handling when maneuvering the roller.
20. **Scraper Blades** — The neoprene rubber blades help prevent the buildup of material between the drum and frame. The blades are spring-loaded for easy replacement.

ROLLER COMPONENTS CONT'D.

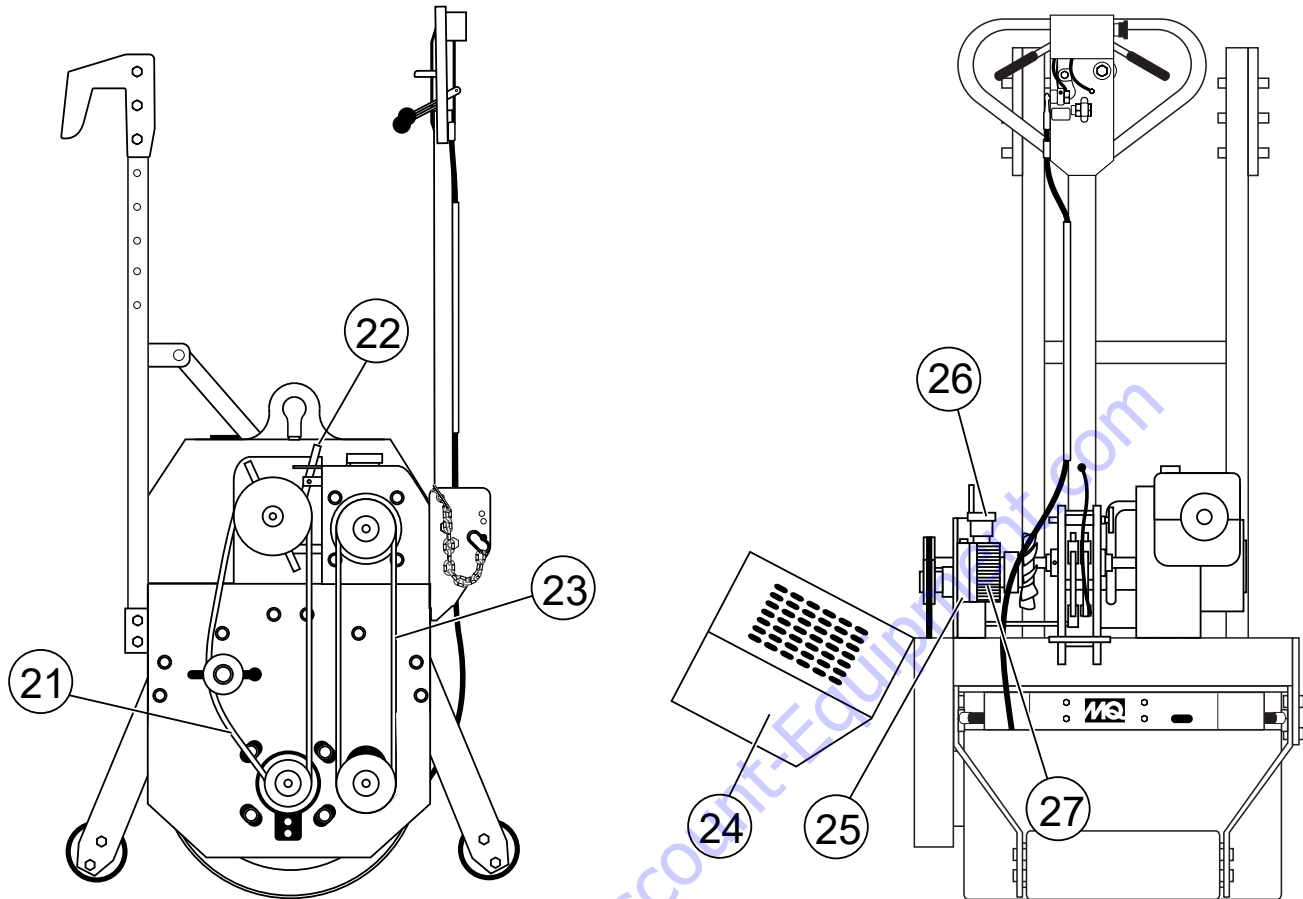


Figure 7. V305EH Roller Components Continued

Figure 7 shows the location of additional components for the V305EH compaction roller. The function of each component or control is described below:

21. **Vibration Drive V-Belt** — This belt is required to make the roller vibrate. Check this V-belt as outlined in the maintenance section of this manual.
22. **Free Wheel Engagement Lever** — Under normal conditions, this lever should be placed in the **forward** position (engaged).

In the event the roller becomes disabled (will not start) and must be moved, place the lever in the side position (disengaged). This will allow the roller drum to rotate (free wheel).

IMPORTANT: This lever is only to be used in cases where the roller has been disabled. In normal operating conditions, this lever should be left in the engaged position (forward).

23. **Travel Drive V-Belt** — This belt is required to make the roller travel in a forward or reverse direction. Check this V-belt as outlined in the maintenance section of this manual.
24. **Compartment Hood** — Open this hood (tool-free) to gain access to the V-belts, hydrostatic pump, coupling components, freewheel engagement lever, etc.
25. **Hydrostatic Pump** — Provides hydraulic pressure to the drive system.
26. **Hydrostatic Fluid Reservoir** — Fill this reservoir with hydrostatic transmission fluid. Fill with ExxonMobil Nuto 46 or equivalent.
27. **Cogged-Drive Belt** — This belt is used with the hydraulic pump. Check this cogged drive belt as outlined in the maintenance section of this manual.

ENGINE COMPONENTS

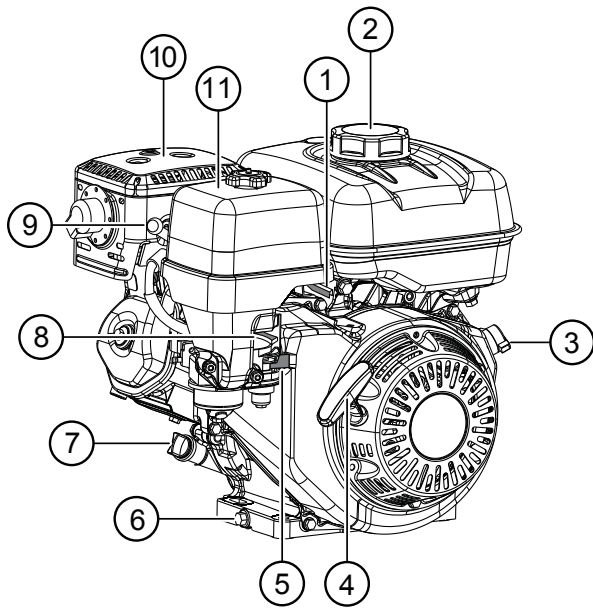


Figure 8. Engine Components

INITIAL SERVICING

The engine (Figure 8) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for detailed operation and service instructions.

1. **Throttle Lever** — Adjusts engine RPM speed.
2. **Fuel Filler Cap/Fuel Tank** — Remove this cap to add unleaded gasoline to the fuel tank. Refer to Table 2 for fuel tank capacity. Make sure the cap is tightened securely. **DO NOT** overfill

DANGER



Add fuel to the tank **only** when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until all fuel residue has been completely wiped up and the area surrounding the engine is dry.

3. **Engine ON/OFF Switch** — **ON** position permits engine starting. **OFF** position stops engine operation.
4. **Recoil Starter** — Manual starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly to start the engine.
5. **Fuel Valve Lever** — Open to allow fuel to flow. Close to prevent fuel flow.
6. **Oil Drain Bolt** — Remove this bolt to drain oil from the engine crankcase.
7. **Oil Filler Cap/Dipstick** — Remove this cap to determine if engine oil is low. Add oil through this filler port as recommended in Table 2.
8. **Choke Lever** — Used in cold weather conditions or for the starting of a cold engine. The choke enriches the fuel mixture.
9. **Spark Plug** — Provides spark to the ignition system. Set the spark plug gap according to the engine manufacturer's instructions. Clean the spark plug once a week.
10. **Muffler** — Reduces noise and emissions. **NEVER** touch the muffler while it is **hot!**

WARNING



Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.

11. **Air Cleaner** — Prevents dirt and other debris from entering the fuel system. Remove the wing nut on top of the air cleaner cover to gain access to the filter elements.

NOTICE

Operating the engine without an air cleaner, with a damaged air cleaner, or with an air cleaner in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

BEFORE STARTING

1. Read safety information at the beginning of manual.
2. Remove dirt and dust particularly in the engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one.
4. Check carburetor for external dirt and dust. Clean with dry compressed air.
5. Check fastening nuts and bolts for tightness.
6. Understand the geographical features and regulations of the job site.

ENGINE OIL CHECK

1. To check the engine oil level, place the machine on secure level ground with the engine stopped.
2. Remove the filler dipstick from the engine oil filler hole (Figure 9) and wipe clean.

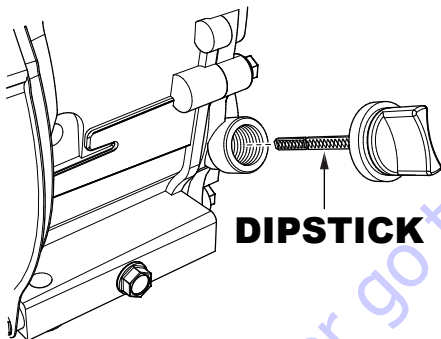


Figure 9. Engine Oil Dipstick

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick (Figure 10).
4. If the oil level is low, fill to the edge of the oil filler hole with the recommended oil type (Table 4). Maximum oil capacity is 1.16 quarts (1.1 liters).

Season	Temperature	Oil Type
Summer	25°C or Higher	SAE 10W-30
Spring/Fall	25°C~10°C	SAE 10W-30/20
Winter	0°C or Lower	SAE 10W-10

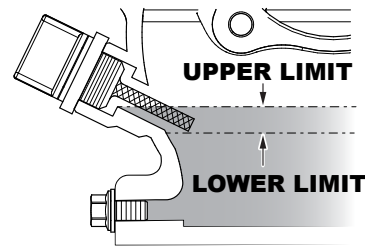


Figure 10. Engine Oil Level

NOTICE

The V305EH roller has an Oil Alert System. This system will automatically stop the in the event of low oil level. **ALWAYS** be sure to check the engine oil level prior to starting the engine.

FUEL CHECK

DANGER



Motor fuel is highly flammable and can be dangerous if mishandled. **DO NOT** smoke while refueling. **DO NOT** attempt to refuel the pump if the engine is **hot or running**.

1. Remove the fuel cap of the filler port located on top of the engine fuel tank (Figure 11).

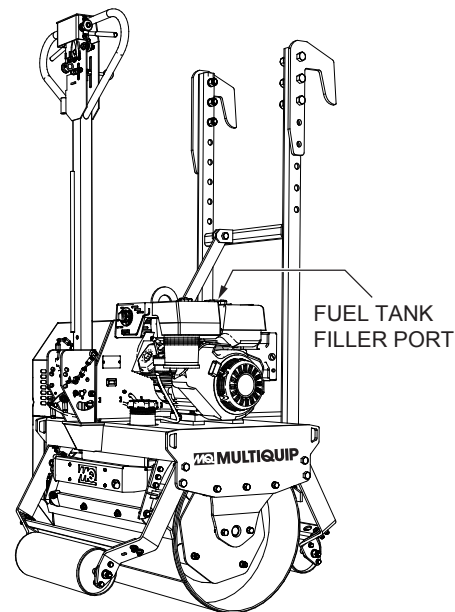


Figure 11. Fuel Tank Filler Port

2. Visually inspect to see if the fuel level is low. If fuel is low, replenish with unleaded gasoline using a strainer

for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel immediately!

WATER TANK CHECK

1. Check the water tank to see if filled. Add water if necessary. See Figure 12.

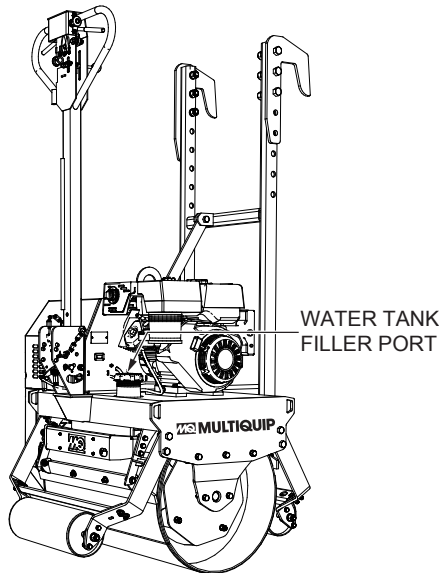


Figure 12. Checking Water Tank

2. Verify that valve for the water tank is **closed** (handle control).

HYDRAULIC SYSTEM CHECK

1. Visually inspect the hydraulic fluid in the hydraulic reservoir (Figure 13). If the hydraulic fluid is low, fill the reservoir with ExxonMobil Nuto 46 or equivalent. The correct hydraulic fluid level will be indicated on the reservoir.

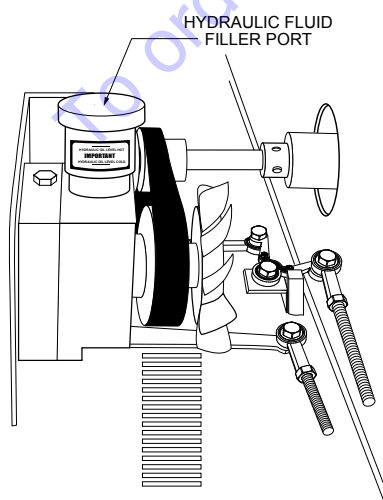


Figure 13. Hydraulic Reservoir Filler Port

V-BELT CHECK

! DANGER



ALWAYS keep hands and fingers away from pinch points. **DO NOT** allow anyone to reach in on dangerous sections of the machine to avoid any accidents.

1. Check the tension of the vibratory and travel V-belts (Figure 14). This tension can be checked by the amount of deflection when the belt is pressed midway between the two pulleys. The deflection of the travel belt should be approximately 3/4 of an inch (2 cm). The vibratory V-belt should have a deflection of approximately 2 to 2-3/4 inches (5 to 7 cm).

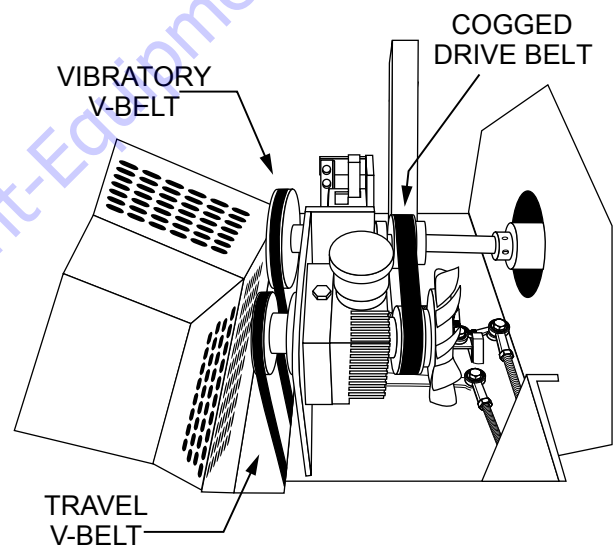


Figure 14. Checking V-Belts

2. Check the tension of the cogged V-belt (hydrostatic pump). This tension can be checked by the amount of deflection when the belt is pressed midway between the two pulleys. The deflection of the travel belt should be approximately 1/2 of an inch (1.27 cm).

GEARBOX LUBRICATION

1. Remove the oil fill drain plug on the gearbox (Figure 15). If the oil level is **correct**, oil will begin to leak out. Retighten drain plug.

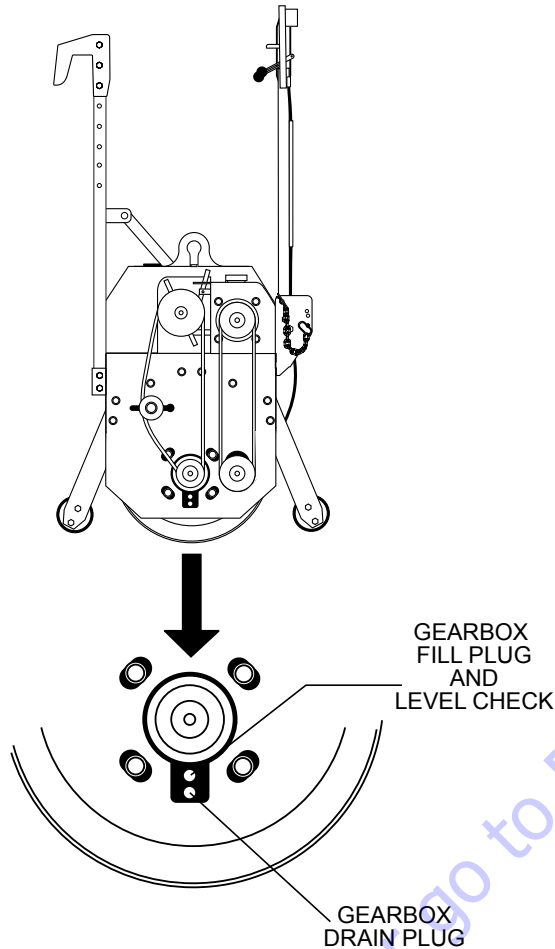


Figure 15. Gearbox Fill and Drain Plugs

2. If the level of the oil in the gearbox is **low**, no oil will leak out when the drain plug is removed. Add gearbox oil, type SAE 90, through this drain opening. Fill until oil begins to leak out from the drain opening. Retighten drain plug. It is recommended that oil be changed every 300 hours of operation.

HANDLE BAR ADJUSTMENT

1. Adjustment of the handle bar is made by removing the handle bar **hitch pin**, then pulling the release pin.
2. Once released pin has been removed, position handle bar to desired height (Figure 16 and Figure 17).
3. Insert release pin and lock with hitch pin.

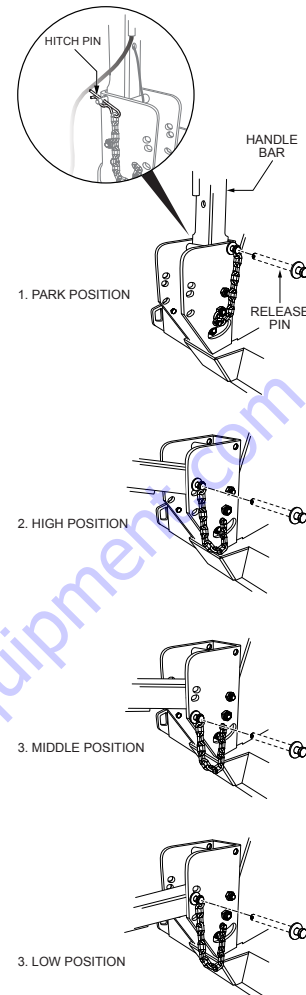


Figure 16. Handle Positions 1

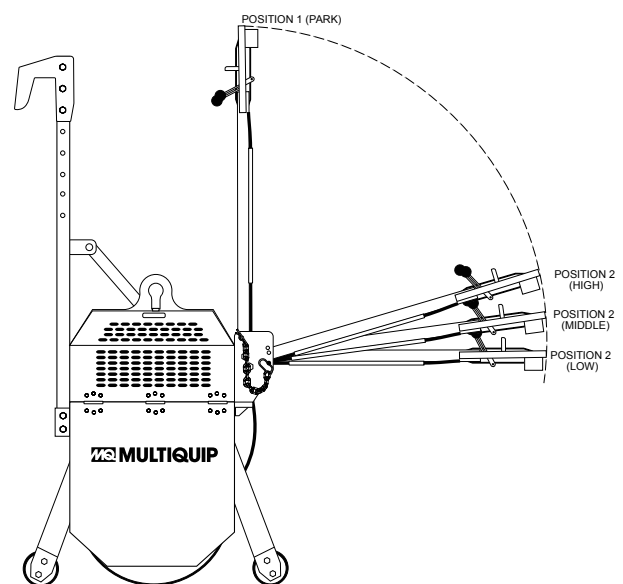


Figure 17. Handle Positions 2

OPERATION

This section is intended to assist the operator with the initial startup of the unit. It is extremely important that this section be read carefully before using the roller in the field. **DO NOT** use your roller until this section is thoroughly understood.

WARNING

Failure to understand the operation of the roller could result in severe damage to the unit or personal injury.

CAUTION



NEVER operate the roller in a confined area or enclosed area structure that does not provide ample free flow of air.

1. **ALWAYS** make sure that the emergency stop button (Figure 18) is pulled all the way out (disengage).

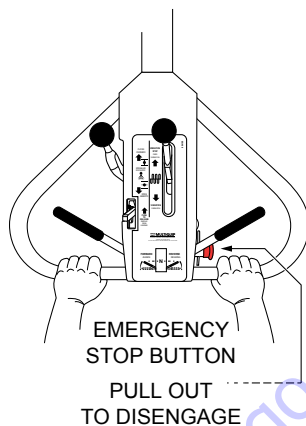


Figure 18. Emergency Stop Button

2. Move the fuel lever (Figure 19) to the ON position.

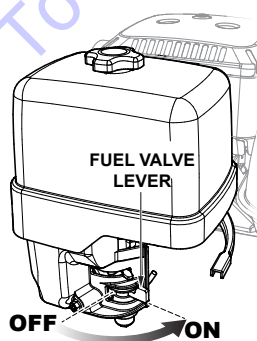


Figure 19. Fuel Lever

3. Place the **Engine ON/OFF switch** (Figure 20) in the "ON" position.

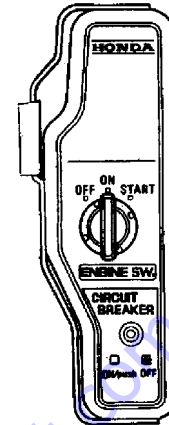


Figure 20. Engine ON/OFF Switch

4. To start a cold engine, move the choke lever (Figure 21) to the **CLOSED** position.

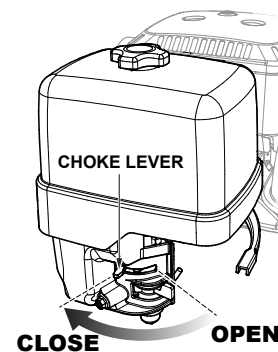


Figure 21. Choke Lever

NOTICE

The **CLOSED** position of the choke lever enriches the fuel mixture for starting a **COLD** engine. The **OPEN** position provides the correct fuel mixture for normal operation after starting and for restarting a warm engine.

5. Move the throttle lever (Figure 22) away from the slow position, about 1/3 of the way toward the fast position.

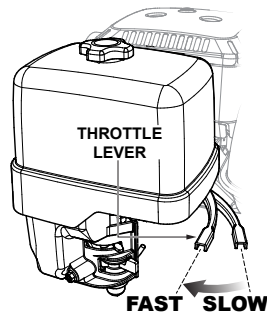


Figure 22. Throttle Lever

6. Turn the **Engine ON/OFF switch** on the engine to the **START** position (Figure 23). Release the key when engine starts and key will return to the **ON** position.

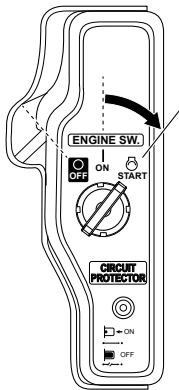


Figure 23. Engine ON/OFF Switch (START)

NOTICE

DO NOT keep the ignition switch in the **START** position for more than 5 seconds.

7. If the engine has started, allow switch to return to **ON** position, then slowly return the choke lever (Figure 22) to the **OPEN** position. If the engine has not started, repeat steps 1 through 6.
8. Before the roller is placed into operation, run the engine for several minutes. Check for fuel leaks and noises associated with a loose guard or covers.
9. All rolling is done at full throttle. Your engine governor has been set at the factory to ensure an optimum speed setting.

FREE WHEEL ENGAGEMENT LEVER

Before the roller can be put into operation, check and make sure that the **free wheel engagement lever** (Figure 24) is in the engaged position (forward). Lift the compartment hood to gain access to this lever.

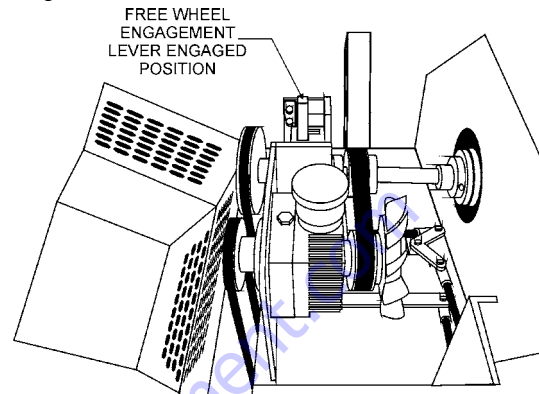


Figure 24. Freewheel Engagement Lever

WATER SPRINKLER SYSTEM

If the water sprinkler is going to be used for a roll of asphalt paving, fill the water tank with clean water.

1. Push the water shut-off release control to the release position (Figure 25).
2. Move the water flow adjustment control to the **OPEN** position.
3. The water flow adjustment control has three adjustments. Move control to set to low, medium or high water flow.
4. Return the water shut-off release control to the **CLOSE** position when water is not required.

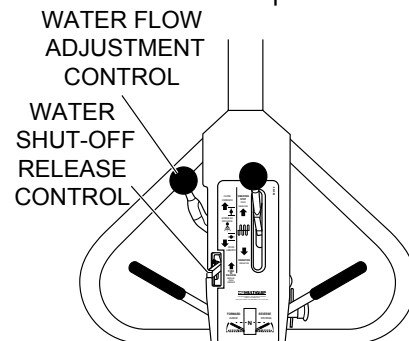


Figure 25. Water Flow Adjustment

TRAVEL LEVERS

1. With the engine running, both forward and reverse travel levers (Figure 26) should be in their neutral positions.

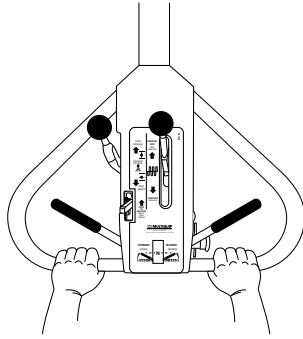


Figure 26. Travel Levers (Neutral Position)

2. Squeeze the **left** travel lever (Figure 27) to move roller in a **forward direction**. Squeezing the lever all the way towards the operator will achieve maximum speed. Use a smooth squeezing action on the drive control lever to prevent abrupt takeoffs.

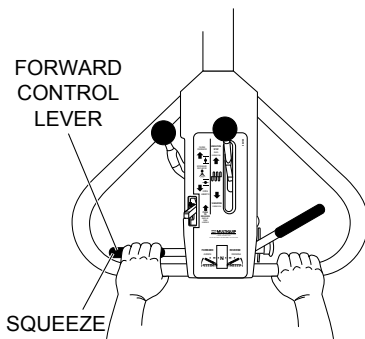


Figure 27. Forward Travel Lever

3. Squeeze the **right** travel lever (Figure 28) to move the roller in a **reverse direction**. Use a smooth squeezing action on the drive control lever to prevent abrupt takeoffs.

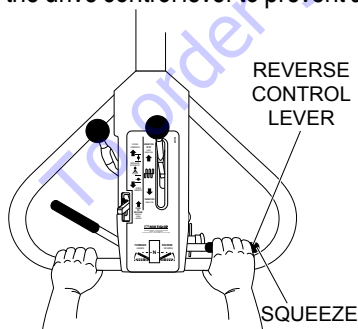


Figure 28. Reverse Travel Lever

VIBRATORY CONTROL

1. For vibratory action with the engine running (full speed), place the vibratory control lever (Figure 29) to the **ON** position. The roller will now produce a vibratory frequency of 4,400 vps.

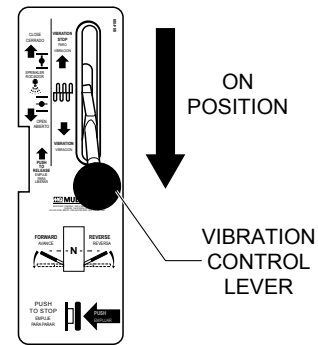


Figure 29. Vibratory Control Lever (ON)

SHUTDOWN

1. Place the vibratory control lever (Figure 30) on the roller to the **OFF** position (vibration stops).

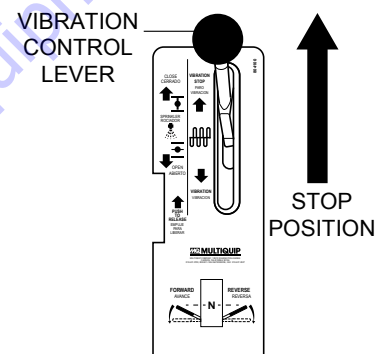


Figure 30. Vibratory Control Lever (OFF)

2. Place the water valve in the **CLOSED** position (if used).
3. Place the **engine throttle lever** in the **slow** position, and let the engine idle for 3-5 minutes.
4. Place the **engine ON/OFF switch** in the **OFF** position and remove the key. Place the key in a safe place.

TRANSPORTING

1. Always make sure that the machine is shut off while being transported.
2. Check that the fuel cap is properly closed and tightened.
3. When traveling long distances or on rugged terrain, drain the fuel of the machine before transporting.
4. Tie down the machine securely on the transportation so that it will not move or topple over.

CAUTION

Inspection and other services should always be carried out on hard and level ground with the engine shutdown.

INSPECTION AND MAINTENANCE SERVICE TABLES

To make sure your vibratory roller is always in good working condition before using, carry out the maintenance inspection procedures.

Table 5. Machine Inspection

ITEM	HOURS OF OPERATION
Loose or Missing Screws	Every 8 hours (every day)
Damaged Parts	Every 8 hours (every day)
Function of Controlling System Part	Every 8 hours (every day)
Eaton Hydrostatic Transmission	Every 100 hours
Vibrator Oil Check	Every 50 hours
V-belt (clutch) Check	Every 200 hours

NOTICE

These inspection intervals are for operation under normal conditions. Adjust your inspection intervals based on the number of hours the roller is in use and your particular working conditions.

Table 6. Engine Check

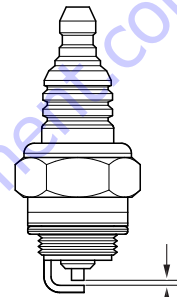
ITEM	HOURS OF OPERATION
Oil or Fuel Leak	Every 8 hours (every day)
Tightness of Fastening Threads	Every 8 hours (every day)
Engine Oil Check and Replenishment	Every 8 hours (every day) (Replenish to specified maximum level)
Engine Oil Replacement	After first 25 hours then every 50 to 100 hours
Air Filter Cleaning	Every 50 hours

DAILY SERVICE

1. Check for leakage of fuel or oil.
2. Check for loose screws and tighten to the proper torque:

SPARK PLUG

1. Remove and clean the spark plug (Figure 31).
2. Adjust the spark gap to 0.028 ~0.031 inch (0.7~0.8 mm). This unit has electronic ignition, which requires no adjustments.



GAP: 0.028 – 0.031 in.
(0.7 – 0.8 mm)

Figure 31. Spark Plug Gap

ENGINE OIL

1. Drain the engine oil when the oil is warm as shown in Figure 32.
2. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
3. Replace engine oil with recommended type oil as listed in Table 4. Engine oil capacity is 1.16 quarts (1.1 liters). **DO NOT** overfill.
4. Install drain bolt with sealing washer and tighten securely.

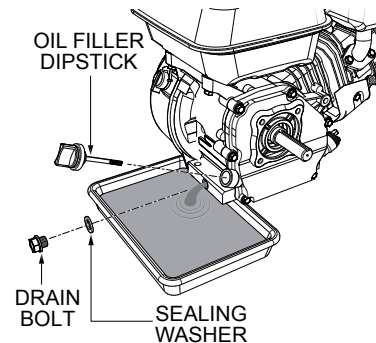


Figure 32. Engine Oil (Draining)

ENGINE AIR CLEANER

1. Remove the air cleaner cover and foam filter element as shown in Figure 33.
2. Tap the paper filter element (Figure 33) several times on a hard surface to remove dirt or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm²)] through the filter element from the air cleaner case side. **NEVER** brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.
3. Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.

DANGER

DO NOT use gasoline as a cleaning solvent to avoid creating the risk of fire or an explosion.

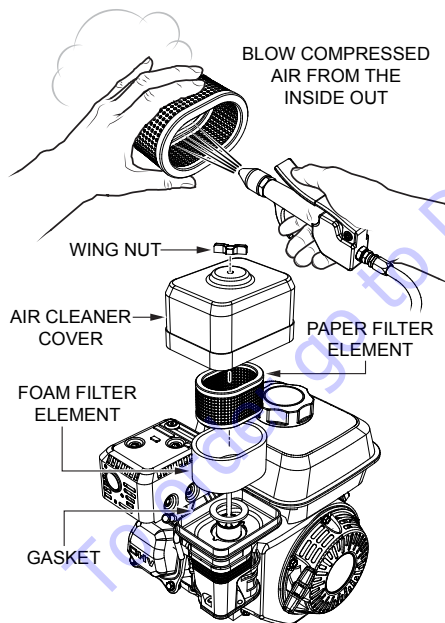


Figure 33. Engine Air Cleaner

MACHINE MAINTENANCE

1. At the end of each day's operation, wash down dust and dirt off the machine. Clean area around drums and scrapers making sure all mud is removed.
2. Drain water tank completely.
3. Cover the machine to prevent dust and store in dry place away from sun exposure.
4. Remove soil and clean the bottom of roller.
5. Check hydraulic pump, piping and hose for any leakage. A loosened hydraulic hose can be a cause for leakage.
6. Check hydraulic hose connections with wrench applied for tightness.
7. Check engine oil.

BATTERY MAINTENANCE

NOTICE

Read and understand the battery safety information in the front of this manual before performing maintenance on the battery.

1. Use a flashlight to check battery electrolyte level. Always check that the engine is stopped.
2. If a battery has not been used for some time, reduce the charge level initially to protect each plate inside the battery.
3. Check the battery terminals periodically to ensure that they are in good condition.
4. Use wire brush or sand paper to clean the battery terminals.
5. Check battery for cracks or any other damage. If white pattern appears inside the battery or paste has accumulated at the bottom, replace the battery.
6. Measure the specific gravity of electrolyte:
 - completely charged: 1.270 - 1.290
 - needs charging: 1.260 or lower
- If the machine will not be in operation for a long period of time, charge the battery sufficiently, tighten all caps

VIBRATING SHAFT BEARINGS

The system is maintenance-free and does not require lubrication.

HYDROSTATIC TRANSMISSION FLUID (50 HRS)

Inspect the fluid level in the hydraulic fluid reservoir every 50 hours of operation. If low, fill with ExxonMobil Nuto 46 or equivalent.

VIBRATOR CLUTCH ASSEMBLY (50 HRS)

The clutch must be greased every 50 hours of operation (1 shot). Stop the engine with clutch engaged to check V-belt tension.

ENGINE AND VIBRATORY SHAFT SPEED CHECK (100 HRS)

To check the engine and vibratory shaft speed, the use of an "Vibra-Tak" tool will be required.

To check engine speed, place the bottom of the Vibra-Tak tool (knurled cap) on the engine shroud. Move sliding sleeve to a position where the maximum throw of wire reed is obtained. Take a reading from edge of sleeve and multiply reading by 1000. The result is the RPM the engine is running at.

If the engine RPM speed is too fast or slow, consult the engine owner's manual on how to adjust the engine speed.

To check the vibrations per minute (vpm) of the roller shaft, place the bottom of the Vibra-Tak tool (knurled cap) on the roller drum while the vibrating clutch is engaged. Adjust and read tool as mentioned above. The **vibratory shaft speed** should be 4200 vpm.

AXLE PILLOW BLOCK BEARING (75 HRS)

Lubricate the axle pillow block bearing every 75 hours with 2 shots of EP-3 grease or equivalent.

STABILIZER ROLLS (75 HRS)

Lubricate the stabilizer rolls in 4 places every 75 hours with 2 shots each of EP-3 grease or equivalent.

SCRAPER BLADES (DAILY)

The scraper blades should be cleaned daily after each use to prevent the build-up of dirt, mud, tar and any other

foreign matter associated with pavement rolling. Use a high pressure water jet (500-1000 psi) and a strong brush to clean the scraper blades.

ROLLER (DAILY)

Clean the roller daily after each use. If using a pressurized hose, keep the pressure between 500 and 1000 psi. Avoid using harsh chemicals, mild detergent soap will do. Avoid direct high water pressure to the engine, hoses and decals.

WATER TANK (30 DAYS)

Drain and flush the water tank and spray bars every 30 days. When refilling the water tank, use only clean water.

ADJUSTING OR CHANGING TRAVEL V-BELT

1. Unlock the hood retaining latch and lift the hood to gain access to the V-belts. To adjust the **travel** V-belt, loosen the four mounting screws on the reduction gearbox (Figure 34).

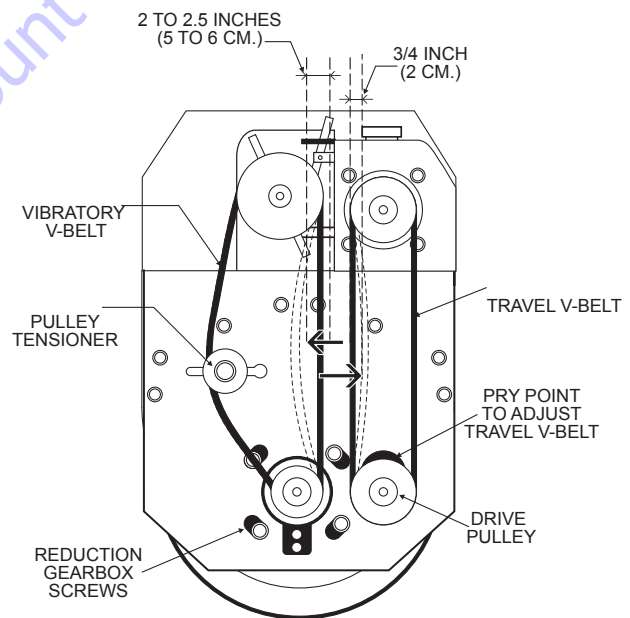


Figure 34. Travel and Vibratory Belts

2. Use the pry point (Figure 34) to achieve correct amount of V-belt tension. Tighten gearbox screws and check belt tension by verifying the amount of deflection when the belt is pressed midway between the two pulleys. This deflection should be approximately 3/4 of an inch (2 cm.).

ADJUSTING OR CHANGING VIBRATORY V-BELT

1. To adjust the vibratory V-belt, loosen the pulley tensioner nut (Figure 34) and adjust the V-belt for approximately 2 to 2 ½ inches (5 to 6 cm.) of deflection.
2. Check V-belt deflection when V-belt is pressed midway between the two pulleys.
3. When the correct amount V-belt deflection has been achieved, retighten pulley tensioner nut.

NOTICE

IMPORTANT! Always adjust the vibratory V-belt to the recommended belt tension.

A tight V-belt will cause the roller to vibrate even if the vibration control lever is in the off position.

A loose V-belt will decrease the vibratory action or there may not be any vibratory action at all.

ADJUSTING OR CHANGING HYDROSTATIC PUMP DRIVE BELT

1. To change or adjust the cogged drive belt (Figure 35) for the hydrostatic pump, loosen the four mounting bolts on the hydrostatic pump.

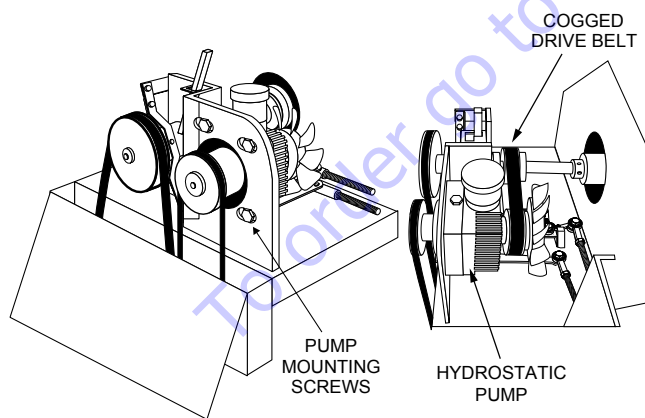


Figure 35. Hydrostatic Pump Drive Belt

CAUTION

Use **caution** when adjusting control rods, since engine is running.

2. Move the pump unit towards the rear of the roller and adjust the cogged belt for approximately 1/2 inch (1.27 cm) deflection when the belt is pressed midway between the two pulleys.
3. When the correct amount of belt deflection has been achieved, retighten hydrostatic pump mounting screws.

ADJUSTING TRAVEL CONTROL ROD

1. To adjust the travel control rod (controls forward, reverse and neutral), it will be necessary to start the engine and run it at **low** speed.
2. On the travel control rod, loosen the counter nut on the rod end.
3. Remove retaining screw as shown in Figure 36, then rotate the rod end to acquire desired length.

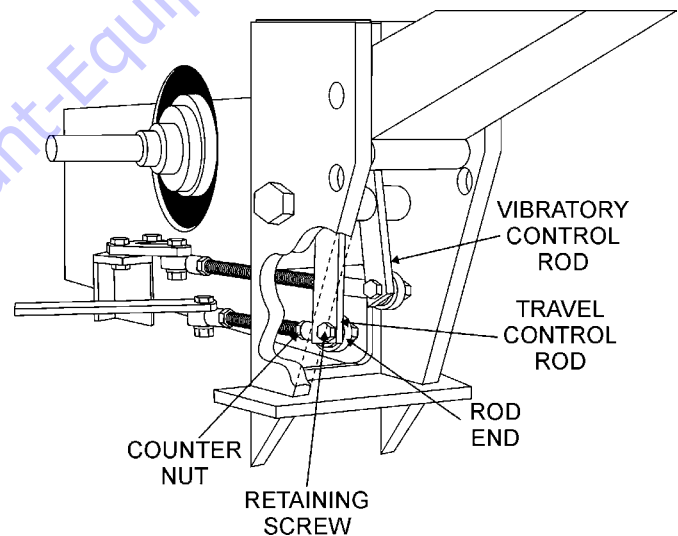


Figure 36. Travel Control Rod

4. Adjust travel rod so that its static position (no force applied on drive control) falls into the neutral position. The roller should not move once adjustment is complete.
5. Retighten all hardware.

ADJUSTING VIBRATORY CONTROL ROD

1. To adjust the vibratory control rod (controls vibration), loosen the counter nut on the rod end of the vibratory control rod.
2. Remove the retaining screw on the rod end and rotate the rod to achieve the desired rod length.
3. Continue adjusting, until clutch operation is adequate. The V-belt for the vibratory action should not move when the control lever is in the **OFF** position. Once adjustment is complete, retighten all hardware.

CLUTCH LUBRICATION

Lubricate the clutch as shown in Figure 37.

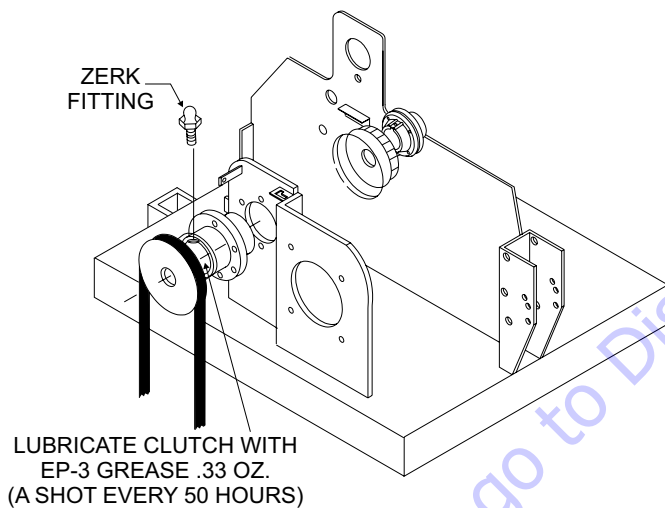


Figure 37. Lubrication Points (Zerk Fittings)

ROLLER STORAGE

For storage of the roller for over 30 days, the following is recommended:

- Drain the fuel tank completely.
- Run the engine until the fuel in the injection system is completely consumed.
- Completely drain used oil from the engine crankcase and fill with fresh clean oil, then follow the procedures described in the engine manual for engine storage.
- Drain water tank.
- Clean the entire roller and engine compartment.
- Remove battery and store it in cool dry place.
- Place roller control handle in the upright position (vertical).
- Cover the roller and place in a clean dry area, that is protected from harsh elements.
- Remove ignition key and store in a safe place.

TROUBLESHOOTING

Troubleshooting - Roller		
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Unit does not travel or travel is not smooth.	Damaged rubber coupling and flange?	Replace urethane coupling and flange.
	Defective travel cable and link?	Repair or replace travel cable and link.
	Damaged scraper or too much mud in scraper?	Replace or repair scraper.
	Low oil level?	Replenish or replace oil.
	Damaged hydraulic pump?	Replace hydraulic pump.
	Damaged drum gear reduced?	Repair.
	Bad drum bearings?	Repair or replace.
	Defective rubber shock mounts?	Replace.
	Defective travel V-belt?	Replace.
Unit does not vibrate or has weak vibration.	Defective centrifugal clutch?	Repair or replace clutch.
	Damaged or slipping V-belt?	Replace V-belt or adjust tension.
	Damaged vibration cable and linkage?	Replace or repair vibration cable and linkage.
	Defective clutch vibrator pulley V-belt?	Replace V-belt.

TROUBLESHOOTING

Troubleshooting (Engine)		
Symptom	Possible Problem	Solution
Difficult to start, fuel is available, but no spark at spark plug.	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
	Spark plug is red?	Check transistor ignition unit.
	Spark plug is bluish white?	If insufficient compression, repair or replace engine. If injected air leaking, correct leak. If carburetor jets clogged, clean carburetor.
	No spark present at tip of spark plug?	Check if transistor ignition unit is broken, and replace defective unit. Check if voltage cord cracked or broken and replace. Check if spark plug if fouled and replace.
	No oil?	Add oil as required.
	Oil pressure alarm lamp blinks upon starting? (if applicable)	Check automatic shutdown circuit, "oil sensor". (if applicable)
Difficult to start, fuel is available, and spark is present at the spark plug.	ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirty?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser.
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, fuel is available, spark is present and compression is normal.	Wrong fuel type?	Flush fuel system, replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
	Choke open?	Close choke.
Difficult to start, fuel is available, spark is present and compression is low.	Suction/exhaust valve stuck or protruded?	Reseat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and/or piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present at carburetor.	No fuel in fuel tank?	Fill with correct type of fuel.
	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock lever, replace if necessary.
	Fuel filter/lines clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

TROUBLESHOOTING

Troubleshooting (Engine) - continued		
Symptom	Possible Problem	Solution
Weak in power, compression is proper and does not misfire.	Air cleaner dirty?	Clean or replace air cleaner.
	Improper level in carburetor?	Check float adjustment, rebuild carburetor.
	Defective spark plug?	Clean or replace spark plug.
	Improper spark plug?	Set to proper gap.
Weak in power, compression is proper but misfires.	Water in fuel system?	Flush fuel system and replace with correct type of fuel.
	Dirty spark plug?	Clean or replace spark plug.
	Ignition coil defective?	Replace ignition coil.
Engine overheats	Wrong type of fuel?	Replace with correct type of fuel.
	Cooling fins dirty?	Clean cooling fins.
	Intake air restricted?	Clear intake of dirt and debris. Replace air cleaner elements as necessary.
	Oil level too low or too high?	Adjust oil to proper level.
Rotational speed fluctuates.	Governor adjusted incorrectly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunctions. (if applicable)	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.
Starter malfunctions.	Loose, damaged wiring?	Ensure tight, clean connections on battery and starter.
	Battery insufficiently charged?	Recharge or replace battery.
	Starter damaged or internally shorted?	Replace starter.
Burns too much fuel.	Over-accumulation of exhaust products?	Check and clean valves. Check muffler and replace if necessary.
	Wrong spark plug?	Replace spark plug with manufacturer's suggested type.
Exhaust color is continuously "white".	Lubricating oil is wrong viscosity?	Replace lubricating oil with correct viscosity.
	Worn rings?	Replace rings.
Exhaust color is continuously "black".	Air cleaner clogged?	Clean or replace air cleaner.
	Choke valve set to incorrect position?	Adjust choke valve to correct position.
	Carburetor defective, seal on carburetor broken?	Replace carburetor or seal.
	Poor carburetor adjustment, engine runs too rich?	Adjust carburetor.
Will not start, no power with key "ON". (if applicable)	ON/OFF device not activated ON?	Turn on ON/OFF device.
	Battery disconnected or discharged?	Check cable connections. Charge or replace battery.
	Ignition switch/wiring defective?	Replace ignition switch. Check wiring.

EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN. ...	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

Duplicate Item Numbers — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

QTY. Column

Numbers Used — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

Serial Number Break — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

Specific Model Number Use — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

“Make/Obtain Locally” — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

“Not Sold Separately” — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

SUGGESTED SPARE PARTS

V305EH WALK-BEHIND ROLLER

1 to 3 units

Qty.	P/N	Description
3.....	EM491116	V-BELT TRAVEL
3.....	EM504233	V-BELT VIBRATORY
3.....	EM491132	DRIVE BELT, COGGED PUMP
15.....	EM504441	MOUNT, SHOCK
3.....	.800806.....	LATCH
1.....	.803895.....	CLUTCH ASSY.
1.....	.42435.....	WATER TANK CAP
1.....	.800796.....	WATER FILTER

GX340UT2QAE2 GASOLINE ENGINES

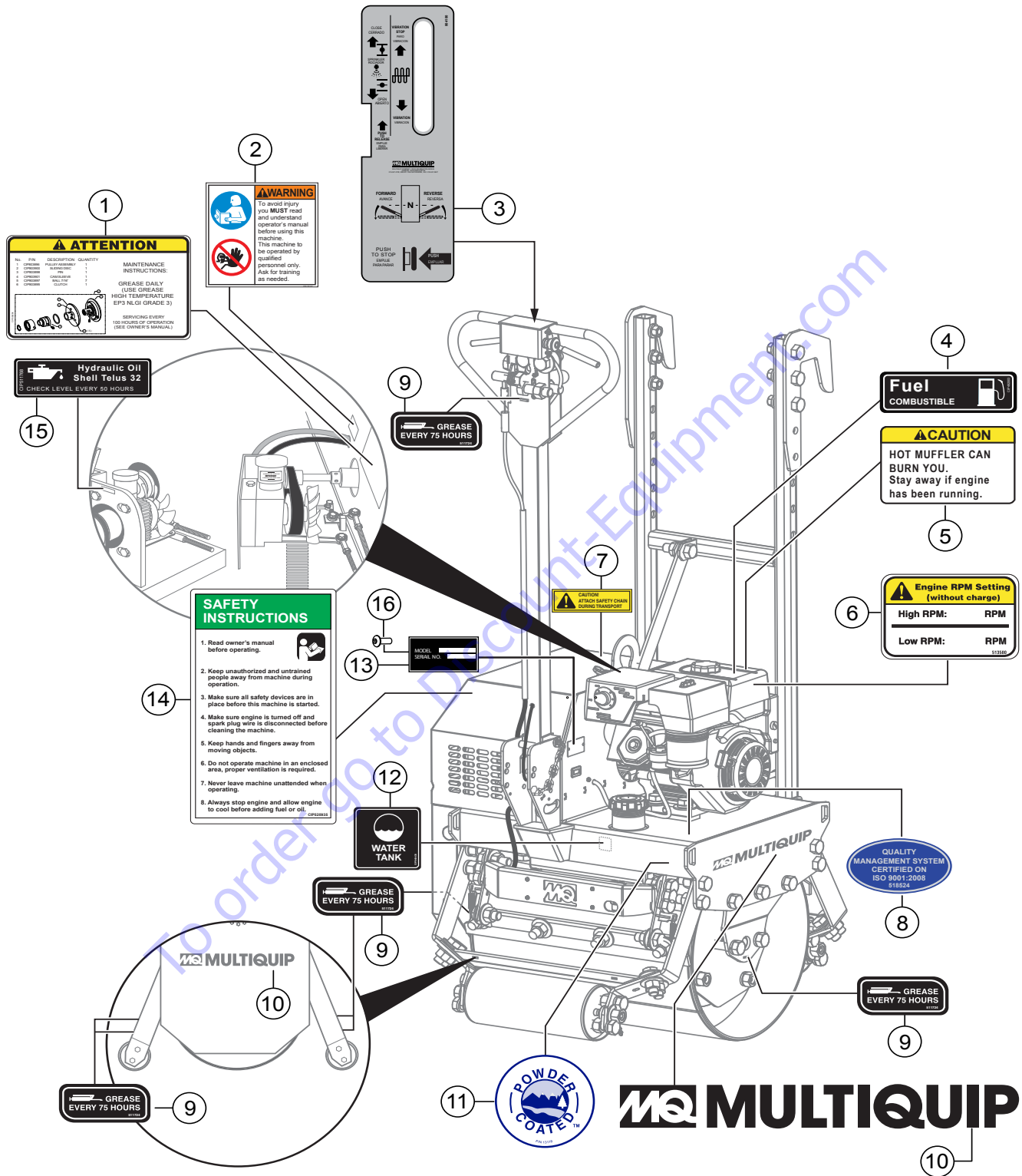
1 to 3 units

Qty.	P/N	Description
1.....	17620Z4H030.....	CAP FUEL TANK
1.....	17672Z4H000.....	FILTER FUEL
3.....	9807955846.....	SPARK PLUG
1.....	35480ZF6003.....	SWITCH ASSY., OIL ALERT
2.....	28462ZV7003.....	ROPE, RECOIL
3.....	17210ZE3010.....	ELEMENT AIR CLEANER
5.....	9820030500	FUSE, BLADE (5A)
1.....	35111880013	IGNITION KEY

NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

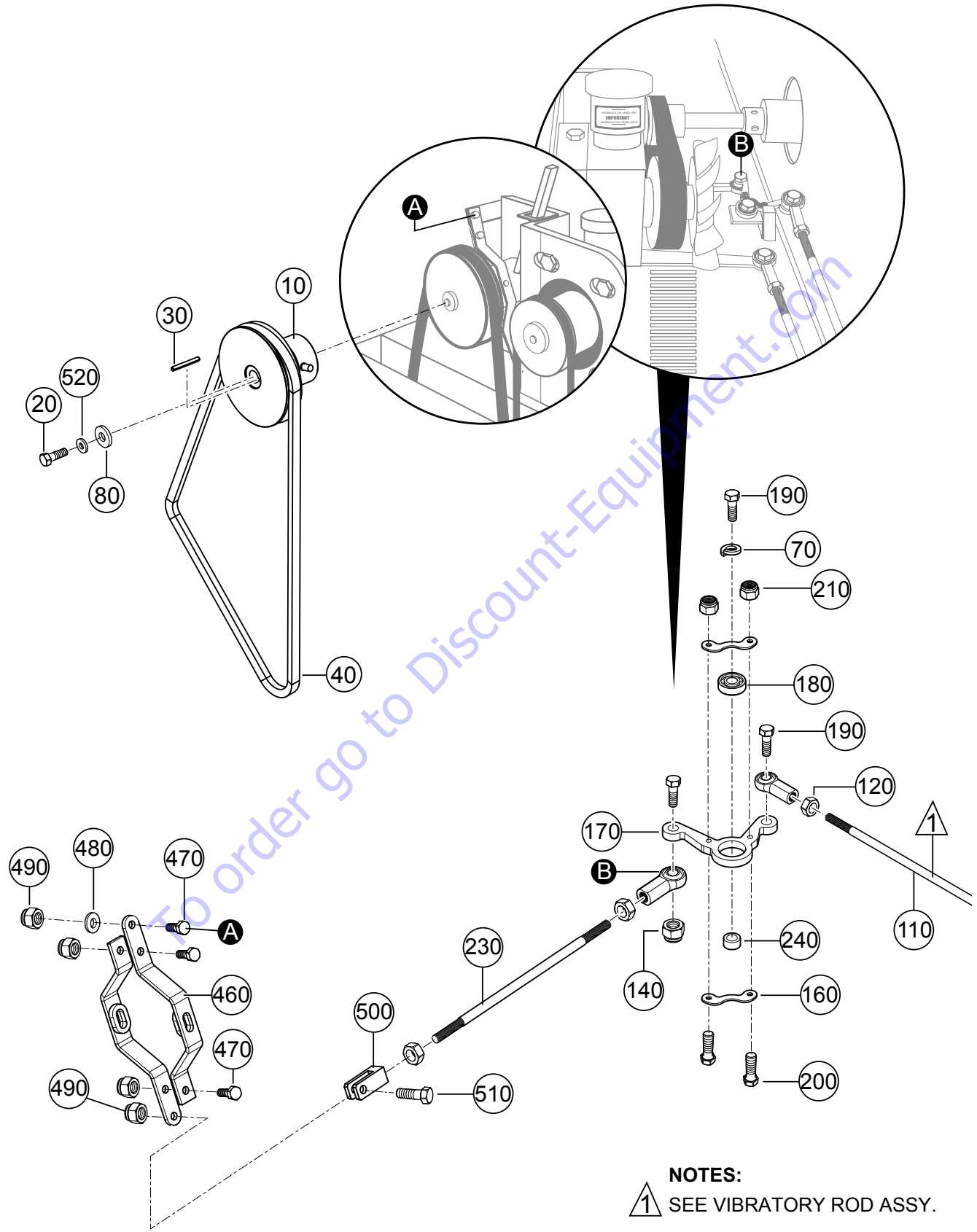
NAMEPLATE AND DECALS ASSY.



NAMEPLATE AND DECALS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	804294	DECAL: ATTENTION, GREASE DAILY	1	
2	35137	DECAL: WARNING, READ MANUAL	1	
3	804100	DECAL: CONTROL	1	
4	492003	DECAL: FUEL COMBUSTIBLE	1	
5		DECAL: CAUTION, HOT MUFFLER.....	1.....	INCLUDED W/ENGINE
6	513580	DECAL: ENGINE RPM	1	
7		DECAL: CAUTION, ATTACH SAFETY CHAIN ..	1.....	INCLUDED W/ENGINE
8	518524	DECAL: QUALITY MANAGEMENT ISO	1	
9	511724	DECAL: GREASE EVERY 75 HOURS	1	
10	510892	DECAL: MQ LOGO	2	
11	13118	DECAL: POWDER COATED	1	
12	948438	DECAL: WATER TANK	1	
13		SERIAL PLATE	1.....	CONTACT MQ PARTS DEPT.
14	520935	DECAL: SAFETY INSTRUCTIONS	1	
15	511768	DECAL: HYD. OIL CHECK EVERY 50 HRS.	1	
16	491757	RIVET	2	

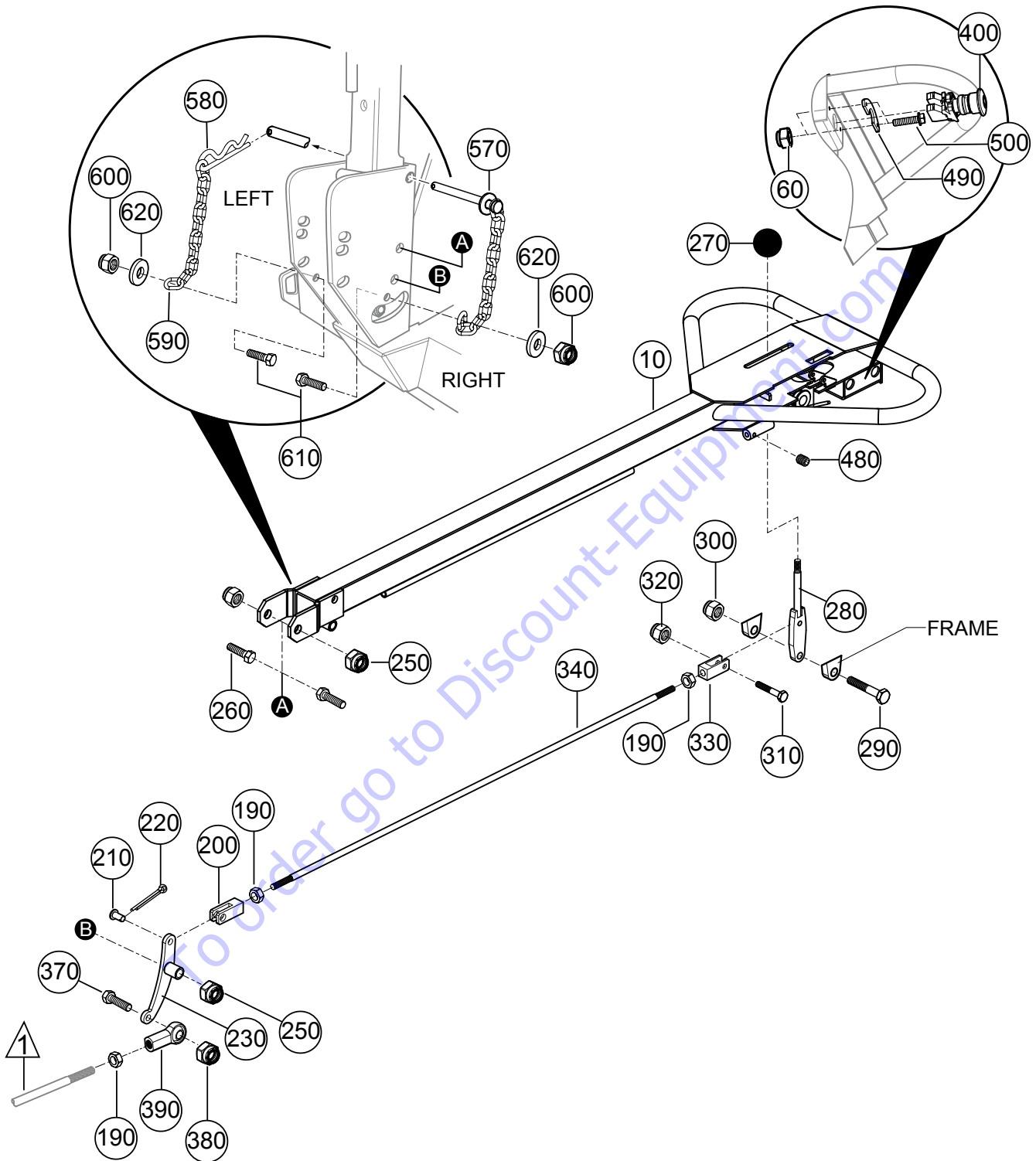
CLUTCH ROD ASSY.



CLUTCH ROD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	803895	CLUTCH ASSEMBLY	1	
20	EM963610	CAP SCREW	1	REPLACES P/N 492375
30	500169	KEY SQUARE 3/16"X2"	1	
40	EM504233	V-BELT, VIBRATORY DRIVE	1	
70	0166 A	WASHER, LOCK 3/8"	1	REPLACES P/N 492624
80	520957	WASHER, FLAT 3/8"	1	
110	800283	ROD, CLUTCH, NO. 1	1	
120	490172	NUT HEX, 3/8" G5	3	
140	EM969013	NUT NYLOC	2	REPLACES P/N 492583
160	520241	RETAINER	2	
170	519567	PIVOT BRACKET	1	
180	503738	BEARING	1	
190	EM963057	BOLT 3/8"	3	REPLACES P/N 492313
200	EM503115	SCREW	2	REPLACES P/N 503115
210	503119	NUT LOCK	2	
230	800284	ROD, CLUTCH, NO. 2	1	
240	520240	SPACER	1	
460	1066235708	SCREW GUIDE	2	REPLACES P/N 502643
470	0202	SCREW HHC 5/16X18X1	4	REPLACES P/N 492364
480	EM923023	WASHER, FLAT 5/16"	1	REPLACES P/N 492597
490	2105164	NUT NYLON 5/16-18	4	REPLACES P/N 492582
500	512067	CLEVIS, CLUTCH	1	
510	492303	BOLT 5/16" NC X 1-1/4"	1	REPLACES P/N 492365
520	3019092	WASHER 3/8"	1	REPLACES P/N 508346

VIBRATORY ROD ASSY.

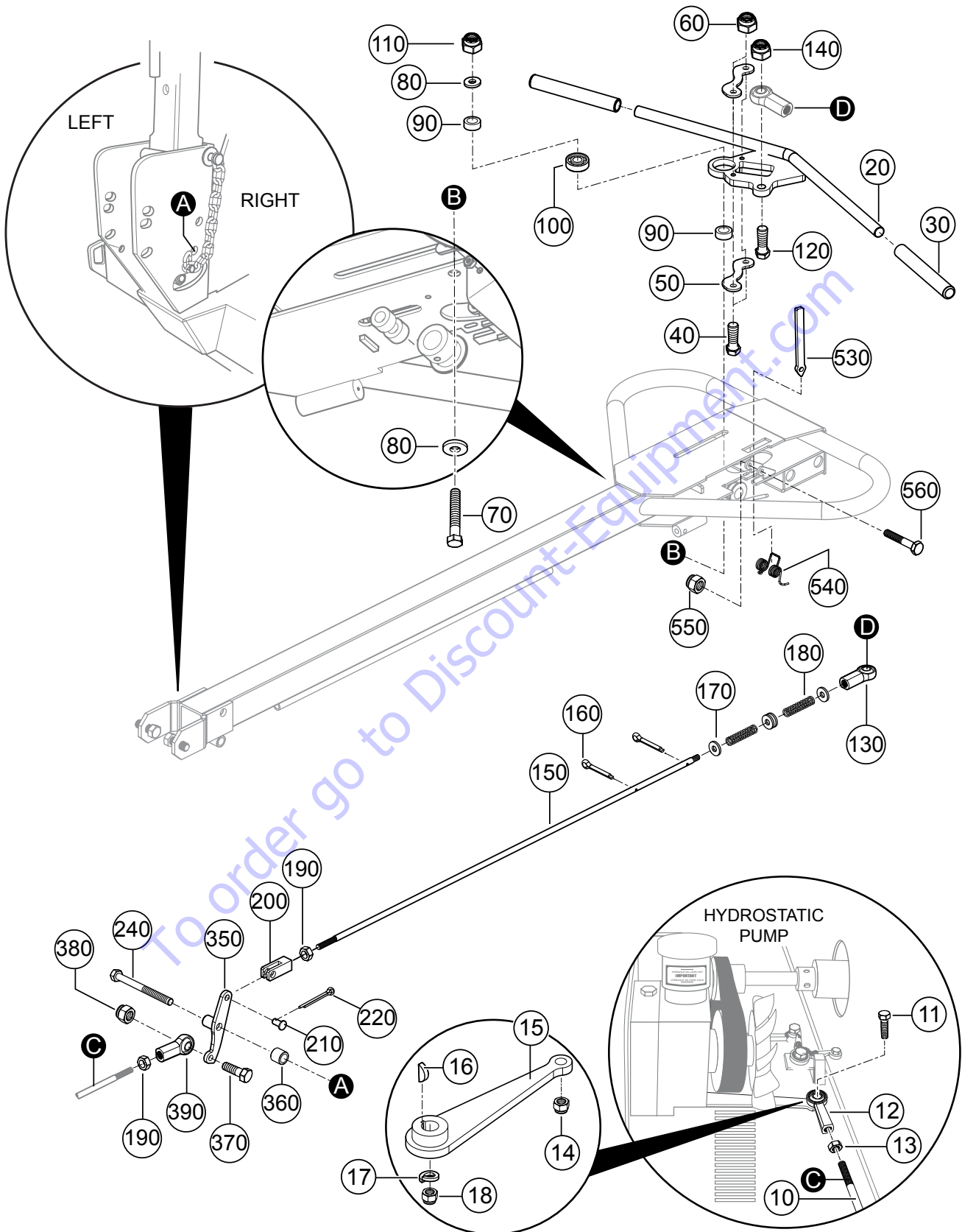


NOTES:
1 SEE CLUTCH ROD ASSY.

VIBRATORY ROD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	804124	HANDLE BAR	1	
60	503119	NUT, LOCK	4	
190	EM490172	NUT, HEX 3/8"	5	
200	511875	FORK LONG GALVANIZED CONTROL	2	
210	511898C	GALVANIZED FORK PIN	2	
220	509157	COTTER PIN	2	
230	520243	BRACKET, LEFT SIDE	1	
250	492584	LOCK NUT 1/2" G5	3	
260	EM963102	BOLT 1/2"X1-1/4" G5.....	2.....	REPLACES P/N 492393
270	491019C	PLASTIC KNOB, BLACK	1	
280	505279	LEVER, VIBRATION	1	
290	492379	SCREW, CAP 3/8"X2" G5	1	
300	EM969013	NUT, NYLOK 3/8" G8.....	1.....	REPLACES P/N 492583
310	EM492358	BOLT 1/4" NC X 1-1/4" G5.....	1.....	REPLACES P/N 492358
320	492581	NUT, NYLON LOCKNUT 1/4"-20 G8	1	
330	511874	FORK SHORT GALVANIZED CONTROL	1	
340	804134	ROD, VIBRATION	1	
370	EM963610	BOLT 3/8".....	2.....	REPLACES P/N 492376
380	EM969013	NUT, NYLOC 3/8" NC G8	2.....	REPLACES P/N 492583
390	EM959080	ROD, END.....	2.....	REPLACES P/N 959080
400	519795	RED PUSH BUTTON, CONTACT	1	
480	492467	SCREW, ALLEN 5/16"X3/8"	1	
490	521090	FLANGE BRACKET PUSH BUTTON	1	
500	503118	BOLT 3/16"X1" G2	2	
570	804253G	LOCK PIN	1	
580	925191	PIN HAIR 3/16"	1	
590	801594	CHAIN, LINK 3/16"X0.25M	1	
600	492581	NUT, NYLON LOCKNUT 1/4"-20 G8	2	
610	492357	BOLT 1/4"X1" G5	2	
620	509161	WASHER, FLAT 5/16"	2	

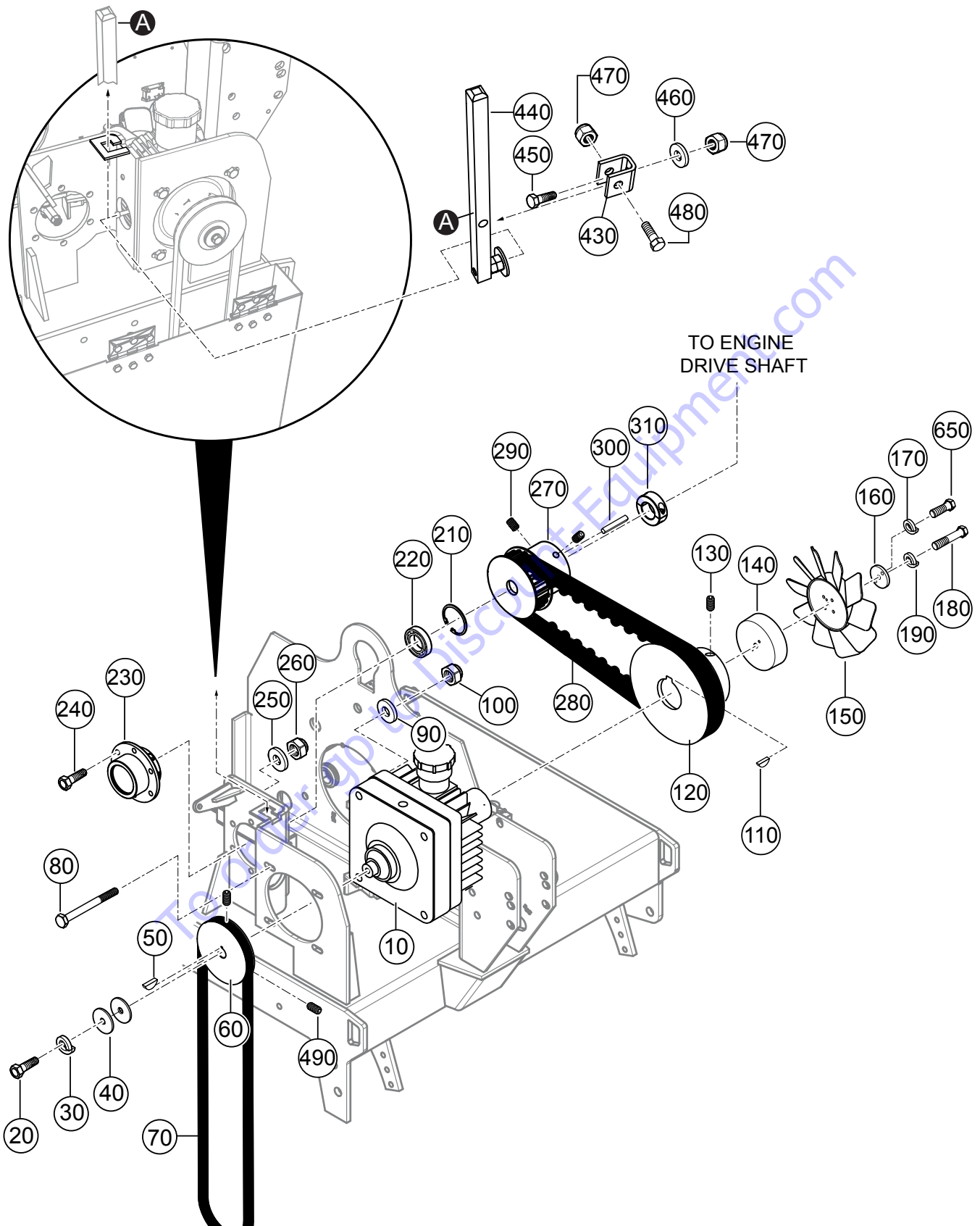
TRANSMISSION ROD ASSY.



TRANSMISSION ROD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	804143	ROD, TRANSMISSION	1	
11	EM963057	BOLT 3/8".....	1	REPLACES P/N 492313
12	EM959080	ROD, END.....	1	REPLACES P/N 959080
13	EM490172	NUT, HEX 3/8"-24	1	
14	EM969013	NUT, NYLOC 3/8"NC G8.....	1	REPLACES P/N 492583
15	804144	LEVER, TRANSMISSION	1	
16	491759	KEY, WOODRUFF 1/8" X 1/2"	1	
17	0166 A	WASHER, LOCK 3/8".....	1	REPLACES P/N 492624
18	EM969012	NUT, LOCK 3/8".....	1	REPLACES P/N 505066
20	520252	HANDLE, CONTROL	1	
30	504564	GRIP, HANDLE	2	
40	EM503115	SCREW 3/16"NC X 3/4" G2.....	2	REPLACES P/N 503115
50	520241	RETAINER	2	
60	503119	NUT, LOCK 3/16"NC G8	4	
70	492378	SCREW 3/8"NC X 1-3/4" G5	1	
80	3019092	WASHER, FLAT 3/8".....	2	REPLACES P/N 492598
90	520240	ALUMINUM SPACER BUSHING	2	
100	503738	BEARING	1	
110	EM969013	NUT, NYLOK 3/8"NC G8.....	1	REPLACES P/N 492583
120	EM963057	BOLT 3/8".....	1	REPLACES P/N 492313
130	EM959080	ROD END.....	1	REPLACES P/N 959080
140	EM969013	NUT, NYLOC 3/8"NC G8.....	1	REPLACES P/N 492583
150	804135	ADVANCE ROD	1	
160	EM491686	PIN, COTTER.....	2	REPLACES P/N 491686
170	504679	WASHER, FLAT 3/8"	4	
180	EM503744	SPRING	2	
190	EM490172	NUT, HEX 3/8"	5	
200	511875	FORK LONG GALVANIZED CONTROL	2	
240	503111	SCREW, HHC 1/2-13X4-1/2"	1	
350	520242	BRACKET, RIGHT SIDE	1	
360	511870C	BUSHING	1	
370	EM963610	BOLT 3/8".....	2	REPLACES P/N 492376
380	EM969013	NUT, NYLOC 3/8" G8.....	2	REPLACES P/N 492583
390	EM959080	ROD END.....	2	REPLACES P/N 959080
530	804131TT	LEVER, WATER RETAINER	1	
540	804130	SPRING, RATCHET LEVER	1	
550	492581	NUT, NYLON LOCKNUT 1/4"-20 G8	1	
560	EM963007	CAP SCREW 1/4" NC X 1-1/2" G5.....	1	REPLACES P/N EM492359

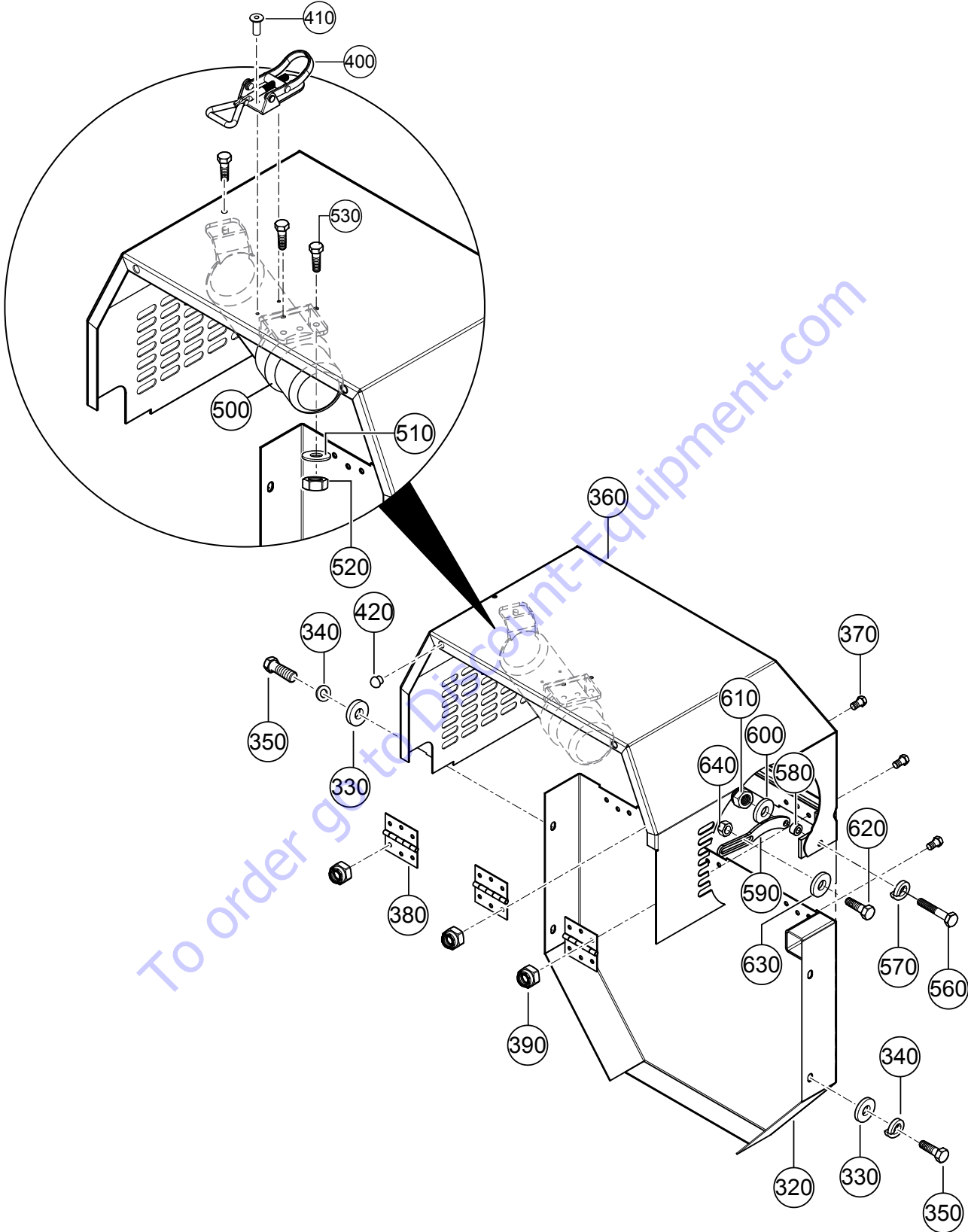
PUMP/FAN ASSY.



PUMP/FAN ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	EM510971	PUMP, HYDROSTATIC	1	
20	492363	BOLT, 5/16" NC X 3/4" G5	1	
30	EM923343	WASHER, LOCK 5/16"	1	REPLACES P/N 492623
40	100536	WASHER, BRAKE	2	
50	491759	KEY WOODRUFF 1/8"X1/2	1	
60	EM490300	PULLEY, TRAVEL	1	
70	EM491116	V-BELT, DRIVE	1	
80	490166	BOLT, HEX 3/8"X3-1/2"	4	
90	504679	WASHER, FLAT 3/8"	4	
100	EM969013	NUT NYLOK	4	REPLACES P/N 492583
110	491759	KEY WOODRUFF 1/8"X1/2"	1	
120	491033	PULLEY, DRIVE BELT	1	
130	503110	SCREW SET	1	
140	502651	SPACER FAN	1	
150	EM493150	FAN	1	
160	EM502650	WASHER, FAN SECURING	1	
170	3103160	WASHER, LOCK 3/16"	2	REPLACES P/N 492621
180	EM963007	CAP, SCREW	1	REPLACES P/N EM492359
190	2101402	WASHER, LOCK 1/4"	1	REPLACES P/N 492622
210	490984	SNAP RING	2	
220	492179	BEARING SHAFT PIN	2	
230	EM502629	BEARING SUPPORT	1	
240	492303	BOLT 5/16" NC X 1-1/4"	6	REPLACES P/N 492365
250	EM923023	WASHER, FLAT 5/16"	6	REPLACES P/N 492597
260	2105164	NUT NYLON 5/16-18"	6	REPLACES P/N 492582
270	EM491032	GEAR WHEEL	1	
280	EM491132	BELT, ENGINE TO PUMP DRIVE	1	
290	492468	SCREW SET 5/16"	2	
300	500194	KEY SQUARE	1	
310	802442	COLLAR, LOCKING	1	
430	511891	CLEVIS	1	
440	EM511890	LEVER PUMP OVERRIDE	1	
450	0202	SCREW HHC 5/16X18X1	1	REPLACES P/N 492364
460	EM923023	WASHER, FLAT 5/16"	1	REPLACES P/N 492597
470	2105164	NUT NYLON 5/16-18"	2	REPLACES P/N 492582
480	492303	BOLT 5/16" NC X 1-1/4"	1	REPLACES P/N 492365
490	492466	SET SCREW 1/4" NC X 1/2	2	

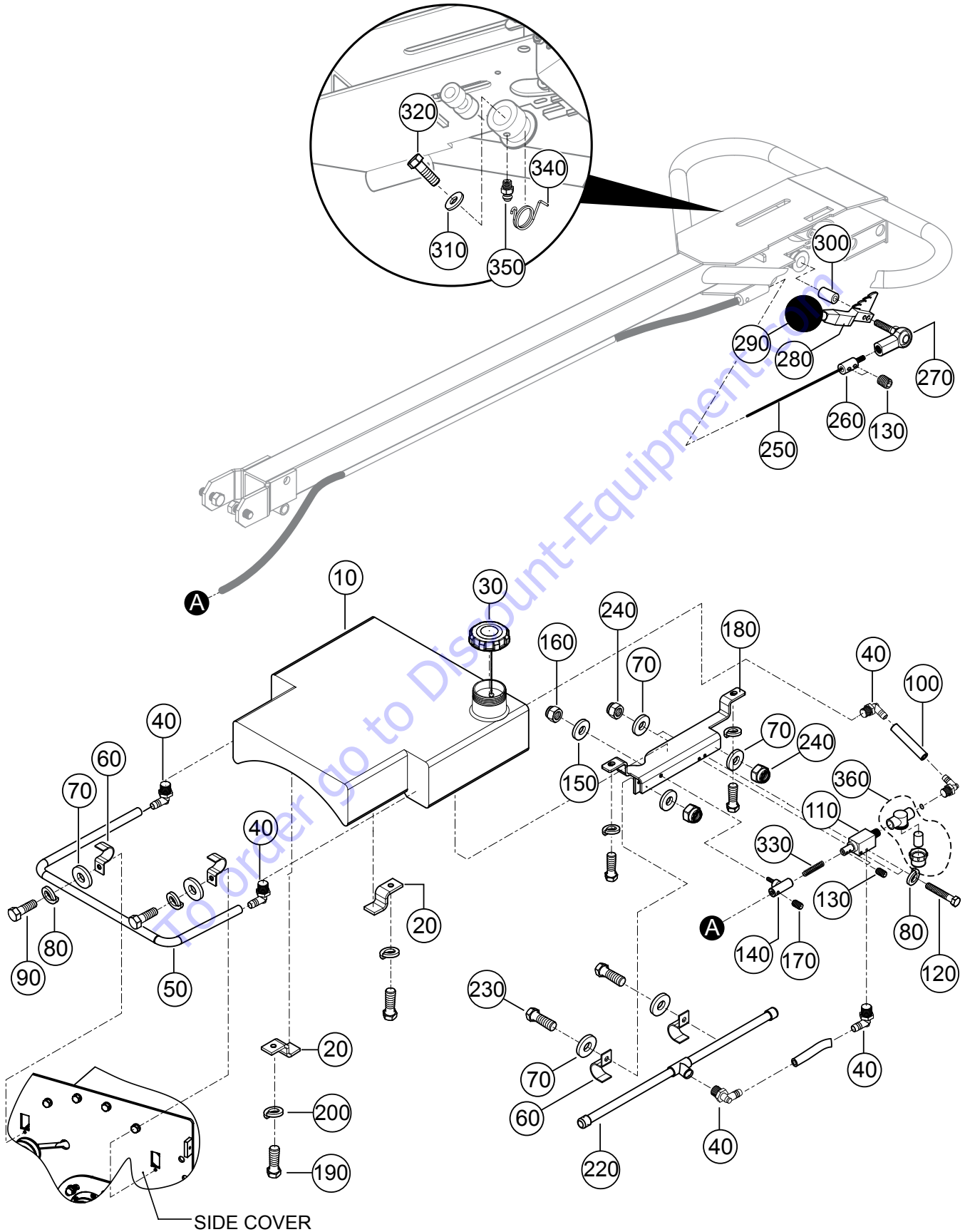
CABINET ASSY.



CABINET ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
320	519637	COVER, BELT	1	
330	EM923023	WASHER, FLAT 5/16"	4	REPLACES P/N 492597
340	EM923343	WASHER, LOCK 5/16"	4	REPLACES P/N 492623
350	492363	BOLT 5/16" DIA. NC X3/4" G5	4	
360	800487	COVER, COMPARTMENT	1	
370	1579	SCREW HHC 1/4-20X1/2"	18	REPLACES P/N 492355
380	EM503740	HINGE.....	3	REPLACES P/N 503740
390	492581	NUT 1/4"-20 NYLON LOCKNUT	18	
400	800806	LATCH	1	
410	514540	RIVET	2	
420	490202	RUBBER PROTECTOR/BUMPER	2	
500	23297	MANUAL HOLDER	1	
510	EM923057	WASHER 1/4"	3	REPLACES P/N 492596
520	492581	NUT 1/4"-20 NYLON LOCKNUT	3	
530	492356	BOLT 1/4"X3/4"	3	
560	492379	SCREW, CAP 3/8"	1	
570	0166 A	WASHER, LOCK 3/8"	1	REPLACES P/N 492624
580	513979C	SPACER/BUSHING	1	
590	800810	TIE ROD	1	
600	3019092	WASHER, FLAT 3/8"	1	REPLACES P/N 492598
610	EM969013	NUT NYLOK	1	REPLACES P/N 492583
620	EM963610	CAP, SCREW	1	REPLACES P/N 492375
630	3019092	WASHER, FLAT 3/8"	1	REPLACES P/N 492598
640	1456	NUT, HEX 3/8"	1	REPLACES P/N 492554

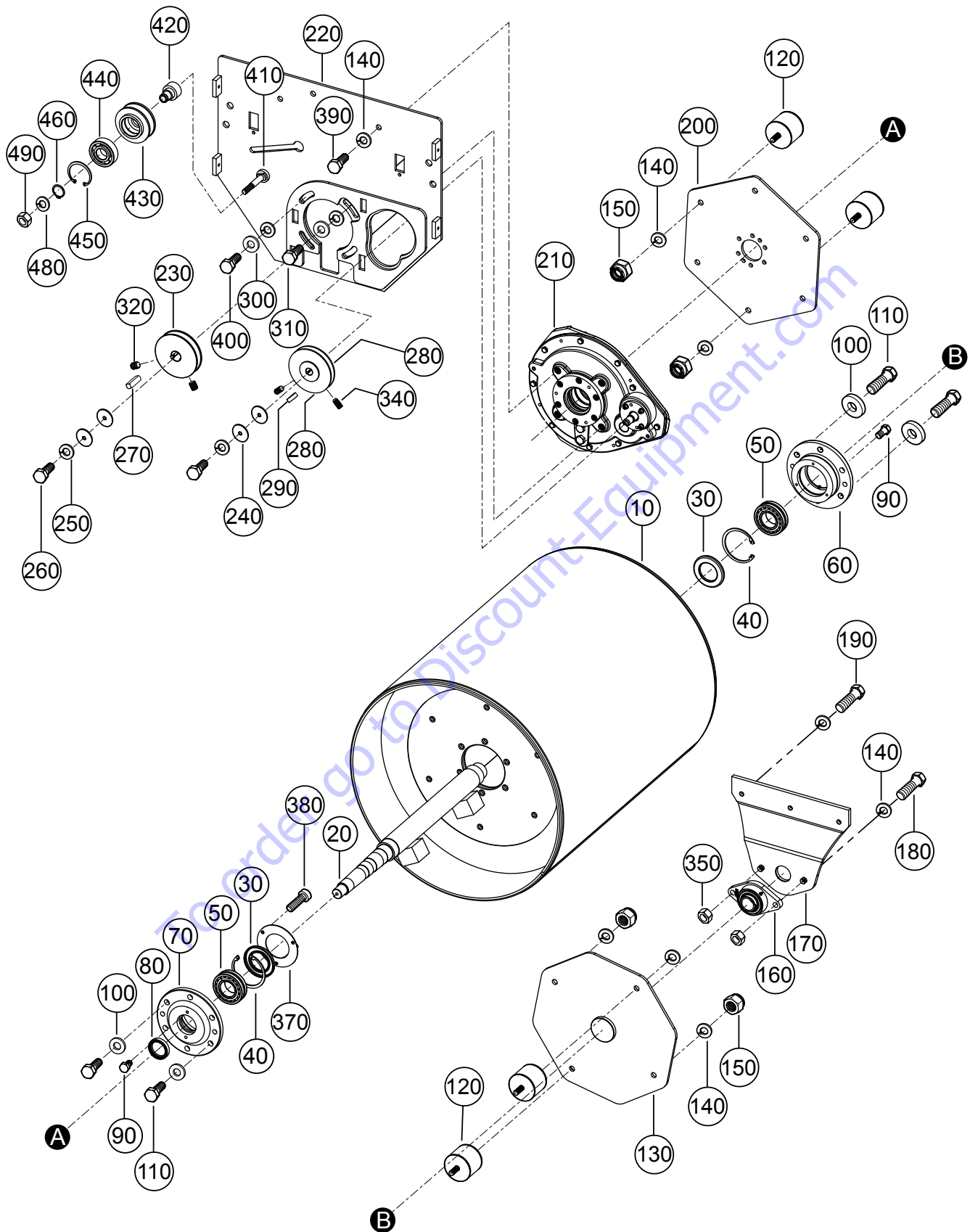
WATER TANK ASSY.



WATER TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	519545	PLASTIC TANK, WATER	1	
20	800390	FRONT BRACKET, WATER TANK	2	
30	42435	WATER TANK CAP	1	
40	506071	ELBOW PVC	5	
50	800387	HOSE, TANK	1	
60	505389	CLAMP, 3/4"	4	
70	EM923057	WASHER, FLAT 1/4".....	8.....	REPLACES P/N 492596
80	2101402	WASHER, LOCK 1/4".....	4.....	REPLACES P/N 492622
90	492356	BOLT 1/4" X 3/4" G5	2	
100	800380	HOSE, TANK VALVE	1	
110	520268	VALVE, WATER	1	
120	2508	SCREW HHC 1/4-20X2-1/4.....	2.....	REPLACES P/N 512414
130	492467	SCREW ALLEN 5/16"	4	
140	800394	PIVOT SHAFT	1	
150	EM923023	WASHER, FLAT 5/16".....	1.....	REPLACES P/N 492597
160	2105164	NUT NYLON 5/16"-18.....	1.....	REPLACES P/N 492582
170	492468	SCREW SET 5/16"	1	
180	800379	SUPPORT, TANK VALVE	1	
190	EM963692	BOLT 1/2"UNC X1-1/2".....	4.....	REPLACES P/N 492394
200	6109180	WASHER, LOCK 1/2".....	4.....	REPLACES P/N 492626
220	520275	SPRAYER	1	
230	492356	BOLT 1/4" X 3/4" G5	2	
240	492581	NUT 1/4"-20 NYLON LOCKNUT	4	
250	804142	CABLE, WATER	1	
260	520183	BUSHING	1	
270	516487	END ROD	1	
280	804140TT	LEVER, WATER	1	
290	491019	KNOB, BLACK PLASTIC	1	
300	800371	BUSHING FOR LEVER	1	
310	3019092	WASHER FLAT 3/8".....	1.....	REPLACES P/N 492598
320	492378	BOLT 3/8"X1-3/4" G5	1	
330	800398	SPRING, VALVE	1	
340	800399	SPRING, HANDLE	1	
350	EM916019	FITTING, GREASE.....	1.....	REPLACES P/N 491705
360	800796	WATER FILTER	1	

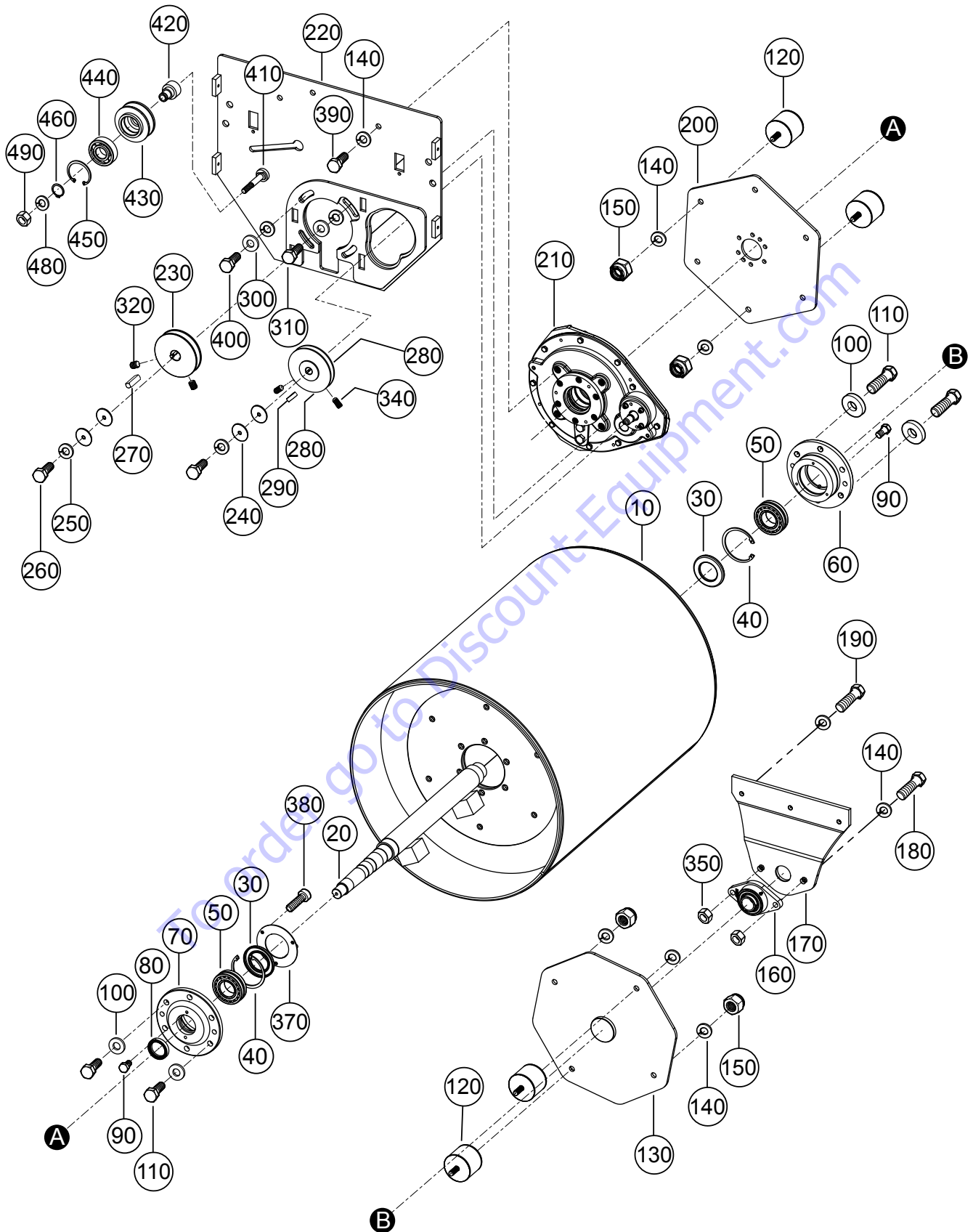
ROLLER ASSY.



ROLLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	804210	ROLLER.....	1.....	S/N 160400 AND BELOW
10	521685	ROLLER.....	1.....	S/N 160401 AND ABOVE
20	519659	SHAFT, VIBRATOR.....	1.....	S/N 160400 AND BELOW
20	804694	SHAFT, VIBRATOR.....	1.....	S/N 160401 AND ABOVE
30	519661	SEAL, OIL.....	2.....	S/N 160400 AND BELOW
30	513286	SEAL, OIL.....	2.....	S/N 160401 AND ABOVE
40	EM490985	RING RETAINING	2.....	S/N 160400 AND BELOW
40	506135	RING RETAINING	2.....	S/N 160401 AND ABOVE
50	EM492160	BEARING.....	2.....	S/N 160400 AND BELOW
50	506131	BEARING.....	2.....	S/N 160401 AND ABOVE
60	804209	HOUSING, RIGHT SIDE.....	1.....	S/N 160400 AND BELOW
60	804669	HOUSING, RIGHT SIDE.....	1.....	S/N 160401 AND ABOVE
70	804208	HOUSING, LEFT SIDE.....	1.....	S/N 160400 AND BELOW
70	804670	HOUSING, LEFT SIDE.....	1.....	S/N 160401 AND ABOVE
80	EM511777	OIL SEAL 39X52X10	1.....	S/N 160400 AND BELOW
80	506144	OIL SEAL.....	1.....	S/N 160401 AND ABOVE
90	EM492299	HEX BOLT 5/16"X1/2"	4	
100	519337	WASHER, FLAT 1/2"	12	
110	EM492455	BOLT HX HD 1/2"X1-1/2".....	12.....	REPLACES P/N 492455
120	EM504441	MOUNT SHOCK	10	
130	519493	DRIVE SUPPORT PLATE, RIGHT-SIDE	1	
140	6109180	WASHER, LOCK 1/2"	23.....	REPLACES P/N 492626
150	492584	NUT, LOCK 1/2" NC	10	
160	EM492174	PILLOW BLOCK	1	
170	800769	ROLLER SUPPORT	1	
180	492395	BOLT 1/2"NC X 1-3/4" G5	2	
190	981635	BOLT HX HD 1/2"-13 NC X1"	3.....	REPLACES P/N 492392
200	519492	DRIVE SUPPORT PLATE, LEFT-SIDE	1	
210	EM500913	DRIVE, GEAR REDUCTION ASSY.	1	
220	519651	TOP COVER SUPPORT	1	
230	803956	PULLEY	1	
240	100536	WASHER, BRAKE	4	
250	EM923343	WASHER, LOCK 5/16"	2.....	REPLACES P/N 492623
260	492363	BOLT 5/16" NC X3/4" G5	2	
270	1294220103	SHAFT GOVERNOR	1.....	REPLACES P/N 502625
280	490300	PULLEY, S-A	1	
290	491759	KEY WOODRUFF 1/8"X1/2"	1	
300	6109170	WASHER, FLAT 1/2".....	4.....	REPLACES P/N 504322

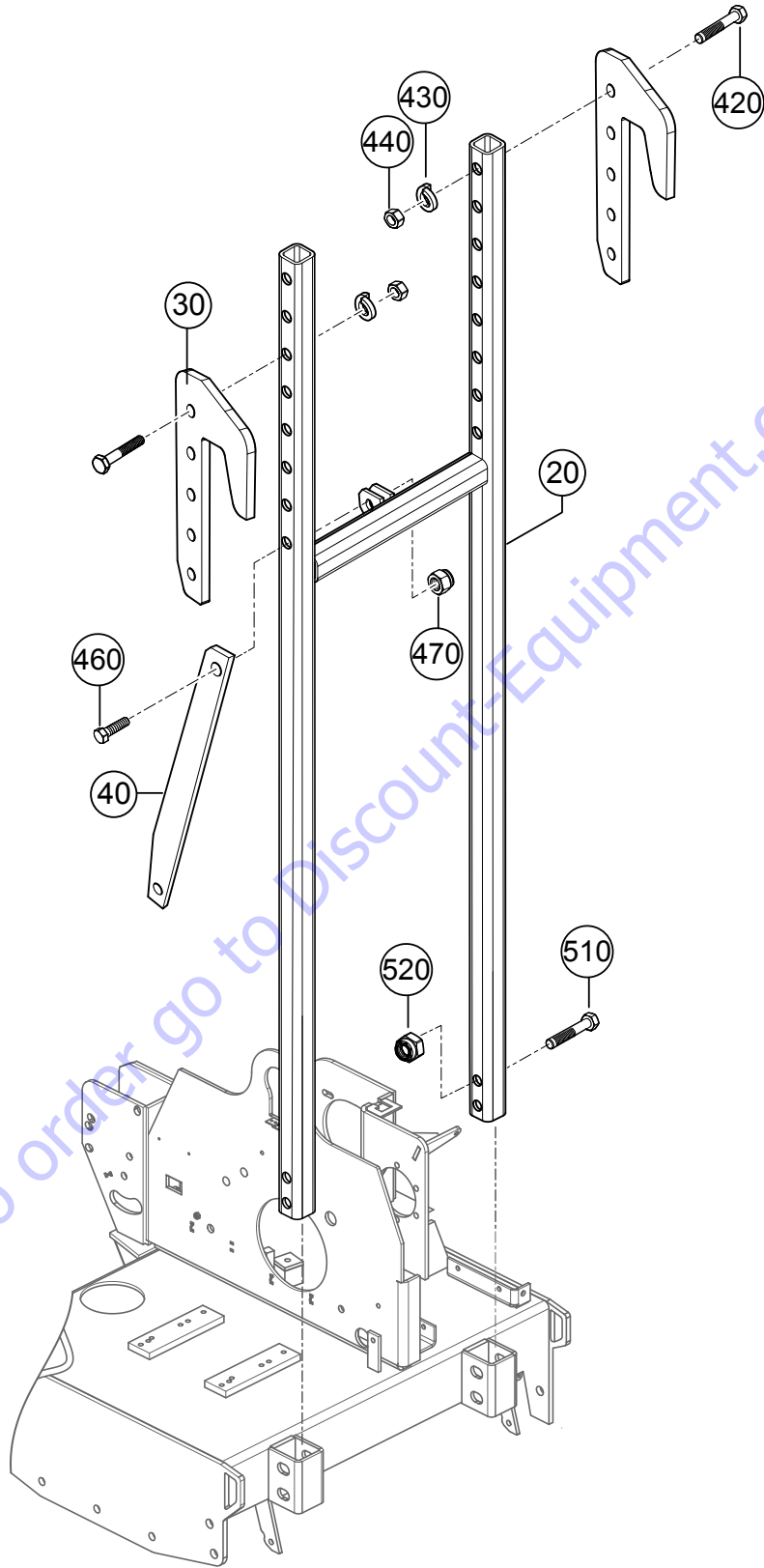
ROLLER ASSY. (CONTINUED)



ROLLER ASSY. (CONTINUED)

NO.	PART NO.	PART NAME	QTY.	REMARKS
310	EM963102	BOLT 1/2"NC X1-1/4" G5.....	1.....	REPLACES P/N 492393
320	492467	SCREW, ALLEN 5/16"NC X3/8"	2	
340	492466	SCREW, ALLEN 1/4"NC X1/2"	2	
350	504723	NUT 1/2" NC G8	2	
370	EM521003	SPACER.....	2.....	S/N 160400 AND BELOW
370	804695	SPACER.....	2.....	S/N 160401 AND ABOVE
380	EM492254	BOLT HX HD 1/4"NC X3/4" G8	6	
390	EM504456	BOLT HX HD 1/2-13"X3/4" G8	4	
400	EM963692	BOLT 1/2"NC X1-1/2" G5.....	3.....	REPLACES P/N 492394
410	803994S	IDLER PULLEY SHAFT, GALVANIZED	1	
420	803995S	IDLER PULLEY BUSHING, GALVANIZED	1	
430	EM502134	PULLEY	1	
440	EM490163	BEARING, IDLER PULLEY	1	
450	EM490951	RING, SNAP	1	
460	EM490981	RING, SNAP	1	
480	EM492625	WASHER, LOCK 7/16	1	
490	EM492555	NUT, HEX 7/16-14	1	

HANGER ASSY.

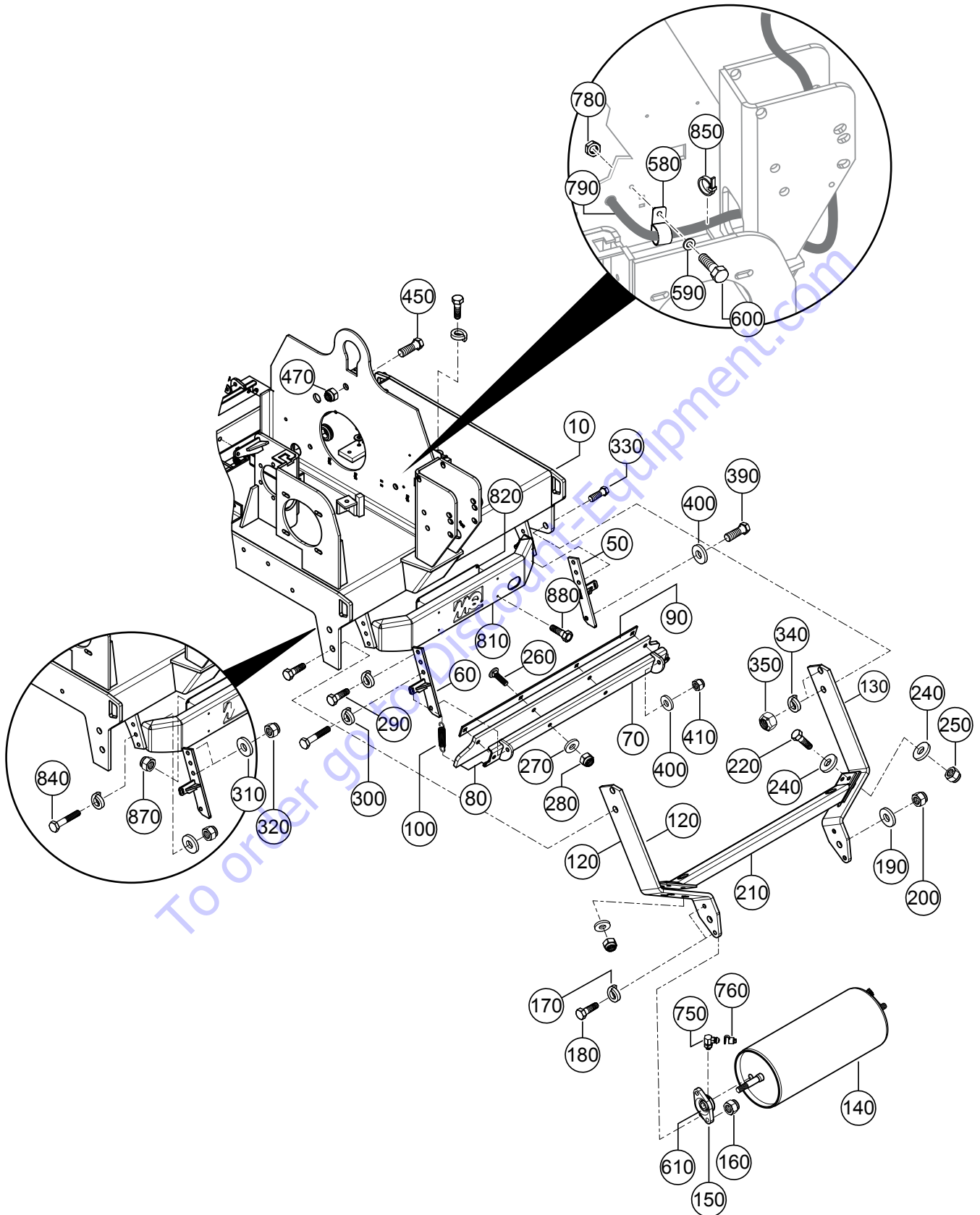


HANGER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
20	EM505396	CARRYING, HANGER	1	
30	EM502677	HOOK, HANGER	2	
40	800774	BRACE, TIE ROD	1	
420	EM492421	SCREW, HHC 3/4"NC X3-1/2" G5.....	6.....	REPLACES P/N 492421
430	492628	WASHER, LOCK 3/4"	6	
440	EM968446	NUT HEX 3/4".....	6.....	REPLACES P/N 492558
460	EM104	BOLT 5/8-11"X2".....	1.....	REPLACES P/N 503982
470	EM969023	NUT LOCK 5/8".....	2.....	REPLACES P/N 492586
510	EM492421	SCREW, HHC 3/4"NCX3-1/2" G5.....	4.....	REPLACES P/N 492421
520	EM505069	NUT, CRIMPED 3/4"-10	4	

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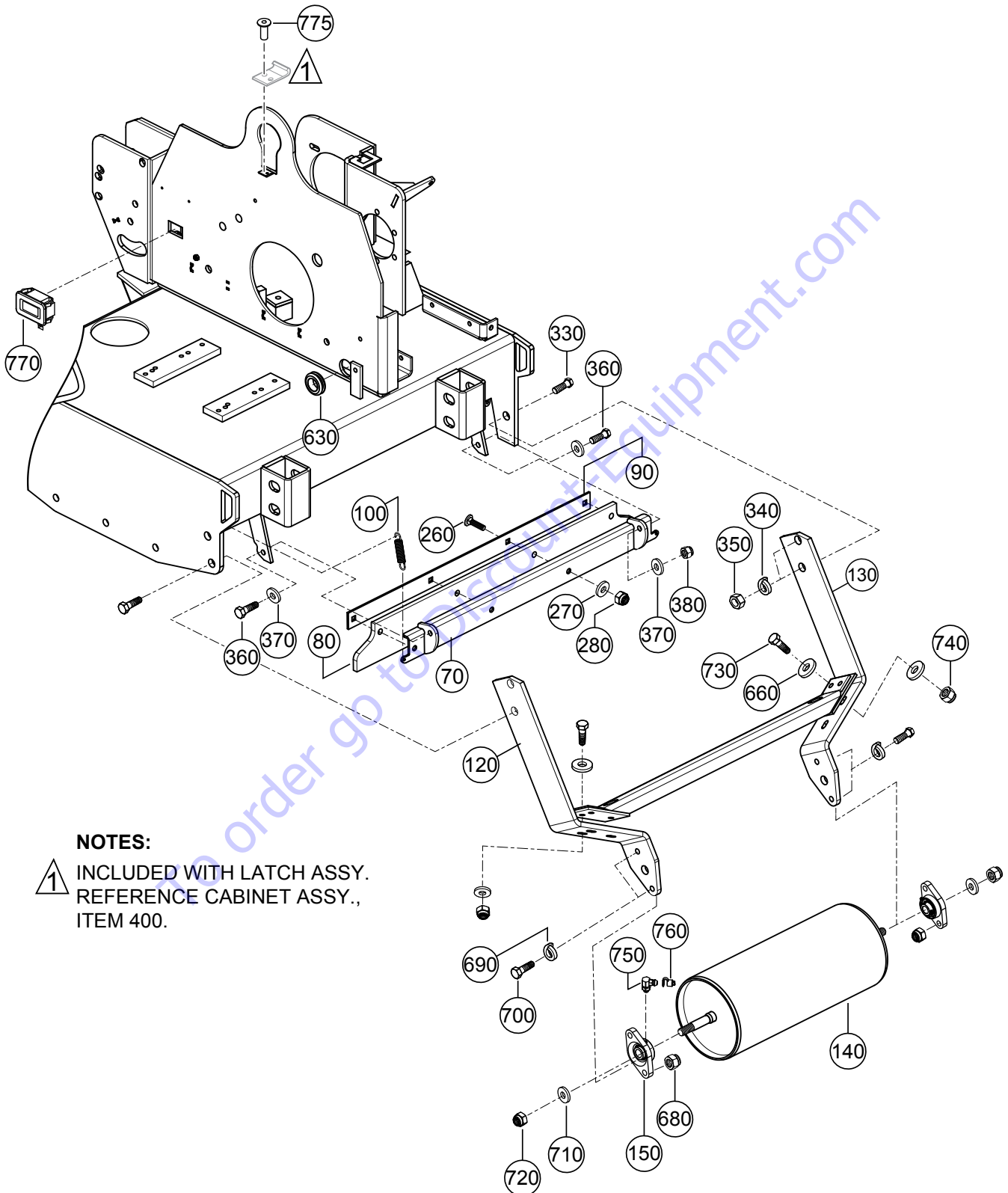
FRONT STABILIZER ROLLER ASSY.



FRONT STABILIZER ROLLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	804155	CHASSIS	1	
50	800323	SUPPORT, RIGHT SPRING SCRAPER	1	
60	800324	SUPPORT, LEFT SPRING SCRAPER	1	
70	520329	UPPER SUPPORT, SCRAPER	1	
80	804136	SCRAPPER, RUBBER	1	
90	804137	BACK UP PLATE, REAR	1	
100	520341	SPRING EXTENSION, SCRAPER	2	
120	804139	SUPPORT, STABIL. LFT. REAR/RT. FRONT	1	
130	804138	RIGHT SUPPORT, STABILIZER ROLLER	1	
140	516312	ROLLER, STABILIZER	1	
150	492173	BEARING	1	
160	EM969013	NUT NYLOK	2	REPLACES P/N 492583
170	0166 A	WASHER, LOCK 3/8"	2	REPLACES P/N 492624
180	EM963057	BOLT 3/8"	2	REPLACES P/N 492313
190	EM923023	SOCKET HEAD	2	REPLACES P/N 506109
200	EM969023	NUT LOCK 5/8"	2	REPLACES P/N 492586
210	804132	SUPPORT, STABILIZER	1	
220	EM963057	BOLT 3/8"	3	REPLACES P/N 492313
240	3019092	WASHER, FLAT 3/8"	6	REPLACES P/N 492598
250	EM969013	NUT NYLOK	3	REPLACES P/N 492583
260	513452	BOLT 3/8"X1-1/4" G5	4	
270	3019092	WASHER, FLAT 3/8"	4	REPLACES P/N 492598
280	EM969013	NUT NYLOC	4	REPLACES P/N 492583
290	EM963057	BOLT 3/8"	2	REPLACES P/N 492313
300	0166 A	WASHER, LOCK 3/8"	3	REPLACES P/N 492624
310	3019092	WASHER, FLAT 3/8"	3	REPLACES P/N 492598
320	EM969013	NUT NYLOK	3	REPLACES P/N 492583
330	EM104	BOLT 5/8-11X2"	4	REPLACES P/N 503982
340	EM923348	WASHER, LOCK 5/8"	4	REPLACES P/N 492627
350	EM969023	NUT, STOP	4	REPLACES P/N EM504724
390	EM963057	BOLT 3/8"	2	REPLACES P/N 492313
400	3019092	WASHER, FLAT 3/8"	4	REPLACES P/N 492598
410	EM969013	NUT NYLOC	2	REPLACES P/N 492583
450	530298	SCREW HEX 5/8"	1	
470	EM969023	NUT LOCK 5/8"	2	REPLACES P/N 492586
580	511807	CLAMP, NYLON 5/8"	2	
590	492595	WASHER, FLAT 3/16	1	
600	EM503115	SCREW.....	1	REPLACES P/N 503115
750	491704	ZERK FITTING	2	
760	491008	ZERK FITTING CAP	2	
780	503119	NUT, LOCK	1	
790	800417	HOSE, FUEL 8.4"	1	1 PC=1 FT.
810	803479	WATER FILTER, PROTECTION	1	
820	800829	BACK PLATE FILTER PROTECTION	1	
840	492379	SCREW CAP 3/8"	4	
850	EM491028	WRAP CABLE TIE	6	REPLACES P/N 491028
870	503119	NUT LOCK	4	
880	512367	SCREW	4	

REAR STABILIZER ROLLER ASSY.



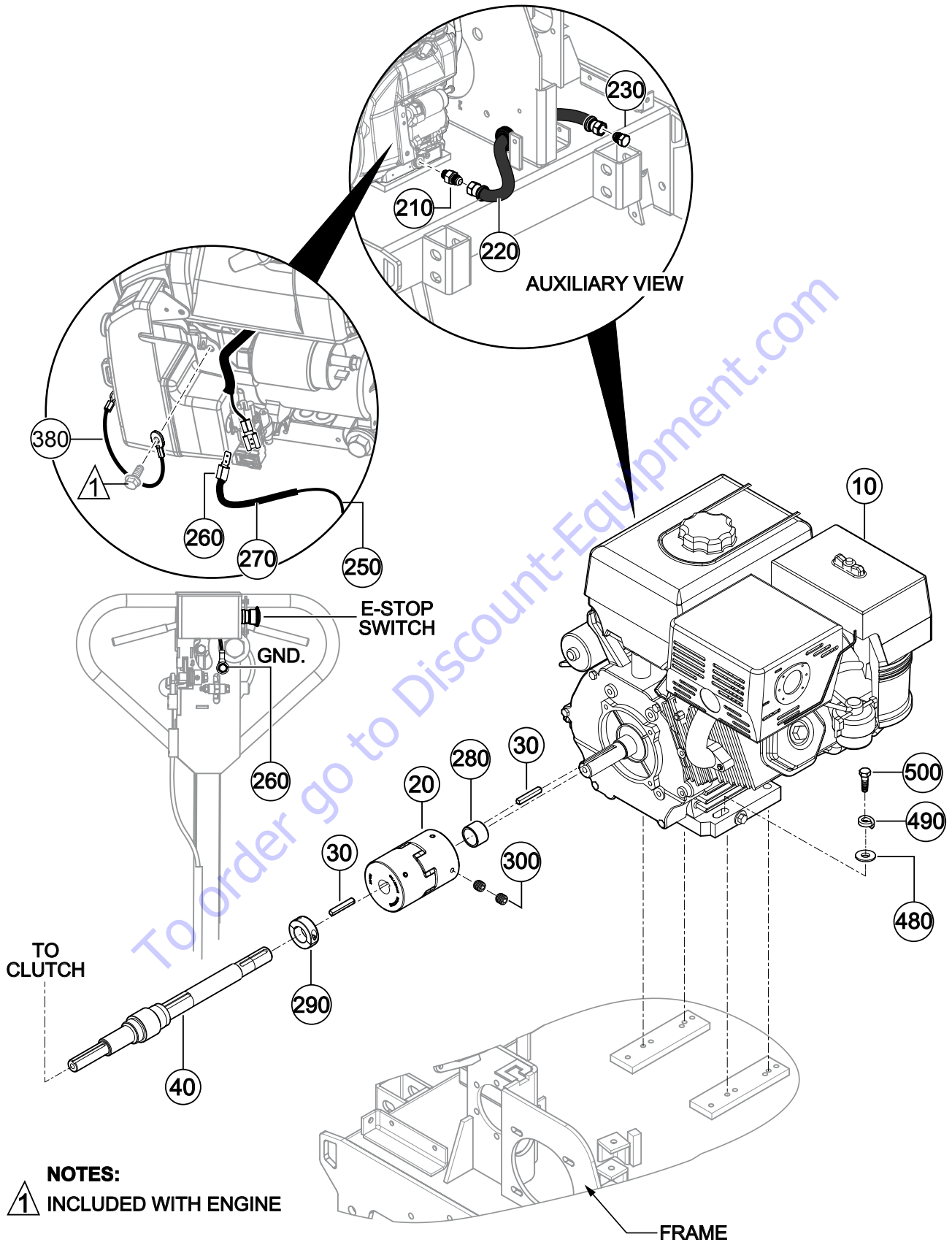
NOTES:

- 1 INCLUDED WITH LATCH ASSY. REFERENCE CABINET ASSY., ITEM 400.

REAR STABILIZER ROLLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
70	520329	UPPER SUPPORT, SCRAPER	1	
80	804136	SCRAPPER, RUBBER	1	
90	804137	BACK-UP PLATE, REAR	1	
100	520341	SPRING EXTENSION, SCRAPER	2	
120	804139	SUPPORT, STABIL. LFT. REAR/RT. FRONT	1	
130	804138	RIGHT SUPPORT, STABILIZER ROLLER	1	
140	516312	ROLLER, STABILIZER	1	
150	492173	BEARING	1	
260	513452	BOLT 3/8"X1-1/4" G5	4	
270	3019092	WASHER, FLAT 3/8"	4	REPLACES P/N 492598
280	EM969013	NUT, NYLOK.....	4	REPLACES P/N 492583
330	EM104	BOLT 5/8-11X2"	4	REPLACES P/N 503982
340	EM923348	WASHER, LOCK 5/8"	4	REPLACES P/N 492627
350	504724	NUT	4	
360	EM963057	BOLT 3/8".....	2	REPLACES P/N 492313
370	3019092	WASHER, FLAT 3/8".....	4	REPLACES P/N 492598
380	EM969013	NUT NYLOC	2	REPLACES P/N 492583
510	EM492421	HHCS 3/4" NC X3-1/2 G5.....	4	REPLACES P/N 492421
520	505069	NUT	4	
630	800773	GROMMET	1	
660	3019092	WASHER, FLAT 3/8".....	6	REPLACES P/N 492598
680	EM969013	NUT NYLOC	4	REPLACES P/N 492583
690	0166 A	WASHER, LOCK 3/8"	4	REPLACES P/N 492624
700	EM963057	BOLT 3/8".....	4	REPLACES P/N 492313
710	EM923023	SOCKET HEAD	2	REPLACES P/N 506109
720	EM969023	NUT, LOCK 5/8"	2	REPLACES P/N 492586
730	EM963057	BOLT 3/8".....	6	REPLACES P/N 492313
740	EM969013	NUT, NYLOC.....	6	REPLACES P/N 492583
750	491704	ZERK FITTING	2	
760	491008	ZERK FITTING CAP	2	
770	800803	HOUR/TACHOMETER	1	
775	491757	RIVET	2	

ENGINE COUPLER ASSY.



NOTES:

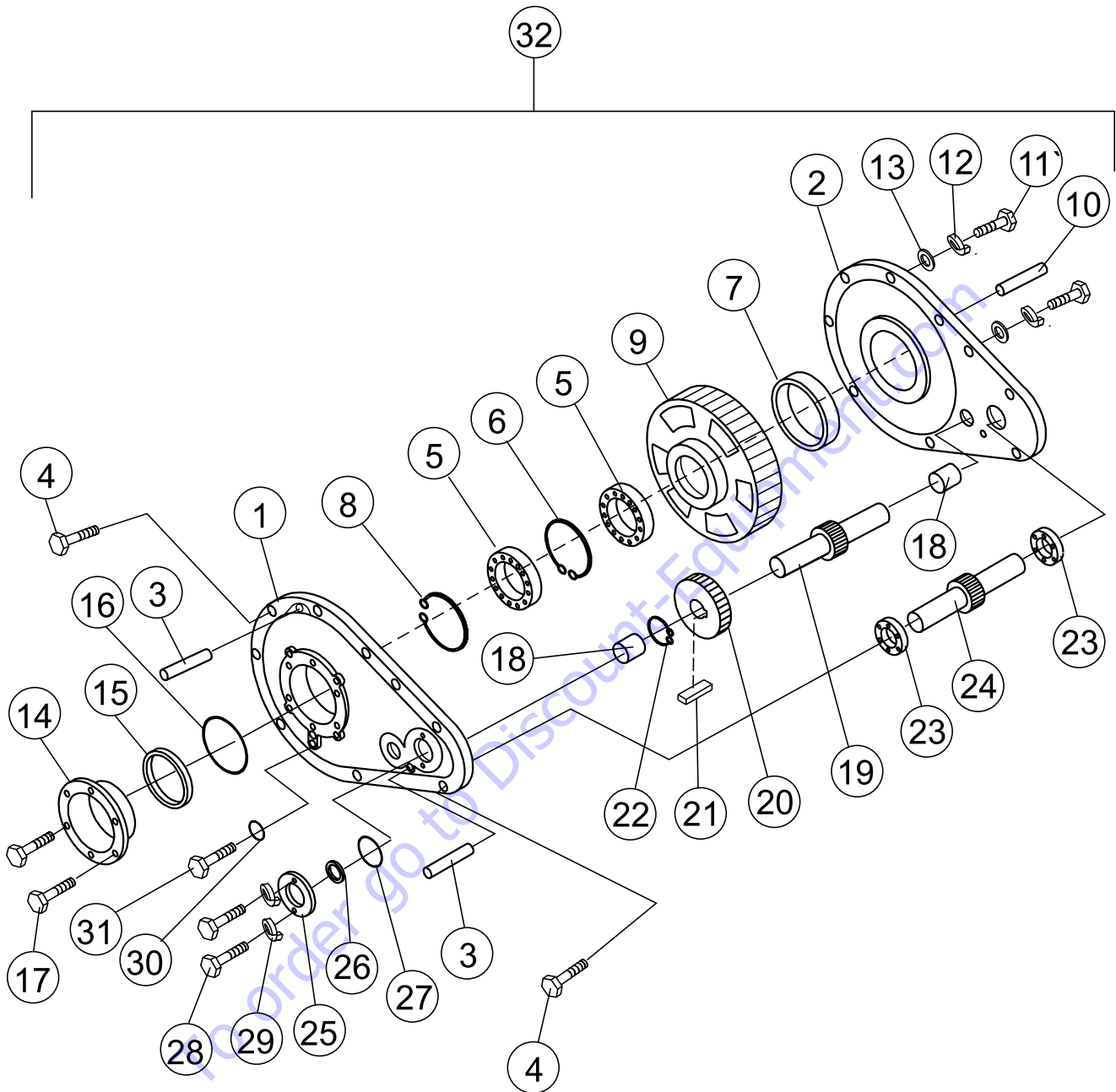
1 INCLUDED WITH ENGINE

ENGINE COUPLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
10	505331	ENGINE, HONDA GX340UT2QAE2	1	
20	800771	COUPLING, ENGINE/PUMP	1	
30	500194	KEY, SQUARE	2	
40	803904	SHAFT, ENGINE DRIVE	1	
210	800780	ADAPTER	1	
220	800776	DRAIN HOSE	1	
230	513619	FITTING	1	
250	804146	E-STOP SWITCH WIRE 10 AWG BLACK	1	
260	505303	TERMINAL RING, 1/4" BLUE	1	
270	505314	PROTECTIVE WIRE COVERING	1	
280	521028	SPACER, BUSHING COUPLING	1	
290	802442	COLLAR, LOCKING	1	
300	EM703	SCREW ALLEN 3/8".....	8.....	REPLACES P/N 492470
380	804123	STEEL, LANYARD (IGNITION KEY)	1	
480	3019092	WASHER, FLAT 3/8".....	4.....	REPLACES P/N 492598
490	0166 A	WASHER, LOCK 3/8".....	4.....	REPLACES P/N 492624
500	EM963057	BOLT 3/8".....	4.....	REPLACES P/N 492313

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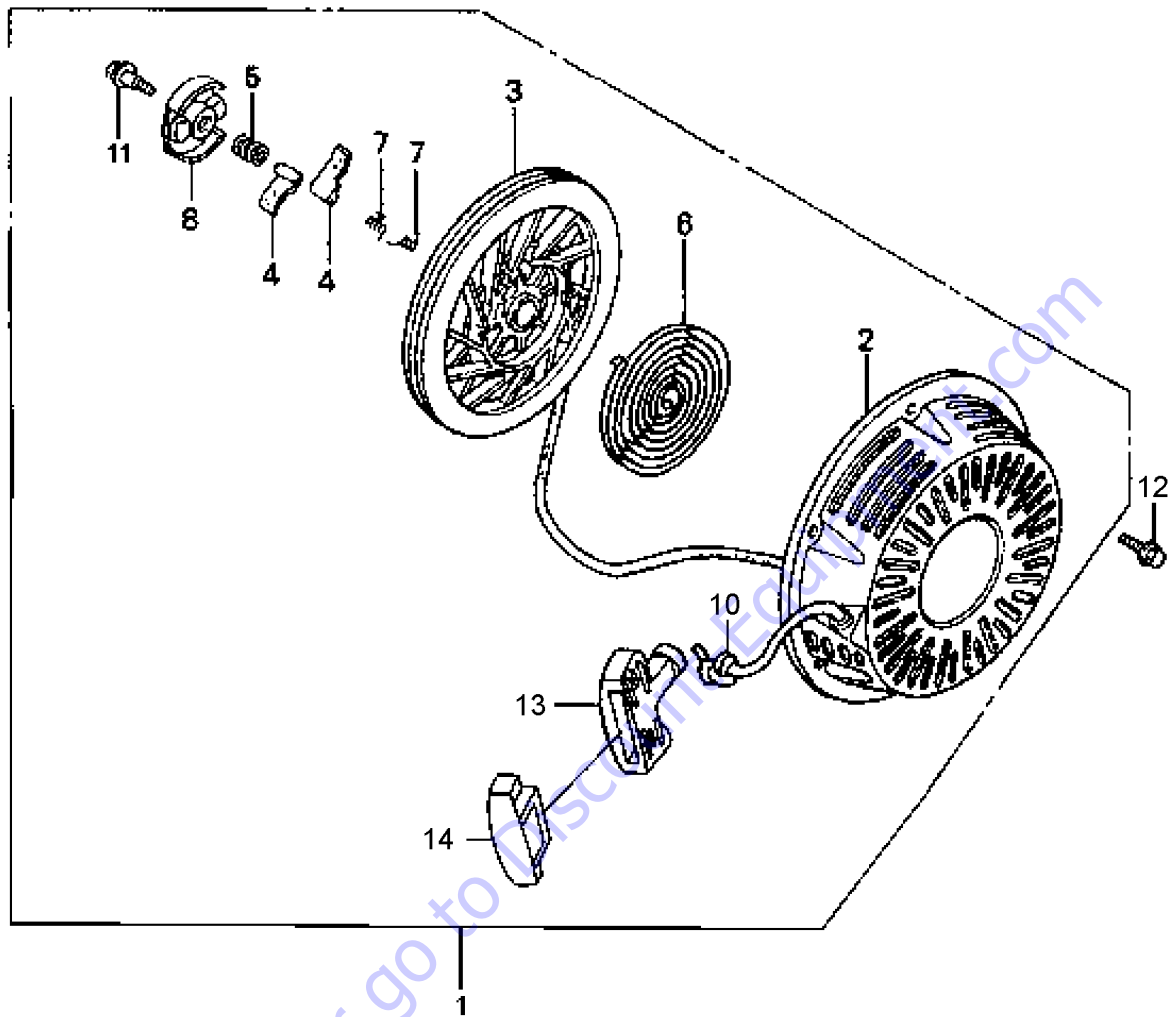
TRANSMISSION ASSY.



TRANSMISSION ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	EM502546	TRANSMISSION BASE BOX	1	
2#	EM502547	TRANSMISSION COVER BOX	1	
3#	EM491722	SPIRAL PIN	2	
4#	EM492302	SPECIAL CAP SCREW	9	
5#	EM492228	BEARING	2	
6#	EM490990	INTERNAL RETAINING RING	1	
7#	EM492123	SEAL	1	
8#	EM490968	EXTERNAL RETAINING RING	1	
9#	EM503802	GEAR	1	
10#	EM503803	PIN	2	
11#	492451	SPECIAL CAP SCREW	6	
12#	0166 A	LOCK WASHER, 3/8"	6	
13#	3019092	FLAT WASHER, 3/8"	6	
14#	EM502556	COVER	1	
15#	EM492122	SEAL	1	
16#	EM491057	O-RING	1	
17#	EM492258	HEX SOCKET HEAD BOLT	6	
18#	EM492229	BEARING	2	
19#	EM502550	SHAFT	1	
20#	EM502552	GEAR	1	
21#	EM502551	KEY	1	
22#	EM490952	EXTERNAL RETAINING RING	1	
23#	EM492212	BEARING	2	
24#	EM502553	SHAFT	1	
25#	EM502555	COVER	1	
26#	EM492108	SEAL	1	
27#	EM491058	O-RING	1	
28#	EM492254	HEX SOCKET HEAD BOLT	2	
29#	2101402	LOCK WASHER, 1/4"	2	
30#	EM491056	O-RING	2	
31#	EM492325	CAP SCREW	2	
32	EM500913	TRANSMISSION ASSY.....	1.....	INCLUDES ITEMS W/#

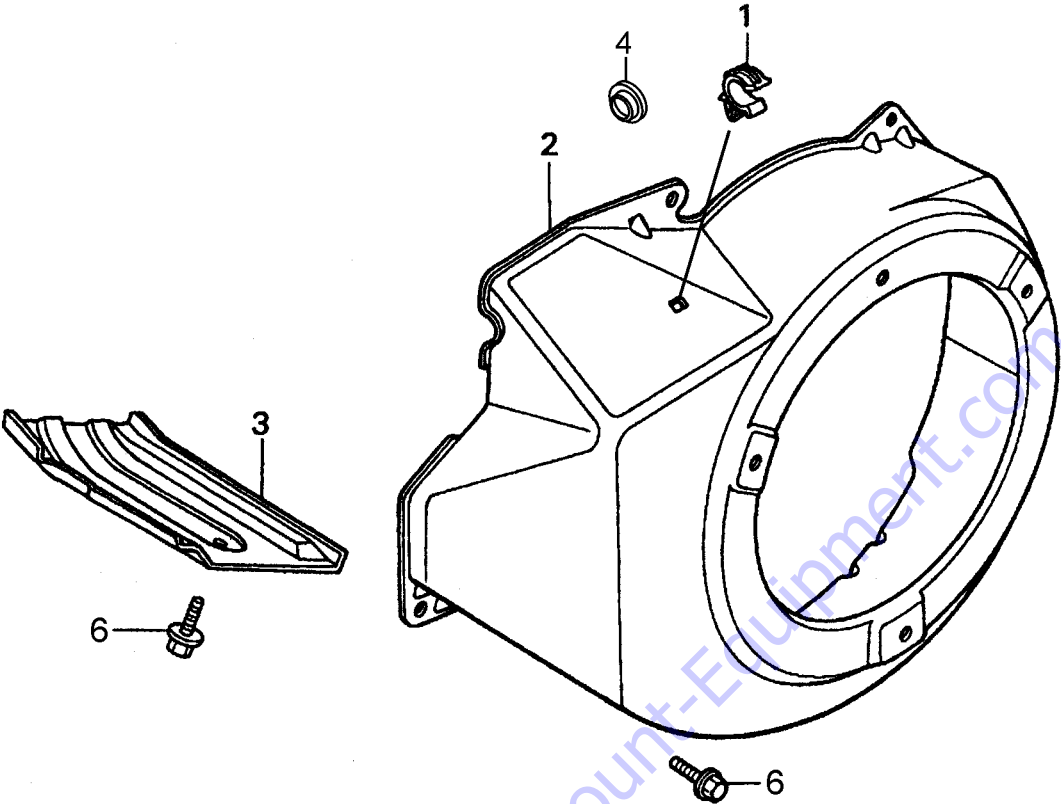
HONDA GX340UT2QAE2 RECOIL STARTER ASSY.



HONDA GX340UT2QAE2 RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400Z5T003ZA	STARTER ASSY., RECOIL, RED	1.....	INCLUDES ITEMS W/#
2#	28410ZE3W01ZP	CASE COMP., RECOIL STARTER, RED	1	
3#	28421ZE3W01	PULLEY, RECOIL STARTER	1	
4#	28422ZE2W01	RATCHET, STARTER	2	
5#	28441ZE2W01	SPRING, FRICTION	1	
6#	28442ZE2W01	SPRING, STARTER RETURN	1	
7#	28443ZE2W01	SPRING, RATCHET	2	
8#	28444ZE2W01	RETAINER, SPRING	1	
10#	28462ZV7003	ROPE, RECOIL STARTER	1.....	REPLACES P/N 28462ZE3W01
11#	90004ZE2W01	SCREW, CENTER	1	
12	90008ZE2003	BOLT, FLANGE 6X10	3	
13#	28461Z5T305	GRIP, STARTER	1	
14#	28463Z5T003	GRIP, REINFORCEMENT	1	

HONDA GX340UT2QAE2 FAN COVER ASSY.

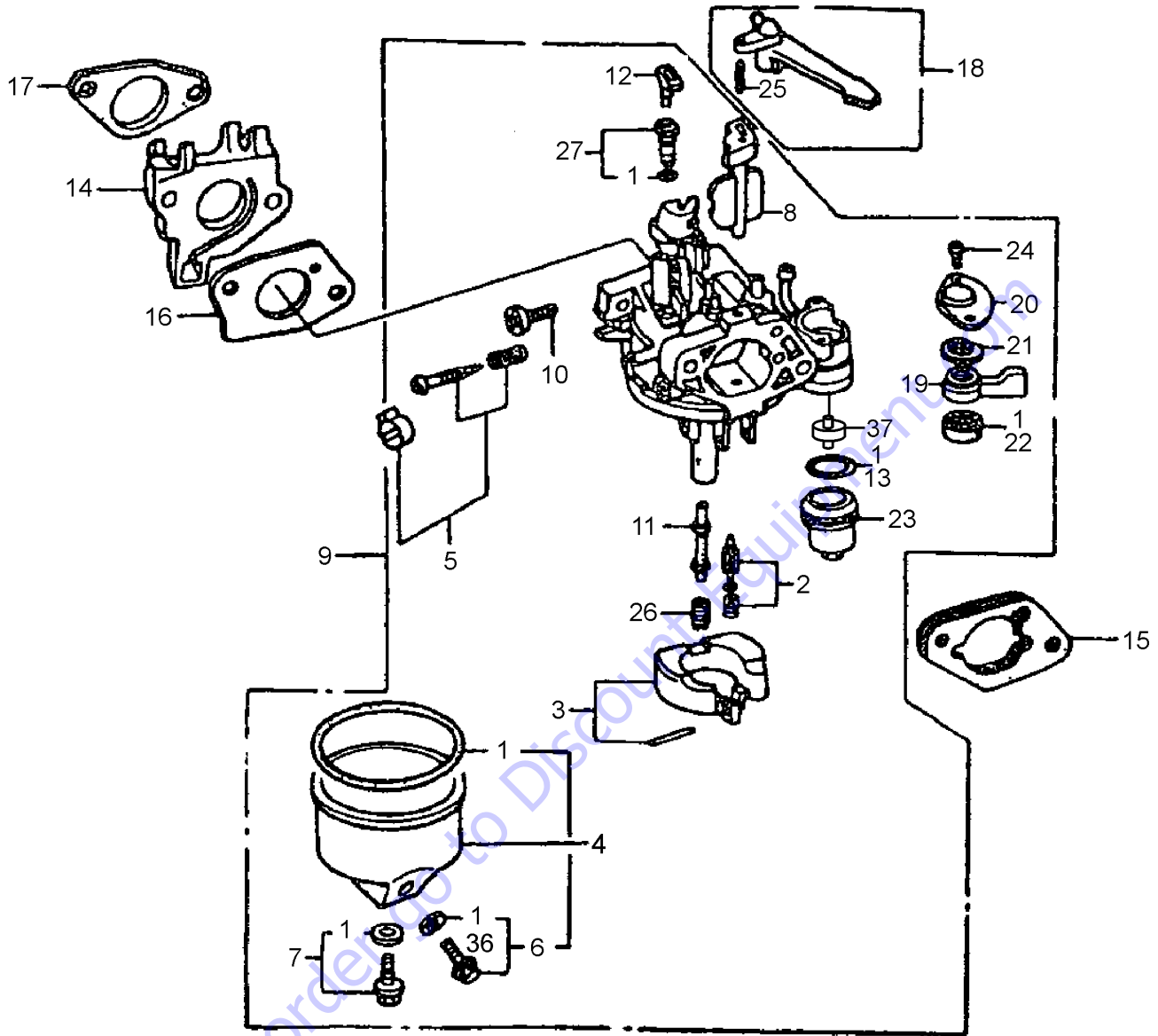


HONDA GX340UT2QAE2 FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16731ZE2003	CLIP, TUBE	1	
2	19610Z5T000ZA	COVER COMP., FAN, NH1, RED	1	
3	19631Z5T000	SHROUD	1	
4	81329567020	GROMMET, DRAIN HOLE	1	
6	90013883000	BOLT, FLANGE, 6X12	6	

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HONDA GX340UT2QAE2 CARBURETOR ASSY.



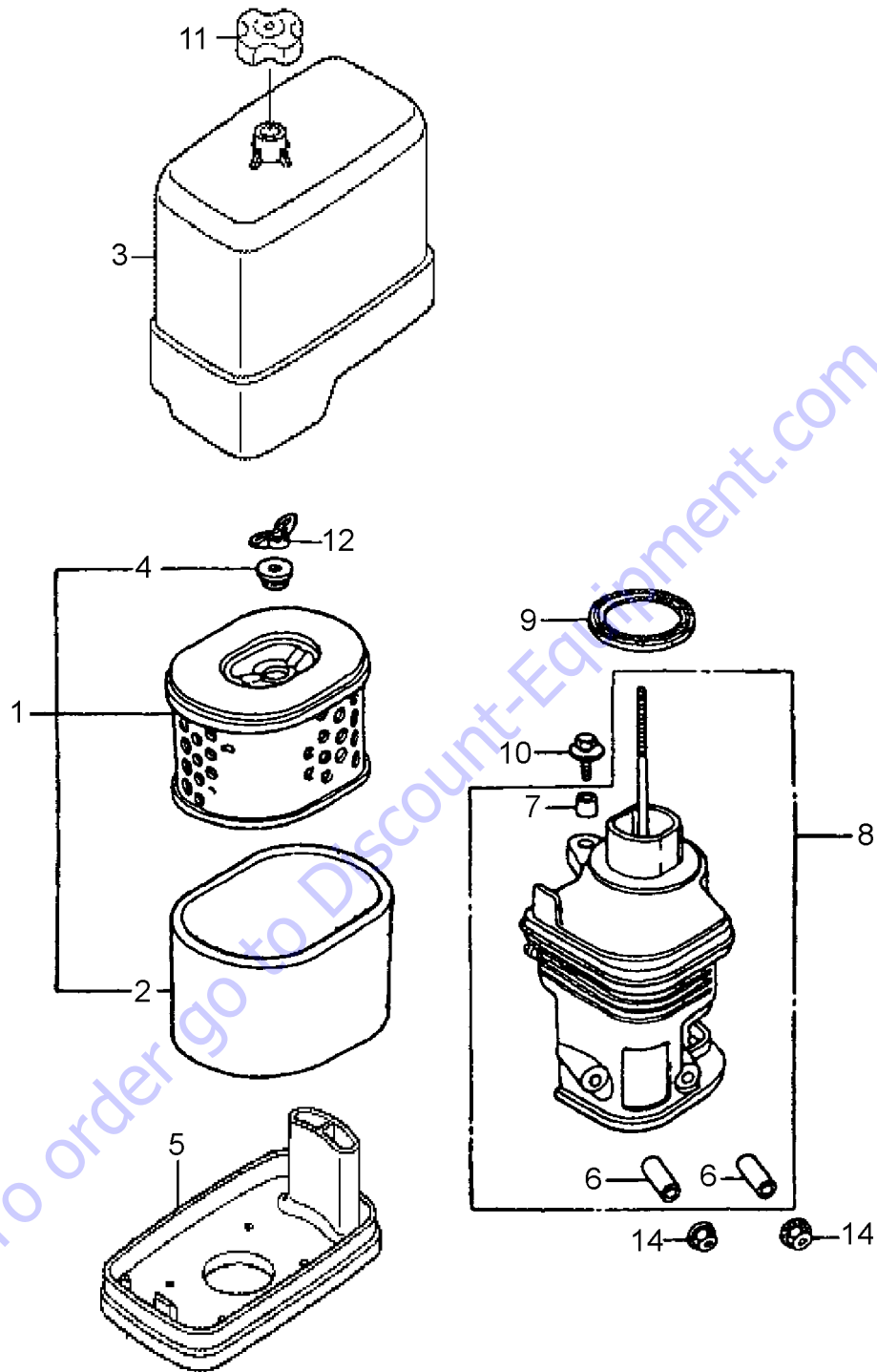
NOTICE

Gasket Set, item 1 included with items 6, 7, 13, 22, and 27.

HONDA GX340UT2QAE2 CARBURETOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	16010ZE2812	GASKET SET	1	
2#	16011ZA0931	VALVE SET, FLOAT	1	
3#	16013ZA0931	FLOAT SET	1	
4#	16015Z5T901	CHAMBER SET, FLOAT	1	
5#	16016ZH7W01	SCREW SET, PILOT	1	
6#	16024Z5T901	SCREW SET, DRAIN	1	
7#	16028Z5T901	SCREW SET	1	
8#	16044ZE3811	CHOKE SET	1	
9	16100Z8T911	CARBURETOR ASSY. (BE80M A)	1	INCLUDES ITEMS W/#
10#	16124ZE0005	SCREW, THROTTLE STOP	1	
11#	16166Z8T911	NOZZLE, MAIN	1	
12#	16172ZE3W10	COLLAR, SETTING	1	
13	16955283000	PACKING, FUEL STRAINER CUP	1	REPLACES P/N 16173001004
14	16211Z8T000	INSULATOR, CARBURETOR	1	
15	16220ZA0702	SPACER COMP., CARBURETOR	1	
16	16221Z8T000	PACKING, CARBURETOR	1	
17	16212Z5T000	PACKING, CARBURETOR INSULATOR	2	
18	16610ZE1000	LEVER COMP., CHOKE (STD.)	1	INCLUDES ITEMS W/\$
19#	16953ZE1812	LEVER, COCK	1	
20#	16954ZE1812	PLATE, LEVER SETTING	1	
21#	16956ZE1811	SPRING, COCK LEVER	1	
22#	16957ZE1812	PACKING, FUEL COCK	1	
23#	16967ZE0811	CUP, FUEL STRAINER	1	
24#	93500030060H	SCREW, PAN, 3X6	2	REPLACES P/N 93500030061H
25\$	9430520122	PIN, SPRING, 2X12	1	
26#	99101ZH80900	JET, MAIN, #90	1	
26#	99101ZH80950	JET, MAIN, #95	1	
26#	99101ZH80980	JET, MAIN, #98	1	
27#	99204ZE00380	JET SET, PILOT, #38	1	
36#	16141Z0S003	WASHER, FLAT	1	
37#	16959Z5T901	FILTER, CUP	1	

HONDA GX340UT2QAE2 AIR CLEANER ASSY.

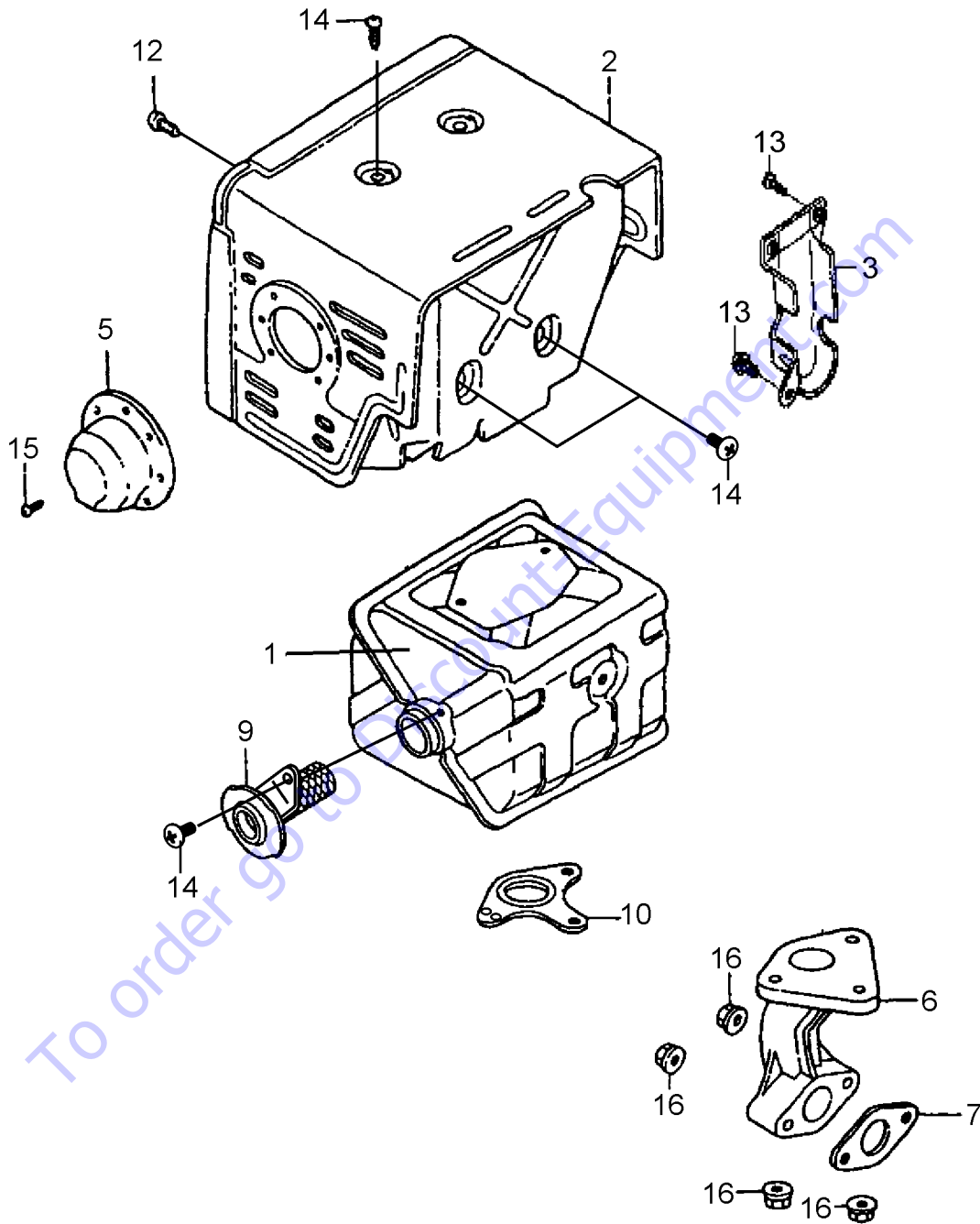


HONDA GX340UT2QAE2 AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	17210ZE3010	ELEMENT, AIR CLEANER	1.....	INCLUDES ITEMS W/#
2#	17218ZE3000	FILTER, OUTER	1.....	REPLACES P/N 17218ZE3000
3	17231Z5T000	COVER, AIR CLEANER CASE	1	
4#	17232891000	GROMMET, AIR CLEANER	1	
5	17235Z5T000	NOSE, SILENCER	1	
6%	17238ZE2310	COLLAR, AIR CLEANER	2	
7%	17239ZE1000	COLLAR B, AIR CLEANER	1	
8	17410Z5T000	ELBOW COMP., AIR CLEANER	1.....	INCLUDES ITEMS W/%
9	17417Z5T000	PACKING, AIR CLEANER CASE	1	
10	90009Z1C000	BOLT-WASHER, 6X22	1	
11	90202Z2E000	NUT, AIR CLEANER COVER	1	
12	90325044000	NUT, TOOL BOX SETTING	1	
14	9405006000	NUT, FLANGE, 6MM	2	

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HONDA GX340UT2QAE2 MUFFLER ASSY.

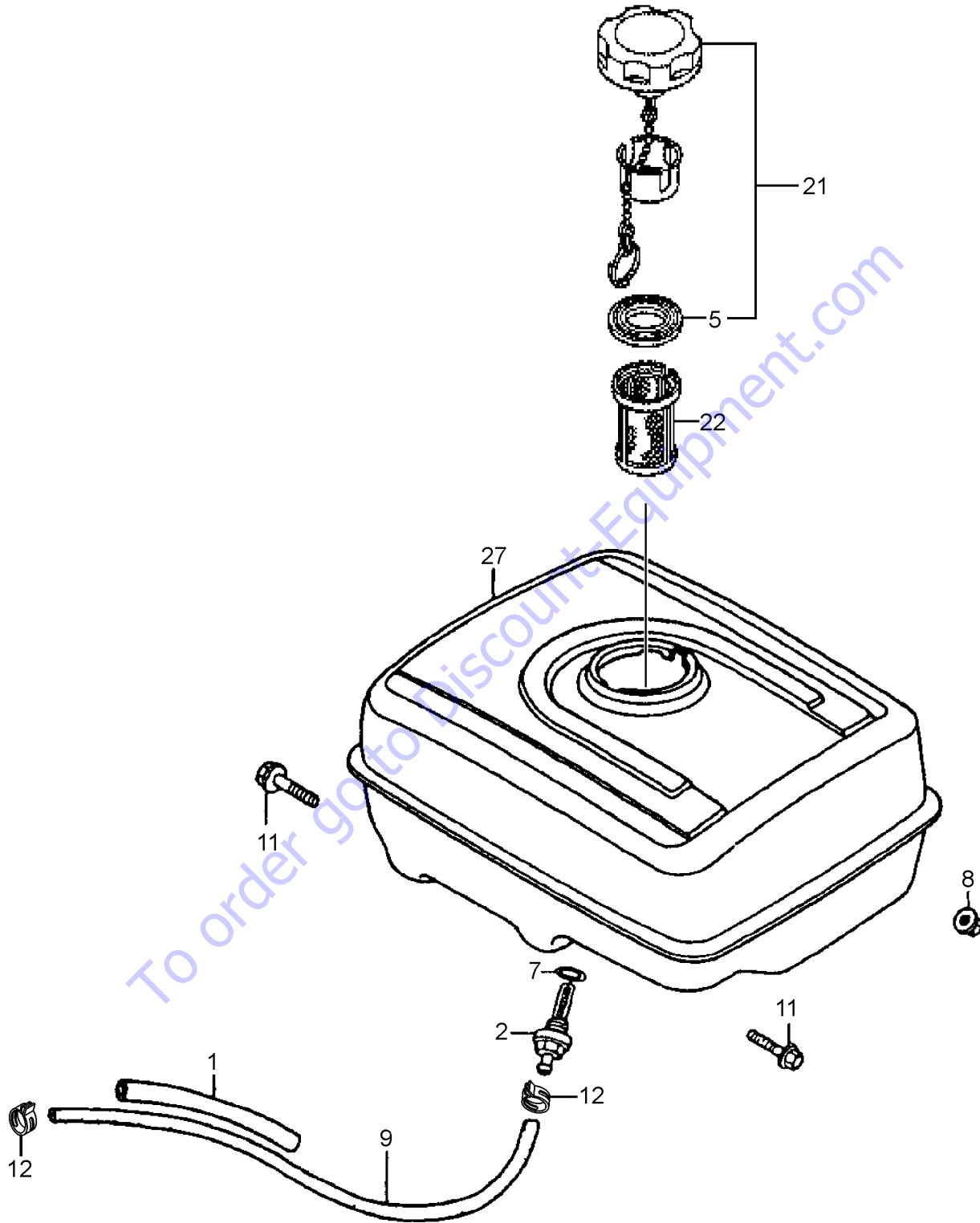


HONDA GX340UT2QAE2 MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18310Z5T000	MUFFLER COMP.	1	
2	18320Z5T000	PROTECTOR COMP., MUFFLER	1	
3	18323Z5TW40	PROTECTOR, EX. PIPE	1	
5	18331ZE3811	CAP, MUFFLER	1	
6	18331Z5T000	PIPE, EX.	1	
7	18333ZF6W01	GASKET, EX. PIPE	1	
9	18350Z5T800	ARRESTER COMP., SPARK	1	
10	18381ZE2W10	GASKET, MUFFLER (ARRESTER)	1	
12	90006ZE2000	SCREW, TAPPING, 6X10	1	
13	90013883000	BOLT, FLANGE, 6X12	1	
14	90050ZE1000	SCREW, TAPPING, 5X8	8	
15	90055ZE1000	SCREW, TAPPING, 4X6	3	
16	9405008000	NUT, FLANGE, 8MM	5	

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HONDA GX340UT2QAE2 FUEL TANK ASSY.

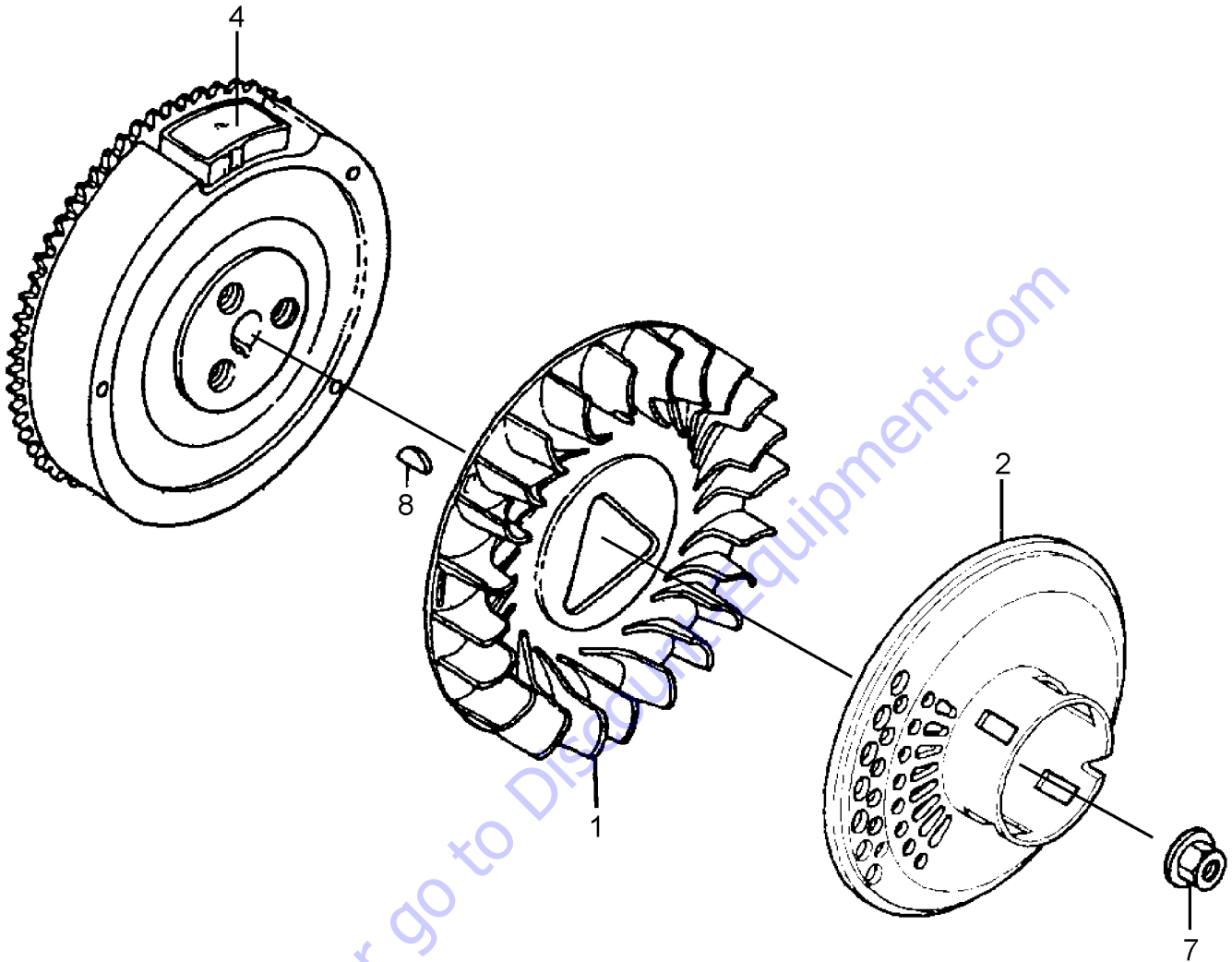


HONDA GX340UT2QAE2 FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16854ZH8000	RUBBER, SUPPORTER (107MM)	1	
2	16955ZE1010	JOINT, FUEL TANK	1	
5 #	17631Z0T801	PACKING, FUEL FILL. CAP	1	
7	91353671003	O-RING, 14MM	1	REPLACES P/N 91353671004
8	9405008000	NUT, FLANGE, 8MM	2	
9	91424Z5T003	TUBE, FUEL, 4.5X235	1	
11	957010802500	BOLT, FLANGE, 8X25	2	
12	950024080008	CLAMP, TUBE (D8)	2	
21	17620Z4H030	CAP COMP., FUEL FILL. (CHROME PLT.)	1	INCLUDES ITEM W/#
22	17672Z4H000	FILTER, FUEL	1	
27	17510Z5T000ZB	TANK COMP., FUEL, WHITE	1	

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HONDA GX340UT2QAE2 FLYWHEEL ASSY.

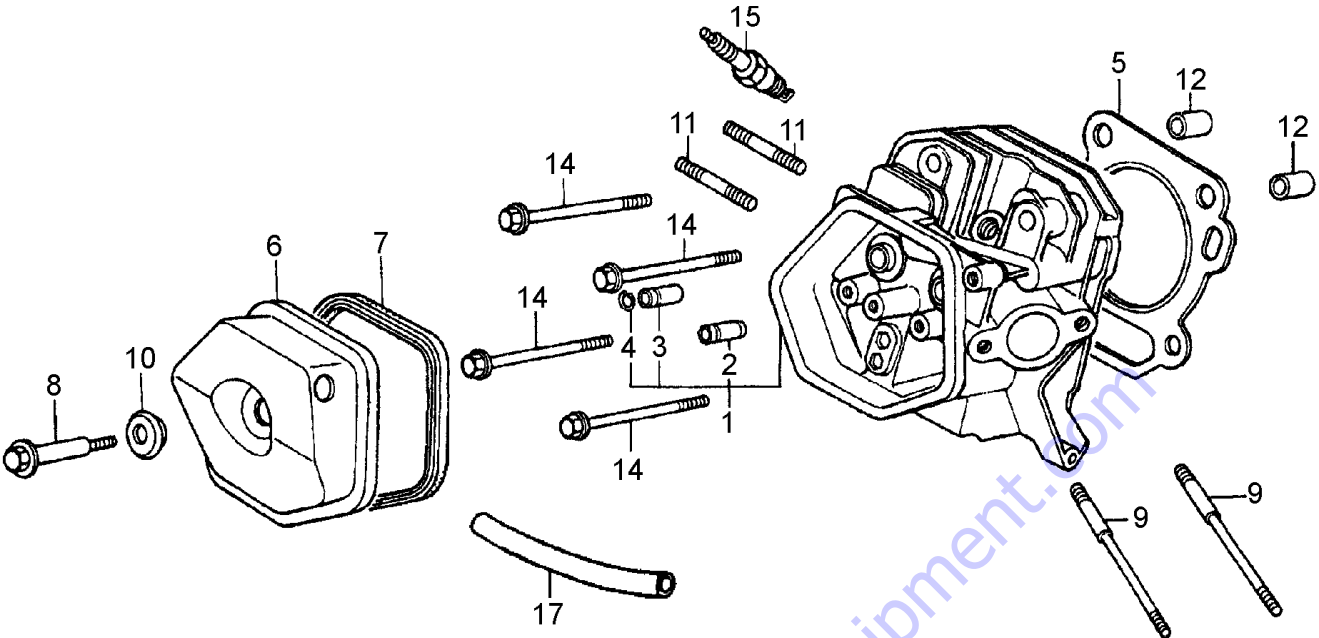


HONDA GX340UT2QAE2 FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	19511ZE3000	FAN, COOLING	1	
2	28450ZE3W11	PULLEY COMP., STARTER	1	
4	31110Z5T840	FLYWHEEL COMP.	1	
7	90201ZE3790	NUT, SPECIAL, 16MM	1	
8	90741ZE2000	KEY, SPECIAL WOODRUFF, 25X18	1	

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HONDA GX340UT2QAE2 CYLINDER HEAD ASSY.

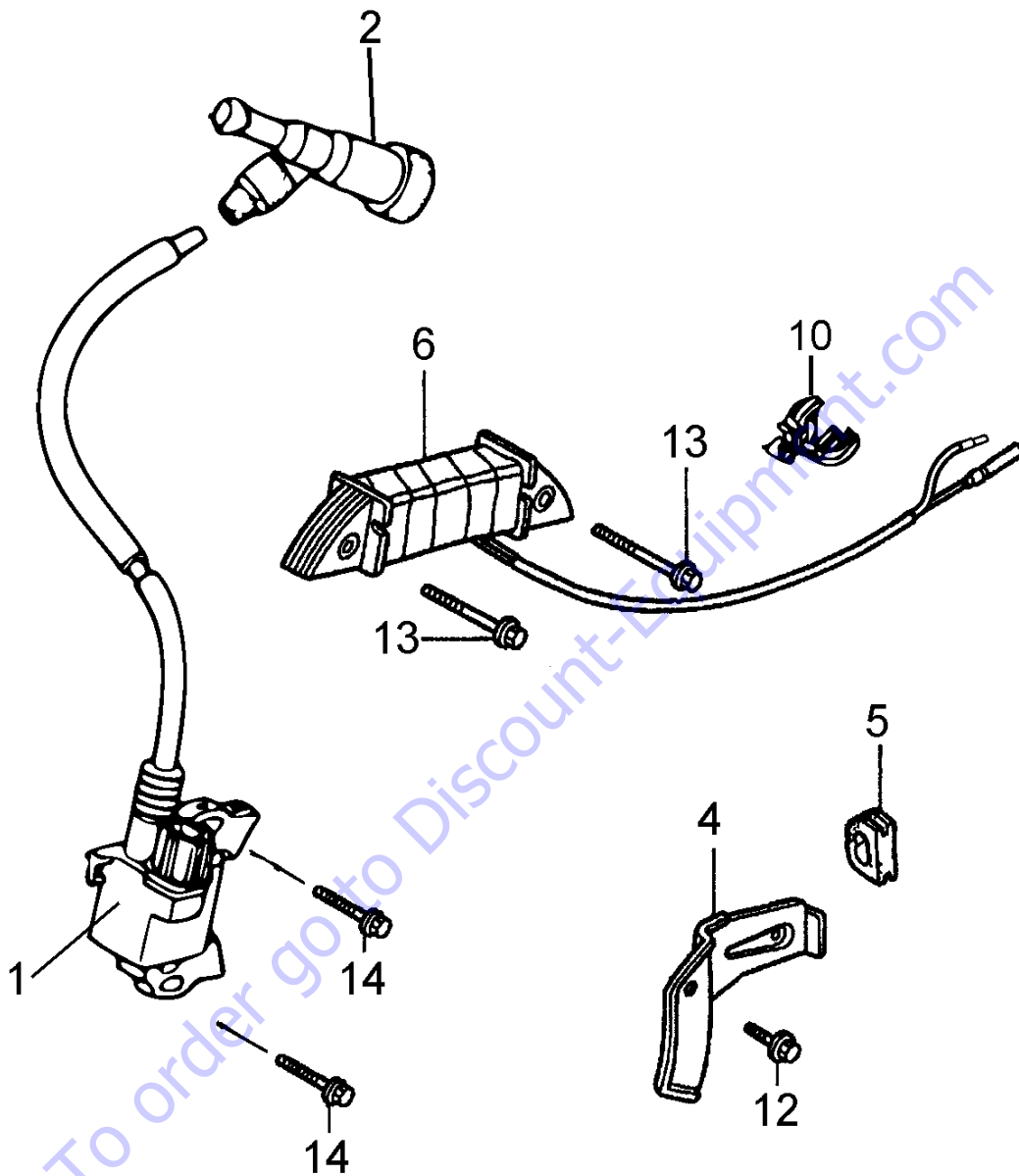


HONDA GX340UT2QAE2 CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12210Z5K416	HEAD COMP., CYLINDER	1.....	INCLUDES ITEMS W/#
2#	12204ZE2306	GUIDE, IN. VALVE (O.S.)	1	
3#	12205ZE2305	GUIDE, EX. VALVE (O.S.)	1	
4#	12216ZE2300	CLIP, VALVE GUIDE	1	
5	12251Z5T003	GASKET, CYLINDER HEAD	1	
6	12310ZE2020	COVER COMP., HEAD	1	
7	12391ZE2020	PACKING, HEAD COVER	1	
8	90014Z5T000	BOLT, HEAD COVER	1	
9	90042ZE8000	BOLT, STUD, 8X131.5	2	
10	90441ZE2010	WASHER COMP., HEAD COVER	1	
11	92900080320E	BOLT, STUD, 8X32	2	
12	9430112200	DOWEL PIN, 12X20	2	
14	957011008000	BOLT, FLANGE, 10X80	4	
15	9807955846	PLUG, SPARK (BPR5ES)	1	
15	98079555855	PLUG, SPARK (W16EPR-U)	1	
17	12357Z5T020	TUBE, BREATHER	1	

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HONDA GX340UT2QAE2 IGNITION COIL ASSY.

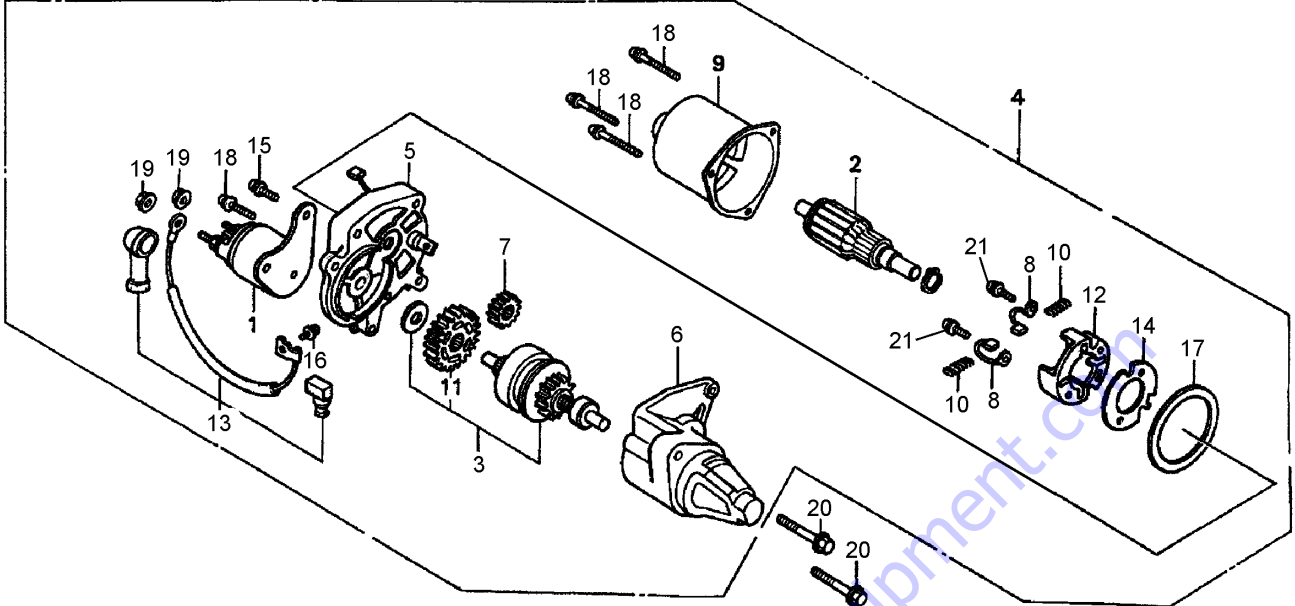


HONDA GX340UT2QAE2 IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30500Z5T003	COIL ASSY., IGNITION	1	
2	30700-Z1C811	CAP ASSY., NOISE SUPPRESSOR	1	
4	31511ZE3000	CLAMPER, CORD	1	
5	31512ZE2000	GROMMET, CORD	1	
6	31630ZE2842	COIL ASSY., CHARGE (3A)	1	
10	36103ZE1000	HOLDER, STOP SWITCH CORD	1	
12	90013883000	BOLT, FLANGE, 6X12	1	
13	90012888000	BOLT, FLANGE, 6X40	2	
14	90015883000	BOLT, FLANGE, 6X28	2	

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HONDA GX340UT2QAE2 STARTER MOTOR ASSY.



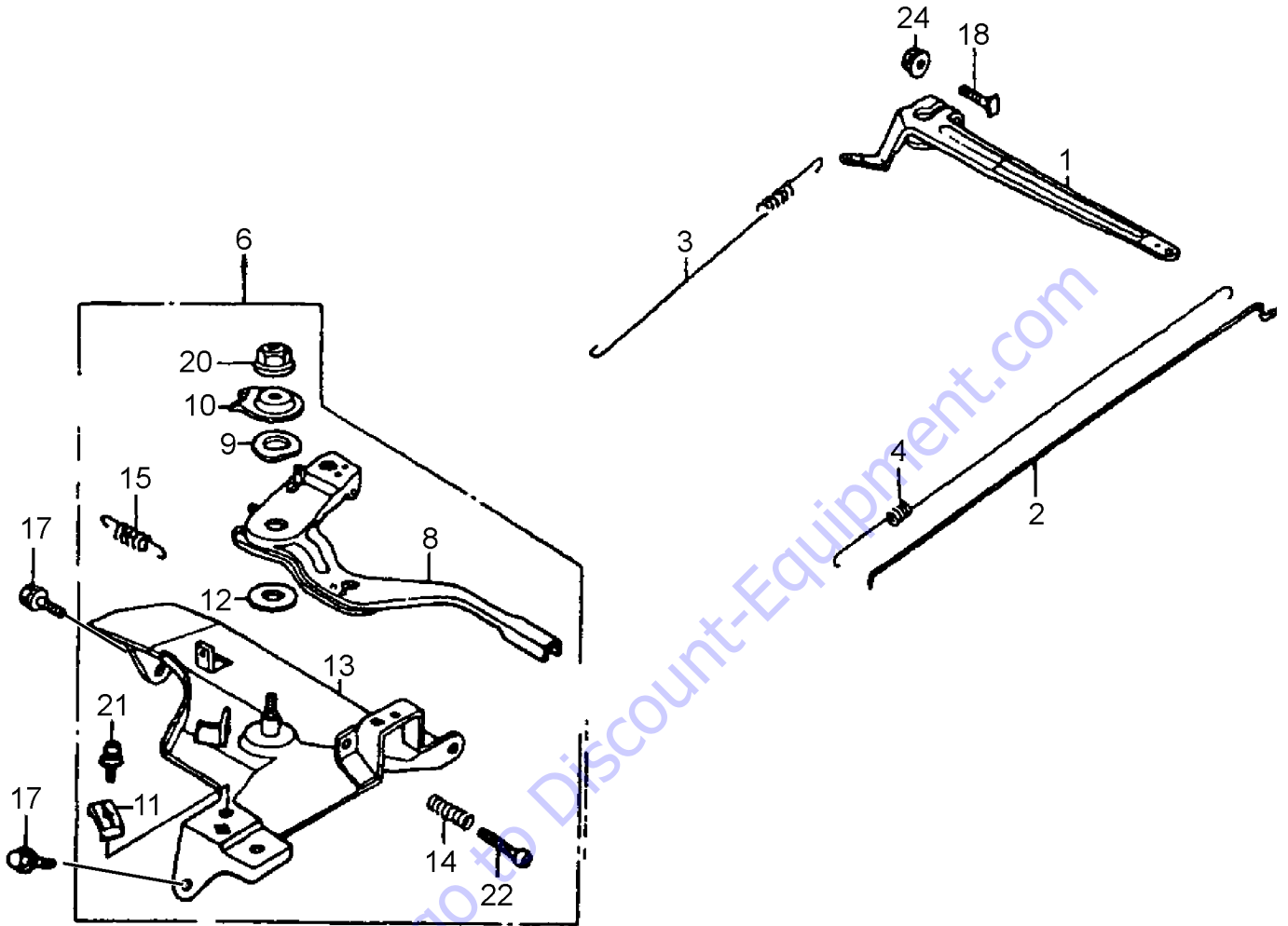
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HONDA GX340UT2QAE2 STARTER MORTOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1\$	31204ZA0003	CONTACTOR ASSY.	1	
2\$	31206ZE3003	ARMATURE COMP	1	
3\$	31207ZE3003	CLUTCH COMP., OVERRUNNING	1	INCLUDES ITEMS W/%
4	31210ZE3023	MOTOR UNIT, STARTER	1	INCLUDES ITEMS W/\$
5\$	31211ZE2003	BRACKET, CENTER	1	
6\$	31212ZE3003	BRACKET, FR.	1	
7\$	31213ZE2003	GEAR, DRIVE PINION	1	
8\$	31215ZE2003	BRUSH	2	
9\$	31218ZE3003	YOKE COMP	1	
10\$	31219ZE2003	SPRING, BRUSH RETURN	4	
11\$%	31222ZE3791	GEAR, REDUCTION	1	
12\$	31231ZE2003	HOLDER, BRUSH	1	
13\$	31232ZE3003	WIRE, WATER COVER	1	
14\$	31233ZE2003	INSULATOR	1	
15\$	90007ZE2003	BOLT, WASHER 5X14	2	
16\$	90110ZE2003	SCREW, WASHER 4X6	1	
17\$	91601ZE2003	PACKING	1	
18\$	938920503218	SCREW, WASHER 5X32	4	
19\$	9407006080	NUT, WASHER 6MM	2	
20	957010803508	BOLT, FLANGE 8X35	2	
21\$	31219ZE3003	SCREW, WASHER 4X14	2	

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HONDA GX340UT2QAE2 CONTROL ASSY.

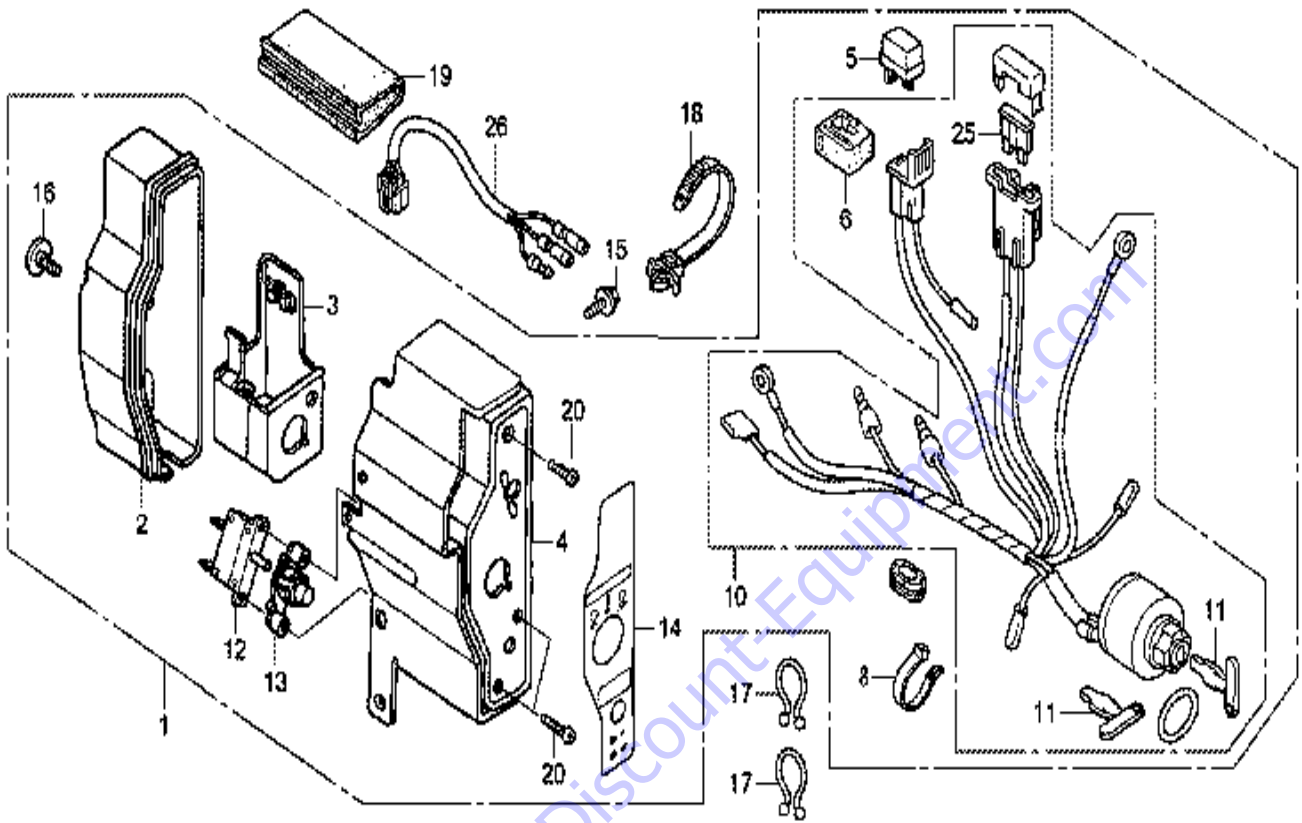


HONDA GX340UT2QAE2 CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16551ZE3000	ARM, GOVERNOR	1	
2	16555ZE3000	ROD, GOVERNOR	1	
3	16561ZE3000	SPRING, GOVERNOR (L=137.5MM)	1	
4	16562ZE3000	SPRING, THROTTLE RETURN	1	
6	16500Z5T307	CONTROL ASSY. (REMOTE)	1	INCLUDES ITEMS W/#
8#	16571ZE2W00	LEVER, CONTROL	1	
9#	16574ZE1000	SPRING, LEVER	1	
10#	16575ZE2W00	WASHER, CONTROL LEVER	1	
11#	16576891000	HOLDER, CABLE	1	
12#	16578ZE1000	SPACER, CONTROL LEVER	1	
13#	16580Z5T000	BASE COMP., CONTROL	1	
14#	16584883300	SPRING, CONTROL ADJUSTING	1	
15#	16592883310	SPRING, CABLE RETURN	1	
17	90013883000	BOLT, FLANGE, 6X12	2	
18	90015Z5T000	BOLT, GOVERNOR ARM	1	
20#	90114SA0000	NUT, SELF-LOCK, 6MM	1	
21#	0202005T125	SCREW, PAN, 5X16	1	REPLACES P/N 93500050160A
22#	93500050320A	SCREW, PAN, 5X32	1	
24	9405006000	NUT, FLANGE, 6MM	1	

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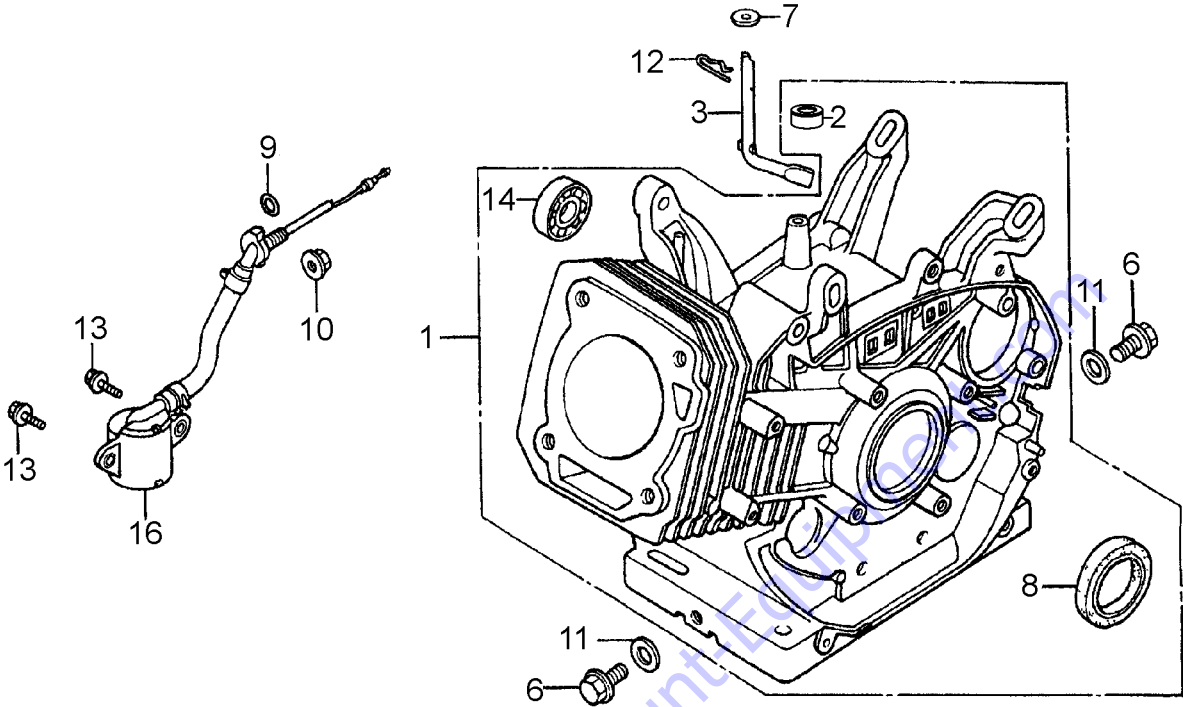
HONDA GX340UT2QAE2 CONTROL BOX ASSY.



HONDA GX340UT2QAE2 CONTROL BOX ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	31610Z5T821ZB	BOX ASSY., CONTROL (3A) RED	1.....	INCLUDES ITEM W/#
2#	31612ZE2003	CASE, CONTROL	1	
3#	31614ZE2003	BRACKET, CASE MOUNTING	1	
4#	31615ZE3003ZE	PANEL COMP., CONTROL RED	1	
5#	31700124008	RECTIFIER ASSY.	1	
6#	32127738700	SUSPENSION, COUPLER	1	
8#	32902892003	BAND	1	
10#	35100Z5T821	SWITCH ASSY., COMB. (3A-CHARGE)	1.....	INCLUDES ITEM W/\$
11#	35111880013	KEY COMP.	2	
12#	38240ZE2840	PROTECTOR, CIRCUIT (3.5A)	1	
13#	38250ZA8701	LENS ASSY., PROTECTOR	1	
14#	87529Z4T840	MARK, CONTROL BOX	1	
15	90013883-000	BOLT, FLANGE, 6X12	2	
16#	90380MA6-010	SCREW, SPECIAL, 6X12	1	
17	90630751000	CLIP, PURSE LOCK	2	
18	90672SA0003	STRAP, CABLE, 118MM (BLACK)	1	
19	91406ZE2003	TUBE, FASTENER, 30MM	1	
20#	93500030120H	SCREW, PAN, 3X12	2	
25#	9820030500	FUSE, BLADE (5A)	1	
26	32110Z5T810	HARNESS ASSY., ENGINE WIRE	1	

HONDA GX340UT2QAE2 CYLINDER BARREL ASSY.

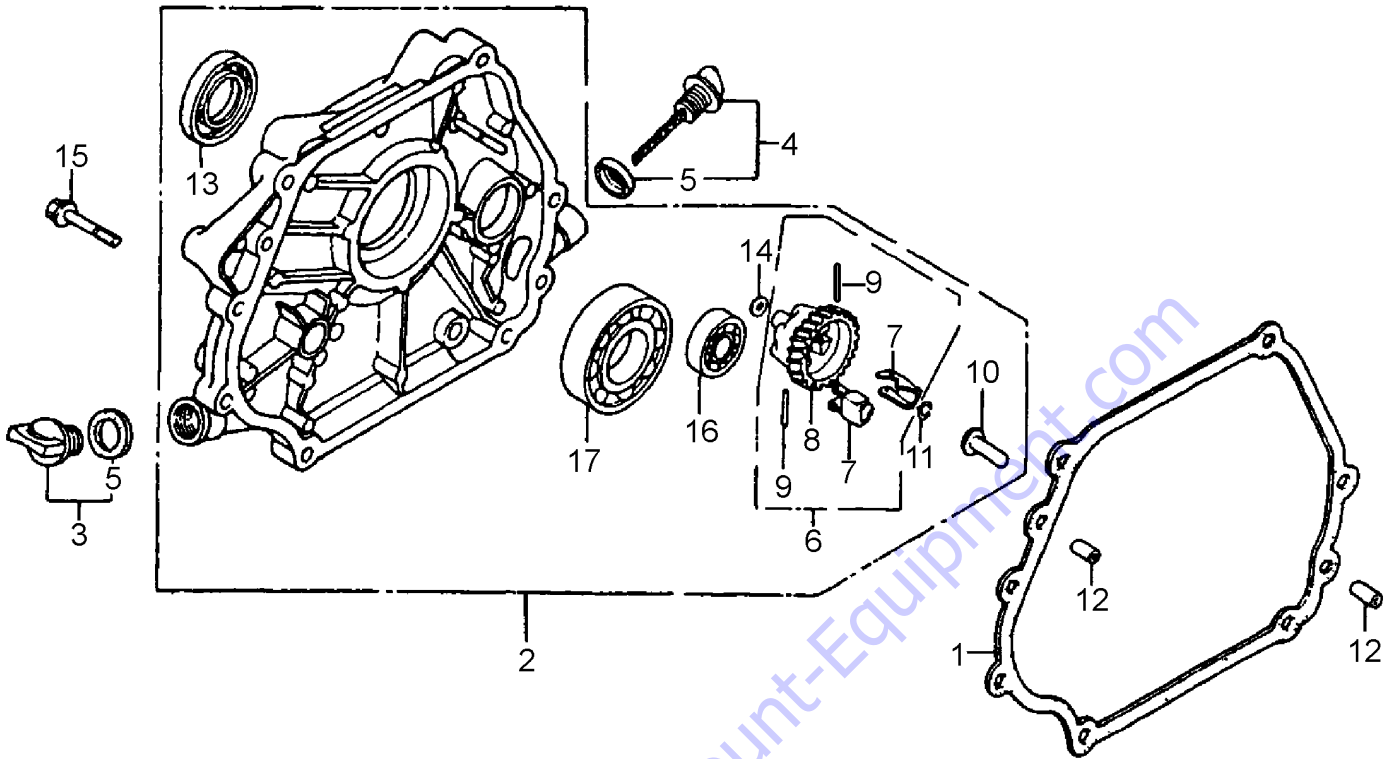


HONDA GX340UT2QAE2 CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12000Z5T405	BARREL ASSY., CYLINDER	1.....	INCLUDES ITEMS W/#
2#	91203952771	OIL SEAL, 8X14X5	1	
3	16541ZE3010	SHAFT, GOVERNOR ARM	1	
6	90131896650	BOLT, DRAIN PLUG, 12X15	2.....	REPLACES P/N 90131883000
7	90446KE1000	WASHER, 8.2X17X0.8	1	
8#	91201Z1C003	OIL SEAL, 35X52X8	1	
9	91353671004	O-RING, 14MM	1.....	REPLACES P/N 91353671004
10	9405010000	NUT, FLANGE, 10MM	1	
11	031112230	WASHER, DRAIN PLUG, 12MM	2.....	REPLACES P/N 9410912000
12	9425110000	PIN, LOCK, 10MM	1	
13	957010601200	BOLT, FLANGE, 6X12	2	
14#	961006202000	BEARING, RADIAL BALL, 6202	1	
16	35480ZF6003	SWITCH ASSY., OIL LEVEL	1	

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HONDA GX340UT2QAE2 CRANKCASE COVER ASSY.

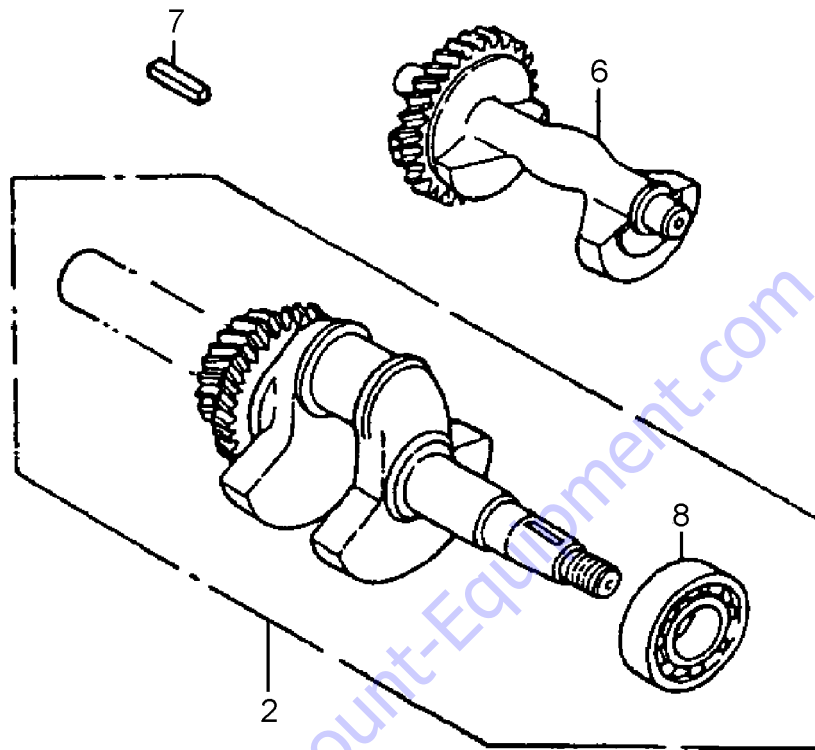


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HONDA GX340UT2QAE2 CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11381Z5T000	PACKING, CASE COVER	1	
2	11300Z1C600	COVER ASSY., CRANKCASE	1	INCLUDES ITEMS W/#
3	15600Z0T820	CAP ASSY., OIL FILLER	1	INCLUDES ITEMS W/%
4	15600Z1C000	CAP ASSY., OIL FILLER	1	INCLUDES ITEMS W/\$
5%\$	15625Z0T800	PACKING, OIL FILLER CAP	2	
6#	16510ZE3000	GOVERNOR ASSY.	1	INCLUDES ITEMS W/@
7#@	16511ZE2000	WEIGHT, GOVERNOR	2	
8#@	16512ZE3000	HOLDER, GOVERNOR WEIGHT	1	
9#@	16513ZE2000	PIN, GOVERNOR WEIGHT	2	
10#	16531Z0A000	SLIDER, GOVERNOR	1	
11#	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
12	90701HC4000	DOWEL PIN, 8X12	2	
13#	91201Z1C003	OIL SEAL, 35X52X8	1	
14#	58176	WASHER, FLAT 6MM	1	REPLACES P/N 9410106800
15	957010804000	BOLT, FLANGE, 8X40	7	
16#	961006202000	BEARING, RADIAL BALL, 6202	1	
17#	961006207000	BEARING, RADIAL BALL, 6207	1	

HONDA GX340UT2QAE2 CRANKSHAFT ASSY.

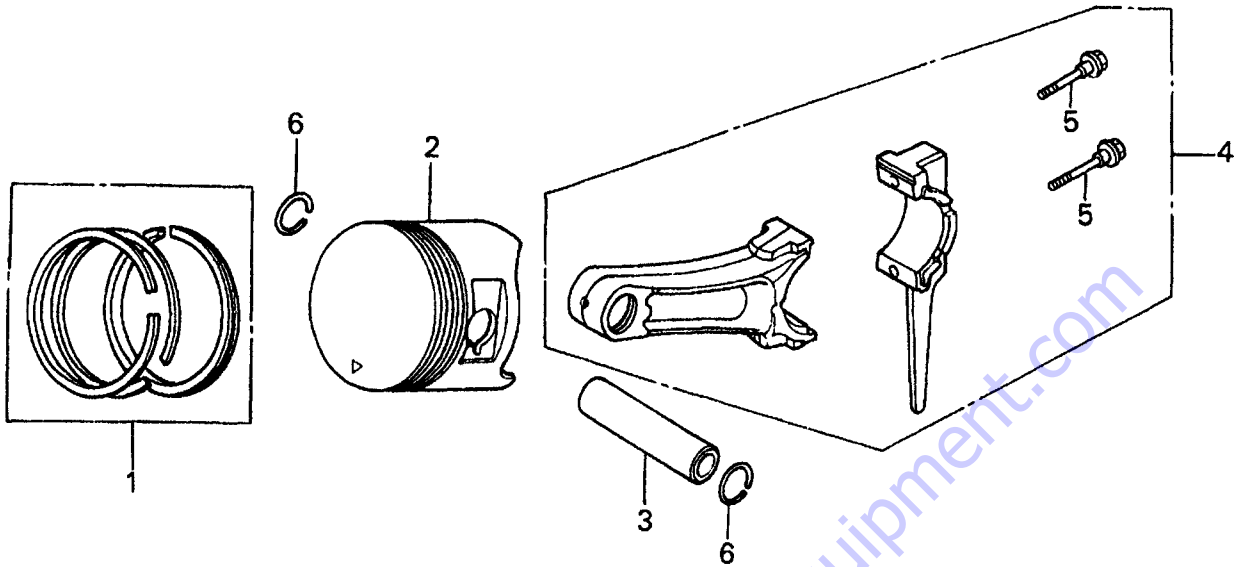


HONDA GX340UT2QAE2 CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	13310ZF6W12	CRANKSHAFT COMP.	1.....	INCLUDES ITEM W/#
6	13351ZE3010	WEIGHT, BALANCER	1	
7	90745ZE2600	KEY, 6.3X6.3X43	1	
8#	91001ZF6013	BEARING, RADIAL BALL	1	

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HONDA GX340UT2QAE2 PISTON ASSY.

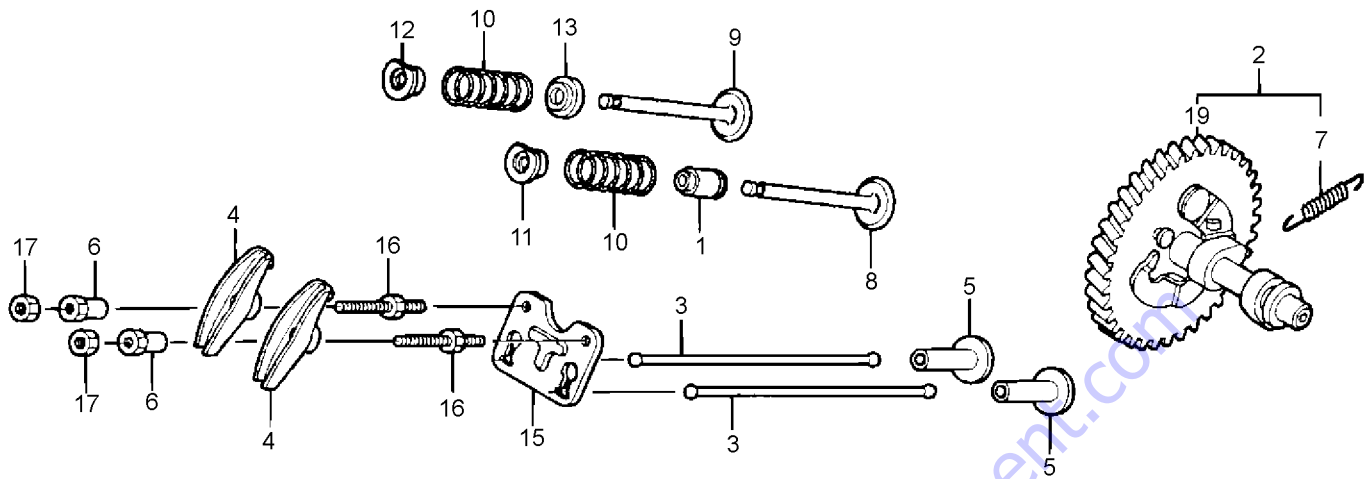


HONDA GX340UT2QAE2 PISTON ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010Z5R004	RING SET, PISTON (STD.)	1	
1	13011Z5R004	RING SET, PISTON (0.25)	1	
1	13012Z5R004	RING SET, PISTON (0.50)	1	
1	13013Z5R004	RING SET, PISTON (0.75)	1	
2	13101Z5T000	PISTON (STD.)	1	
2	13102Z5T000	PISTON (0.25)	1	
2	13103Z5T000	PISTON (0.50)	1	
2	13104Z5T000	PISTON (0.75)	1	
3	13111Z5T000	PIN, PISTON	1	
4	13200Z1C000	ROD ASSY., CONNECTING (STD.)	1	INCLUDES ITEMS W/#
4	13200Z1C305	ROD ASSY., CONNec. (0.25 UNDER SIZE)	1	INCLUDES ITEMS W/#
5#	90001ZE8000	BOLT, CONNECTING ROD	2	
6	90601ZE3000	CLIP, PISTON PIN, 18MM	2	

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HONDA GX340UT2QAE2 CAMSHAFT ASSY.



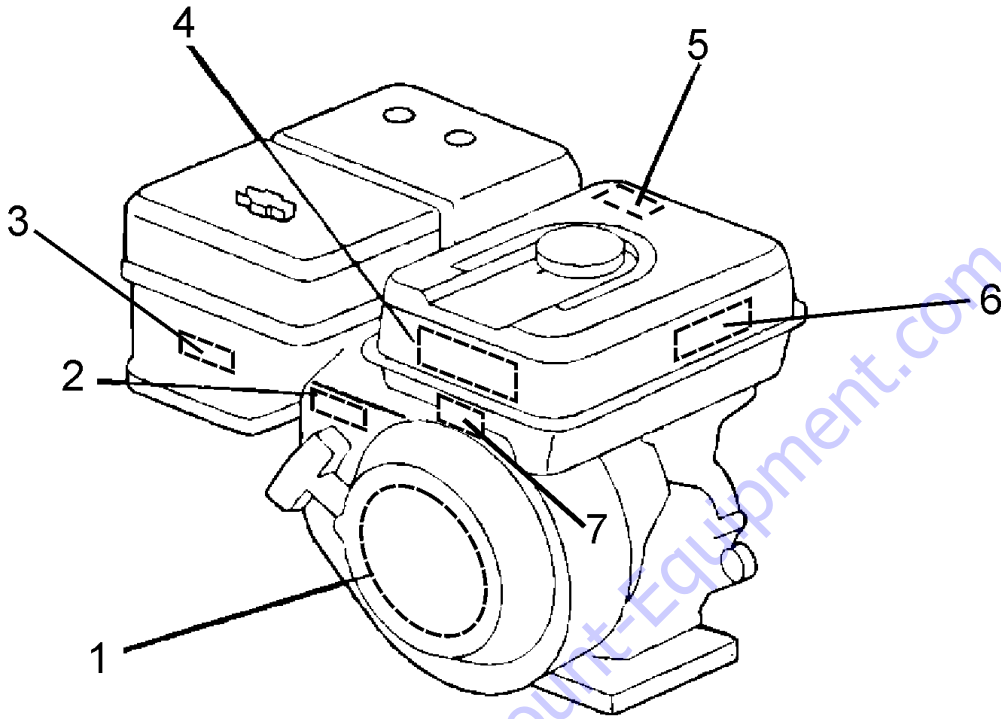
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HONDA GX340UT2QAE2 CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12209ZE8003	SEAL, VALVE STEM	1	
2	14100Z5K810	CAMSHAFT ASSY.....	1	INCLUDES ITEMS W/#
3	14410Z1C000	ROD, PUSH	2	
4	14431ZE2010	ARM, VALVE ROCKER	2	
5	14441ZE2000	LIFTER, VALVE	2	
6	14451ZE1013	PIVOT, ROCKER ARM	2	
7#	14568ZE1000	SPRING, WEIGHT RETURN	1	
8	14711Z5T000	VALVE, IN.	1	
9	14721Z5T000	VALVE, EX.	1	
10	14751Z1C000	SPRING, VALVE	2	
11	14771Z8S000	RETAINER, IN. VALVE SPRING	1	
12	14771Z8S000	RETAINER, IN. VALVE SPRING	1	
13	14775ZE2010	SEAT, VALVE SPRING	1	
15	14791Z1D000	GUIDE, PUSH ROD	1	
16	90012ZE0010	BOLT, PIVOT, 8MM	2	
17	90206ZE1000	NUT, PIVOT ADJUSTING	2	
19#	14100Z5K910	CAMSHAFT COMP.	1	

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HONDA GX340UT2QAE2 LABEL ASSY.



HONDA GX340UT2QAE2 LABEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	87521Z8T000	EMBLEM (GX340)	1	
2	87532ZH7000	MARK, THROTTLE INDICATION	1	
3	87528Z5T000	MARK, CHOKE	1	
4	87519Z4H000	MARK, OPERATOR CAUTION	1	
5	87539Z0J000	MARK, EX, CAUTION	1	
6	87516Z4H010	MARK, OPERATOR CAUTION	1	
7	87539Z0J800	MARK, EX. CAUTION	1	

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