

554930 LAWNAIRE ZTS FS541V KAW (Starting S/N 0000 to 0222)



OPERATOR'S MANUAL 4172870

MAN 4172871 Rev. A 02-2016

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CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

Californie Proposition 65 Avertissement

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

A WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

A AVERTISSEMENT

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

California Advertencia de la Proposicion 65

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

A ADVERTENCIA

El estado de California hace saber que los gases de escape de este producto contienen productos quÍmicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

CALIFORNIA Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **WASH HANDS AFTER HANDLING.**



IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class aerating product, one of the best designed and built anywhere.

This machine comes with an Operation and Safety Manual and a separate Setup, Parts and Maintenance Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand these manuals. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Schiller Grounds Care, Inc. product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manuals thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manuals, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Schiller Grounds Care, Inc. One Bob Cat Lane Johnson Creek, WI 53038-0469

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| DECALS | | | |
| | DECALS | FIGURE 16 | |
| | | | |



NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc.Engineering Department. Any Schiller Grounds Care, Inc.product that is altered, modified or changed in any manner not specifically authorized after original manufacture-including the addition of "after-market" accessories or component parts not specifically approved by Schiller Grounds Care, Inc.-will result in the Schiller Grounds Care, Inc.Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc.will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc.will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.



iLEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.





This symbol means: ATTENTION! BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc.machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

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

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

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

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage

MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your unit. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information. Located behind rider pad on frame of unit.



MAINTENANCE SAFETY IN GENERAL

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine.
- Adjust or repair only after the engine has been stopped and the tines have stopped rotating.
- Guards should only be removed by a qualified technician for maintenance or service. Replace when work is complete.
- Replace parts if worn, damaged or faulty.
 For best results, always replace with parts recommended by the manufacturer.
- Disconnect battery or remove spark plug wire(s) before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect positive first and negative last.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up oil or fuel spillage thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, battery compartment and fuel storage area free of grass, leaves, debris buildup or grease.

Tines

 Tines are sharp and can cut. Use extra caution when handling. Wear appropriate personal protective equipment.



FUEL

- Gasoline and diesel fuels are flammable; gasoline vapors are explosive. Use extra care when handling.
- Store only in containers specifically designed for fuel.
- When refueling or checking fuel level:
 - Stop the engine and allow to cool;
 - Do not smoke;
 - Refuel outdoors only;
 - Use a funnel;
 - Do not overfill;
 - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.

Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

- Keep fuel containers electrically grounded.
- Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove gas powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lock-open device
- Replace caps on fuel cans and tanks securely.





BATTERY

Battery acid is caustic and fumes are explosive and can cause serious injury or death.

To reduce the risk of personal injury when working near a battery:

- Use protective equipment such as, but not limited to, goggles, face shield, rubber gloves and apron when working with battery acid.
- Avoid leaning over a battery.
- Do not expose a battery to open flames or sparks.
- Be sure batteries with filler caps are properly filled with fluid.
- Do not allow battery acid to contact eyes or skin.
 Flush any contacted area with water immediately and get medical help.
- Charge batteries in an open, well ventilated area, away from sparks and flames. Unplug charger before connecting or disconnecting from battery.
- Your unit is factory equipped with an AGM type battery . An AGM type battery charger should be used on these when charging.

STORAGE SAFETY

- Stop the engine and allow to cool before storing.
- Drain the fuel tank outdoors only.
- Store fuel in an approved container in a cool, dry place.
- Keep the machine and fuel containers in a locked storage place to prevent tampering and to keep children from playing with them.
- Do not store the machine or fuel container near heating appliances with an open flame such as a water heater or an appliance with a pilot light.
- Keep gasoline storage area free of grass, leaves and excessive grease to reduce fire hazard.
- Clean grass and debris from aerating units, drives, mufflers and engine to help prevent fires.

JUMP STARTING

- 1. Be sure the jumper cables are in good condition. Turn off the ignition and all electrical accessories on both machines.
- 2. Position the machine with a good (charged) battery next to but not touching the machine with the dead battery so jumper cables will reach.
- 3. When making cable connections:
 - make sure the clamps do not touch anywhere except to intended metal parts,
 - Never connect a positive ("+" or red) terminal to a negative ("–" or black) terminal.
 - Make sure the cables won't get caught in any parts after the engines are started.
- 4. Connect one end of the first jumper cable to the **positive** terminal on one battery. Connect the other end to the **positive** terminal on the other battery.
- 5. Connect one end of the other cable to the **negative** terminal of the machine with a good (charged) battery. Make the final connection on the engine of the machine to be started, away from the battery.
- 6. Start the vehicle with the good battery, then the machine with the discharged battery.
- 7. Remove the cables in the exact reverse order of installation. When removing each clamp, take care it does not touch any other metal parts while the other end remains attached.





ASSEMBLY / SET UP INSTRUCTIONS

- 1. READ THE OPERATOR'S MANUAL BEFORE ASSEMBLY.
- 2. Remove the brackets securing the machine to the pallet. Reinstall the caster axle nuts. Tighten the nuts. Fill tires at pressure at 15 psi on the rear tires and 25 psi on the front tires.
- 3. Lower the operator platform.
- 4. Open the rear panel and connect the ground wire to the battery.
- Check the oil level in both the engine and the hydraulic tank, top off if necessary. Use 10w30 oil for the engine.

Use 15w50 or 20w50 motor oil for the hydraulic tank.

- 6. Fill the fuel tank with fresh clean regular grade gasoline. Open the fuel valve.
- 7. Start the machine and drive it off the pallet.

| MAINTENANCE | | nce is an on enance opera | | | | | | | | | | | | |
|---|--|----------------------------------|----------------------|----------------------|-----------------------|-----------------------|--------|--|--|--|--|--|--|--|
| OPERATION | FIRST 5 HOURS | BEFORE EACH USE | EVERY 25 HOURS | EVERY 40 HOURS | EVERY 100 HOURS | EVERY 200 HOURS | YEARLY | | | | | | | |
| Consu | ENGINE Consult the engine manual for additional information and instructions | | | | | | | | | | | | | |
| Check/Top Up | it the engli | | additional | Information | | cuons | | | | | | | | |
| Oil Level | | Х | | | | | | | | | | | | |
| Check For Leaks | | х | | | | | | | | | | | | |
| Clean Air Intake Screen | | x | | | | | | | | | | | | |
| Clean Air Cleaner Precleaner | | | x | | | | | | | | | | | |
| Clean Air Cleaner Element | | | x | | | | | | | | | | | |
| Clean Cooling Fins | | | | | х | | | | | | | | | |
| Change Oil And Filter | x | See engine manufacturer's manual | | | | | | | | | | | | |
| Check/Replace Spark Plugs | | | | | | х | | | | | | | | |
| | | TF | RANSAXL | E* | | | | | | | | | | |
| Check Oil Level | х | х | | | | | | | | | | | | |
| Check For Leaks | х | х | | | | | | | | | | | | |
| Change Oil And Filter | * | | | | | x | | | | | | | | |
| | | ſ | MACHINE | | | | | | | | | | | |
| Check Interlock Operation | | х | | | | | | | | | | | | |
| Check Tire Pressures | | x | | | | | | | | | | | | |
| Check/Top Up Battery | | | | | | | x | | | | | | | |
| Lubricate chains | | | x | | | | | | | | | | | |
| Check chain tension | | | x | | | | | | | | | | | |
| Lubricate All Points *CHANGE TRANSAXLE O | | TAL 75 400 '' | | | | | х | | | | | | | |



CHECK DAILY

Operator Presence Interlock System - Start Operation

For the engine to crank, the parking brake must be ON, and the operator present control lever must be released in the neutral position. Stand on the operator platform and check, one by one, if the engine will crank with the parking brake OFF or the operator control lever held down.

Operator Presence Interlock System - Run Operation

In order for the engine to run, the operator must either be standing on the platform, or walking behind the unit with the platform up, the parking brake in the OFF position and the LH control handle held down out of the neutral position.

The engine may also run if the parking brake is in the ON position, the LH control handle is rotated up into the NEUTRAL position.

To check:

- 1. Start the engine and run at 1/2 throttle.
- 2. With the LH control handle in the NEUTRAL position rotated up, move the parking brake lever to ON move the LH control lever down. The engine should kill.

Repair machine before using if the Operator Presence Interlock System does not operate correctly in start or run. Contact your authorized dealer.

Hardware

Tighten any nuts and bolts found loose. Replace any broken or missing cotter pins. Repair any other problems before operating.

Tire pressure

Rear Tires should be kept inflated at 15 lbs/in² (1.05kg/cm²). Improper tire inflation can cause rapid tire wear and poor traction. Uneven inflation can cause uneven aerating. Front tires should be 25 lbs/in². (1.75 kg/cm²).

Engine Maintenance

-Air Filter: Maintain the air filter according to the manufacturer's engine owners manual. -Engine Oil: Check engine oil level daily. Top off if necessary. See engine owners manual.

| BATTERY-AGM TYPE BATTERY SUPPLIED | |
|---|--|
| A WARNING Battery acid is caustic and fumes are explosive and can cause serious injury or death. Use insulated tools, wear protective glasses or goggles and protective clothing when working with | When removing the battery, always remove the ground, BLACK, negative (-) cable first and the RED, positive (+) cable last. |
| batteries. Read and obey the battery manufacturer's instructions. | AGM type battery. Use AGM charger when charging. P/N 4171973 |
| Be certain the ignition switch is OFF and the key has been removed before servicing the battery. | Clean the cable ends and battery posts with steel wool. Use a solution of baking soda and water to clean the battery. Do not allow the solution to enter into the battery cells. |
| Verify battery polarity before connecting or dis- connecting the battery cables. | Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to |
| When installing the battery, always assemble the RED, positive (+) cable first. and the ground, BLACK, negative (-) cable last. | the terminals and cable ends to prevent corro- sion. Keep terminal covers in place. |



TRANSAXLE & HYDRAULIC OIL

Do not perform engine maintenance without the engine off and spark plug wires disconnected.

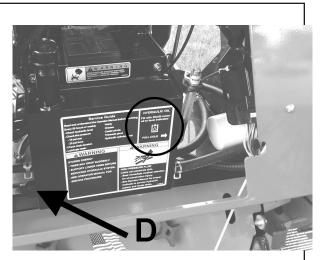
CAUTION

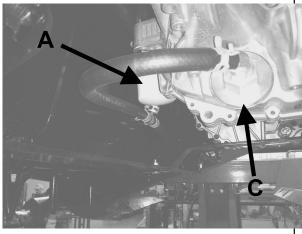
- Check cold.
- Add 20w50 oil if necessary to the indicated level.
- Do not overfill. When the oil warms up it expands. If overfilled cold, the oil may overflow at operating temperature.

Change the transaxle oil after the first 75-100 hours, then every 500 hours or yearly.

It is essential that the exterior of the transaxle be free of debris, prior to fluid maintenance.

- Raise the machine on the built in jack stands. See jackstands section pg. 19. Put an oil drain pan under the hydraulic oil filter located under the center of the machine. Remove the filter A. This will drain the oil from the reservoir. Remove the hose from the filter to each transaxle. Remove the filter adaptor C from each transaxle to drain the transaxles. With another drain pan, drain the remaining oil from the reservoir through the drain D on the lower left side of the reservoir. Dispose of the used oil and filter properly.
- Apply pipe compound to the reservoir drain plug and reinstall in the reservoir. Check the O-ring seal on the filter adaptor. Replace the O-ring if there are any nicks or cuts. Wipe the mounting surface on each transaxle. Reinstall the filter adaptors to the transaxles. Tighten until the adaptor body contacts the transaxle mounting surface. Wipe the filter head mounting surface. Oil the gasket of a new hydraulic oil filter and install on the filter head. Tighten 3-4 to 1 turn past the point where the gasket contacts the filter head.
- 3. Fill the reservoir with 20w50 (15w50 is acceptable) motor oil to the top. (Approximately 4 qts.).
- Have more oil ready. Start the machine and watch the oil level in the sight tube on the reservoir. Add oil as the level drops below the "FULL COLD" mark. Run the machine until the oil level stabilizes.
- 5. Purge the transaxles, following the purging procedures. **See Purging Transaxles Page 24**.







ENGINE OIL

Do not perform engine maintenance without the engine off and spark plug wires disconnected.

AFTER FIRST FIVE (5) HOURS

While the engine is warm:

- 1. Release the oil drain hose assembly from the engine clip **J**. Lay hose assembly over the frame edge.
- 2. Remove the rubber cap **D** from the tip of the hose assembly and turn the drain valve to allow oil to drain from the engine. Dispose of used oil in accordance with local requirements.
- 3. Clean drain valve and tighten the plastic portion of the drain valve back into the metal portion of the valve. Replace rubber cap over the tip of the valve. Replace hose assembly back into engine clip.
- 4. Change oil filter.
- 5. Fill the crankcase with fresh oil to the full mark. Do not overfill. See engine manual for oil specifications.

DAILY

- 1. Check oil level with the dipstick.
- If oil is needed, add fresh oil of proper viscosity and grade. See engine manual for oil specifications. Do not overfill.
- 3. Replace dipstick before starting engine.



PERIODIC OIL CHANGES

- 1. See engine manual for oil and filter change intervals after the break-in period.
- 2. Follow instructions for first oil change, above.

SPARK PLUGS

Remove each plug and check condition.

- Good operating conditions are indicated if the plug has a light coating of grey or tan deposit.
- A white blistered coating indicates overheating. A black coating indicates an "over rich" fuel mixture. Both
 may be caused by a clogged air cleaner or improper carburetor adjustment.
- Do not sandblast, wire brush or otherwise attempt to repair a plug in poor condition. Best results are
 obtained with a new plug.
- Set plug gap as specified in engine manual.

FUEL FILTER

An in line fuel filter is located in the fuel supply line. Inspect at every oil change to make sure it is clean and unobstructed. Replace if dirty.



PURGING TRANSAXLES

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it be purged from the system.

These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or any additional fluid has been added to the system.

Purging may be required if the unit shows any of the following symptoms:

- Noisy operation.
- Lack of power or drive after short term use.
- High operation temperature, excessive oil expansion.
- 1. Check the transaxle fluid, fill to proper level, if required.

- 2. Raise the drive wheels off the ground. Support unit with jack stands or other suitable means.
- 3. With the bypass valve open, and the engine running, slowly move the control levers in both forward and reverse directions 5 to 6 times. As air is purged from the unit, the oil level will drop.
- 4. With the bypass valve closed, and the engine running, slowly move the control levers in both forward and reverse directions 5 to 6 times.
- 5. Stop engine. Check the transaxle fluid level, add fluid as required.
- It may be necessary to repeat steps 3-5 until all the air is completely purged from the system. When the transaxle moves forward and reverse at normal speed, purging is complete.
- 7 .Lower the machine from the jack stands, Stop the engine and pin the jackstands in the operating position.

ENGINE COOLING

Continued operation with a clogged cooling system will cause severe overheating and can result in engine damage.

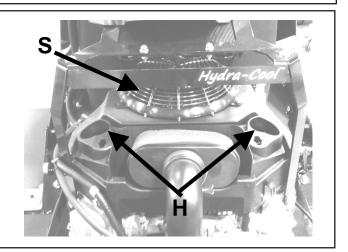
- **Daily**: Clean air intake screen **S** on air cooled engines.
- **Every 100 hours**: Clean cooling fins beneath blower housing **H** with reference to information in the engine manufacturer's manual.

TINES

Tines can be sharp. Wear gloves when working around tines to help prevent inadvertent injuries.

Tines:

- Replace damaged or broken tines.
- Do not weld or straighten tines.
- Clean tines after use, inside and out.
- Apply a light coat of oil to tines to prevent rusting.







SPECIFIC TORQUES

| Tine BOLTS | 15-20 FT-LBS (20-27 Nm) |
|-----------------------------|-------------------------------|
| WHEEL LUG NUTS | 75-100 FT-LBS (102-135.5 Nm) |
| ENGINE PULLEY MOUNTING BOLT | 50-60 FT-LBS (68 Nm-81Nm) |
| WHEEL HUB NUT | 120-140 FT-LBS (162.5-190 Nm) |

CLEANING MACHINE

Clean the machine after use. Compressed air is recommended. Do not use a pressure washer. The machine will run cooler and last longer if kept free of clippings and other debris. A clean machine also reduces the risk of fire due to accumulation of combustible debris and chaff.

Brush or blow clippings and debris off the machine. DO NOT use a pressure washer.

WASHING MACHINE

CAUTION: Improperly washing a machine can cause water to enter bearings and other components. This can greatly reduce component life.

- DO NOT use a pressure washer. Do not direct water at bearings or seals. High pressure water can blow past seals and enter sealed bearings.
- Allow the machine to cool down before washing.
 Water on a warm machine can be sucked into sealed bearings as they cool.

 Avoid getting electrical connections wet. Water can cause electrical faults and corrosion of electrical components.



MAXIMUM AERATION DEPTH

Depth stops set the maximum aeration depth. Maximum aeration depth may be adjusted by changing the hole the depth stop pin is in. Typical aeration depth is 2 1/2 - 3" (60-75 mm). Pins **J1** on both sides of the machine need to be in the same hole so the tine frame is not twisted during operation. **Figure 1**

PARKING BRAKE CABLE

The parking brake cable is adjusted on the transaxle end of the cable. **Figure 2**

- 1. Move the parking brake lever to the "ON" position.
- Center the threaded conduit fitting on the mounting bracket. Secure by tightening the jam nuts against the bracket. Install the bracket loosely to the frame. Pull the cable conduit until the barrel fitting just touches the bracket on the brake lever.

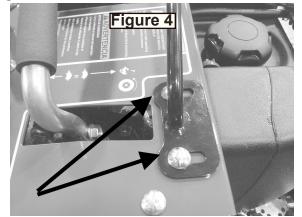
PARKING BRAKE SWITCH

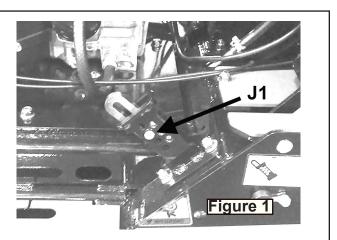
The parking brake switch needs to be adjusted so the plunger is depressed when the parking brake is "OFF". **Figure 3**

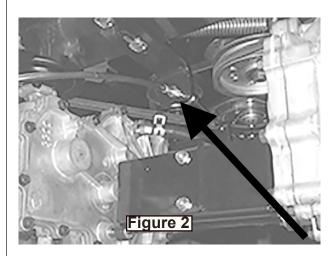
- 1. Move the parking brake to the "OFF" position.
- 2. Loosen the parking brake switch mounting screws and move the switch until the plunger is depressed almost even with the body. Tighten the screws

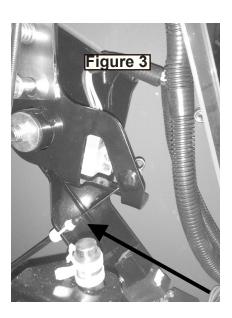
FRONT CONTROL REFERENCE BAR

The front control reference bar is mounted to the control panel with slots. Moving the bar forward in the slots allows greater forward speed may be obtained. Moving it back reduces the maximum forward speed. **Figure 4**











TRACTION CONTROL LINKAGE

The transaxles on this machine are spring loaded to the neutral position. The traction control levers need to be adjusted so the LH lever is in the neutral slot when the tractions are released. The right hand lever is adjusted to line up with the left hand lever.

To Adjust:

- 1. Loosen the jam nuts on either end of the control rod. Note: the end nearest the flats on the rod has left hand threads. Adjust the left rod by turning it to locate the left hand traction lever as desired.
- 2. Tighten the jam nuts against the rod ends to lock the adjustment.
- 3. Complete the adjustment by turning the right rod to line up the right traction lever with the left one.

Moving the location of the traction lever in the slot by way of adjustment can be used to affect top forward speed and reverse speed of the unit within the limits of the transaxles control stroke. Adjusting the LH control to the rear of the neutral slot will increase forward speed by reducing the available stroke for reverse and lowering maximum reverse speed. Do not adjust beyond the point where the end of the hydrostat stroke is reached before the control lever hits the front reference bar with the reference bar moved all the way forward.

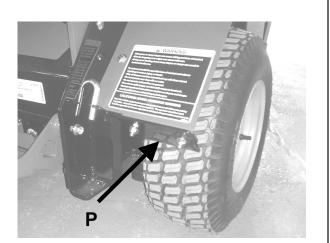


TIRE SCRAPERS

Rear tire scrapers **P** are provided to prevent mud build up on the drive tires during operation in muddy conditions. The tire scrapers should be positioned so there is about 1/8" (3mm) clearance between the wheel and the scraper.

To Adjust:

- 1. Loosen the bolts securing the tire scrapers.
- 2. Position the tire scraper 1/8" (3mm) from the nearest tire surface.
- 3. Tighten bolts.





CHAINS

Tines may drop suddenly. Support the tines when working underneath them. NOTE: It is normal for there to be some play in the chain.

WHEEL AND TINE DRIVE CHAIN ADJUSTMENTS

- Raise the machine and support it on the built in jack stands. See jack stands section page 19. Turn off the engine. This will allow one of the sprockets to turn freely so the idler can take up the slack.
- 2. Remove the side chain covers.
- 3. Tension by loosening the idler bolts and sliding the idler in the adjusting slot to remove slack from the drive. Tighten the idler bolts. Replace chain covers.

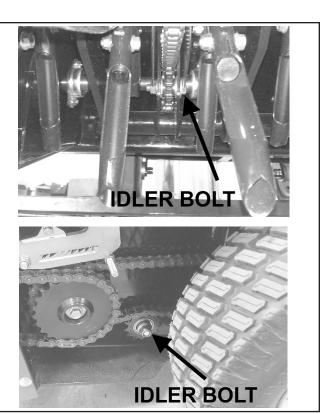
NOTE: If there is no more adjustment, the chain needs to be replaced. See Belt / Chain Replacement Section

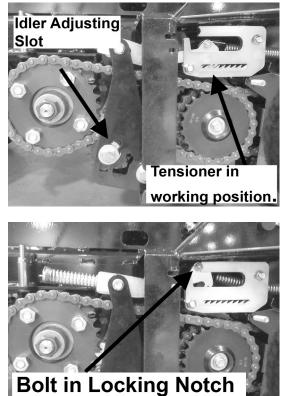
4. Start the engine and lower the machine. Stop the engine and pin the jack stands in the operating position.

MAIN DRIVE CHAIN ADJUSTMENT

The main drive chain has an automatic tensioning system that normally does not require adjustment. As the chain wears, the tensioner advances and locks the idler in the new position. If the automatic tension has advanced all the way, it may be reset.

- 1. Raise the machine and support it on the built in jack stands. Turn off the engine.
- 2. Remove the front and side chain covers. Push down on the spring end of the tensioner to disengage the locking teeth. Pull the tensioner forward and lock it in place by setting the bolt in the locking notch.
- 3. Rotate the tire to get all the slack out of the top span of the chain.
- 4. Loosen the idler bolts and move the idler in the adjusting slot to remove the slack in the chain. Tighten the idler bolts.
- 5. Move the tensioner off the locking notch to engage the locking teeth.
- 6. Reinstall the chain covers. Start the engine and lower the machine. Stop the engine and pin the jack stands in the operating position.





Bolt in Locking Notch Tensioning Position.



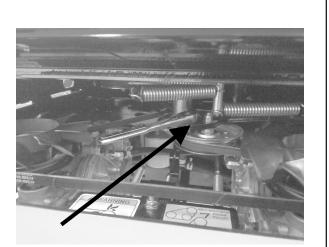
NOTE: Use replacement belts from Schiller Grounds care, Inc. not general purpose belts. Schiller Grounds Care, Inc. belts are specifically designed for the loads of this machine and will normally provide longer service life.

ENGINE-TRANSAXLE BELT

- 1. Remove the front cover. (The two knobs which secure it are located on the underside of the machine.)
- 2. Rotate the engine-transaxle idler arm in a counter-clockwise direction with a 3/8" ratchet handle to allow removal of the belt. Remove the belt from the idler pulley and then from the remaining pulleys.
- 3. Loop a new belt around the transaxle and engine pulleys. Rotate the idler arm in a counterclockwise direction to enable the new belt to be installed in the idler pulley.
- 4. Reinstall the engine-transaxle belt.
- 5. Reinstall the front cover.

ENGINE-HYDRAULIC PUMP BELT

- 1. Remove the front cover. (The two knobs which secure it are located on the underside of the machine.)
- 2. Remove the engine-transaxle belt.
- 3. Rotate the engine -hydraulic pump idler in a clockwise direction to allow removal of the belt.
- 4. Loop a new belt around the pump and engine pulleys. Rotate the engine-hydraulic pump idler in a clockwise direction to enable the new belt to be installed in the idler pulley.
- 5. Reinstall the engine-transaxle belt.
- 6. Reinstall the front cover.





NOTE: It is recommended replacement chains from Schiller Grounds care, Inc. be used. Schiller Grounds Care, Inc. supplies a premium quality chain cut to the correct length. Replace all chains together for best results under normal circumstances.

Tension on new chains will need to be adjusted after the first several hours of operation after the chains run in. See Chain Adjustment Section.

MAIN DRIVE CHAIN

- Start the engine and raise the machine on the jack stands. See jack stands section page 19. Stop the engine. Open the transaxle by pass valves so you can rotate the tines and axles manually.
- 2. Remove the front, side and tine chain covers.
- 3. Push down on the spring end of the tensioner to disengage the locking teeth. Pull the tensioner forward and lock it in place by setting the bolt in the locking notch.

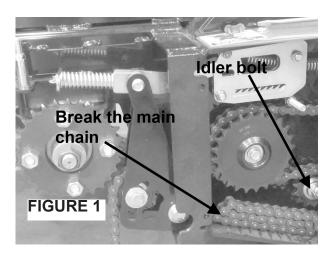
NOTE: If replacing all chains, leave main chain broken and lying in place while the wheel and tine chains are replaced. It is easier to replace those chains with the main chain broken because the wheel and tine sprockets turn freely with the main chain disconnected.

- 4. Break the chain by removing the connector link. Inspect the sprockets. If any sprockets are worn, remove the chain and replace sprockets before installing the new chain. If the sprockets are still in good condition, connect the new chain to the old chain and use the old chain to pull the new chain around the sprockets. Remove the old chain and connect the ends of the new chain with a new connector link. NOTE: Install all connector links so the closed end is in the direction of forward travel.
- Push the idler up to take all the slack out of the new chain and tighten the idler bolt. Make sure the slack is out of the top span of the chain. Move the tensioner off the locking notch to engage the locking teeth.
- 6. Reinstall the chain covers. Start the engine and lower the machine. Stop the engine and pin the jack stands in the operating position.

TINE CHAIN

Tines may drop suddenly. Support tines when working underneath them.

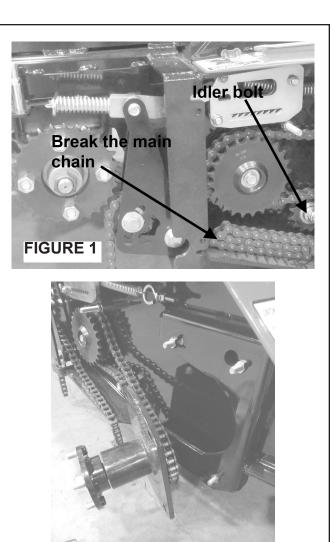
- 1. Start the engine and raise the machine on the jack stands. Stop the engine. Open the transaxle by pass valves so you can rotate the tines and axles manually.
- 2. Remove the front, side and tine chain covers.
- 3. Break the main chain and leave it lying on the machine. **Figure 1**
- 4. Loosen the idler mounting bolt and back off the idler.
- 5. Break the chain by removing the connector link. Inspect the sprockets. If any sprockets are worn, remove the chain and replace sprockets. If the sprockets are still in good condition, connect the new chain to the old chain and use the old chain to pull the new chain around the sprockets. Remove the old chain and connect the ends of the new chain with a new connector link. NOTE: Install all connector links so the closed end is in the direction of forward travel.
- 6. Take the slack out of the chain by moving the idler in the adjusting slots. Tighten the idler mounting bolt. Reinstall main chain.
- 7. Reinstall the chain covers. Start the engine and lower the machine. Stop the engine and pin the jack stands in the operating position.





WHEEL CHAIN

- Start the engine and raise the machine ion the jack stands. See jack stands section page 19. Stop the engine. Open the transaxle by pass valves so you can rotate the tines and axles manually.
- 2. Remove the front, side and tine chain covers.
- 3. Break the main chain and leave it lying on the machine. **Figure 1** Loosen the idler bolt and back the idler off.
- 4. Remove the wheel.
- Remove the axle assembly from the machine. take the wheel chain off the axle sprocket.
 Figure 2
- 6. Break the chain by removing the connector link. Inspect the sprockets. If any sprockets are worn, remove the chain and replace sprockets. If the sprockets are still in good condition, connect the new chain to the old chain and use the old chain to pull the new chain around the sprockets. Remove the old chain and connect the ends of the new chain with a new connector link. NOTE: Install all connector links so the closed end is in the direction of forward travel.
- 7. Set the axle sprocket inside the chain loop and reinstall the axle assembly to the frame. Install the wheel assembly.
- 8. Take the slack out of the chain by moving the idler in the adjusting slots. Tighten the idler mounting bolt. Reinstall main chain.
- 6. Reinstall the chain covers. Start the engine and lower the machine. Stop the engine and pin the jack stands in the operating position.





SPECIFICATIONS

ENGINES:

Construction: Aluminum block with cast-in cast iron sleeves. Aluminum head. **Configuration:** 4-stroke, vertical shaft, V-twin

cylinder, overhead valve, air-cooled.

DRIVE SYSTEM:

Transaxles: Dual HydroGear ZT3200 Commercial Duty Hydrostatic transaxles (10cc Pumps) **Turn Radius:** True Zero

CONTROLS:

Throttle, choke, PTO switch, key switch, operator present, traction levers (1 per wheel), parking brake, tine raise/lower, tine down pressure.

GROUND SPEED:

Forward 0-7.4 mph (0-11.9 kph) Reverse 0-3.5 mph (0-5.6 kph)

BRAKES:

Hydrostat provides dynamic braking Parking brake: Mechanical paul type in transaxle

TRANSMISSION DRIVE SYSTEM:

Belt from engine to hydrostat input shafts, hydrostatic drive to wheels and tines via #50 chain.

TURNING RADIUS:

True zero tines up. Approximately 48" radius tines down.

HYDRAULIC RESERVOIR CAPACITY:

Reservoir 2.75 quarts Transaxles 2 quarts Total Capacity 6.75 quarts

POWER STEERING:

Independently controlled drive wheels.

WEIGHT:

554930....Dry : Approximately 1210 lbs. Wet: Approximately 1245 lbs.

DRIVE TIRES:

18 X 6.50-8 Pressure: 15 p.s.i. (1.05 kg/cm²)

CASTERS:

13 X 5.00-6 Pressure: 25 p.s.i. (1.75 kg/cm²)

AERATION:

TINES:

3/4" (19mm) formed from .08 in hardened chrome molybdenum alloy steel. 48 per unit.

PENETRATION DEPTH:

2-5" (50-250 mm) maximum Adjustable depth set for consistent depth.

AERATION WIDTH:

30" (762mm)

HOLE PATTERN:

3-3/4" X 7" (95mm X 178mm) on center

PRODUCTION:

Up to 92,400 sq. ft./hour



| ENG | SINE | | | |
|--|---|--|--|--|
| MODEL NUMBER | 554930 | | | |
| MANUFACTURER | KAWASAKI | | | |
| MODEL | FS541V | | | |
| CYLINDERS | 2 | | | |
| COOLING | Air | | | |
| FUEL | Gasoline | | | |
| BORE/STROKE | 2.9" x 2.8" (73 x 72 mm) | | | |
| DISPLACEMENT | 36.8 ci (603 cc) | | | |
| COMPRESSION | 8.1:1 | | | |
| OUTPUT POWER | Refer to engine manufacturer's speci- fications and website | | | |
| OUTPUT TORQUE | 31.0 ft-lb (42.1 Nm) @2200 rpm | | | |
| OIL CAPACITY | 1.8 qt (1.7L) | | | |
| LUBRICATION | Full Pressure | | | |
| CYLINDER BLOCK | Aluminum with cast iron sleeve | | | |
| CYLINDER HEAD | Aluminum | | | |
| GOVERNOR | Mechanincal | | | |
| AIR CLEANER | Dual Element | | | |
| IGNITION SYSTEM | Electronic | | | |
| CHARGING SYSTEM | 12V-15AMP | | | |
| BATTERY | 12V | | | |
| FUEL CAPACITY | 5.0 GAL (18.9 L) | | | |
| FUEL TANK | Polyethylene | | | |
| FUEL CONSUMP- TION @ MAX LOAD/ SPEED | 1.35 gal/hr (5.11 L/hr) | | | |

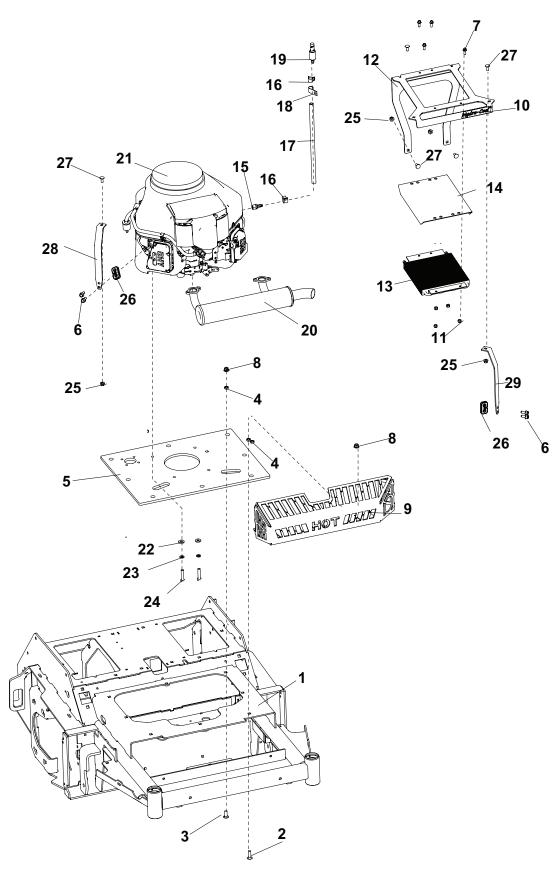


PARTS SECTION

PARTS SECTION

UPPER ENGINE ASSEMBLY





UPPER ENGINE ASSEMBLY



FIGURE 1

| ITEN | PART NO. | DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-------------|----------------------------|-----|------|----------|-------------|-----|
| 1 | 4173494 | S-MAIN FRAME | 1 | | | | |
| 2 | 64018-7 | BLT-CRG 3/8-16X1-1/4 | 2 | | | | |
| 3 | 64018-44 | BLT-CRG 3/8-16X1 SN | 6 | | | | |
| 4 | 64001-6 | NUT-HEX JAM 3/8-16 | 8 | | | | |
| 5 | 4171512.7 | PLT-ENGINE MOUNTING | 1 | | | | |
| 6 | 64263-007 | BLT-FLG HD M8-1.25 X 20 | 4 | | | | |
| 7 | 64262-002 | BLT-FLG HD 1/4-20 X 3/4 | 4 | | | | |
| 8 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 8 | | | | |
| 9 | 4172292.7 | GUARD-MUFFLER | 1 | | | | |
| 10 | 4172912 | LABEL-HYDRA-COOL | 1 | | | | |
| 11 | 64229-01 | NUT-NYLON LOCK 1/4-20 | 4 | | | | |
| 12 | 4172735.7 | BRKT-OIL COOLER | 1 | | | | |
| 13 | 2188173 | COOLER-OIL | 1 | | | | |
| 14 | 2720891.7 | SCREEN-OIL COOLER | 1 | | | | |
| 15 | 4164252-001 | FITTING-3/8NPT TO 3/8 BARB | 1 | | | | |
| 16 | 88042-03 | CLAMP, HOSE 5/8 | 2 | | | | |
| 17 | 69053-05 | HOSE, HYDRAULIC 14" | 1 | | | | |
| 18 | 48412-01 | CLIP-CABLE 3/4 J X 10.32 | 1 | | | | |
| 19 | 4164251 | DRAIN VALVE | 1 | | | | |
| 20 | 4164359 | MUFFLER-FS600 KAW | 1 | | | | |
| 21 | 4164382 | ENG-18HP KAW FS541V ES | 1 | | | | |
| 22 | 64163-69 | WSHR .391X.88X10 GA | 2 | | | | |
| 23 | 64006-03 | LOCKWSHR-3/8 HELICAL | 2 | | | | |
| 24 | 64123-87 | BLT-HEX 3/8-16 X 1-3/4 | 2 | | | | |
| 25 | 64268-02 | NUT-FL NYLON LOCK 5/16-18 | 4 | | | | |
| 26 | 4173654 | SPACER-COOLER BRACKET | 7 | | | | |
| 27 | 64018-51 | BLT-CRG 5/16-18 X 3/4 SN | 4 | | | | |
| 28 | 4172746.7 | BRKT-COOLER, SPRT RH | 1 | | | | |
| 29 | 4172876.7 | BRKT-COOLER, SPRT LH | 1 | | | | |

* NOT ILLUSTRATED

LOWER ENGINE ASSEMBLY



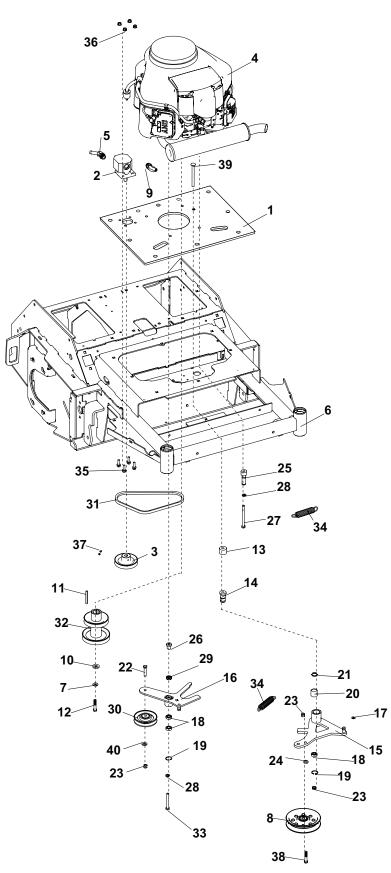






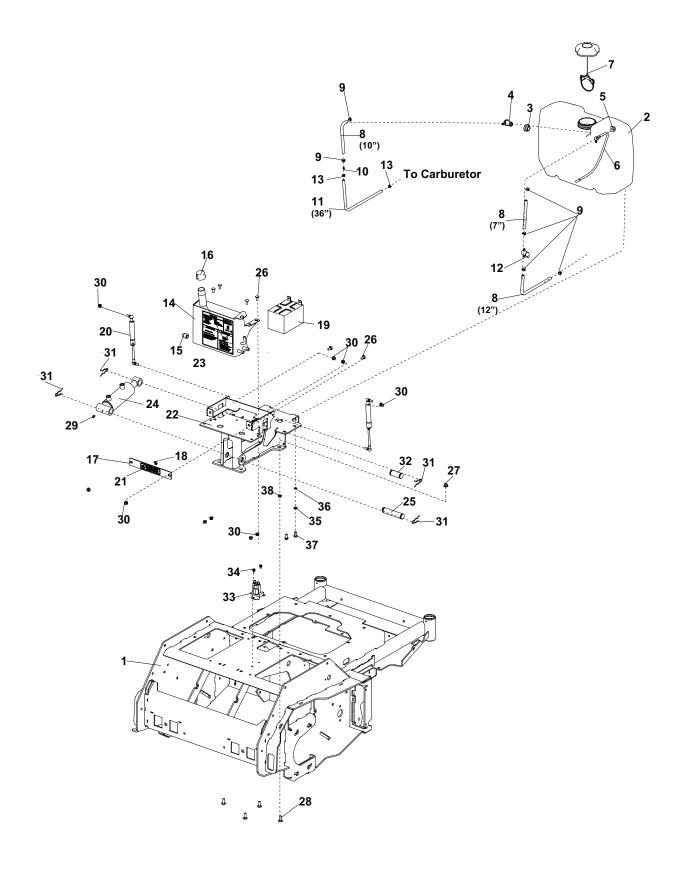
FIGURE 2

| ITE | M PART NO | D. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|----------|-----------------------|--|--------|------|----------|-------------|-----|
| 1 | 4171512.7 | PLT-ENGINE MOUNTING | 1 | | | | |
| 2 | 4173822 | PUMP-GEAR 2.1XCC | 1 | | | | |
| 3 | 4171447 | PULLEY-4 IN | 1 | | | | |
| 4 | 4164382 | ENGINE-KAW FS541V ES | 1 | | | | |
| 5 | 2690030-03 | FTG-3/4-16 ORB X 1/2 BARB | 1 | | | | |
| 6 | 4173494 | S-MAIN FRAME | 1 | | | | |
| 7 | 64006-06 | LOCKWSHR-7/16 HELICAL | 1 | | | | |
| 8 | 2308000 | PULLEY-IDLER 4.00 EOD | 1 | | | | |
| 9 | 25-2503-8-6 | FITTING 90 -8 MORB X -6 MJIC | | | | | |
| 10 11 | 64163-51 | WSHR.453X1.38X7GA | 1 1 | | | | |
| 12 | 64164-38 64123-155 | KEY 1/4 X 3-1/2 SQ BLT-HEX 7/16-20X3 | 1 | | | | |
| 12 | 4172467 | SPACER-IDLER ARM | 1 | | | | |
| 14 | 4116661 | PIN-PIVOT | 1 | | | | |
| 15 | 4171402 | S-IDLER ARM, TRANS | 1 | | | | |
| 10 | (INCLUDES IT | - | | | | | |
| | , | , | | | | | |
| 16 | 4171398 | S-IDLER ARM, PUMP | 1 | | | | |
| | (INCLUDES 18 | 3, 19, 29) | | | | | |
| 17 | 85010N | ZERK 1/4-28 STR SELF THRD | 1 | | | | |
| 18 | 4128004 | BEARING-BALL 10 X 26 X 8 | 3 | | | | |
| 19 | 64144-40 | SNAP RING-26MM INTERNAL | 2 | | | | |
| 20 | 548138 | BRG NDL.88 1.12 1.00 | 1 | | | | |
| 21 | 521438 | GREASE SEAL | 1 | | | | |
| 22 | 64123-87 | BLT-HEX 3/8-16 X 1-3/4 | 1 | | | | |
| 23 | 64229-03 | NUT-NYLON LOCK 3/8-16 | 3 | | | | |
| 24 | 33148-01 | SPACER-0.379X0.750X0.25 | 1 | | | | |
| 25 26 | 4171403 | PIN - SPRING | 1 1 | | | | |
| 20 27 | 4171399 64123-217 | PIN - MNTING, PUMP IDLER BLT-HEX 3/8-16X4-1/4 | 1 | | | | |
| 28 | 64006-03 | LOCKWSHR-3/8 HELICAL | 2 | | | | |
| 29 | 4127999 | SEAL-16 X 24 X 7 | 1 | | | | |
| 30 | 48393 | PULLEY-V IDLER | 1 | | | | |
| 31 | 4171469 | BELT-HA 30 ED | 1 | | | | |
| 32 | 4171450 | PULLEY-4 IN 'A' | 1 | | | | |
| 33 | 64123-75 | BLT-HEX 3/8-16 X 3 | 1 | | | | |
| 34 | 4163586 | SPRING-EXTENSION | 2 | | | | |
| 35 | 64262-007 | BLT-FLG HD 5/16-18 X 1 | 4 | | | | |
| 36 | 64141-6 | NUT-WLF 5/16-18 | 4 | | | | |
| 37 | 64044-1 | SCREW-SET 1/4-20X1/4 | 2 | | | | |
| 38 | 64123-67 | BLT-HEX 3/8-16 X 2 | 1 | | | | |
| 39 | 64018-30 | BLT-CRG 3/8-16 X 4-1/2 | 1 | | | | |
| 40 | 64163-69 | WSHR .391X.88X10 GA | 1 | | | | |
| | | | | | | | |

***NOT ILLUSTRATED**









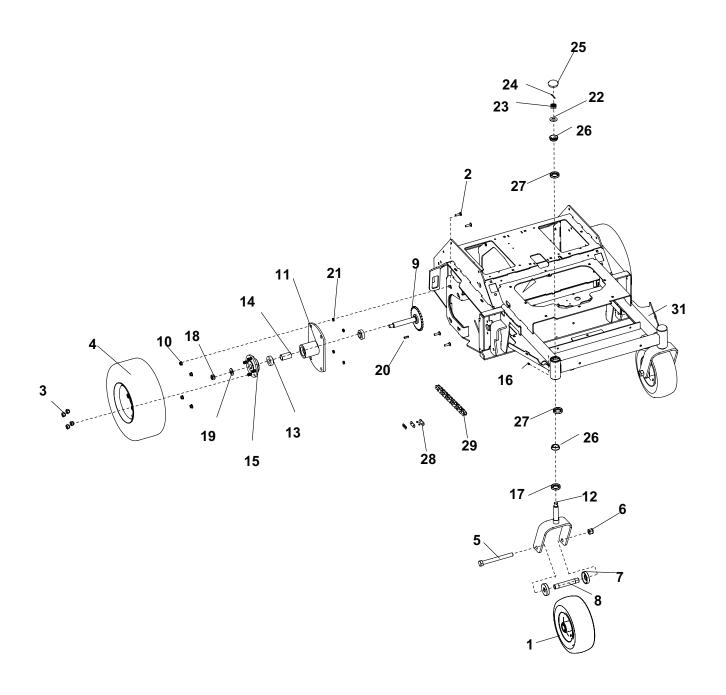
FUEL TANK, BATTERY, RESERVOIR

FIGURE 3

| | ME | 2 | | |
|--|-------------------|--------|--|--|
| 2 4165561-1 TANK-FUEL, I (INCLUDES ITEMS 5-7) 3 4165387 GROMMET, F 4 4165763 TANK VENT 5 5 4132325 GROMMET-S 6 4165561-2 TUBE-FUEL, 3 8 4162977-001 HOSE-FUEL 3 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 3 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT N 17 4173496 S-PLATE BAT | | 2 | | |
| 3 4165387 GROMMET, F 4 4165763 TANK VENT 5 4132325 GROMMET-S 6 4165561-2 TUBE-FUEL, 3 8 4162977-001 HOSE-FUEL 3 8 4162977-001 HOSE-FUEL 3 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 3 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | MIDSIZE | 1 | | |
| 4 4165763 TANK VENT 5 4132325 GROMMET-S 6 4165561-2 TUBE-FUEL, 7 4167989 CAP-FUEL, 3 8 4162977-001 HOSE-FUEL, 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 3 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | | | |
| 5 4132325 GROMMET-S 6 4165561-2 TUBE-FUEL, 3 7 4167989 CAP-FUEL, 3 8 4162977-001 HOSE-FUEL 3 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 3 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | ROLL-OVER | 1 | | |
| 6 4165561-2 TUBE-FUEL, 7 4167989 CAP-FUEL, 3 8 4162977-001 HOSE-FUEL 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & IS 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 | | |
| 7 4167989 CAP-FUEL, 3 8 4162977-001 HOSE-FUEL 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 | | |
| 8 4162977-001 HOSE-FUEL 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 1 | | |
| 9 88042N CLAMP-HOSI 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 3 | | |
| 10 4165864 FITTING, 1/4 11 4162989-001 HOSE-FUEL 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT N 17 4173496 S-PLATE BAT | | 6 | | |
| 11 4162989-001 HOSE-FUEL 3 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 | | |
| 12 4163016 VALVE- IN-LIN 13 88042-01 CLAMP-HOSI 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 | | |
| 14 4173495 S-RESERVOI (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | | 1 | | |
| (INCLUDES ITEMS 15,16, & 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | E 3/16 | 2 | | |
| 15 108029 PLUG MAGN 16 4171557-3 CAP-1" NPT N 17 4173496 S-PLATE BAT | | 1 | | |
| 16 4171557-3 CAP-1" NPT V 17 4173496 S-PLATE BAT | . 23) | | | |
| 17 4173496 S-PLATE BAT | NETIC | 1 | | |
| | W/VENT HOLES | 1 | | |
| 18 4171586 BUMPER-RU | FTERY, CLAMP | 1 | | |
| | | 1 | | |
| 19 4171099 BATTERY-190 | | 1 | | |
| 20 2228065 DAMPER-NO 21 2000590 LABEL-WARN | N-CAVITATING | 2 1 | | |
| | TERY SUPPORT | 1 | | |
| 23 4172910 LABEL-RESE | | 1 | | |
| 24 4171281 CYLINDER-2. | | 1 | | |
| 25 4171592 PIN-CYLINDE | | 1 | | |
| 26 64018-51 BLT-CRG 5/16 | 6-18 X 3/4 SN | 6 | | |
| 27 64268-03 NUT-FL NYLC | ON LOCK 3/8-16 | 4 | | |
| 28 64018-44 BLT-CRG 3/8- | | 4 | | |
| 29 85010N ZERK 1/4-28 | | 1 | | |
| | ON LOCK 5/16-18 | 10 | | |
| 31 548602 PIN-HAIR 32 548603 PIN-CLEVIS | | 4 1 | | |
| 33 38665 SOLENOID | | 1 | | |
| 34 64152-23 SCREW-SP 1 | 1/4-20X3/8 | 2 | | |
| 35 64123-15 BLT-HEX 3/8- | | 4 | | |
| 36 64006-03 LOCKWSHR- | | 4 | | |
| 37 64163-31 WSHR 25/64 | X1X12 | 4 | | |
| 38 64001-6 NUT-HEX JAM | | 4 | | |
| 39 64262-025 BLT-FLG HD 3 | 3/8-16 X 2-1/2 LG | 4 | | |
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*NOT ILLUSTRATED



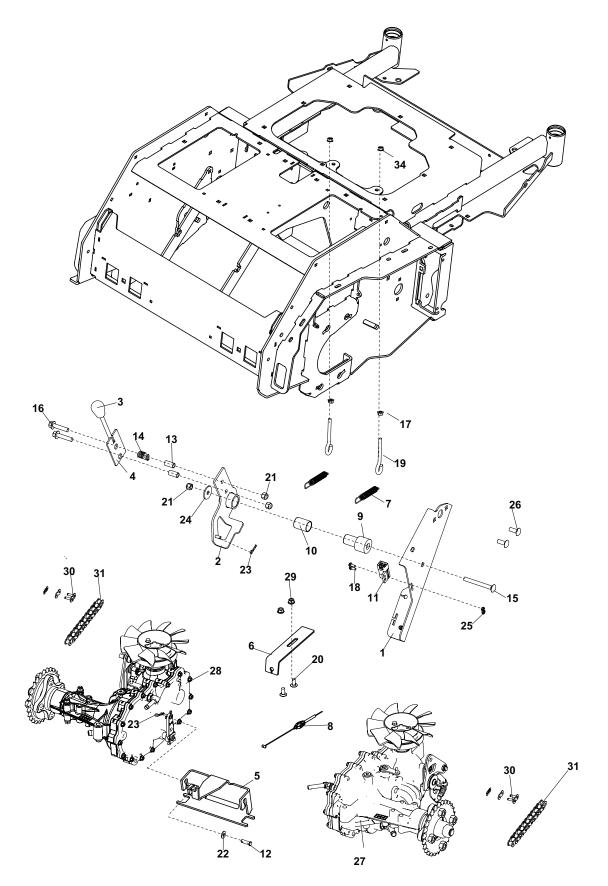




WHEEL ASSEMBLIES

| ITEN | I PART NO. | DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----------|-------------------------|--|-----------|------|----------|-------------|-----|
| 1 | 2722228 | ASSY-WHEEL 13X5.00-6 | 2 | | | | |
| 2 | 64018-7 | BLT-CRG 3/8-16X1-1/4 | 8 | | | | |
| 3 | 64187-03 | NUT-WHEEL 1/2-20 | 8 | | | | |
| 4 | 4171799 | ASSY-WHEEL 18X6.50-8 | 2 | | | | |
| 5 | 64123-215 | BLT-HEX 3/4-10X7-1/2 | 2 | | | | |
| 6 | 64229-07 | NUT-NYLON LOCK 3/4-10 | 2 | | | | |
| 7 | 2722231 | SPACER-END | 4 | | | | |
| 8 | 2722230-02 | SPANNER | 2 | | | | |
| 9 | 4173176 | WLDMT-AXLE SHAFT | 2 | | | | |
| 10 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 8 | | | | |
| 11 | 4171458.7 | WLDMT-WHEEL SPINDLE HOU | JS 2 2 | | | | |
| 12 13 | 2721306.7 4167554-01 | CASTER YOKE BEARING-SPINDLE SEALED | 2 4 | | | | |
| 14 | 4172715 | SPACER-SPINDLE | 2 | | | | |
| 15 | 4171467.7 | WLDMT-WHEEL HUB | 2 | | | | |
| 16 | 85010N | ZERK 1/4-28 STR SLF THRD | 2 | | | | |
| 17 | 48480 | SEAL CR 12411 | 2 | | | | |
| 18 | 64151-28 | NUT-HEX 5/8-18 CTR LOCK | 2 | | | | |
| 19 | 64209-03 | SPRING WASHER.67 ID | 2 | | | | |
| 20 | 64164-12 | KEY-1/4X1 SQ | 2 | | | | |
| 21 | 64001-6 | NUT-HEX JAM 3/8-16 | 8 | | | | |
| 22 | 64163-26 | WSHR .766 ID X 1.625 | 2 | | | | |
| 23 | 64025-20 | NUT-HEX 3/4-16 SLOT U | 2 | | | | |
| 24 | 64140-9 | COTTER PIN-1/4-2 | 2 | | | | |
| 25 | 4162986 | CAP-END | 2 | | | | |
| 26 | 48043-04C | CONE-OUTER BEARING | 4 | | | | |
| 27 | 48043-03C | CUP-OUTER BEARING | 4 | | | | |
| 28 | 4172865 | LINK-CONNECTOR #50 | 2 2 | | | | |
| 29 30* | 4172864-03 4173503 | CHAIN-50 ROLLER 67 PITCH KIT-CHAINS REPLACEMENT | 2 | | | | |
| | | HAINS FOR UNIT AND LINKS) | I | | | | |
| 31 4 | 4173494 S | -FRAME, MAIN | 1 | | | | |
| | INCLUDES ITE | | 1 | | | | |
| (| | WI 27) | | | | | |
| | | | | | | | |
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| | *N | OT ILLUSTRATED | | | | | |
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PARKING BRAKE ASSY

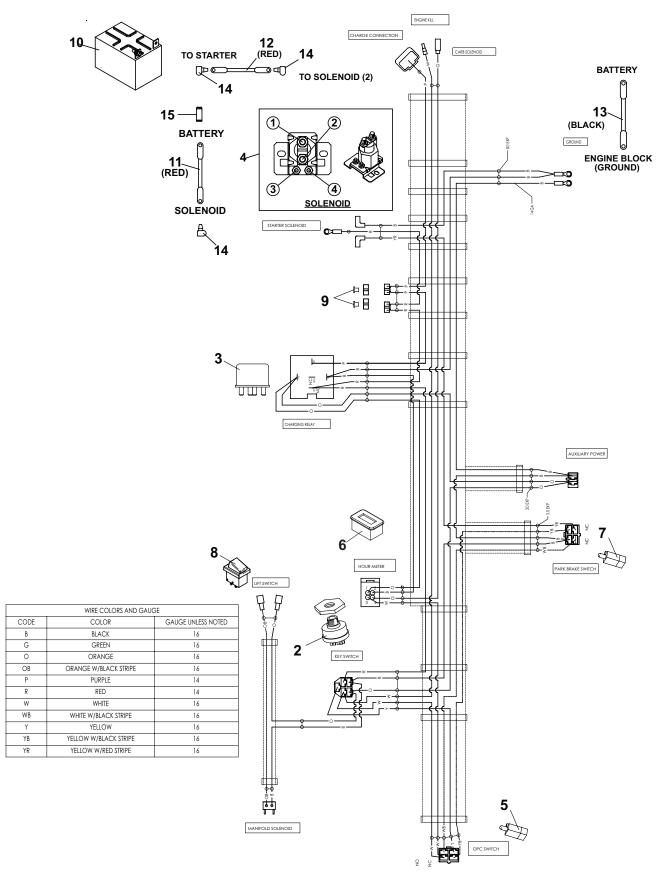
FIGURE 5

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| ITE | M PART N | 0. | DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|--------|------------------------|-------|---------------------------------------|--------|------|----------|-------------|-----|
| 1 | 4171573.7 | BRKT | -BRAKE MOUNT | 1 | | | | |
| 2 | 4173512 (INCLUDES I | | | 1 | | | | |
| | (INCLODES I | |)) | | | | | |
| 3 | 4168180 | KNO | 3-PUSH ON | 1 | | | | |
| 4 | 4171580 | WLDI | MT-BRAKE HANDLE | 1 | | | | |
| 5 | 4173527.7 | | -BRAKE, PARKING | 1 | | | | |
| 6 | 4173896.7 | | -CABLE | 1 | | | | |
| 7 | 4117212 | | NG-EXTENSION | 2 | | | | |
| 8 9 | 4173898 | | E-BRAKE, PARKING | 1 1 | | | | |
| | 4171581 4166324-03 | | BRAKE PIVOT RING-PLASTIC 1.000 ID | 1 | | | | |
| | 2308094 | | CH-NCNC DBL POLE | 1 | | | | |
| | 64188-02 | | CLEVIS 5/16 X 1 | 2 | | | | |
| | 516544 | | IING (PLATING) | 2 | | | | |
| 14 | 41-053 | | NG COMP .681 X 1.125 | 1 | | | | |
| 15 | 64018-55 | BLT-C | CRG 3/8-16X3-1/2 | 1 | | | | |
| 16 | 64262-018 | BLT-F | LG HD 3/8-16 X 1-3/4 | 2 | | | | |
| | 64141-4 | | WLF 3/8-16 | 4 | | | | |
| | 64152-46 | | EW-SLT HH 10-24X1/2 | 2 | | | | |
| | 4113682 | | SPRING MOUNT | 2 | | | | |
| | 64018-51 | | CRG 5/16-18 X 3/4 SN | 2 | | | | |
| | 64229-03 64163-55 | | NYLON LOCK 3/8-16 R .328X.75X14 GA | 3 2 | | | | |
| | 64168-2 | | ER-HAIRPIN .08 X 1.19 | 2 | | | | |
| | 64163-87 | | R391x1.375x12GA | 1 | | | | |
| | 64025-15 | | HEX #10-24 KEPS | 2 | | | | |
| | 64018-7 | | CRG 3/8-16X1-1/4 | 2 | | | | |
| 27 | 4171283 | TRAN | ISAXLE, HYDROSTATIC RI | H 1 | | | | |
| 28 | 4171282 | TRAN | ISAXLE, HYDROSTATIC LH | 1 1 | | | | |
| | 64268-02 | | FL NYLON LOCK 5/16-18 | 2 | | | | |
| | 4172865 | | CONNECTOR #50 | 2 | | | | |
| | 4172864-01 | | N 50 ROLLER 57 PITCH | 2 | | | | |
| | | | HAINS REPLACEMENT | 1 | | | | |
| (INC | LUDES ALL C | | IS FOR UNIT AND LINKS) | | | | | |
| | *NOT IL | | | | | | | |
| | | 20011 | | | | | | |
| | | | | | | | | |
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ELECTRICAL SYSTEM







ELECTRICAL SYSTEM

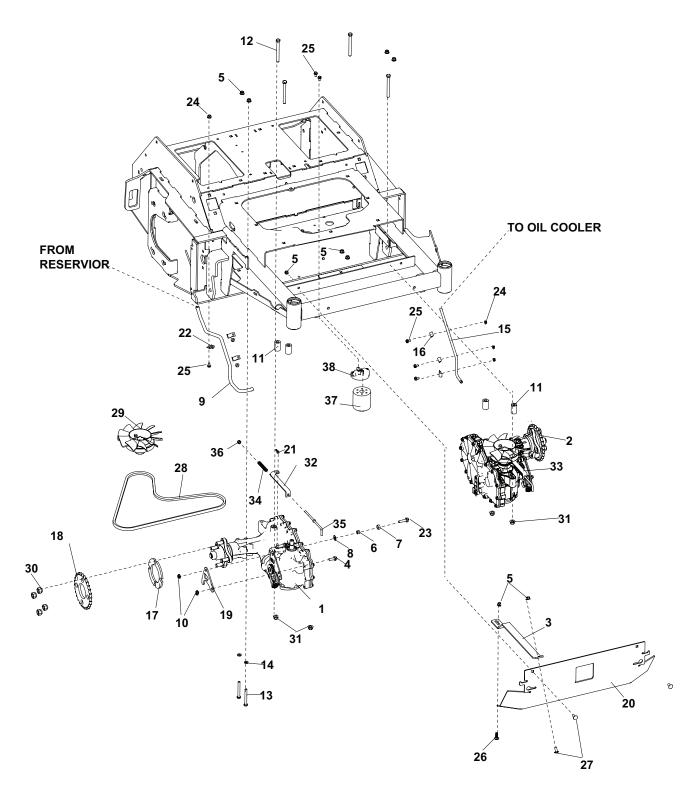
FIGURE 6

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| ITE | M PART N | O. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|--|--|---|---------------------------------|------|----------|-------------|-----|
| 1 | 4172161 (INCLUDES | | 1 | | | | |
| 2 3 4 5 6 7 8 9 10 | 128010 2722325 38665 108208 4171992 2308094 4171893 148082-20 4171099 4171973 | SWITCH-ROCKER | 1 1 1 1 1 2 1 | | | | |
| 11 | | CABLE-BATTERY 18" COND ITEM 14 & 15) |) 1 | | | | |
| 12 13 14 15 | 108061-17 108061-16 2308095 112386 | CABLE-BATTERY 16 RED CABLE-BATTERY 31.5 BLK COVER - TERMINAL BOOT BAT TERM POS | 1 1 3 1 | | | | |

TRANSAXLE ASSEMBLY







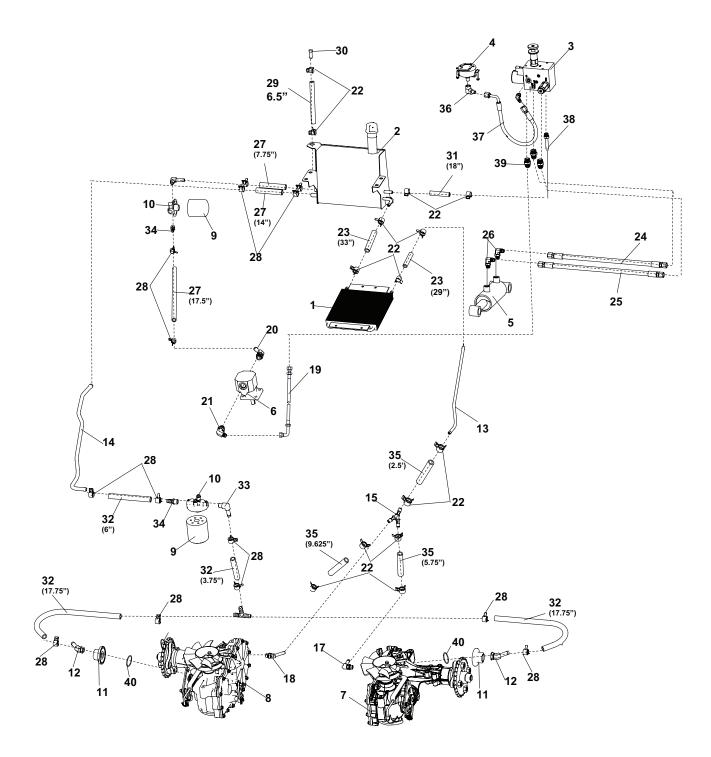
TRANSAXLE ASSEMBLY

FIGURE 7

| ITE | M PART N | O. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----|-----------|-----------------------------|------|------|----------|-------------|-----|
| 1 | 4171283 | TRANSAXLE, HYDROSTATIC | RH 1 | | | | |
| 2 | 4171282 | TRANSAXLE, HYDROSTATIC I | | | | | |
| 3 | 4172890.7 | BRKT-SHIELD SUPPORT | 1 | | | | |
| 4 | 64262-011 | BLT-FLG HD 3/8-16 X 1 | 2 | | | | |
| 5 | 64268-02 | NUT-FL NYLON LOCK 5/16-18 | 8 | | | | |
| 6 | 518438 | BUSHING | 2 | | | | |
| 7 | 4169194 | BUSHING522 X688 X .289 | 2 | | | | |
| 8 | 64163-61 | WSHR .81X.406X16GA | 2 | | | | |
| 9 | 4172705 | TUBE RESERVOIR-FILTER | 1 | | | | |
| 10 | 64229-03 | NUT-NYLON LOCK, 3/8-16 | 4 | | | | |
| 11 | 33030-4A | IDLER BUSHING | 4 | | | | |
| 12 | 64123-138 | BLT-HEX 3/8-16 X 3-3/4 | 4 | | | | |
| 13 | 64123-104 | BLT-HEX 5/16-18X2-3/4 | 4 | | | | |
| 14 | 64163-02 | WSHR .321/.328X.593/.608X11 | GA 4 | | | | |
| 15 | 4172704 | TUBE-TRANS - COOLER | 1 | | | | |
| 16 | G8062 | CLAMP HALF 3/8 INSULATED |) 3 | | | | |
| 17 | 4172456.7 | PLATE-SPACER | 2 | | | | |
| 18 | 4172523 | SPROCKET - #50-28, TRANS | 2 | | | | |
| 19 | 4171487.7 | PLATE-TRANS ACTUATOR | 2 | | | | |
| 20 | 4171666.7 | PLT-DUMP VALVE | 1 | | | | |
| 21 | 64168-2 | COTTER-HAIRPIN .08 X 1.19 | 2 | | | | |
| 22 | 4171606-1 | CLAMP-HALF 1/2 HOSE | 3 | | | | |
| 23 | 64262-012 | BLT-FLG HD 3/8-16 X 1-1/4 | 2 | | | | |
| 24 | 64141-2 | NUT-WLF 1/4-20 | 6 | | | | |
| 25 | 64139-02 | BLT-WLF 1/4-20X1/2 | 8 | | | | |
| 26 | 64018-15 | BLT-CRG 5/16-18X1 SN | 1 | | | | |
| 27 | 64018-51 | BLT-CRG 5/16-18 X 3/4 SN | 5 | | | | |
| 28 | 4172459 | BELT-HA 54.80 | 1 | | | | |
| 29 | 4164048 | KIT-TRANSAXLE, FAN & PULL | EY 2 | | | | |
| 30 | 64187-03 | NUT-WHEEL 1/2-20 | 8 | | | | |
| 31 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 4 | | | | |
| 32 | 4171665.7 | LINK-DUMP VALVE, RH | 1 | | | | |
| 33 | 4171664.7 | LINK-DUMP VALVE, LH | 1 | | | | |
| 34 | 2720977 | SPRING-COMPRESSION | 2 | | | | |
| 35 | 4148697 | ROD-PULL FREEWHEEL | 2 | | | | |
| 36 | 64229-01 | NUT-NYLON LOCK 1/4-20 | 2 | | | | |
| 37 | 2720396 | FILTER-25 MICRON SMALL CA | AN 1 | | | | |
| 38 | 138059 | FILTER HEAD | 1 | | | | |
| | | | | | | | |
| | | | | | | | |

OIL COOLING SYSTEM







OIL COOLING SYSTEM

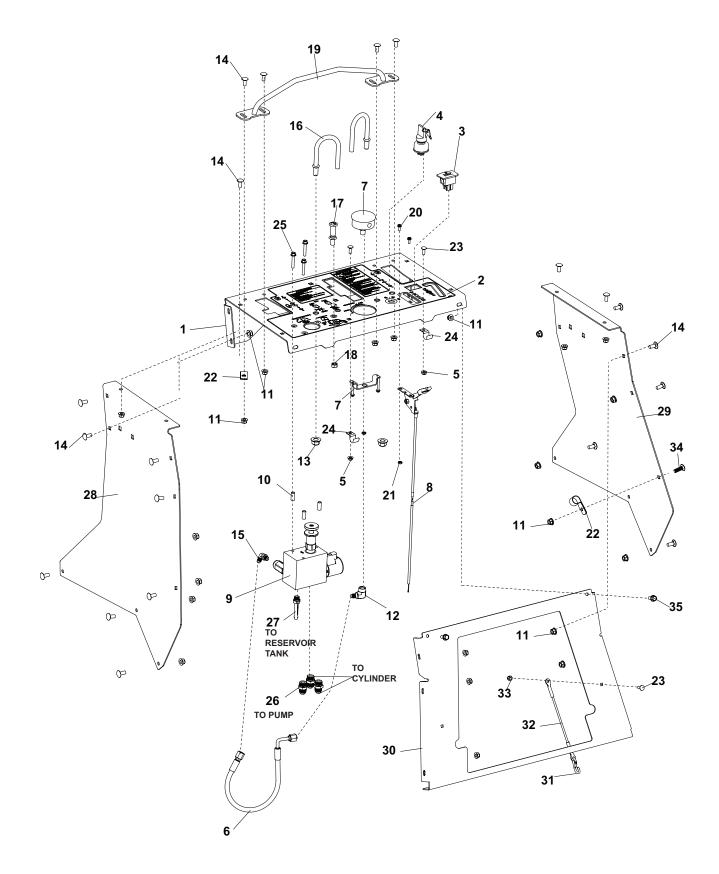
FIGURE 8

| ITEN | I PART NO | . DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-------------|------------------------------|-----|------|----------|-------------|-----|
| 1 | 2188173 | COOLER-OIL | 1 | | | | |
| 2 | 4173495 | S-RESERVOIR | 1 | | | | |
| 3 | 4171280 | MANIFOLD-AERATOR | 1 | | | | |
| 4 | 4171284 | GAUGE-HYDRAULIC 0-1000 PS | 1 | | | | |
| 5 | 4171281 | CYLINDER-2.25 X 3.0 | 1 | | | | |
| 6 | 4173822 | PUMP-GEAR 2.11CC | 1 | | | | |
| 7 | 4171282 | TRANSAXLE, HYDROSTATIC LH | H 1 | | | | |
| 3 | 4171283 | TRANSAXLE, HYDROSTATIC RI | H 1 | | | | |
| 9 | 2720396 | FILTER-25 MICRON SMALL CAN | 12 | | | | |
| 10 | 138059 | FILTER HEAD | 2 | | | | |
| 11 | 4172699 | FTG -06 MORB X 3/8 HOSE 90 | 1 | | | | |
| 12 | 2690030-03 | FTG-3/4-16 ORB X 1/2 BARB 45 | 2 | | | | |
| 13 | 4172704 | TUBE-TRANS - COOLER | 1 | | | | |
| 14 | 4172705 | TUBE RESERVOIR-FILTER | 1 | | | | |
| 15 | 4172860 | FTG-3/8 Y HOSE CONNECTOR | 1 | | | | |
| 6 | 58026-04 | CONNECTOR-3 WAY, 1/2" | 1 | | | | |
| 17 | 158058-04 | FTG -06 MORB X 3/8 HOSE 90 | 1 | | | | |
| 8 | 2690030-01 | FITTING-9/16-18 ORB X 3/8 | 1 | | | | |
| 9 | 4166840-03 | HOSE-#6 JIC/90 JIC X 39.75 | 1 | | | | |
| 20 | 2690030-03 | FTG-3/4-16 ORB X 1/2 BARB | 1 | | | | |
| 21 | 25-2503-8-6 | FITTING-90 -9 MORB X -6 MJIC | 1 | | | | |
| 22 | 88042-04 | CLAMP, HOSE | 14 | | | | |
| 23 | 69053-05 | HOSE-HYD (9" L) | 4 | | | | |
| 24 | 4166839-03 | HOSE-#6 JIC/JIC 19.5 | 1 | | | | |
| 25 | 4166839-02 | HOSE-#6 JIC/JIC 18.5 | 1 | | | | |
| 26 | 25-2503-6-6 | FITTING 90 -6 MORB X -6 MJIC | 2 | | | | |
| 27 | 138058-09 | HOSE-BULK .50ID X .84 OD | 2 | | | | |
| 28 | 88042-05 | CLAMP-HOSE 13/16 | 14 | | | | |
| 9 | 4172859-03 | HOSE- 3/8 ID X 5/8 OD CLEAR | 1 | | | | |
| 0 | 4173002 | VENT-BREATHER | 1 | | | | |
| 1 | 69053-05 | HOSE-HYD (9" L) | 1 | | | | |
| 2 | 138058-09 | HOSE-BULK.50IDX.84OD | 4 | | | | |
| 3 | 108086-03 | FTG-BARB 90-1/2 X 3/8 MNPT | 2 | | | | |
| 4 | 4164252-002 | FITTING-3/8MNPT X 1/2M BARE | 32 | | | | |
| 5 | 69053-05 | HOSE-HYDRO | 3 | | | | |
| 6 | 25-2502-4-4 | FTG 90 -4 MJIC X -4 FPT | 1 | | | | |
| 37 | 4172326-01 | HOSE-#4JIC/JIC 90 LG 17.38 | 1 | | | | |
| 38 | 69060-01 | FITTING-ORB X 45 BARB | 1 | | | | |
| 39 | 25-0503-6-6 | FITTING STR -6 M ORB/-6 MJIC | 3 | | | | |
| 0 | 158061-32 | O-RING #228 BUNA | 2 | | | | |
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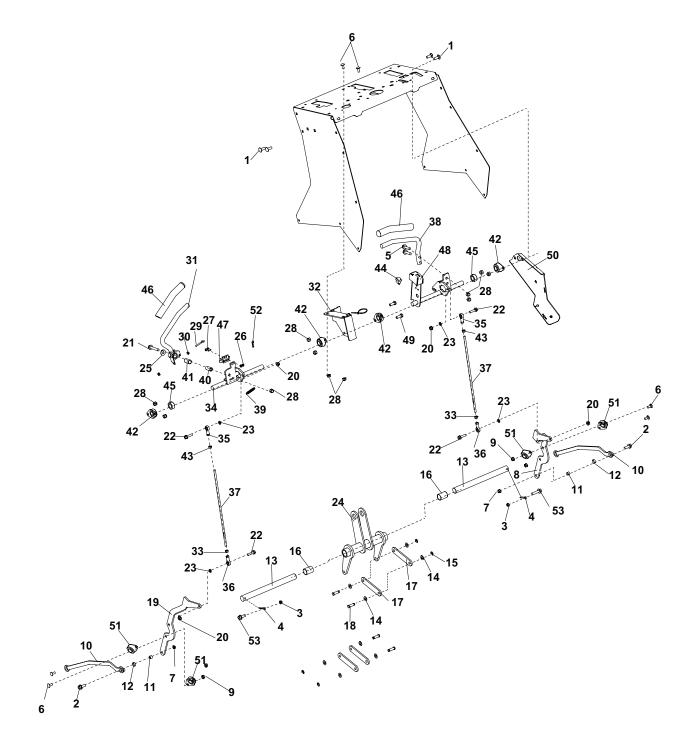
CONTROL PANEL & TOWER ASSY

FIGURE 9

| ITEN | I PART NO | . DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|-------------|------------------------------|------|------|----------|-------------|-----|
| 1 | 4173497 | S-CONTROL PANEL | 1 | | | | |
| 2 | 4172858 | LABEL-CONTROL PANEL | 1 | | | | |
| 3 | 4171992 | HOUR METER-MAG SENSE | 1 | | | | |
| 4 | 128010 | SWITCH KEY | 1 | | | | |
| 5 | 64141-2 | NUT-WLF 1/4-20 | 2 | | | | |
| 6 | 4172326-01 | HOSE-#4JIC/JIC 90 LG 17.38 | 1 | | | | |
| 7 | 4171284 | GAUGE-HYDRAULIC 0-1000 PS | SI 1 | | | | |
| 8 | 118020-22 | CONTROL-THROTTLE, 57.5IN | 1 | | | | |
| 9 | 4171280 | MANIFOLD-AERATOR | 1 | | | | |
| 10 | 820529 | SPACER | 3 | | | | |
| 11 | 64268-02 | NUT-FL NYLON LOCK 5/16-18 | 21 | | | | |
| 12 | 25-2502-4-4 | FTG 90 -4 MJIC X -4 FPT | 1 | | | | |
| 13 | 64268-05 | NUT-FL NYLON LOCK 1/2-13 | 2 | | | | |
| 14 | 64018-51 | BLT-CRG 5/16-18 X 3/4 SN | 17 | | | | |
| 15 | 25-2503-4-4 | FITTING-ORB X 45 BARB | 1 | | | | |
| 16 | 4171511 | BAR-REFERENCE REVERSE | 2 | | | | |
| 17 | 108009-03 | CONTROL-CHOKE 51 | 1 | | | | |
| 18 | 64025-04 | NUT-3/8-24 HEX | 1 | | | | |
| 19 | 4170593.7 | WLDMT-FRONT POINT | 1 | | | | |
| 20 | 64152-46 | SCREW-SLT HH 10-24X1/2 | 2 | | | | |
| 21 | 64025-15 | NUT-HEX #10-24 KEPS | 2 | | | | |
| 22 | 48228-2A | CLAMP-3/4 CLIP | 2 | | | | |
| 23 | 64018-2 | BLT-CRG 1/4-20X3/4 | 3 | | | | |
| 24 | 4171606-1 | CLAMP-HALF, 5/8 HOSE | 2 | | | | |
| 25 | 64262-005 | BLT-FLG 1/4-20 X 1-1/2 | 3 | | | | |
| 26 | 25-0503-6-6 | FITTING STR -6 M ORB/-6 MJIC | 3 | | | | |
| 27 | 69060-01 | FITTING-ORB X 45 BARB | 1 | | | | |
| 28 | 4173498 | S-PANEL, TOWER LH | 1 | | | | |
| 29 | 4173499 | S-PANEL, TOWER RH | 1 | | | | |
| 30 | 4171495.2 | PANEL-BACK | 1 | | | | |
| 31 | 4172866 | SNAP-SPRING 3/16 | 1 | | | | |
| 32 | 4171100 | TETHER-WIRE, COATED | 1 | | | | |
| 33 | 64229-01 | NUT-NYLON LOCK 1/4-20 | 1 | | | | |
| 34 | 64018-15 | BLT-CRG 5/16-18X1 SN | 1 | | | | |
| 35 | 64262-006 | BLT-FLG HD 5/16-18 X 3/4 | 2 | | | | |
| | *N | | | | | | |

*NOT ILLUSTRATED

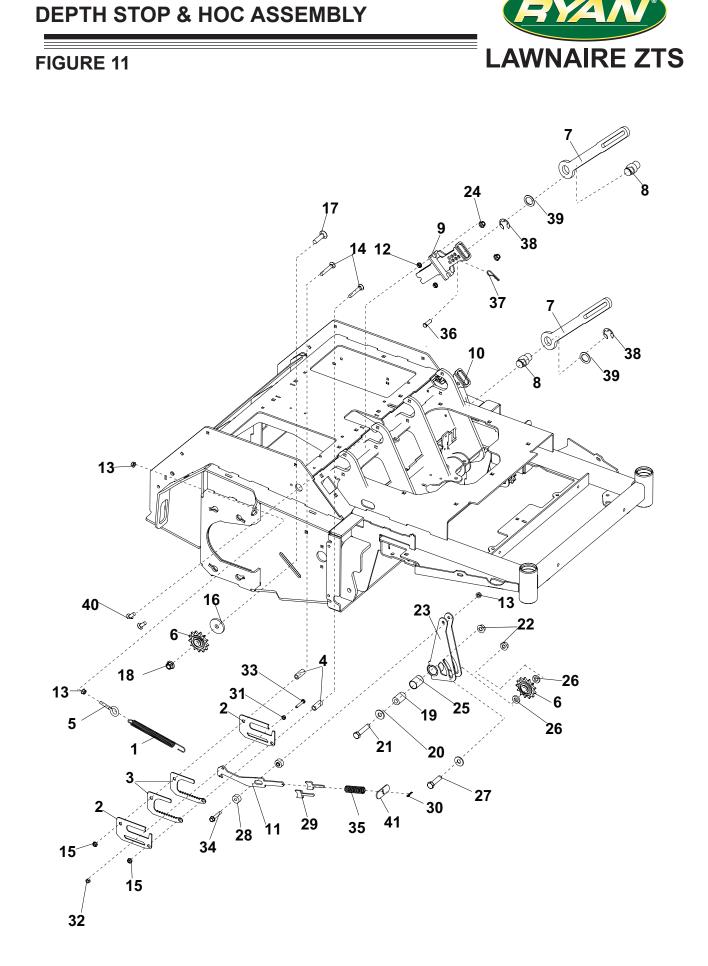
EYAN LAWNAIRE ZTS





HANDLE CONTROLS

| ITE | M PART N | O. [| DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----|------------|----------|-------------------------|-----|------|----------|-------------|-----|
| 1 | 64018-44 | BLT-CRO | G 3/8-16X1 SN | 4 | | | | |
| 2 | 64262-012 | | HD 3/8-16 X 1-1/4 | 2 | | | | |
| 3 | 64268-01 | NUT-FL | NYLON LOCK 1/4-20 | 2 | | | | |
| 4 | 64140-18 | COTTEF | R PIN-1/4-2 | 2 | | | | |
| 5 | 64262-013 | BLT-FLG | 6 HD 3/8-16 X 1-1/2 | 2 | | | | |
| 6 | 64018-51 | BLT-CRO | G 5/16-18 X 3/4 SN | 6 | | | | |
| 7 | 64229-03 | NUT-NY | LON LOCK, 3/8-16 JAM | 2 | | | | |
| 8 | 4171478.7 | ARM-LIN | IK, RH | 1 | | | | |
| 9 | 64141-6 | NUT-WL | F 5/16-18 | 4 | | | | |
| 10 | 4171476.7 | LINK-TR | ANSAXLE | 2 | | | | |
| 11 | 518438 | BUSHIN | G | 2 | | | | |
| 12 | 4169194 | BUSHIN | G522 X688 X .289 | 2 | | | | |
| 13 | 4171388 | SHAFT-L | _IFT PIVOT | 2 | | | | |
| 14 | 64163-61 | WSHR .8 | 31X.406X16GA | 8 | | | | |
| 15 | 64221-07 | E-RING, | | 4 | | | | |
| 16 | 4166324-03 | BEARIN | G-PLASTIC 1.000 ID | 2 | | | | |
| 17 | 4171416.7 | LINK-LIF | T | 4 | | | | |
| 18 | 33138-07 | PIN CLE | VIS GRVD .38 X 1.25 | 4 | | | | |
| 19 | 4171479.7 | ARM-LIN | IK, RH | 1 | | | | |
| 20 | 64268-02 | NUT-FL | NYLON LOCK 5/16-18 | 6 | | | | |
| 21 | 64262-027 | BLT-FLG | 6 HD 3/8-16 X 2-1/4 GR8 | 1 | | | | |
| 22 | 64262-008 | BLT-FLG | 6 HD 5/16-18 X 1-1/4 | 4 | | | | |
| 23 | 64163-02 | WSHR .3 | 328X608X11GA | 4 | | | | |
| 24 | 4171433.7 | WLDMT- | LIFT PIVOT | 1 | | | | |
| 25 | 64163-31 | WSHR 2 | 25/64X1X12 | 1 | | | | |
| 26 | 64025-15 | NUT-HE | X #10-24 KEPS | 2 | | | | |
| 27 | 64152-49 | SCREW | -SLT HH 10-24X1.25 | 2 | | | | |
| 28 | 64229-03 | NUT-NY | LON LOCK 3/8-16 | 11 | | | | |
| 29 | 64158-01 | EYE BO | LT-10-24 X 1.25 THD LG | 1 | | | | |
| 30 | 64141-15 | NUT-WL | F 10-24 | 2 | | | | |
| 31 | 4171442 | HANDLE | -CNTRL OP PRESENCE | 1 | | | | |
| 32 | 4171515.7 | BRKT-C | ONTROL LEVER | 1 | | | | |
| 33 | 64025-03 | NUT-HE | X 5/16-24 | 2 | | | | |
| 34 | 4171520.7 | BAR-CO | NTROL | 1 | | | | |
| 35 | 4143595-02 | ROD EN | D-FEMALE 5/16-24 LH | 2 | | | | |
| 36 | 4143595-01 | ROD EN | D-FEMALE | 2 | | | | |
| 37 | 4171475 | ROD-CC | | 2 | | | | |
| 38 | 4171171 | | E-CONTROL, STATIONAR | Y 1 | | | | |
| 39 | 4171461 | | -EXTENSION | 1 | | | | |
| 40 | 4171409 | | R625 X.386X1.260 | 1 | | | | |
| 41 | 4166324-04 | | G-PLASTIC .625 X1.25L0 | | | | | |
| 42 | 2188145 | BEARIN | G75ID BRZ SELF ALIGI | | | | | |
| 43 | 64025-33 | | X 5/16-24 LH | 2 | | | | |
| 44 | 4171893 | | I-MINIATURE ROCKER | 1 | | | | |
| 45 | 85-SC12 | | LLAR 3/4" | 2 | | | | |
| 46 | 4172963 | | ONTROL | 2 | | | | |
| 47 | 108208 | | I DBL POLE | 1 | | | | |
| 48 | 4171523.7 | ARM-SV | | 1 | | | | |
| 49 | 64123-50 | | (3/8-16X1 | 2 | | | | |
| 50 | 4171573.7 | | RAKE MOUNT | 1 | | | | |
| 51 | 4168069 | | G-FLUSHMNT,1.0 SHAF | | | | | |
| 52 | 64168-2 | | R-HAIRPIN.08X1.19 | 1 | | | | |
| 53 | 64262-003 | BLT-FLG | 6 HD 1/4-20 X 1 | 2 | | | | |
| | | | | | | | | |
| | | | | | | | | |





DEPTH STOP & HOC ASSEMBLY

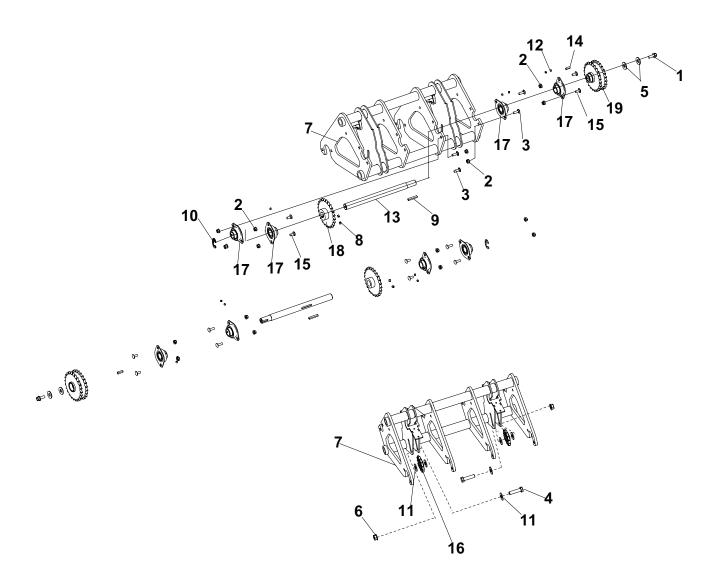
FIGURE 11

| ITEM | PART NO. | DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|----------------------------|-----|------|----------|-------------|-----|
| 1 | 4117212 | SPRING-EXTENSION | 2 | | | | |
| 2 | 4172452 | PLATE-GUIDE | 4 | | | | |
| 3 | 4172453 | PLATE-LOCK | 4 | | | | |
| 4 | 2183071-04 | SPACER | 4 | | | | |
| 5 | 4169597 | EYE BOLT 5/16-18 X 1.5 | 2 | | | | |
| 6 | 83-5013E08 | SPROCKET-WHEEL, FRONT | 4 | | | | |
| 7 | 4172671 | ARM-DEPTH | 2 | | | | |
| 8 | 4172672 | HUB-DEPTH ARM | 2 | | | | |
| 9 | 4172679.7 | WLDMT-DEPTH SET RH | 1 | | | | |
| 10 | 4172677.7 | WLDMT-DEPTH SET LH | 1 | | | | |
| 11 | 4172454 | ARM-IDLER LOCK | 2 | | | | |
| 12 | 64001-6 | NUT-HEX JAM 3/8-16 | 4 | | | | |
| 13 | 64141-6 | NUT-WLF 5/16-18 | 6 | | | | |
| 14 | 64018-31 | BLT-CRG 3/8-16 X 2-1/2 | 4 | | | | |
| 15 | 64141-4 | NUT-WLF, 3/8-16 | 4 | | | | |
| 16 | 64163-74 | WASHER: .516 X 2.00 X .250 | 2 | | | | |
| 17 | 64018-13 | BLT-CRG 1/2-13X2 GR5 | 2 | | | | |
| 18 | 64268-05 | NUT-FL NYLON LOCK 1/2-13 | 2 | | | | |
| 19 | 4168176 | TUBE-PIVOT, IDLER INNER | 2 | | | | |
| 20 | 64163-19 | WSHR 33/64X1-1/4X12GA | 4 | | | | |
| 21 | 64123-72 | BLT-HEX 1/2-13X2-1/2 | 2 | | | | |
| 22 | 64141-13 | NUT-WLF 1/2-13 | 4 | | | | |
| 23 | 4172457.7 | WLDMT-IDLER ARM | 2 | | | | |
| 24 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 4 | | | | |
| 25 | 4166324-03 | BEARING-PLASTIC 1.000 ID | 2 | | | | |
| 26 | 64163-36 | WSHR 1X33/64X.187 | 4 | | | | |
| 27 | 64123-24 | BLT-HEX 1/2-13X2 | 2 | | | | |
| 28 | 4172782 | HUB-TENSIONER ARM | 4 | | | | |
| 29 | 4172783 | PLATE-SPRING GUIDE | 4 | | | | |
| 30 | 64168-2 | COTTER-HAIRPIN .08 X 1.19 | 2 | | | | |
| 31 | 64025-01 | 1/4-20 HEX NUT | 2 | | | | |
| 32 | 64229-01 | NUT-NYLON LOCK 1/4-20 | 2 | | | | |
| 33 | 64123-07 | BLT-HEX 1/4-20X1-1/2 | 2 | | | | |
| 34 | 64262-019 | BLT-FLG HD 5/16-18 X 1-3/4 | 2 | | | | |
| 35 | 4166927 | SPRING COMPRESSION | 2 | | | | |
| 36 | 64188-68 | PIN-CLEVIS 3/8 X 1.25 | 2 | | | | |
| 37 | 64168-7 | COTTER-HAIRPIN .091 X 1.88 | | | | | |
| 38 | 64221-1 | E-RING, 1" | 2 | | | | |
| 39 | 64163-64 | WSHR 1.015X1.500X14GA | 2 | | | | |
| 40 | 64018-44 | BLT-CRG 3/8-16X1 SN | 4 | | | | |
| 40 | 4172784 | PLT-SPRING STOP | 2 | | | | |
| | 7112104 | | 4 | | | | |
| | | | | | | | |

* NOT ILLUSTRATED

JACKSHAFT ASSEMBLY





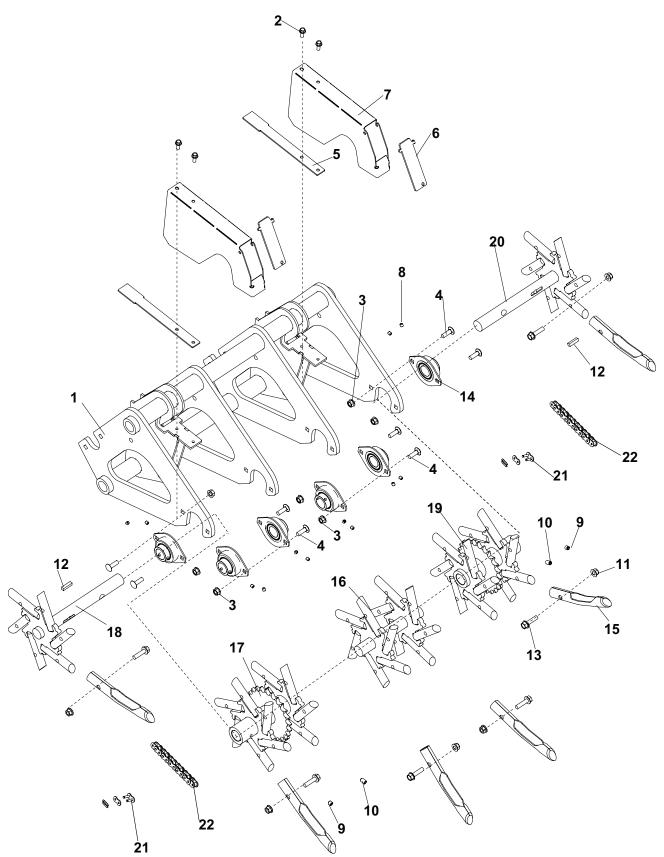


JACKSHAFT ASSEMBLY

| ITE | M PART NO | D. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----|-------------|--------------------------|-----|------|----------|-------------|-----|
| 1 | 64262-011 | BLT-FLG HD 3/8-16 X 1 | 2 | | | | |
| 2 | 64141-6 | NUT-WLF 5/16-18 | 16 | | | | |
| 3 | 64018-15 | BLT-CRG 5/16-18X1 SN | 8 | | | | |
| 4 | 64123-24 | BLT-HEX 1/2-13X2 | 2 | | | | |
| 5 | 64163-19 | WSHR 33/64X1-1/4X12GA | 4 | | | | |
| 6 | 64141-13 | NUT-WLF 1/2-13 | 2 | | | | |
| 7 | 4171394.7 | WLDMT-TINE ASSY | 1 | | | | |
| 8 | 64044-18 | SCREW-SET 5/16-18 x 5/16 | 4 | | | | |
| 9 | 64164-40 | KEY 1/4 X 1 3/4 SQ | 2 | | | | |
| 10 | 64221-1 | E-RING 25MM/1.00 | 2 | | | | |
| 11 | 64163-124 | WSHR531 X 1.50X 1.25 | 6 | | | | |
| 12 | 64044-13 | SCREW-SET 1/4-28X1/4 | 16 | | | | |
| 13 | 4173659 | SHAFT - HALF, TINE DRIVE | 2 | | | | |
| 14 | 64164-12 | KEY-1/4X1 SQ | 2 | | | | |
| 15 | 64018-51 | BLT-CRG 5/16-18 X 3/4 SN | 8 | | | | |
| 16 | 83-5013E08 | SPROCKET-WHEEL, FRONT | 2 | | | | |
| 17 | 4168069 | BEARING-1" FLUSHMOUNT | 8 | | | | |
| | (INCLUDES I | TEM 12) | | | | | |
| 18 | 4171445 | SPROCKET | 2 | | | | |
| 19 | 4171359 | SPROCKET, DBL | 2 | | | | |
| 20 | | | | | | | |

TINE ASSEMBLY





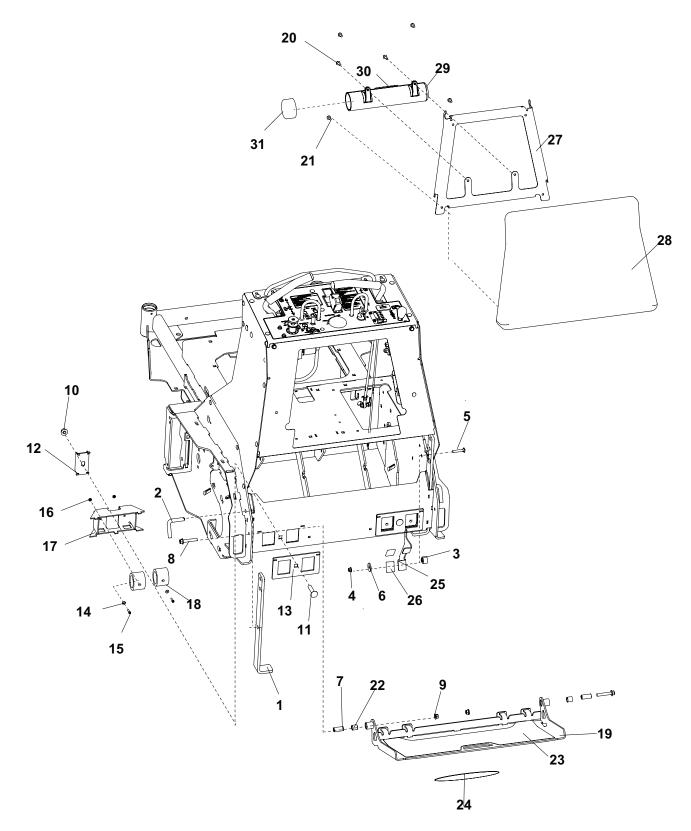


TINE ASSEMBLY

| ITEN | I PART NO | D. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----------------|---|--|--|------|----------|-------------|-----|
| | 4171394.7 64197-025 64141-6 64018-15 4171363.7 4172290.7 4172291.7 64044-13 64044-18 64044-25 64268-02 64164-12 64262-008 4168069 (INCLUDES I | WLDMT-TINE ASSY BLT-TDFM 1/4-20X5/8 NUT-WLF 5/16-18 BLT-CRG 5/16-18X1 SN PLATE-CHAIN COVER DOOR-CHAIN COVER COVER-CHAIN SCREW-SET 1/4-28X1/4 SCREW-SET 5/16-18 x 5/16 SCREW-SET 5/16-18 X 5/16 SCREW-SET 5/16-18X1/2 NUT-FL NYLON LOCK 5/16-18 KEY-1/4X1 SQ BLT-FLG HD 5/16-18 X 1-1/4 BEARING-1" FLUSHMOUNT TEM 8) | 1 8 2 2 2 2 2 2 48 2 48 6 | | | | |
| 15 | 522361 4173502 | TINE, CORING 3/4 KIT-TINE, 48 COUNT | 48 | | | | |
| 21 22 23* | 4171338.7 4171329.7 4171321.7 4171334.7 4171322.7 4172865 4172864-02 4173503 LUDES ALL 6 | WLDMT-CENTER TINE SHAFT WLDMT-TINE SPROCKET LH WLDMT-TINE BANK LH WLDMT-TINE SPROCKET RH WLDMT-TINE BANK RH LINK-CONNECTOR CHAIN-50 ROLLER 63 PITCH KIT-CHAIN CHAINS FOR UNIT AND LINI | 1 1 1 2 2 1 | | | | |
| | 1* | NOT ILLUSTRATED | | | | | |

PLATFORM, PAD & JACKSTANDS







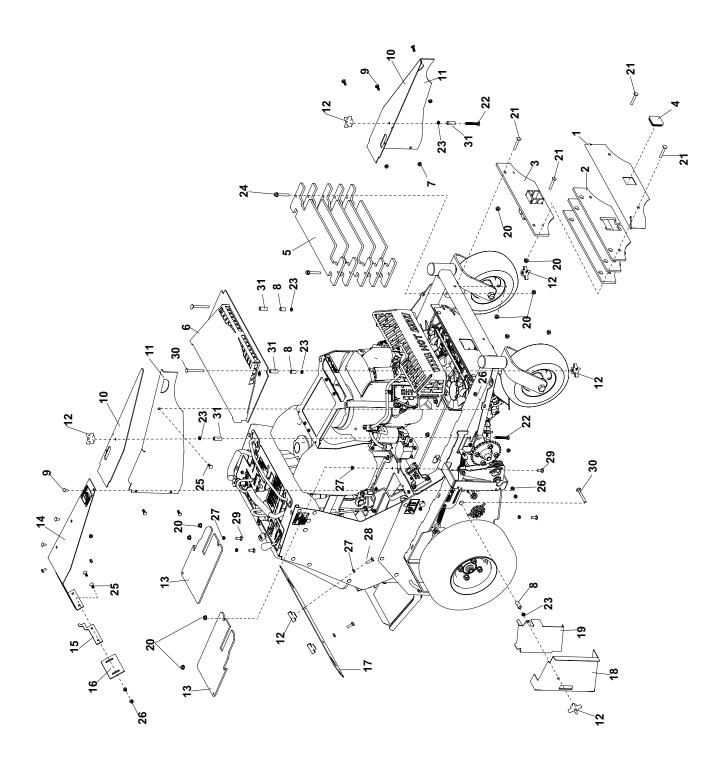
PLATFORM, PAD & JACKSTANDS

FIGURE 14

| ITEM | PART NO | . DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|------------------------------|------|------|----------|-------------|-----|
| 1 | 4172224.2 | PLT-JACK | 2 | | | | |
| 2 | 4172688 | PIN-JACK | 2 | | | | |
| 3 | 4173046 | BUSHING-LATCH ARM | 1 | | | | |
| 4 | 64268-02 | NUT-FL NYLON LOCK 5/16-18 | 1 | | | | |
| 5 | 64018-58 | BLT-CRG 5/16-18X1-3/4 | 1 | | | | |
| 6 | 64163-108 | WSHR334 X 1.25 X .125 | 1 | | | | |
| 7 | 4171391 | BUSHING-SPACER | 2 | | | | |
| 8 | 64262-027 | BLT-FLG HD 3/8-16 X 2-1/4 GR | 82 | | | | |
| 9 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 2 | | | | |
| 10 | 64141-13 | NUT-WLF 1/2-13 | 2 | | | | |
| 11 | 64018-45 | BLT-CRG 1/2-13 X 2-1/4 | 2 | | | | |
| 12 | 4172316.7 | PLT-PLATFORM BRKT | 2 | | | | |
| 13 | 4172318.7 | BRKT-BUMPER SUPPORT | 2 | | | | |
| 14 | 64163-86 | WSHR265 X .625 X .125 | 4 | | | | |
| 15 | 64189-16 | BLT-HEX SOC 1/4-20 X 1 | 4 | | | | |
| 16 | 6422901 | NUT-NYLON LOCK 1/4-20 | 4 | | | | |
| 17 | 4172315.7 | BRKT-PLATFORM DAMPER | 2 | | | | |
| 18 | 4170585 | BUMPER-RADIAL | 4 | | | | |
| 19 | 4173514 | S- PLATFORM | 1 | | | | |
| | (INCLUDES | ITEMS 22 & 23) | | | | | |
| 20 | 64262-003 | BLT-FLG 1/4-20 X 1 | 2 | | | | |
| 21 | 64262-002 | BLT-FLG HD 1/4-20 X 3/4 | 4 | | | | |
| 22 | 4166324-06 | BEARING-SLEEVE | 2 | | | | |
| 23 | 4170670 | MAT-FOOTPLATE | 1 | | | | |
| 24 | 4161123 | LABEL-RYAN OVAL 9" | 1 | | | | |
| 25 | 4173037.7 | LATCH-PLATFORM | 1 | | | | |
| 26 | 4171365 | CAP-FOOTPLATE LATCH | 2 | | | | |
| 27 | 4172682.7 | BRKT-PAD, SUPPORT | 1 | | | | |
| 28 | 4171884 | PAD-AERATOR STAND ON GR | AY 1 | | | | |
| 29 | 4160281 | S-TUBE,DOCUMENT | 1 | | | | |
| | | ITEMS 30 & 31) | | | | | |
| 30 | 2000735 | LABEL-OPER MAN | 1 | | | | |
| 31 | 38061A | CAPS VINYL | 1 | | | | |
| ÷ ' | | | | 1 | | | |

***NOT ILLUSTRATED**



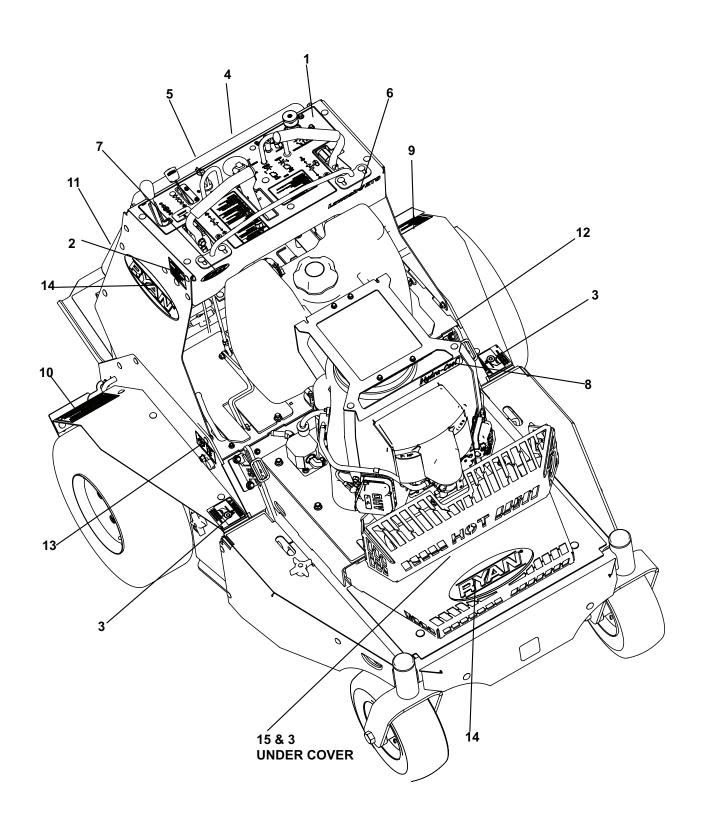




COVERS & GUARDS

| ITEM | PART NO. | DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|------|------------|------------------------------|------|------|----------|-------------|-----|
| 1 | 4172177.2 | COVER-WEIGHT | 1 | | | | |
| 2 | 4171538.2 | PLT-WEIGHT | 3 | | | | |
| 3 | 4172194.2 | WLDMT-HITCH | 1 | | | | |
| 4 | 4172869 | PLUG-HITCH TUBE | 1 | | | | |
| 5 | 4172703.17 | PLT-WEIGHT,CENTER | 5 | | | | |
| 6 | 4172853.2 | WLDMT-COVER FRONT | 1 | | | | |
| 7 | 64141-6 | NUT=WLF 5/16-18 | 6 | | | | |
| 8 | 2183071-03 | SPACER-15.88X10.32X24 | 4 | | | | |
| 9 | 64018-51 | BLT-CRG 5/16-18 X 3/4 SN | 8 | | | | |
| 10 | 4171535.2 | COVER-TOP FRONT | 2 | | | | |
| 11 | 4171537.2 | COVER-FRONT, RH | 1 | | | | |
| | | COVER-FRONT, LH | 1 | | | | |
| 12 | 38524 | KNOB-4 PRONG 3/8-16 | 8 | | | | |
| 13 | 4171521.2 | PLT-TINE COVER, TOP | 2 | | | | |
| 14 | 4173501 | S-FENDER, RIGHT | 1 | | | | |
| | 4173509 | S-FENDER, LEFT | 1 | | | | |
| 15 | 4172800.7 | PLT-PIN LOCK | 2 | | | | |
| 16 | 4171489.7 | PLT-TIRE SCRAPER | 2 | | | | |
| 17 | 4172852.2 | PLT-TINE COVER, REAR | 1 | | | | |
| 18 | 4171484.7 | COVER-CHAIN, RH | 1 | | | | |
| | 4171483.7 | COVER-CHAIN, LH | 1 | | | | |
| 19 | 4172229.7 | COVER-CHAIN,RH REAR | 1 | | | | |
| | 4172228.7 | COVER-CHAIN,LH REAR | 1 | | | | |
| 20 | 64268-03 | NUT-FL NYLON LOCK 3/8-16 | 10 | | | | |
| 21 | 64018-31 | BLT-CRG 3/8-16 X 2-1/2 | 4 | | | | |
| 22 | 64018-47 | BLT-CRG 3/8-16X2-3/4 | 2 | | | | |
| 23 | 64229-03 | NUT-NYLON LOCK, 3/8-16 | 6 | | | | |
| 24 | 64262-025 | BLT-FLG HD 3/8-16 X 2-1/2 LC | | | | | |
| 25 | 64018-15 | BLT-CRG 5/16-18X1 SN | 10 | | | | |
| 26 | 64268-02 | NUT-FL NYLON LOCK 5/16-18 | 3 18 | | | | |
| 27 | 64001-6 | NUT-HEX JAM 3/8-16 | 6 | | | | |
| 28 | 64018-7 | BLT-CRG 3/8-16X1-1/4 | 2 | | | | |
| 29 | 64018-44 | BLT-CRG 3/8-16X1 SN | 4 | | | | |
| 30 | 64018-55 | BLT-CRG 3/8-16X3-1/2 | 4 | | | | |
| 31 | 2183071-02 | SPACER-15.88X10.32X32 | 4 | | | | |





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| ITE | M PART | IO. DESCRIPTION | QTY | ITEM | PART NO. | DESCRIPTION | QTY |
|-----|---------|-------------------------|-----|------|----------|-------------|-----|
| 1 | 4172858 | LABEL- CONTROL PANEL | 1 | | | | |
| 2 | 2000570 | LABEL-WARN FUEL PICT. | 2 | | | | |
| 3 | 2000577 | LABEL WARNING | 3 | | | | |
| 4 | 2000590 | LABEL WARN BATTERY | 1 | | | | |
| 5 | 4172910 | LABEL-RESERVOIR | 1 | | | | |
| 6 | 4172877 | LABEL-LAWNAIRE ZTS | 1 | | | | |
| 7 | 4161125 | LABEL-RYAN OVAL, 3.5" | 1 | | | | |
| 8 | 4172912 | LABEL-HYDRA-COOL | 1 | | | | |
| 9 | 4172915 | LABEL-JACKSTAND | 1 | | | | |
| 10 | 4172911 | LABEL-SLOPES, CA SPARK | 1 | | | | |
| 11 | 4172914 | LABEL-TINES | 1 | | | | |
| 12 | 4172886 | LABEL-DEPTH CONTROL LH | 1 | | | | |
| 13 | 4172887 | LABEL-DEPTH CONTROL RH | 1 | | | | |
| 14 | 4161123 | LABEL-RYAN OVAL, 10" | 4 | | | | |
| 15 | 4172916 | LABEL-BELT ROUTING | 1 | | | | |
| 16* | 2000735 | LABEL- OP MANUAL | 1 | | | | |
| | | LOCATED ON DOCUMENT TUE | 3E | | | | |
| | | | | | | | |

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