OPERATOR'S / PARTS MANUAL

BOB-CAT MOWERS

912360A
BC QUICKCAT 4000 FX600V KAW 36" SD
(S/N 0800 and higher)

912360ACA
BC QUICKCAT 4000 FX600V KAW 36" SD
(S/N 0100 and higher)

912360AAU
BC QUICKCAT 4000 FX600V KAW 36" SD
(S/N 0100 and higher)

MAN 4176978
Rev. A 10-2018

SCHILLER GROUNDS CARE

www.bobcatturf.com

CALIFORNIA PROPOSITION 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

ADVERTENCIA: Cáncer y Dãno Reproductivo - www.65Warnings.ca.gov.

⚠ WARNING

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

⚠ ADVERTENCIA

El estado de California hace saber que los gases de escape de este producto contienen productos quÍ mi-cos que producen cá ncer, defectos de nacimiento y otros dañ os en el proceso de reproducció n humana.

IMPORTANT!

It is a violation of California Public Resource Code Section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered or grass-covered land unless the engine is equipped with a spark arrestor, as defined in Section 4442, maintained in effective working order or the engine is constructed, equipped, and maintained for the prevention of fire.

To acquire a spark arrestor for your unit, see your Engine Service Dealer.

Please refer to the engine manufacturer's information included with the machine.

Labeled power ratings are supplied by the engine manufacturer in accordance with SAE testing and gross/net power rating standards (J1940, J1995, J1349).

IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class mowing 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

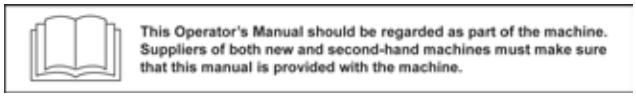
TABLE OF CONTENTS ..... **FIGURES** ..... **PAGE**

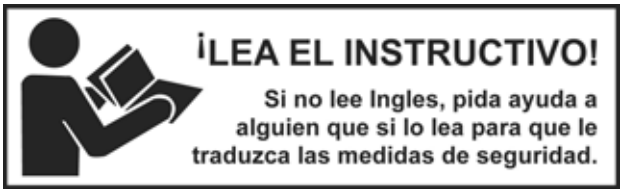
NOTICE !!!

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 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

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

⚠WARNING

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

⚠CAUTION

CAUTION indicates a 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

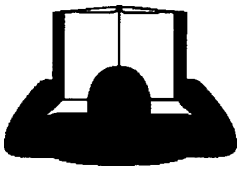
MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

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 under seat plate on Frame of unit.

PREPARING FOR SAFE OPERATION

Operator preparation and training

– **Read, understand, and follow instructions and warnings in the manual and on the machine, engine, and attachments. If you don't understand something or itis unclear; contact your dealer representative for clarification.**



– Become familiar with the safe operation of the equipment, operator controls and safety signs. Be prepared to stop the engine and attachments quickly in an emergency. Do not operate or allow another person to operate this machine if there are any questions about safety.

– Only allow operators who are responsible, trained, familiar with the instructions, and physically capable to operate or service the machine. The owner is responsible for training the users.

– Wear appropriate clothing, including long trousers and safety goggles or safety glasses with side shields when operating mower. Do not operate barefoot or wearing open sandals. Long hair, loose clothing or jewelry may get tangled in moving parts.

– If an operator or mechanic cannot read English, it is the owner's responsibility to explain this material to them.

⚠CAUTION

This machine produced sound levels in excess of 85dBA at the operator's ear. Extended periods of exposure can cause hearing loss.

– Wear hearing protection.

– Never allow children, unskilled or improperly trained people to operate this equipment. Local regulations can restrict the age of the operator.

– Only adults and mature teenagers should operate a mower. Mature teenagers should have adult supervision. Be sure a teenager:

1. Has read and understands the operator manual and understands the risks involved.
2. Is sufficiently mature to use caution; and
3. Is of sufficient size and weight to operate the controls comfortably and to manage the mower without taking risks.

– Data indicates that those operators age 60 years and above are involved in a large percentage of riding mower-related injuries. Those operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from injury.

– Do not carry passengers, especially small children. They may fall off and be seriously injured.

– Keep warning labels and this operator's manual legible and intact. Replacement labels and manuals are available from the factory.

– Do not operate machine while under the influence of drugs or alcohol or any other condition of impairment.

– The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

Site preparation and circumstances

– Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.

– Clear the area to be mowed of objects such as rocks, toys, wire or other debris that may be picked up or thrown by the mower.

– Be sure the area is clear of pets and people, especially young children. Never assume they will remain where you last saw them. Stop the machine if any enter the area.

– Mow only in daylight or in good artificial light.

– Do not mow wet grass as tires may lose traction.

MACHINE PREPARATION

- Do not tamper with or defeat safety devices. Keep guards, shields and interlock safety devices in place and in proper working condition. They are for your protection.
- Keep all fasteners such as nuts, bolts and pins well secured.
- Visually inspect blades, blade bolts and the cutterdeck assembly for wear or damage. Replace worn or damaged blades and bolts to preserve balance.
- Verify that machine and attachments, if any, are in good operating condition.
- Grass catcher components are subject to wear, damage and deterioration which could expose moving parts or allow objects to be thrown.

FUELING

⚠ WARNING

- Gasoline can be extremely flammable; gasoline vapors are explosive. Use extra care when handling. A fire or explosion from gasoline can burn you or others and /or cause property damage.
- Fill the fuel tank outdoors on level ground, in an open area, when the engine is cold and wipe up any spilled gasoline.
- If the engine has been running, stop the engine and allow to cool for several minutes.
- Do not smoke, stay away from open flames or other possible ignition sources.
- Refuel outdoors, do not refuel in indoors or in an enclosed trailer.
- Use a funnel.
- Do not overfill. Fill to the bottom of the filler neck. The empty space allows for expansion. Overfilling may result in fuel leakage or damage to the engine or emissions system.
- If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
- Replace caps on fuel containers and tanks securely.
- Do not operate without the entire exhaust system in place and in good working condition.

⚠ WARNING

Under certain conditions, static electricity can cause sparks during fueling and 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.
- If a dispenser nozzle must be used, 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.
- Fill the fuel tank outdoors.
- Store fuel only in containers specifically designed for fuel.

⚠ WARNING

Gasoline is harmful or fatal if swallowed. Long-term exposure to vapors has caused cancer in laboratory animals.

- Avoid prolonged breathing of vapors.
- Keep face away from nozzle and gas tank/container opening.
- Keep away from eyes and skin.
- Do not siphon by mouth.

OPERATING SAFELY

⚠ WARNING

Operating engine parts, especially the muffler, become extremely hot. Sever burn can result from contact. Debris such as grass clippings, leaves, brush, etc. can catch fire.

– Allow engine parts, especially the muffler, to cool before touching.
– Remove accumulated debris from engine and muffler area.

⚠ WARNING

Engine exhaust contains carbon monoxide, which is an odorless gas that can kill you.

DO NOT run the engine indoors or in a confined small area (such as an enclosed trailer) where carbon monoxide fumes can collect.

Starting

– Start only according to instructions in this manual or on the machine.
– Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, DO NOT operate the machine; seek shelter.
– Be sure all drives are in neutral and parking brake is engaged before starting engine.
– Do not change engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.

Operation

– Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
– This mower was designed for use by one operator. Keep all others away during operation.
– Do not operate when people, especially children, or pets are in the area.
– Stop the machine if anyone enters the area.
– Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
– Slow down and use caution when making turns and crossing roads and sidewalks.
– Stop blades when not moving.
– Stop blades when crossing surfaces other than grass.
– Do not mow with the discharge deflector raised, removed or altered unless there is a grass collection system or mulch kit in place and working properly.
– Do not start the cutting blades until you are ready to start mowing.
– Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
– Do not direct discharge towards others.
– Avoid discharing material against a wall or obstruction. Material may ricochet back toward the operator.
– Obey safety instructions. Failure to do so may cause injury to yourself and/or others.
– Never leave a running machine unattended. Park on level ground, turn off blades, stop engine and remove key before leaving the operator position.

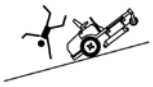
Stopping

– Park the machine on level ground. Stop the engine, remove the key and wait for all parts to stop moving before:
  - Checking cleaning or working on the mower.
  - After striking a foreign object or an abnormal vibration occurs. Inspect and make any necessary repairs before restarting and operating the mower.
  - Before clearing blockages or unclogging.
– Park the machine on level ground. Stop the engine, remove the key and wait for all parts to stop moving.
  - Whenever you leave the mower.
  - Before refueling.
  - Before emptying the grass catcher.
– Be sure all drives are in neutral and parking brake is engaged before starting engine.
– Do not change engine governor settings or overspeed the engine. Operating the engine at excessive speed can increase the hazard of personal injury.

CHILDREN

- Tragic accidents can occur if the operator is not alert to the presence of children Children are often attracted to themachine and the mowing activity. Never assume that children will remain where you last saw them.
- Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.
- Do not carry children, even with the blade(s) shut off. Children could fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past could suddenly appear in the mowing area for another ride and be run over or backed over by the machine.

MOWING SLOPES



WARNING

Operating on wet grass or steep slopes can cause sliding and loss of control. Wheels dropping over edges, ditches, steep banks, or into water can cause roll overs, which may result in serious injury, death or drowning. Slopes are a major factor related to accidents. Operation on slopes requires extra caution.

- DO NOT mow slopes when grass is wet.
- DO NOT mow near drop-offs or water.
- Reduce speed and use extreme caution on slopes.
- Do not operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.
- Avoid sudden turns or rapid speed changes.
- Do not mow on slopes if uneasy or uncertain. Ultimate responsibility for safe operation on slopes rests with the operator.
- Do not mow excessively steep slopes.
- With ride-on machines, including articulated steering machines, mow up and down slopes, not across, except for zero turn machines. Zero turn machines should mow across slopes.
- With walk-behind machines, mow across slopes, not up and down.
- With zero turn machines, mow across slopes, not up and down. If the machine will not stay on the slope, it is too steep.
- Mid-mount zero turn (belly mounted deck) machines have much greater traction pointed up slope then down slope. Be aware that traction may be lost going down a slope. Do not operate a mid-mount zero turn on slopes it cannot back up.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- With a zero turn machine, if tires lose traction going down a slope, steering control may be regained by speeding up.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Do not turn on slopes unless necessary, and then turn slowly and downhill when possible.
- Stay away from slopes if the ground is loose or if caught in the rain during mowing.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Remove obstacles such as rocks, tree limbs, etc. from the grass cutting area.
- Avoid driving over obstacles such as ruts, holes, rocks and roots whenever possible. Be alert to dips and rises. Uneven terrain can overturn a mower or cause it to slide. Tall grasses can hide obstacles.
- Do not mow drop-offs, ditches or embankments. The machine could suddenly turn over if a wheel runs over the edge or an edge caves in.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Be aware that operating on wet grass, across steep slopes or downhill may cause the mower to lose traction. Loss of traction to the drive wheels may result in sliding and loss of braking and steering. Use a walk behind mower and /or hand trimmer near drop-offs, ditches, steep banks or water.

TOWING

– Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.

⚠ WARNING

Transporting

Loading a machine onto a trailer or truck increases the possibility of tip-over and could cause serious injury or death.

– Use extreme caution when operating a machine on a ramp.
– Use only a full-width ramp; do not use individual ramps for each side of machine.
– Avoid sudden acceleration or deceleration while driving the machine on a ramp as this could cause a loss of control or a tip-over situation.
– Shut off fuel when transporting.
– Secure the machine to the truck or trailer.

MAINTENANCE SAFETY

In General

– Keep the machine in good working order.
– Maintain machine according to manufacturer's schedule and instructions for maximum safety and best mowing 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 blades have quit rotating.
– Inspect grass catcher components regularly. If worn, damaged or deteriorated, they may expose moving parts or allow objects to be thrown.
– Replace worn, damaged or faulty parts. 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.
– Keep hands or feet away from moving 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.
– Hydraulic fluid can penetrate skin, use paper to check for leaks. Relieve hydraulic pressure before disconnecting hoses. Make sure connections are tight and hoses are in good condition.

HYDRAULIC SYSTEM

⚠WARNING

Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid accidentally injected into the skin must be surgically removed within a few hours by a doctor familiar with this form of injury or gangrene may result.

- If equipped, make sure all hydraulic fluid hoses and lines are in good condition and all hydraulic connections and fittings are tight before applying pressure to hydraulic system.
- Keep body and hands away from pinhole leaks or nozzles that eject high pressure hydraulic fluid.
- Use cardboard or paper, not your hands, to find hydraulic leaks.
- Safely relieve all pressure in the hydraulic system by placing the motion control levers in neutral and shutting off the engine before performing any work on hydraulic system.

⚠WARNING

Charging or jump starting the battery may produce explosive gases. Battery gases can explode causing serious injury.

- Keep sparks, flames, or cigarettes away from battery.
- Ventilate when charging or using battery in an enclosed space.
- Make sure venting path of battery is always open once battery is filled with acid.
- Always shield eyes and face from battery!

⚠CAUTION

If the ignition is in the "ON" position there is potential for sparks and engagement of components. Sparks could cause an explosion or moving parts could accidentally engage causing personal injury. Be sure ignition switch is in the "OFF" position before charging the battery.

BLADES

⚠WARNING

- Mower blades are sharp and can cut. Use extra caution when handling. Remove obstructions with care. Wrap the blade(s) or wear gloves.
- Be aware that rotating one blade on multi blade mowers can cause other blades to rotate.
- Only replace blades. Never straighten or weld them.
- Keep other persons away from blades.

BATTERY

⚠WARNING

Battery electrolyte contains sulfuric acid which is poisonous and can cause severe burns. Swallowing electrolyte can be fatal. Batteries can produce hydrogen gas which is explosive.

- When working with battery electrolyte, use protective equipment such as, but not limited to, goggles, face shield, rubber gloves and apron.
- 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.

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.

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.
- When the machine is to be parked, stored or left unattended, lower the cutterdeck unless a positive mechanical lock is used.
- 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 cutting units, drives, mufflers and engine to help prevent fires.

TOOLS REQUIRED FOR ASSEMBLY

- Utility knife
- Wrenches: 3/8", 9/16", 3/4"
- Tire pressure gauge

NOTE: All references below to the “right” or “left” are with respect to an operator at the controls.

UNCRATE UNIT

1. Discard packing materials. Remove and discard shipping straps.

2. Set rear tire pressures to 12 lbs/in^2 (0.8 kg/cm^2). Tires are overinflated for shipping. Front tires should be 15 lbs/in^2 (1.05kg/cm^2).

FINAL PREPARATIONS

3. Check the engine and hydraulic oil levels. Top up with the correct oil if necessary. Use SAE 10W30 motor oil for the engine. Use fresh, clean SAE 20W50 motor oil for the hydraulic system. After running for one hour, let hydraulic system oil cool. When cold, check levels.

⚠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 batteries. Read and obey the battery manufacturer’s instructions.

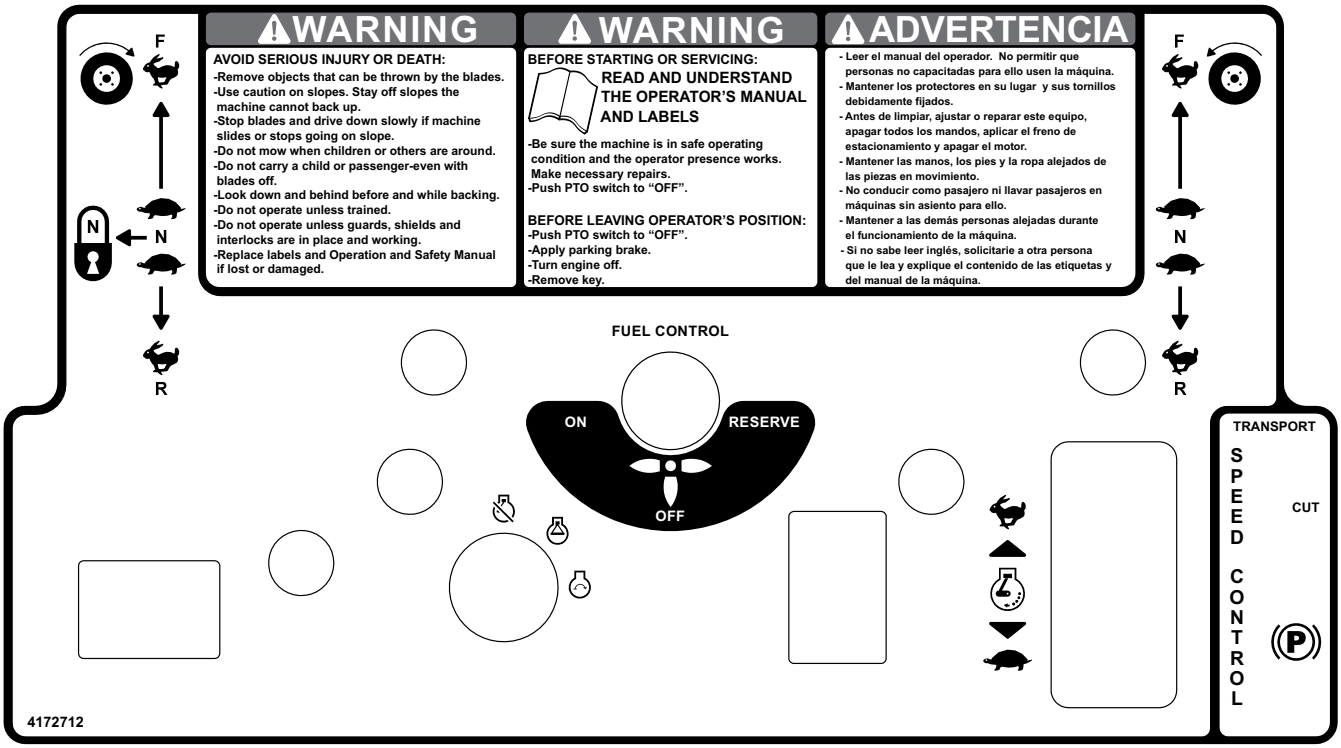
Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

a) Verify battery polarity before connecting or disconnecting the battery cables.

b) When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.

c) Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.

- Read Operation and Safety Manual before starting.
- Deck can be adjusted to allow for the best horsepower, best quality of cut, or best striping. See deck leveling procedure in the Adjustments Section in this manual to set as desired.
- Run engine at full RPM for 5 minutes before engaging blades to allow the engine to be fully lubricated before load is applied.
- Check the hydrostat neutral adjustment. Neutral is set at the factory but may require readjustment if air trapped during the initial oil fill has worked out of the system. See Adjustments Section later in this manual.
- Do not use the machine without an approved grass collector, the grass discharge chute or mulching plates correctly fitted.


WARNING
AVOID SERIOUS INJURY OR DEATH:
-Remove objects that can be thrown by the blades.
-Use caution on slopes. Stay off slopes the machine cannot back up.
-Stop blades and drive down slowly if machine slides or stops going on slope.
-Do not mow when children or others are around.
-Do not carry a child or passenger-even with blades off.
-Look down and behind before and while backing.
-Do not operate unless trained.
-Do not operate unless guards, shields and interlocks are in place and working.
-Replace labels and Operation and Safety Manual if lost or damaged.
WARNING
BEFORE STARTING OR SERVICING:
READ AND UNDERSTAND THE OPERATOR'S MANUAL AND LABELS
-Be sure the machine is in safe operating condition and the operator presence works. Make necessary repairs.
-Push PTO switch to "OFF".
BEFORE LEAVING OPERATOR'S POSITION:
-Push PTO switch to "OFF".
-Apply parking brake.
-Turn engine off.
-Remove key.
ADVERTENCIA
- Leer el manual del operador. No permitir que personas no capacitadas para ello usen la máquina.
- Mantener los protectores en su lugar y sus tornillos debidamente fijados.
- Antes de limpiar, ajustar o reparar este equipo, apagar todos los mandos, aplicar el freno de estacionamiento y apagar el motor.
- Mantener las manos, los pies y la ropa alejados de las piezas en movimiento.
- No conducir como pasajero ni llavar pasajeros en máquinas sin asiento para ello.
- Mantener a las demás personas alejadas durante el funcionamiento de la máquina.
- Si no sabe leer inglés, solicitarie a otra persona que le lea y explique el contenido de las etiquetas y del manual de la máquina.
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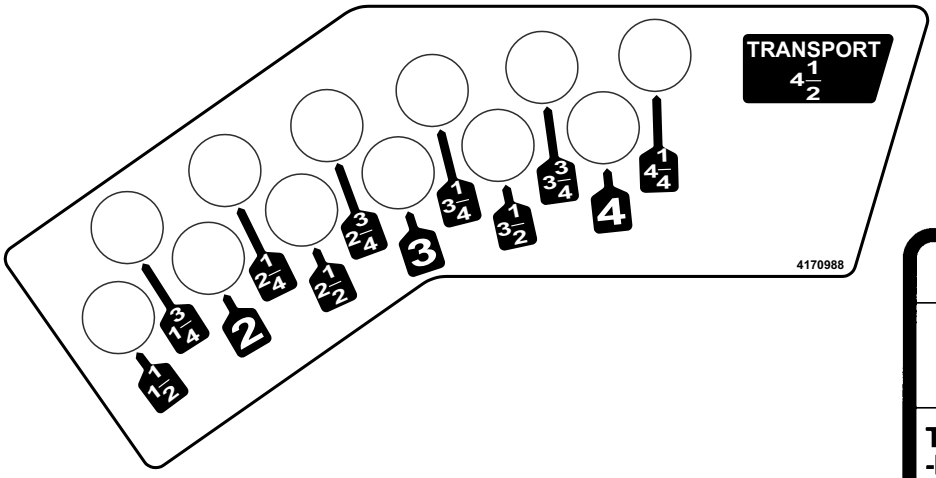
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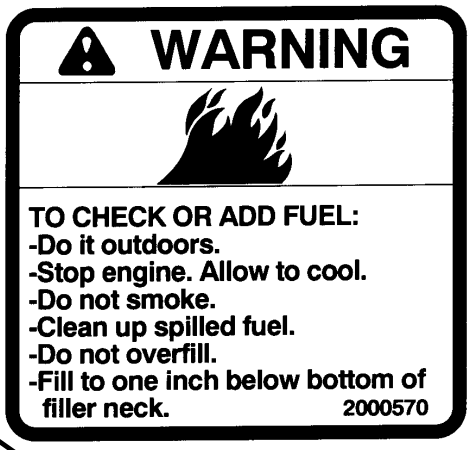
WARNING
TO CHECK OR ADD FUEL:
-Do it outdoors.
-Stop engine. Allow to cool.
-Do not smoke.
-Clean up spilled fuel.
-Do not overfill.
-Fill to one inch below bottom of filler neck.
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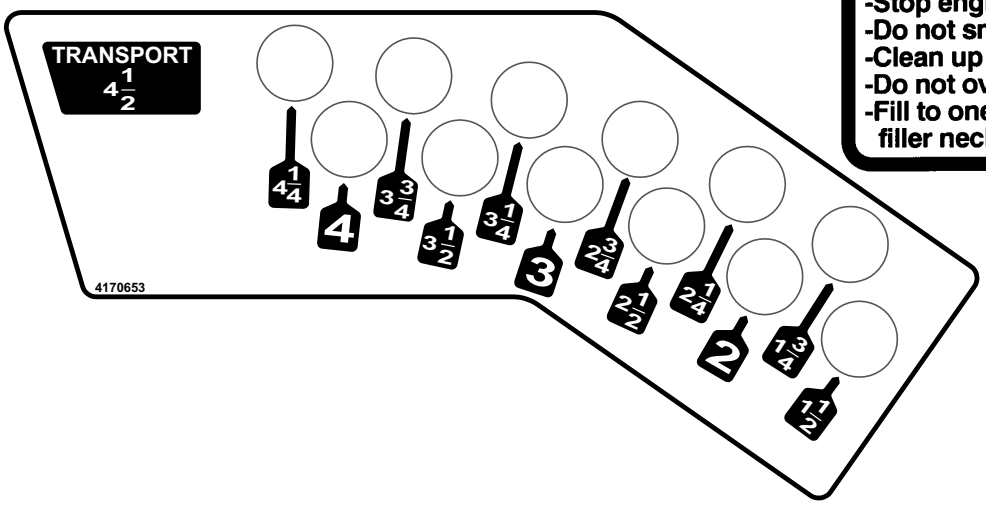
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4 1/4
4170653

WARNING

-REMOVE DEBRIS BUILDUP. DEBRIS UNDER BELT COVER OR NEAR MUFFLER CAN CAUSE FIRES.
-BLADES CONTINUE TO ROTATE FOR A FEW SECONDS AFTER BLADES ARE TURNED OFF.
-BLADES MUST BE AT LEAST 1/8" ABOVE BOTTOM OF HOUSING.
-ALL BLADES MUST BE IDENTICAL. CHECK BLADE BOLTS DAILY FOR TIGHTNESS.
-INSPECT FOR DAMAGE AFTER STRIKING A FOREIGN OBJECT. MAKE REPAIRS BEFORE RESTARTING OPERATION.
-FIND AND REPAIR CAUSE OF ANY ABNORMAL VIBRATION.

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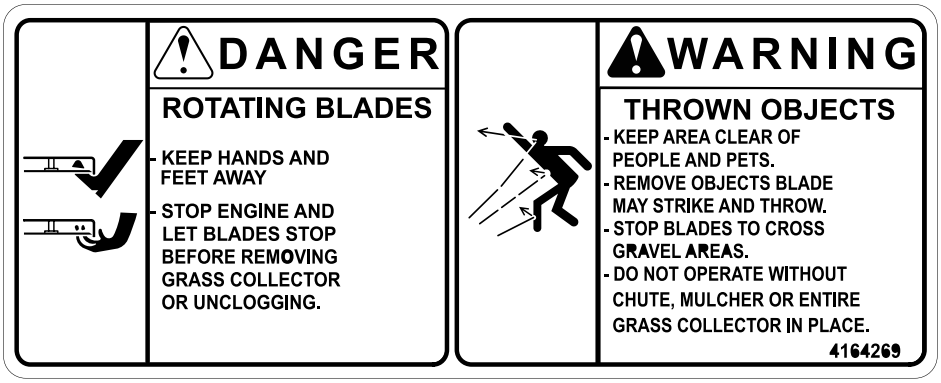
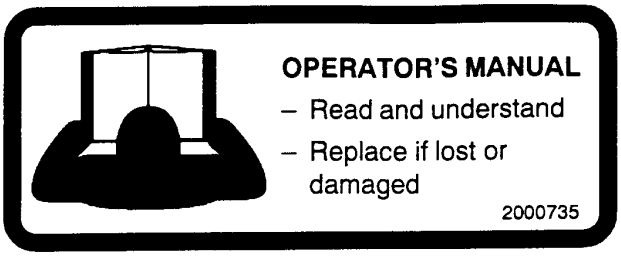
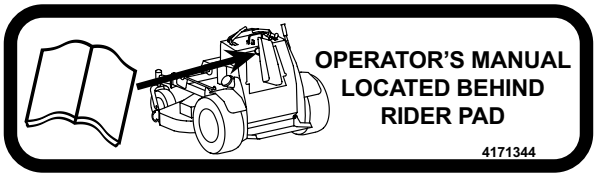
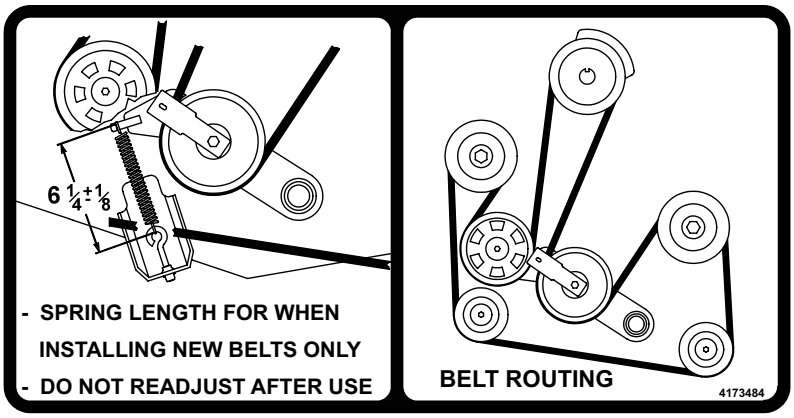
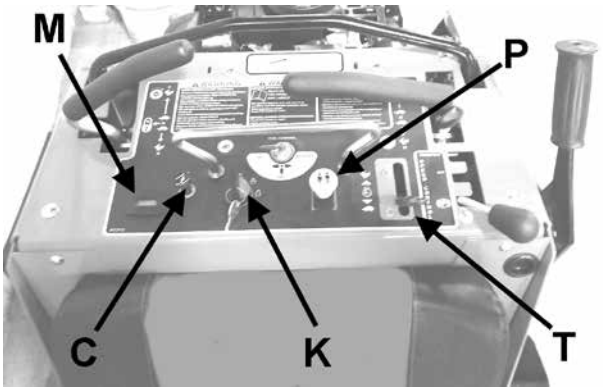










KEYSWITCH (K) - The keyswitch has three positions: OFF, RUN, and START. Insert the key and turn it clockwise to move the switch from OFF to RUN. Turn it further to START and hold to engage the starter. Release the key and the switch will return to RUN from START. Turn the key counterclockwise to OFF to stop the engine.

THROTTLE (T) - Move the throttle lever forward to increase engine speed until the maximum governed engine RPM is reached. Move the lever rearward to decrease engine speed until the engine reaches its idle speed.

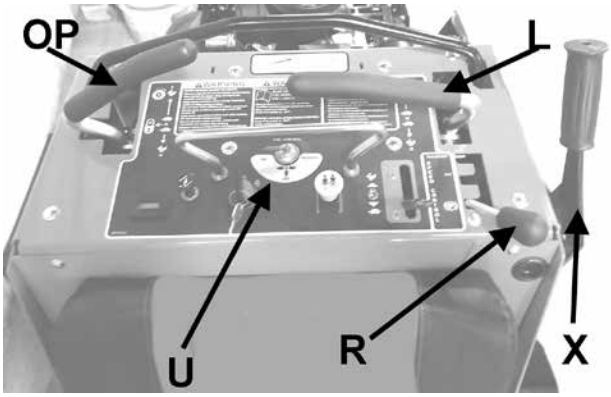
CHOKE (C) - Pull the choke control out to set the choke ON. Push it in to set the choke OFF.

POWER TAKE OFF (PTO) SWITCH (P) - Pulling the PTO switch out engages (turns on) the PTO and starts the blades or other attachment. Pushing the PTO switch in disengages (turns off) the PTO and stops the blades or other attachment. **NOTE:** The PTO switch does not control attachments powered by a separate engine.

- Disengage the PTO whenever you stop or leave the operator's position.
- Shut off engine with the key and remove the spark plug wires before making adjustments or unplugging a clogged mower.
- Do not engage the PTO until ready to start mowing.

FUEL VALVE (U) - On page. 14.

HOUR METER (M) - Records accumulated time the machine is in operation.

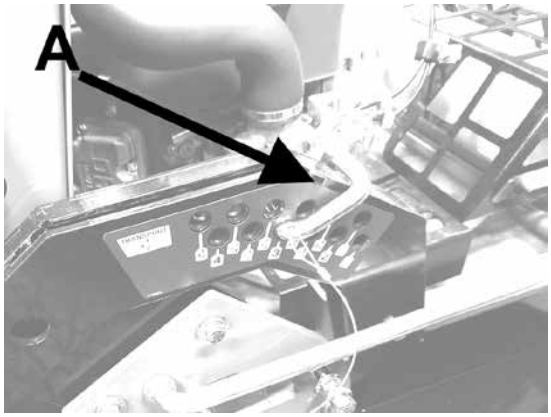


CONTROL LEVERS (L & OP) - Each of the two control levers controls the drive wheel located on its side. They control the forward and reverse movement of the machine, provide steering and also provide dynamic braking.

The left control handle is the operator presence. The operator presence must be held down for PTO operation and when machine is NOT in park. If the PTO switch in ON or machine is NOT in park, the engine will kill.

HEIGHT OF CUT (HOC) HANDLE (X) - Used to secure the cutterdeck in transport position. To return to preset height of cut, lower HOC handle until latch lever contacts height of cut pin **A**.

HEIGHT OF CUT(HOC) PIN (A) - Sets height of cut and allows easy return from transport to desired height of cut. Raise the deck to transport using the HOC handle. Position pin **A** in the hole corresponding to the desired height of cut. Lower the HOC handle until it rests on pin **A**.

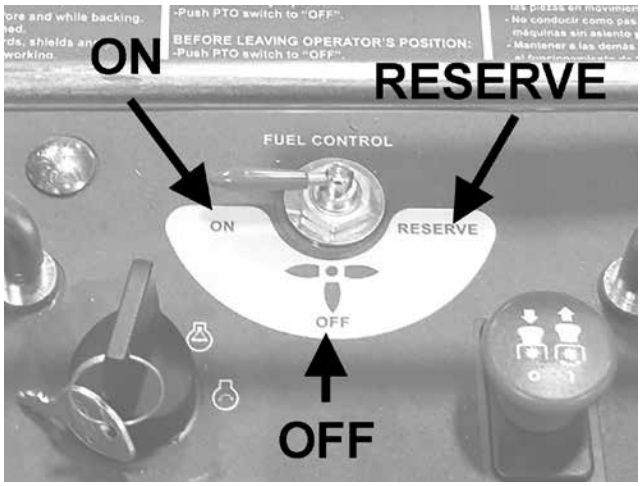


FUEL VALVE (U) - A fuel tank selector valve is provided on the control panel. The fuel tank selector valve has three positions:

OFF: The tank selector is off when the lever points toward the operator The selector should be off whenever the machine is transported or stands unused for any length of time. Shutting off the fuel supply avoids the possibility of flooding should any dirt get under the carburetor float needle. Leaving the tank selector in either tank position can allow severe flooding, which may ruin the engine by diluting the oil.

ON: Fuel flows from the tank when the selector is turned 1/4 turn toward the left, when facing the valve.

RESERVE: Fuel flows from the tank when the selector is turned 1/4 turn toward the right, when facing the valve. A small reserve is available in the event the machine starts to run out of fuel. This reserve is meant to allow you to drive your machine to a safe place to refuel.



Located on control panel.

PARKING BRAKE (R) - Pull the parking brake lever into park to put the parking brake on. This will also lock the control handles. Push the parking brake to "CUT" to limit the speed for maximum recommended cutting speed. Push the parking brake to "TRANSPORT" to allow for maximum speed.

The parking brake must be ON to start the engine. It must also be ON to keep the engine running if the operator releases the operator presence control lever (OP).

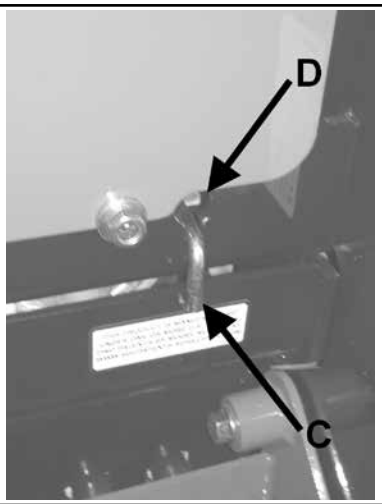
Parking brake in ON position (operator's right side)

PUSHING THE MACHINE

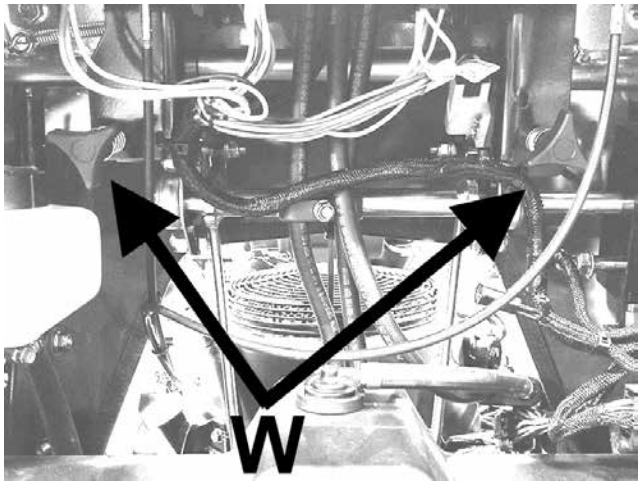
The machine may be pushed with the engine off, the parking brake off, and the bypass valves open.

Bypass valves are located on the frame by the rider platform. To open the bypass valves, move the parking brake to any **OFF** position, then lift and pull bypass control rod **C** through the large opening **D**, until the control rod stop is past the opening. Drop rod **C** into the small opening to lock in place. Repeat for the other bypass control rod.

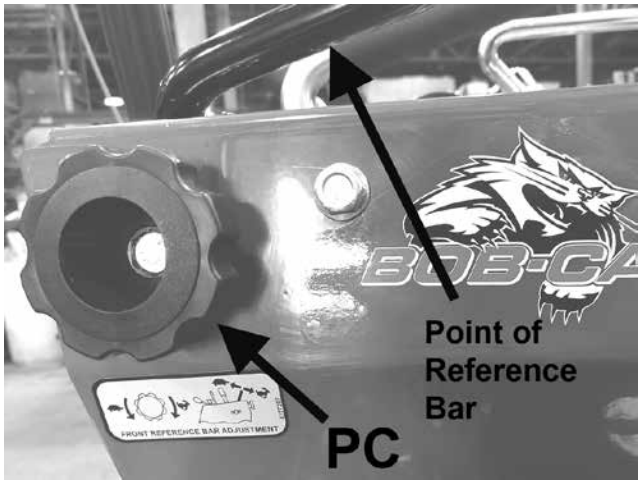
To close the bypass valves, lift bypass control rod **C** allowing the control rod stop to retract through the large opening **D**.



TRACKING CONTROL (W) -Adjusts tracking so machine can drive straight ahead when both traction handles are pushed all the way forward.



FRONT POINT OF REFERENCE CONTROL (PC) - Adjust knob to move the front point of reference bar forward or back to set throw for comfort or a maximum cutting speed. Rotating the knob clockwise moves the bar forward and rotating the knob counter clockwise move the bar back



PRE-OPERATION CHECK LIST

BOB-CAT

PRE-OPERATION CHECK LIST
(OWNER'S RESPONSIBILITY)

___ Review and follow all safety rules and safety decal instructions.
___ Check that all safety decals are installed and in good condition. Replace if damaged.
___ Check to make sure all shields and guards are properly installed and in good condition. Be sure that either the discharge shield or complete vacuum attachment is installed.
___ Check that all hardware is properly installed. and secured.
___ Check that equipment is properly and securely attached to power unit.
___ Check to be sure engine is free of dirt and debris. Pay particular attention to the cooling fins, governor parts and muffler. Clean air intake screen. Check air cleaner; service if necessary.
___ Never allow riders.
___ Inspect area and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
___ Clean area around oil fill dipstick. Remove dipstick and check to be sure oil is in operating range (between marks on dipstick). Add oil if necessary but **Do Not Overfill**. Install dipstick assembly firmly until cap bottoms out on tube. Dipstick assembly must always be secured into fill tube when engine is running.
___ Check all lubrication points and grease as instructed in manual.
___ Check hydrostatic fluid level. Check to be sure cooling fins on hydrostat are clean.
___ Perform a functional check of the safety interlock system each time you operate the unit.

⚠CAUTION

Use caution when making turns. Slow down before making sharp turns to help maintain control and to prevent torn turf from skidding or spinning tires. To help prevent turf damage, keep both drive tires moving whenever a turn is made.

TIP: The best way to make a sharp "zero" turn is to come to a stop, get the machine moving in reverse with both drive wheels and then powering the machine around with the outside wheel. This technique keeps the drive tires turning and results in less turf damage.

⚠WARNING

SERIOUS INJURY OR DEATH MAY RESULT FROM MACHINE ROLLOVER

- DO NOT OPERATE MACHINE ON STEEP SLOPES OR NEAR DROPOFFS
- AVOID SHARP AND/OR QUICK TURNS

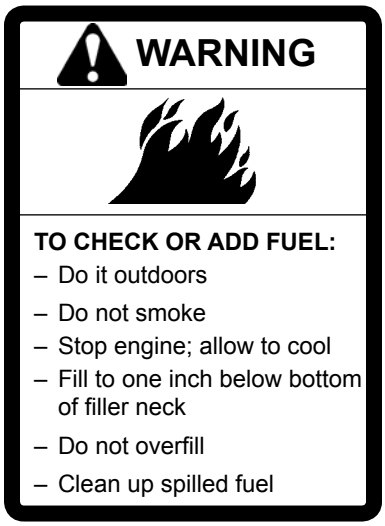
⚠WARNING

ROLLOVER MAY CAUSE PERMANENT INJURY OR DEATH.

- SUDDEN STARTS OR TURNS ON RAMPS OR SLOPES CAN CAUSE OVERTURN.
- USE GREATER CARE ON RAMPS AND AS THE SLOPE INCREASES.

FUELING

- Fill fuel tanks with good quality, clean, unleaded gasoline.
- Use a funnel to avoid spillage.



BEFORE STARTING THE ENGINE

- Be familiar with all controls, how each functions and what each operates.
- Check the engine oil level and add if necessary. Turn fuel valve to ON.
- **Choke:** For cold starts, set the throttle lever to the half-open position and pull the choke out to the ON position. For warm starts set the throttle to the half-open position and the choke to the OFF position.

OPERATOR PRESENCE INTERLOCK SYSTEM

To start the engine:

- The PTO switch must be **OFF**.
- The left handle operator presence handle must be in the neutral position.
- The parking brake must be **ON**.

To operate the machine:

1. The operator must hold the operator presence handle down or engaging the PTO will kill the engine.

STARTING THE ENGINE

1. Turn the key to operate the electric starter to start the engine. Release the key when the engine starts.
2. If the engine does not start immediately, do not crank for more than 10 seconds at a time. Allow 60 seconds for the starter motor to cool down between starting attempts to prevent the starter motor from burning out.
3. If the choke is ON when the engine starts, gradually back it off until the engine runs with no choke at all.

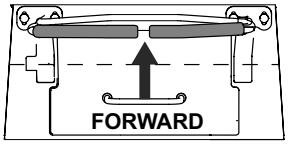
DRIVING

1. With the PTO disengaged, move the parking brake to CUT or TRANSPORT speed position.
2. Move control traction lever out of neutral.
3. Push both traction levers forward evenly to drive forward in a straight line. Pull both traction levers back evenly to drive backward in a straight line.

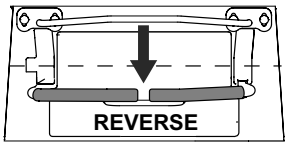
OPERATING NOTES

- Practice at slow engine and travel speeds with the PTO off until fully familiar with the controls.
- For normal cutting, the throttle should be set at the full open position. By using the traction levers to speed up or slow down the machine during use, maximum control and cutting efficiency can be maintained.
- Using the machine at less than full throttle in heavy conditions will cause the engine to labor and result in excessive wear to the engine and hydraulic system.

STEERING



Forward movement - To move the machine straight ahead, push both control levers forward equally from their neutral position. **Increase speed:** as the levers are moved farther forward from the neutral position. There are two maximum forward speeds. There is a "CUT" speed and a "TRANSPORT" speed. Cut speed is limited to a maximum recommended speed to obtain a good quality cut. Transport speed is limited to the maximum speed of the machine. **Decrease speed:** when traveling forward, pulling the traction levers rearward slows the machine. **Stopping:** The machine will stop when the levers reach the neutral position.

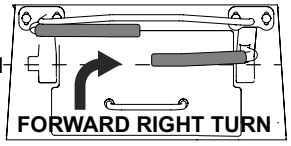


Reverse movement - To move the machine straight back, pull both traction levers back equally from their neutral position. Reverse speed increases as the levers are moved back farther. Maximum reverse speed is reached when the levers stop. When moving in reverse, pushing the levers forward slows the machine, and the machine stops when the neutral position is reached.

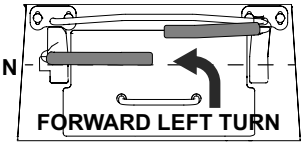
NOTE: The control levers are spring loaded to return to neutral in both forward and reverse. This spring resistance may be felt when moving the traction levers. When control levers are released, spring tension will return them to the neutral position.

To turn, move one lever forward and one back.

Turns during forward movement:

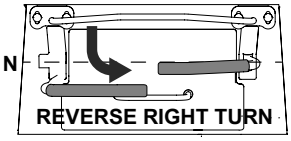


– **Forward Right turn** - move the right traction lever back toward neutral to slow the right drive wheel.

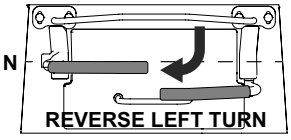


– **Forward Left turn** - move the left traction lever back toward neutral to slow the left drive wheel.

Turns during reverse movement:

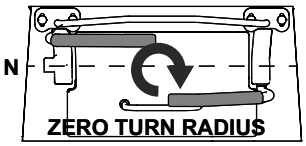


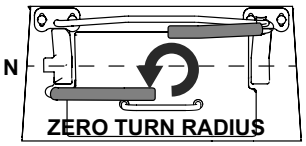
– **Reverse right turn** - move the right traction lever forward toward neutral to slow the right drive wheel.



– **Reverse left turn** - move the left traction lever forward toward neutral to slow the left drive wheel.

Slow, sweeping turns are made with both traction levers on the same side of neutral and slightly apart. True zero radius turns about the center of the machine are made by having one lever in reverse while the other is in forward. By varying the relative positions of the two levers, the rate of turn is varied to suit the mowing situation.





Slow down before making sharp turns. The machine is capable of turning very rapidly when the levers are moved further apart from each other. Loss of control and/or turf damage may result.

STOPPING

1. Turn PTO switch to OFF.
2. Release control traction levers or move to neutral.
3. Put machine in PARK.
4. Turn key to OFF (counterclockwise).

CUTTING

1. Place the discharge chute in the down position or correctly fit a grass collector or mulcher plate.
2. Stand on rider platform.
3. Start the engine.
4. Turn the blades on by pulling up on the PTO switch. Do not start the blades at full throttle. Instead, use the slowest throttle setting that will allow the engine to pick up the blade load to reduce the wear on the belts and electric clutch.
5. After the blades are rotating, set the throttle to maximum. Use the traction levers to obtain the required cutting speed, to steer around obstacles and to turn at the end of a cut.

CUTTING TIPS

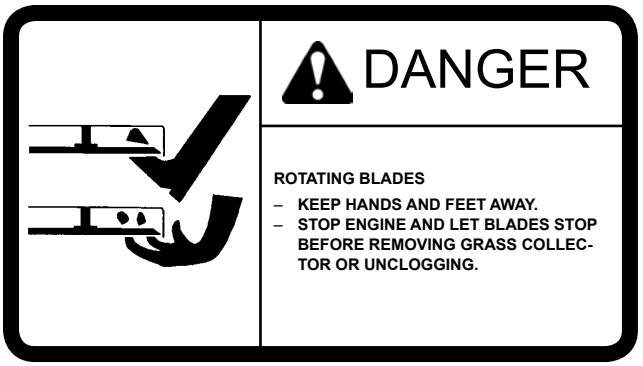
– When mowing large areas, start by turning to the right so that clippings will be discharged away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction, left hand turns, until finished.

– If grass is extremely tall, it should be mowed twice, the first cut relatively high, the second cut to the desired height.

– Use the left side of the mower for trimming.

– Choose cutting directions so that clippings are thrown onto areas that already have been cut. This method results in the most even distribution of clippings and more uniform, better appearing cuts.

– Use a different mowing pattern each time a property is cut where possible. This helps prevent rutting and leads to a more uniform cut by keeping the grass from always laying the same way.



MAINTENANCE CHART

BOB-CAT

MAINTENANCE OPERATION	Maintenance is an ongoing job. These intervals are maximum times between maintenance operations. Perform more often under severe conditions.							
	FIRST 5 HOURS	BEFORE EACH USE	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	EVERY 400 HOURS	YEARLY
ENGINE								
Consult the engine manual for additional information and instructions								
Check /Top Off Oil Level		X						
Check for Leaks		X						
Clean Air Intake Screen		X						
Clean Air Cleaner PreCleaner			X					
Clean Air Cleaner Element			X					
Clean Cooling Fins					X			
Change Oil And Filter	X	See engine manufacturer's manual						
Check / Replace Spark Plugs						X		
TRANSAXLE								
*CHANGE TRANSAXLE OIL AFTER INITIAL 75-100 HOURS								
Check Oil Level	X	X						
Check For Leaks	X	X						
Change Oil and Filter	*						X	
MACHINE								
Check Interlock Operation		X						
Check Tire Pressures		X						
Check/Top Off Battery								X
Lubricate All Points		X						

NOTES

	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS	DATE	HRS
GENERAL												
Check tire Pressures												
Lubricate All Points												
Check nuts & Bolts												
ENGINE												
Check Oil Level												
Change Oil												
Clean Air Cleaner Element												
Clean Cooling Fins												
Replace Air Cleaner Element												
Clean & Gap Spark Plugs												
TRANSAXLE												
Change Oil And Filter												
NOTE: After first 5 hours of operation change engine oil and filter.												

CHECK DAILY

Operator Presence Interlock System - Start Operation

For the engine to crank, the parking brake must be ON, the PTO (blades) OFF. Stand on the operator platform and check, one by one, if the engine will crank with the parking brake OFF or the PTO (Blades) ON.

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 in the NEUTRAL position rotated up, and the PTO (blades) are OFF.

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 OFF and turn the PTO (Blades) ON. Each check should kill the engine after 1/2 second delay. (A 1/2 second delay is built into the system to prevent engine cut-out when traversing rough terrain.)

Repair machine before using if the Operator Presence Interlock System does not operate correctly in start or run. Contact your authorized BOB-CAT 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 12 lbs/in^2 (.84kg/cm^2). Improper tire inflation can cause rapid tire wear and poor traction. Uneven inflation can cause uneven cutting. Front tires should be 15p.s.i. (1.05 kg/cm^2)

BATTERY-AGM TYPE BATTERY SUPPLIED

⚠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 batteries. Read and obey the battery manufacturer's instructions.

Be certain the ignition switch is OFF and the key has been removed before servicing the battery.

1. Verify battery polarity before connecting or disconnecting the battery cables.

2. When installing the battery, always assemble the RED, positive (+) battery cable first and the ground, BLACK, negative (-) cable last.

3. When removing the battery, always remove the ground, negative (-) cable first and the red, positive (+) cable last.

4. AGM type battery. **Use AGM charger when charging. P/N 4171973**

5. 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.

6. Tighten cables securely to battery terminals and apply a light coat of silicone dielectric grease to terminals and cable ends to prevent corrosion. Keep terminal covers in place.

LUBRICATION

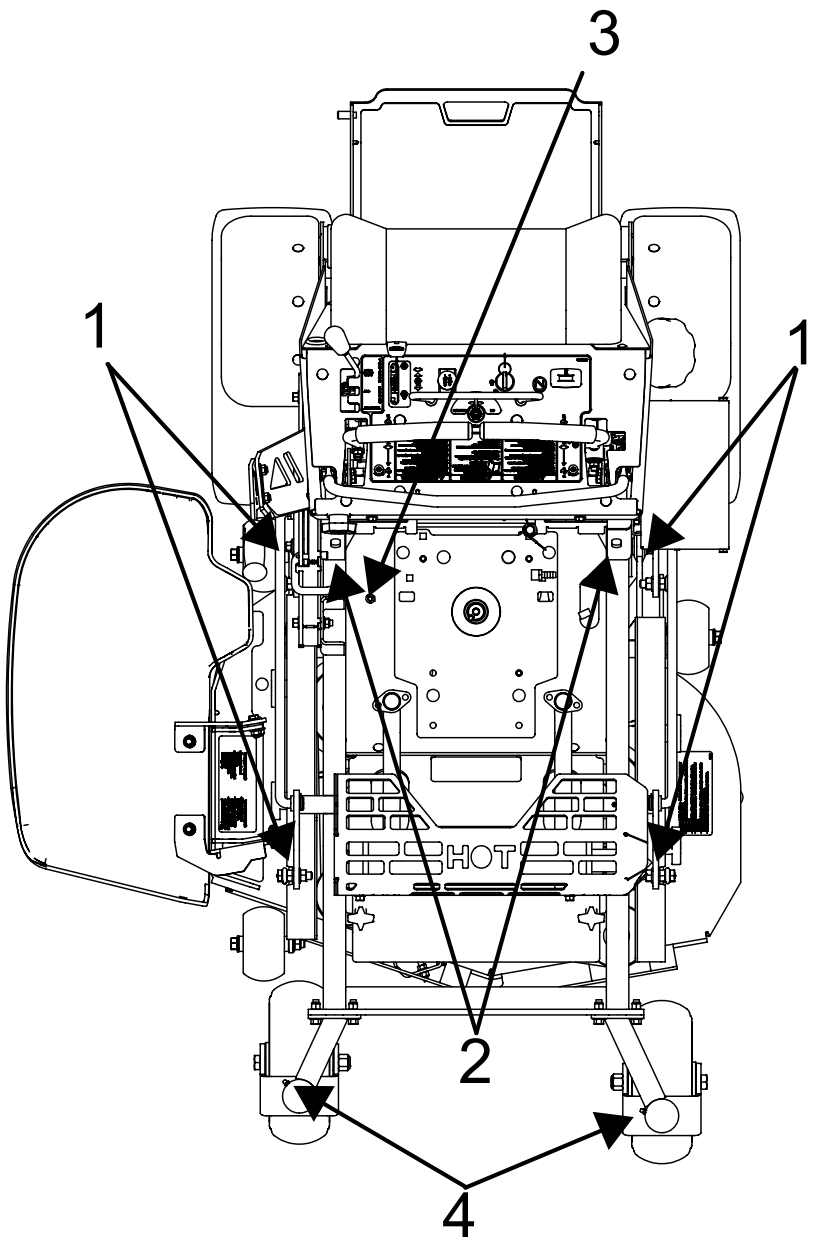
Every 50 hours of operation, lubricate the following points (1-3) with grease:

1. Deck lift pivots (4 points)
2. Push arm pivots (4 points)
3. Deck idler pivot (1 point)

Every 500 hours or once a year:

4. Caster wheel pivots (2 points)

NOTE ON BLADE SPINDLES - The blade spindles on these machines use a superior sealed bearing that does not require re-lubrication.



ENGINE OIL

Do not perform engine maintenance with the engine ON, Disconnect the spark plug wires and disengage the PTO.

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.

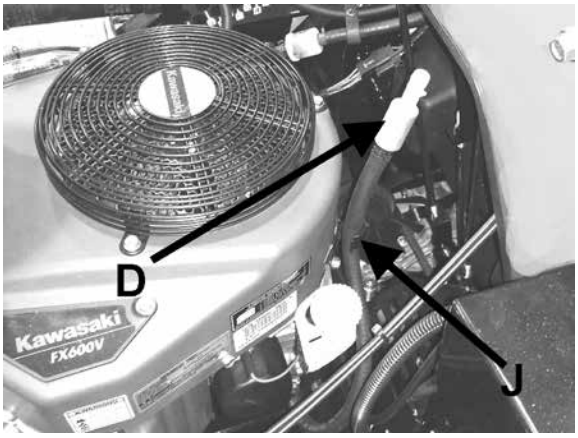
3. Clean drain valve and tighten the plastic portion of the drain valve back into the metal portion of the valve. Replace rubber cap over the tip of the valve. Replace hose assembly back into engine clip.

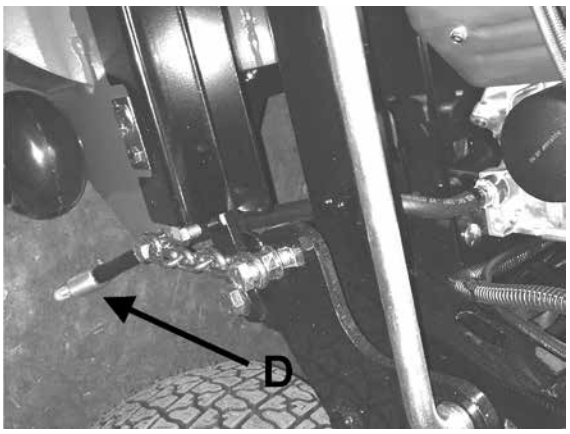
4. Change oil filter.

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.
2. 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.

TRANSAXLES

⚠WARNING

Inattention to proper safety, operation, or maintenance procedures could result in personal injury, or damage to the equipment. Schiller Grounds Care, Inc. recommends returning the machine to your authorized Schiller Grounds Care, Inc. dealer for service or repair. Check and change oil after inital 75-100 hours. Change every 400 hours after that.

Perform transaxle maintenance with the engine off, spark plug wires disconnected and PTO disengaged.

TRANSAXLE FLUID CHANGE

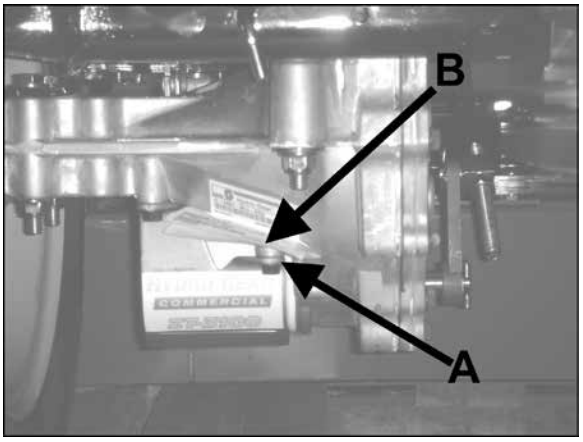
Change the transaxle fluid every 400 hours of operation. It is essential that the exterior of the transaxle be free of debris, prior to fluid maintenance.

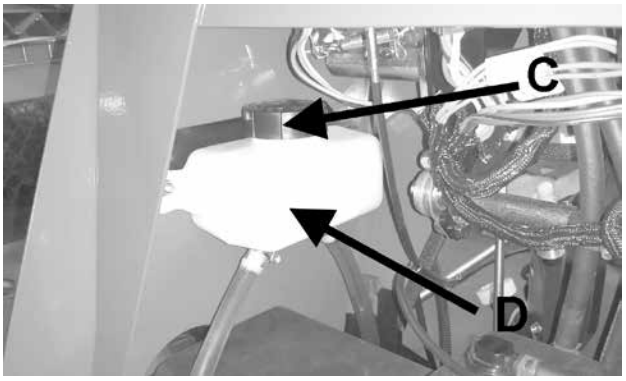
1. Remove the three 1/4" filter guard screws and filter guard **A**. Remove the oil filter **B** from the transaxle and discard. Dispose of used oil in accordance with local requirements.
2. Wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter. Install the new filter by hand, turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
3. Re-install the filter guard and torque the three screws to 65 in.-lbs. each.
4. Remove cap **C**, fill the transaxles through the expansion tank **D** with approximately 2 quarts of SAE 20W-50 engine oil PER TRANSAXLE.

CAUTION

Do not overfill! If you overfill the transaxle while the unit is "cold", it may overflow as it reaches normal operating temperatures. The oil level should not be above the manufacturer's suggestions. The oil level should be filled to the full cold line on the overflow tank. This will allow the space needed for the oil to expand as it warms up.

5. After starting engine, check the fluid level and continue to add oil to overflow tank **D** to fill line on tank.
6. Purge the transaxles, following the purging procedures.





PURGING TRANSAXLES

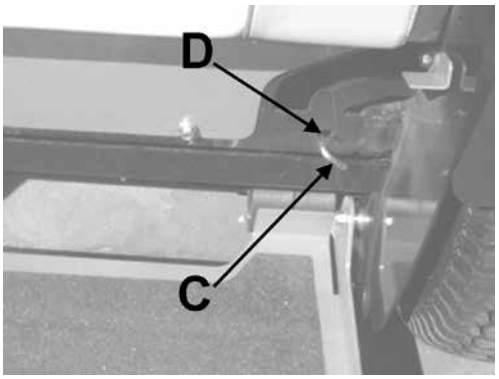
Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it be purged from the system.

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.

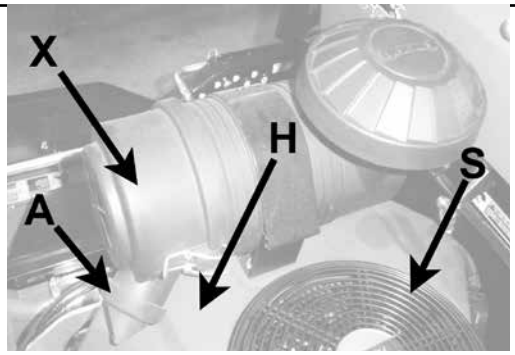
1. Check the transaxle fluid, fill to proper level, if required. Should be to the Full Cold Line.
2. Raise the drive wheels off the ground. Support unit with jack stands or other suitable means.
3. Open bypass valves. To open the bypass valves, move the parking brake to any **OFF** position, then lift and pull bypass control rod **C** through the large opening **D**, until the control rod stop is past the opening. Drop rod **C** into the small opening to lock in place. Repeat for the other bypass control rod. Start engine, 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.
6. 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.



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.



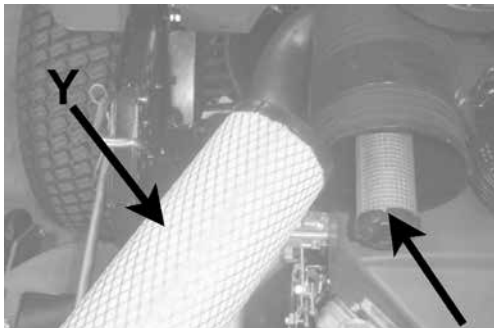
HEAVY DUTY CYCLONIC AIR CLEANER

Clean and replace the air cleaner element as specified in the service chart. Uneven running, lack of power or black exhaust fumes may indicate a dirty air cleaner.

To replace air cleaner elements:

1. Unclamp end cover **X** and remove existing cleaner elements.

2. Insert new elements **Y** and **Z** and replace cover. Ensure the breathing port **A** is pointing down and towards the front of the tractor.



SPECIFIC TORQUES

BLADE BOLTS	**70 FT-LBS (95 Nm)**
WHEEL LUG NUTS	**75-100 FT-LBS (102-135.5 Nm)**
CLUTCH MOUNTING BOLT	**50 FT-LBS (68 Nm)**
TRANSAXLE PULLY BOLT	**28.3-41.5 FT-LBS (38-56 Nm)**
TRANSAXLE DRAIN PLUG	**15-20 FT-LBS (20-27 Nm)**
TRANSAXLE FILTER	**100-150 IN-LBS (14.6-16.9 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 cutterdeck and engine deck. Clippings and debris should be kept from accumulating around the exhaust system and under the exhaust guards. This can be done by using compressed air. DO NOT use a pressure washer.

WASHING MACHINE

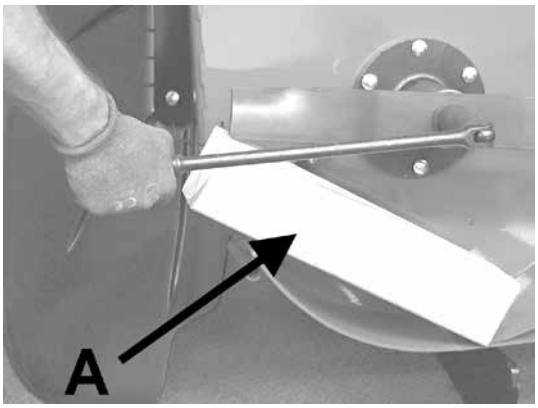
CAUTION: Improperly washing a machine can cause water to enter bearings and other components. This can greatly reduce component life.

- 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.

BLADE REMOVAL

Follow these instructions to prevent injury during blade removal:

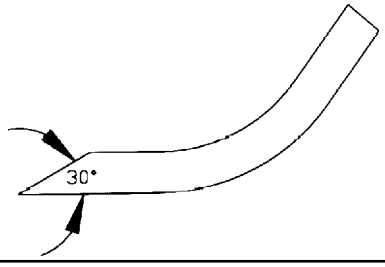
1. Loosen with a box wrench or a socket and long breaker bar. To gain additional leverage, slip a long pipe or thick-walled tube over breaker bar or wrench.
2. Insert wood block **A** as shown, with grain perpendicular to blade, to prevent blade from turning when loosening.
3. Wear thickly padded gloves. Keep hands clear of blade path. Blades may rotate when bolt releases.



SHARPENING

Blades may be sharpened by filing or grinding.

- Inspect blades before sharpening.
- Replace bent or cracked blades.
- Replace blades when the lift portion has worn thin.
- Maintain cut angle at 30°.
- Do not overheat blades when sharpening.
- Always use BOB-CAT blades. Use of another manufacturer's blades may be dangerous.



BLADE BALANCE

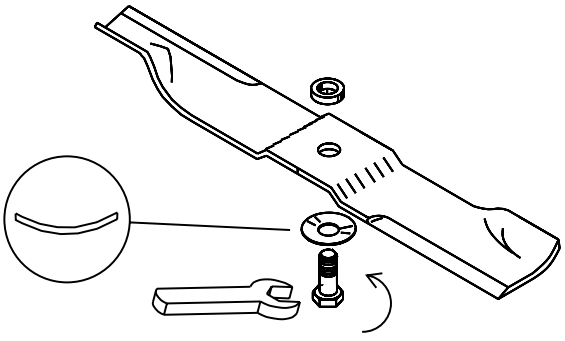
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

To balance a blade:

1. Sharpen blade first.
2. Balance the blade at the center.
3. Attach a 1/8 oz (3.9 g) weight at a distance 5" (127 mm) from center on the light end. This should make the light end the heavy end:
   - If it does, the blade is balanced.
   - If does not, file or grind the heavy end until the addition of the weight makes the light end the heavy end.

BLADE INSTALLATION

1. Wear thickly padded gloves to prevent cuts from the sharp blade.
2. Insert the blade bolt, in order, through the conical washer (cup side toward the blade, as shown), the blade, and the blade spacer.
3. Install assembly on the blade spindle.
4. Torque the blade bolt to 70 ft-lbs (95 Nm).



BELTS

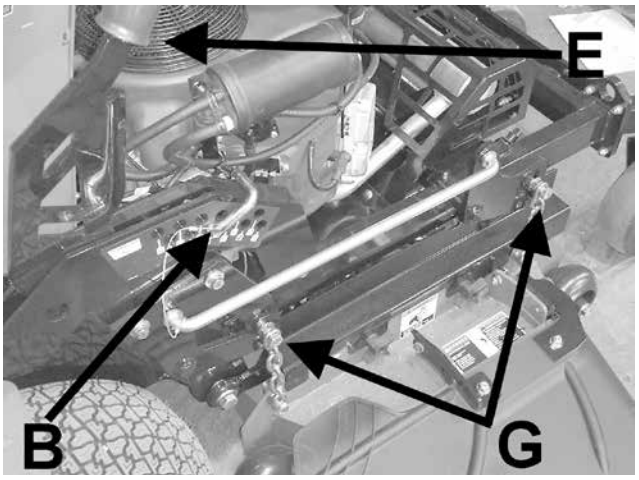
All belts are tensioned by spring loaded idlers. No adjustment is required.

DECK LEVELING

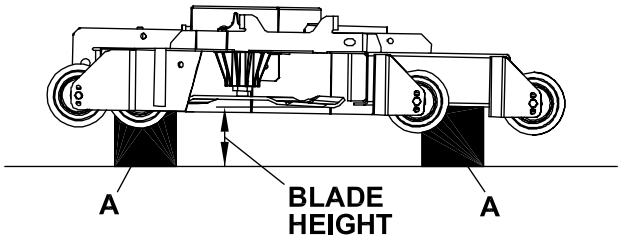
1. Park the machine on a smooth, level surface. Raise the deck to the transport position. Ensure the rear tires are at a prressure of 12 psi and the front are at 15 psi.
2. Lower the deck onto a set of equal height blocks **A** under the rear corners of the deck. Place another set of blocks under the front of the deck so that the deck top is pitched forward 1/8".

NOTE: The front and rear of the deck are at different heights.

3. Measure the height of the blade cutting edge above the ground. Remove pin **B** and set the height of cut lever **E** to that height
4. Loosen nuts on bolts **G**. Move bolts in slot to remove slack in chain. Tighten nuts on bolts **G**.



A 1/8" forward pitched deck provides the best horsepower.
A level deck provides the best quality of cut.
A 1/8" rearward pitched deck provides the best striping.
Certain grass types and conditions may vary.



HEIGHT OF CUT

The height of cut is set by moving height of cut pin **B** to the hole designated for the height of cut desired.

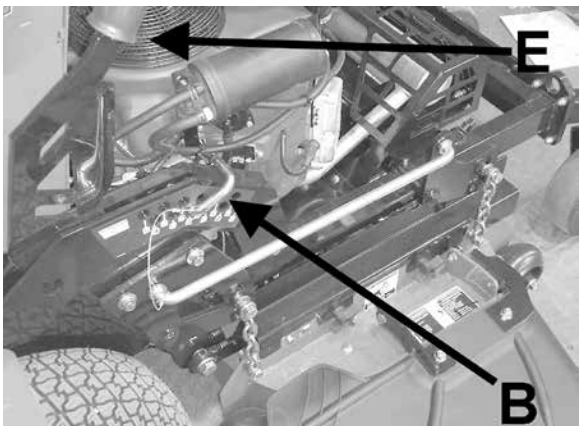
To change the height of cut:

1. Lift the deck to the highest position using the lift handle **E**.
2. Move pin **B** to the selected hole.
3. Lower the deck until the lift handle **E** is stopped by the pin.

NOTES:

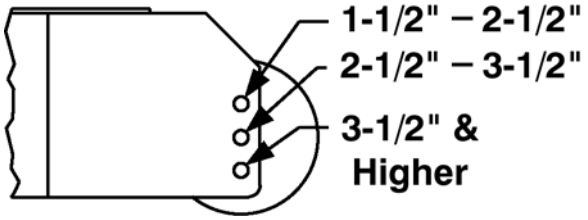
– Height of cut may vary due to the amount of tread on the tires, tire diameter or inflation pressure.

– For best results, adjust the deck rollers for the height of cut to be used (next page).



DECK ROLLERS

The rear outside deck rollers are adjustable up and down to provide improved deck flotation and scalping protection at various heights of cut. They are not intended to ride continuously on the ground. Adjust no closer than 3/8” (10mm) to the ground.



Height of cut ranges for roller adjustment

FRONT DECK LIP

Adjustable front deck lips have been provided on 36" cutterdecks for various grass types and cutting conditions.

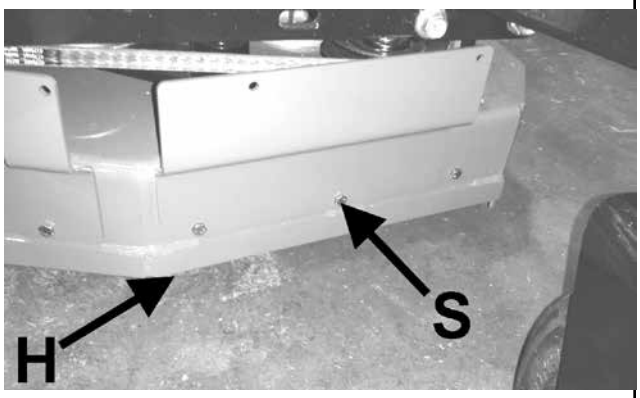
To adjust per conditions:

1. Loosen the front bolts **S**.
2. Adjust height of **H**.
3. Retighten **S** once you have desired height.

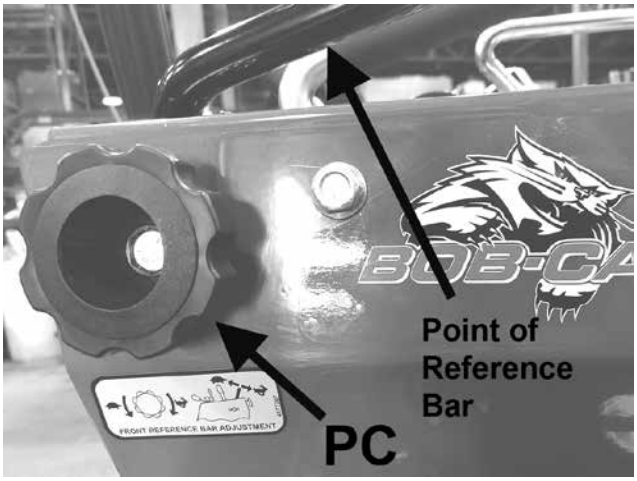
Suggested heights for grass types:
(Factory setting is all the way down.)

-Southern season grasses generally will work with the lip down. When cutting Bahia grass or other grasses where seed pods grow higher then the actual grass blade, you will want to adjust the lip all the way up.

-Northern season grasses generally require the lip all of the way down.



FRONT POINT OF REFERENCE CONTROL (PC) - Adjust knob to move the front point of reference bar forward or back to set throw for comfort or a maximum cutting speed. Rotate the knob clockwise to move the bar forward. turn knob counter clockwise to move bar back.

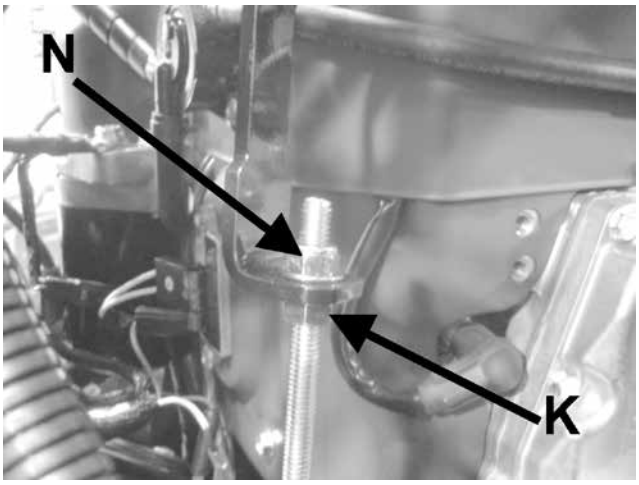


PARKING BRAKE

NOTE: There are two brakes, one on each transaxle.

The parking brake should keep the machine from moving. To check the parking brake, park the machine on a level surface, open the bypass valves and set the parking brake to **PARK**. Attempt to move the machine forward and backward by pushing it. If the machine moves, adjust the parking brake linkage as follows:

1. Move the machine to a flat horizontal surface.
2. Move the parking brake handle to the **PARK** position.
4. Loosen Nut **K**. Tighten brake locknut **N** as needed to engage brake. Loosen brake locknut **N** as needed to disengage brake sooner.
5. Retest to insure the machine does not move.

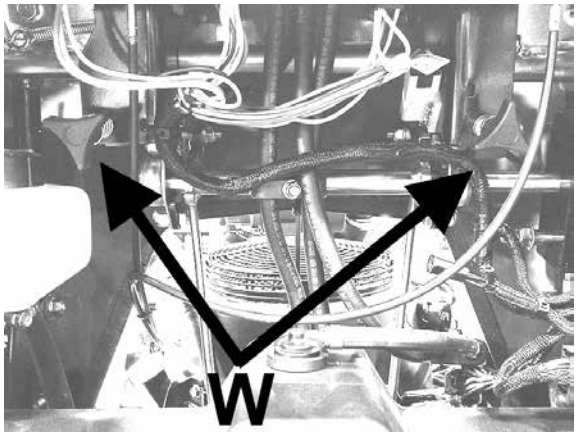


TRACKING CONTROL ADJUSTMENT

Tracking adjustment allows for the traction handles to be even with each other when pressed all the way forward. This adjustment works in transport speed. Only use tracking adjustment if it is required to "steer" the machine straight.

To adjust:

1. Remove rider pad and locate the tracking adjustment knobs on the control mounting brackets of the machine. Turn both tracking adjustment knobs counter clockwise until they stop.
2. Gently push both traction control handles all the way forward with transport speed selected. Turn the tracking adjustment knob clockwise until it touches the corresponding control arm so the tracking adjustment knob limits the stroke of the traction lever rather than the control stops on the hydrostat. Repeat for the other side.
3. Find a suitable level and open area. Get on the machine and start the engine. Run it at half throttle for better control.
4. Point the machine in a safe direction and drive it with both traction handles pushed completely forward. If the machine drives straight you are done. If the machine drifts from a straight line proceed to step 5.



5. Stop the machine, move the traction levers to the neutral position and set the parking brake. Turn the tracking knob on the outside of the drift 1/6 turn clockwise.
6. Drive the machine again and repeat the adjustment until the machine drives straight.

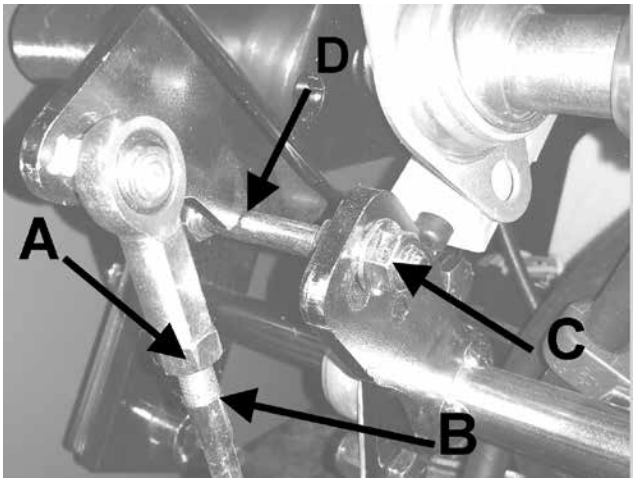
HYDROSTAT TRANSAXLE

A turnbuckle-style hydrostat neutral adjustment is provided.

Neutral adjustment is for setting the location of the control handles with respect to each other or the operator presence slot, or parking brake locks.

Neutral: (neutral is set by the hydrostatic transaxles)

1. Loosen jam nuts A at both ends of the control rod B.
2. Loosen the nuts C on the control lock rod D.
3. Rotate the control rod B until both left and right handle is aligned with the slot on the control panel.
4. Tighten the jam nuts A at the top and the bottom of the control rod B.
5. Press the control lock rod D into the slot in the control and tighten nut C.



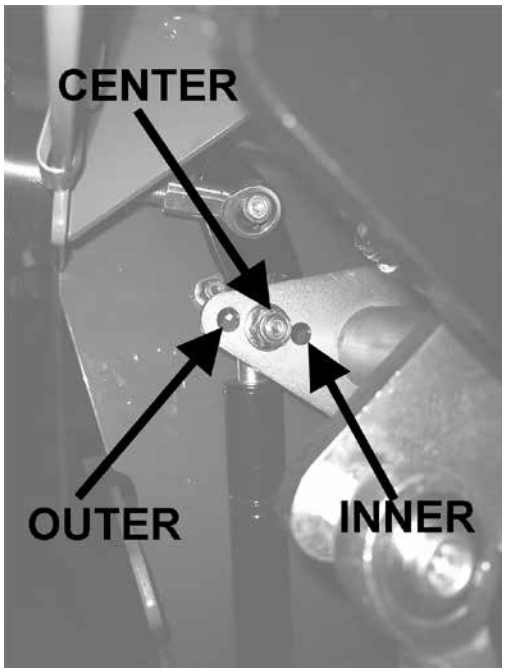
DAMPERS

Dampers are provided on the traction controls to make it easier to operate the machine smoothly. There is one on each side. There are three mounting posiitons for each damper.

Center Position: Standard

Outer Position: Increase the damping and make traction controls stiffer to operate.

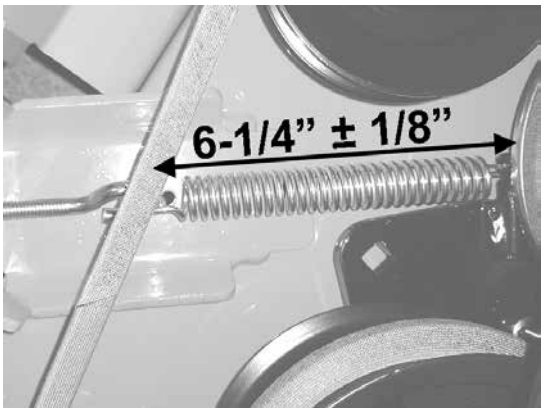
Inner Position: Decrease the damping and make the controls lighter to operate.



Note: Always use Schiller Grounds Care, Inc. replacement belts, not general purpose belts. Schiller Grounds Care, Inc. belts are specially designed for use on commercial mowers and will normally last longer.

CUTTERDECK BELT

1. Remove center, left and right belt guards.
2. Set the cutterdeck in a middle height-of-cut position.
3. Loosen bolt on belt guide so belt guide can be moved to remove the belt.
4. Insert 3/8" ratchet extension in hole A on the idler arm to back tensioning idler off to remove belt from idler. Remove belt from cutterdeck pulleys.
5. Remove belt from clutch pulley.
6. Install the new belt by performing these steps in reverse order.
7. Cutterdeck spring will require tension adjustment after belt installation. Adjust eyebolt so the distance between the inside of the spring hooks is 6-1/4 ± 1/8".
8. Reinstall cutterdeck belt and guards.



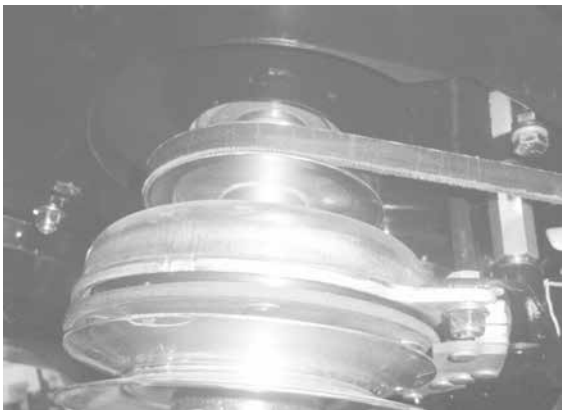
NOTE: After usage of the machine, the belt will seat into the pulleys and reduce the length of the spring. DO NOT RE-ADJUST THE EYEBOLT. This is normal. If you do adjust the eyebolt, you will over tension the belt, greatly reducing the belt's life.

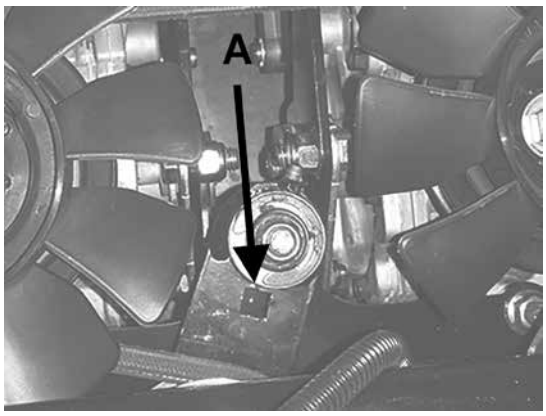
TRANSAXLE DRIVE BELT

1. Remove engine-cutterdeck belt. (See cutterdeck belt above)
2. To remove transaxle drive belt, use a 3/8" ratchet and extension. Insert ratchet extension in the square hole **A** of the transaxle idler arm. Rotate enough to remove the transaxle drive belt.
3. Install a new transaxle drive belt by performing these steps in reverse order.

NOTE: Inspect the fans. Replace if worn or damaged.

4. Reinstall cutterdeck belt and guards.





POWER UNITS

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 ZT3100 Commercial Duty Hydrostatic transaxles (10cc Pumps)

Turn Radius: True Zero

OPERATOR PRESENCE INTERLOCK SYSTEM:

Start Operation

For the engine to crank, the parking brake must be ON, the PTO (blades) OFF. Stand on the operator platform and check, one by one, if the engine will crank with the parking brake OFF or the PTO (Blades) ON.

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 CUT or TRANSPORT 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 in the NEUTRAL position rotated up, and the PTO (blades) are OFF.

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 OFF and turn the PTO (Blades) ON. Each check should kill the engine after 1/2 second delay. (A 1/2 second delay is built into the system to prevent engine cut-out when traversing rough terrain.)

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

WEIGHT:

800 lbs (363 kg) w/36" deck

CONTROLS:

Throttle; choke; power takeoff (PTO) clutch switch; control lever; parking brake lever; lift lever.

FUEL SYSTEM:

One tank in the control tower with total capacity 5.1 gallons (18.9 liters). Fuel selector/shut off switch on control panel (3 position - 1/4 turn). Replaceable fuel filter.

MAXIMUM GROUND SPEEDS:

Forward: Transport- 9.0 mph (14.5 km/h)
Cut - 6.5 mph

Reverse: 4 mph (6.4 km/h)

WHEELS & TIRES:

Drive wheels:

912360:	20 X 8.0-10 4-Ply Turf Tread Tires

Casters:

36" : 11 x 4.0-5 tires

Pressure: Rear tires 12 p.s.i. (.84 kg/cm^2)
Front tires 15 p.s.i. (1.05 kg/cm^2)

ENGINES	
MODEL NUMBER	**912360A / 912360ACA**
MANUFACTURER	Kawaskai
MODEL	FX600V
CYLINDERS	2
COOLING	Air
BORE/STROKE	2.9 X 2.8" (73 X 72 mm)
DISPLACEMENT	36.8 cu. in. (603 cc)
COMPRESSION	8.1:1
OUTPUT POWER	
OUTPUT TORQUE	32.5 ft-lb (44.1J) @2200 rpm
LUBRICATION	FULL PRESSURE
GOVERNOR	Mechanical
AIR CLEANER	Heavy Duty Cyclonic
IGNITION SYSTEM	Electronic
CHARGING SYSTEM	15 amp, regulated
BATTERY	BCI group U1
FUSES	Two, 20 amp blade

CUTTERDECKS	
MODEL NUMBER	**912360**
TYPE	Side Discharge
CUTTING WIDTH	35" (88.9 cm)
WIDTH (CHUTE UP)	35.5" (90.2 cm)
WIDTH (CHUTE DOWN)	49.2" (125.5cm)
BLADE	high lift
NUMBER OF BLADES	2
BLADE LENGTH	17.5" (44.5 cm)
BLADE THICKNESS	.205" (5.2 mm)
TIP SPEED	17950 ft/min 5335 m/min @3600 Engine RPM
ANTI-SCALP ROLLERS	3

CONSTRUCTION:
Fabricated and welded 7-gauge, top with 7-gauge side skirts. Full floating design.

CUTTERDECK DRIVE SYSTEM:
Electric clutch/brake drives belt directly from engine to cutterdeck. No twists in drive belt.

Torque information located on page 25.

SPINDLES:
Top mounted and maintenance free, with 1” shaft in precision machined, aluminum housing

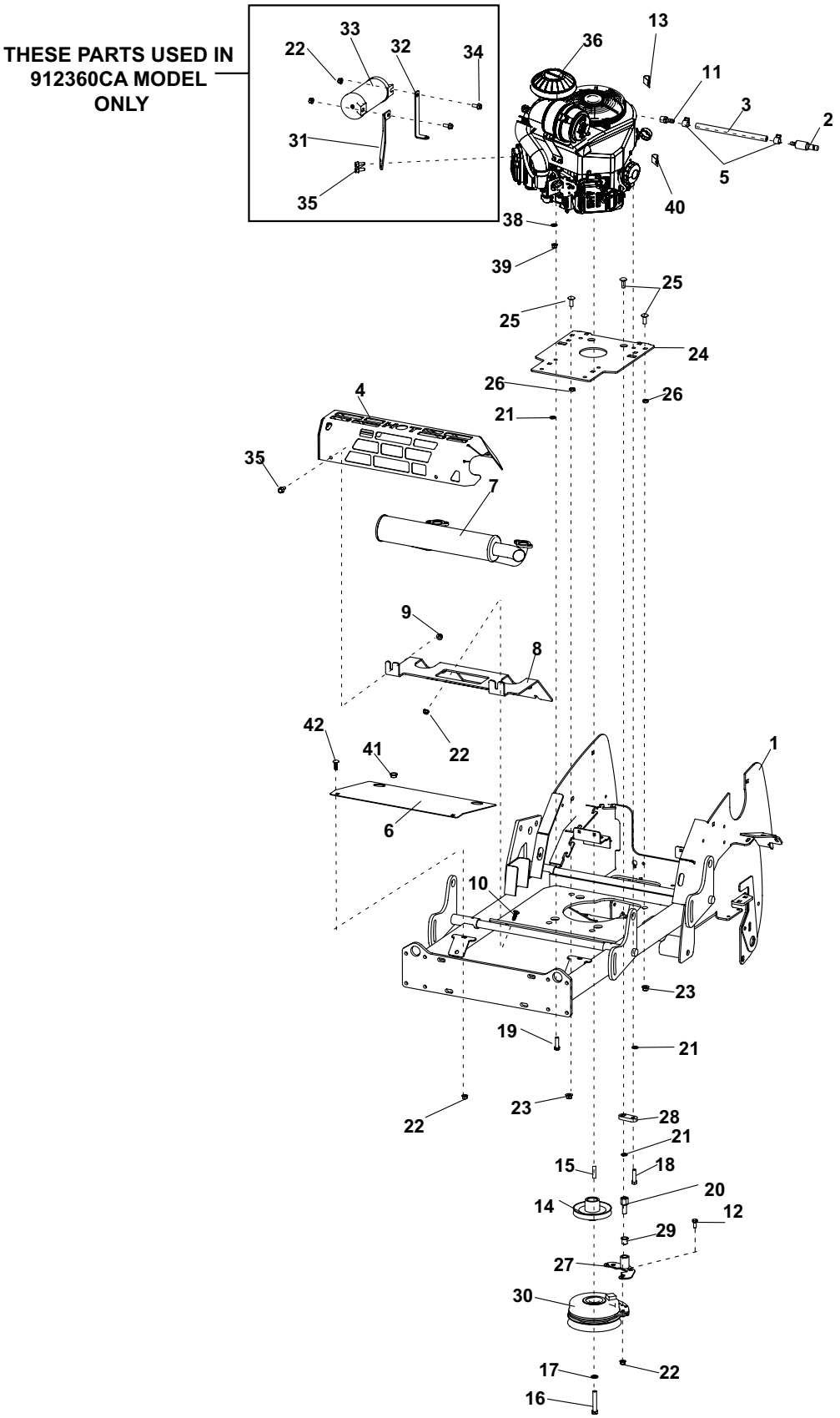
CUTTING HEIGHT & PRODUCTION:
Height: Lever allows easy setting of cut heights from 1-1/2" to 4-1/2" in 1/4” increments.

PARTS SECTION

ENGINE DECK ASSY

BOB-CAT

FIGURE 1



BOB-CAT

FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	4164251	DRAIN VALVE	1
3	69053-05	HOSE-HYD (17" L)	1
4	4172843.7	GUARD-MUFFLER	1
5	88042-03	CLAMP, HOSE 5/8	2
6	4173747	S-HEAT SHEILD W/ LABEL (INCLUDES ITEM 37)	1
7	4169248	MUFFLER-ENGINE, FX600V	1
8	4172847.7	BRKT-GUARD, MUFFLER	1
9	64266-02	NUT-FL CROWN LOCK M8-1.25	2
10	64018-15	BLT-CRG 5/16-18X1 SN	2
11	4164252-001	FITTING-3/8 MNPT TO 3/8 BARB	1
12	64123-54	BLT-HEX 5/16-18X3/4	2
13	48412-01	CLIP-CABLE 3/4 J X 10.32 HOLE	1
14	4172764	PULLEY-4.5 INCH	1
15	64164-12	KEY-1/4X1 SQ	1
16	64123-78	BLT-HEX 7/16-20 X 2-1/2	1
17	64006-06	LOCKWSHR-7/16 HELICAL	1
18	64123-70	BLT-HEX 3/8-16X1-1/2	1
19	64123-16	BLT-HEX 3/8-16X1-1/4	3
20	4121540	PIN - CLUTCH	1
21	64006-03	LOCKWSHR-3/8 HELICAL	5
22	64268-02	NUT-FL NYLON LOCK 5/16-18 QTY 6 ON 912360A QTY 8 ON 912360CA	6
23	64268-03	NUT-FL NYLON LOCK 3/8-16	4
24	4172751.7	PLATE-ENGINE	1
25	64018-44	BLT-CRG 3/8-16X1 SN	5
26	64001-6	NUT-HEX JAM 3/8-16	4
27	4173170.7	PLATE-CLUTCH STOP	1
28	4172759.7	PLATE-CLUTCH STOP MNTNG	1
29	38304-03	BEARING-FLANGED PLASTIC	1
30	4144116	CLUTCH-ELECTRICAL	1
		ITEMS 31-34 USED ON 912360CA ONLY	
31	4173564.7	BRKT-CARB CANISTER, FRONT	1
32	4173565.7	BRKT-CARB CANISTER, REAR	1
33	4171023	CANISTER-CARBON, 6GAL	1
34	64262-006	BLT-FLG HD 5/16-18 X 3/4	2
35	64263-007	BLT-FLG M8-1.25 x 1 SN	4
36	4164365	ENGINE-20HP KAW FX	1
37*	4173485	LABEL-HEAT SHEILD	1
38	64006-02	LOCKWSHR-5/16 HELICAL	1
39	64207-01	NUT-HEX M8-1.25	1
40	48228A	CABLE CLIP-INSULATED	1
41	4171586	RUBBER BUMPER	4
42	64018-51	BLT-CRG 5/16-18 X 3/4 SN	2

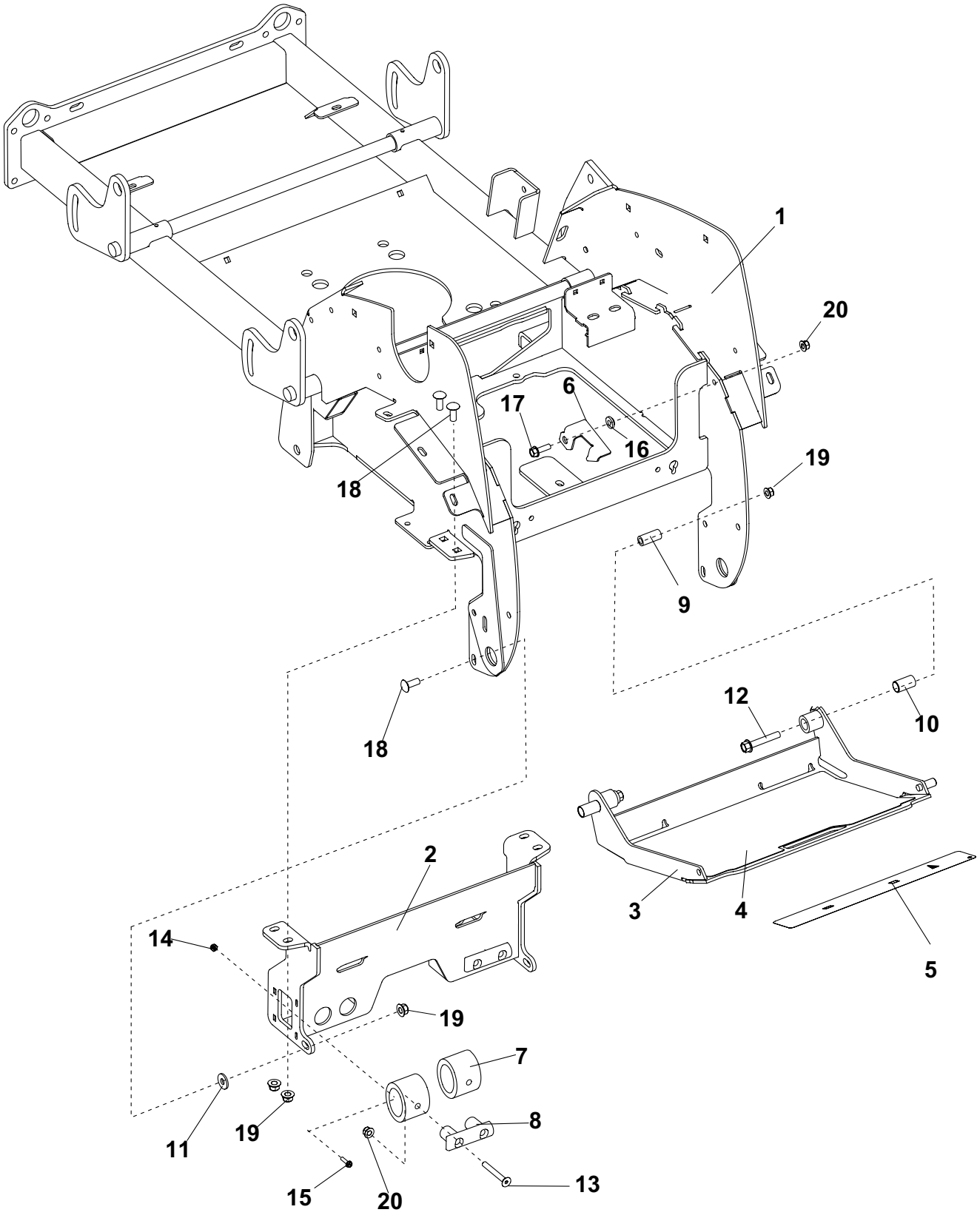
ITEM	PART NO.	DESCRIPTION	QTY

*** NOT ILLUSTRATED**

RIDER PLATFORM ASSY

BOB-CAT

FIGURE 2



BOB-CAT

FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	4172366.7	WLDMT-DAMPER MOUNT	1
3	4173746	S-FOOTPLATE 36IN W/LABELS (INCLUDES ITEMS 4, 5 & 10)	1
4	4172696	MAT-FOOTPLATE-36	1
5	4175930	LABEL-BOB-CAT	1
6	4173359.7	LATCH-FOOTPLATE	1
7	4170585	BUMPER-RADIAL	4
8	4171672	BUMPER-FOOTPLATE, MOLDED	2
9	4171254	SPACER-.625 ODX 11GA X 1.375	2
10	4166324-04	BEARING-SLEEVE	2
11	64163-31	WSHR 25/64X1X12	2
12	64262-027	BLT-FLG HD 3/8-16 X 2-1/4 GR8	2
13	64272-03	FLT-HEX SCR 5/16-18 X 2-1/2	4
14	64229-10	NUT-NYLON 10-24	4
15	64152-49	SCREW-SLT HH 10-24X1/2	4
16	4170388	SPACER-FOOTPLATE LATCH	1
17	64262-007	BLT-FLG HD 5/16-18 X 1	1
18	64018-44	BLT-CRG 3/8-16X1 SN	6
19	64268-03	NUT-FL NYLON LOCK 3/8-16	8
20	64268-02	NUT-FL NYLON LOCK 5/16-18	5

ITEM	PART NO.	DESCRIPTION	QTY

***NOT ILLUSTRATED**

WHEEL & TRANSAXLE ASSY

BOB-CAT

FIGURE 3

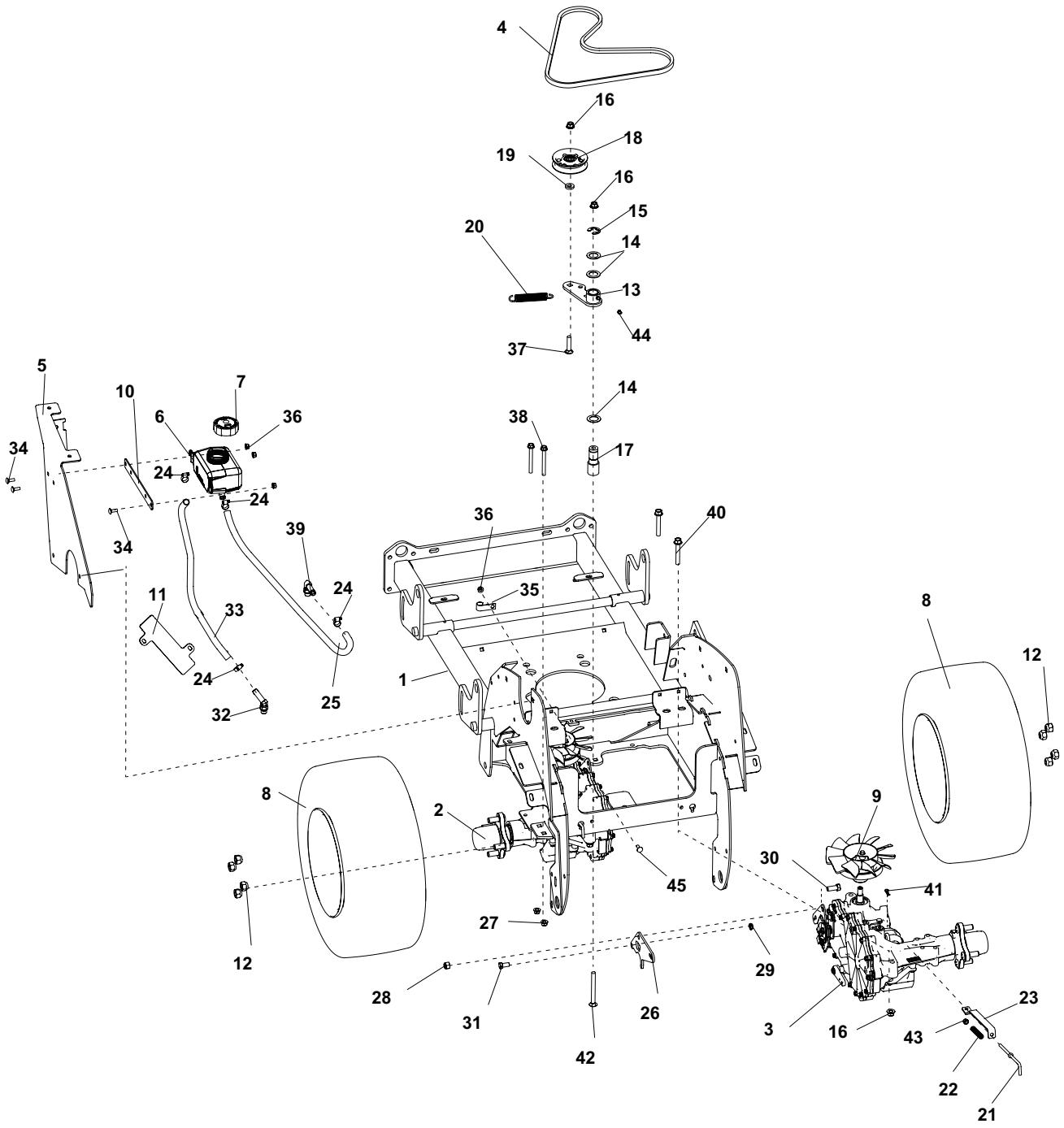


FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	4172520	TRANSAXLE-RH	1
3	4172519	TRANSAXLE-LH	1
4	2721642	BELT-HA 49.0	1
5	4176337.2	PANEL-UPPER SIDE,LH 36"	1
6	4142808	TANK-HYDR.	1
	(INCLUDES ITEM 7)		
7	4142808-01	CAP-TANK, HYDR.	1
8	4176234	ASSY-WHEEL, 20 X 8-10 BLK	2
	4176234-01	RIM- 10X7 BLACK	
	4172518-01	TIRE-20X8-10 OTR ZT	
9	4171150	KIT-TRANSAXLE, FAN & PULLEY	2
10	4176643.7	BRKT-HYD TANK	1
11	4173435.7	PLATE-HOSE GUARD	1
12	64187-03	NUT-WHEEL 1/2-20	8
13	4172750.7	WLDMT-TRANSAXLE IDLER	1
14	64163-65	WSHR-.890X1.375X18GA	3
15	64221-04	E-RING .875	1
16	64268-03	NUT-FL NYLON LOCK 3/8-16	6
17	4116712	PIN-PIVOT	1
18	2228016	PULLEY-IDLER PUMP	1
19	64163-46	WSHR.383/.393X.88X7GA	1
20	4173317	SPRING-EXTENSION	1
21	4148697	ROD-PULL FREEWHEEL	2
22	2720977	SPRING-COMPRESSION	2
23	4148698.7	LINK-DUMP VALVE	2
24	108094-12	CLAMP-HOSE SAE6	4
25	4176445-01	TUBING-1/2ID CLEAR, 26IN	1
26	4173339.7	PLATE-TRANSAXLE CONTROL	2
27	64268-02	NUT-FL NYLON LOCK 5/16-18	4
28	64229-04	BUT-NYLON LOCK 7/16-14	2
29	64151-34	NUT-HEX LOCK, 3/8-16 JAM	2
30	64123-38	BLT-HEX 7/16-14 X 1	2
31	64123-15	BLT-HEX 3/8-16X3/4	2
32	2690030-02	FTG-9/16-18 ORB X 1/2 BARB 45	1
33	4176445-01	TUBING-1/2ID CLEAR, 20IN	1
34	64018-2	BLT-CRG 1/4-20X3/4	3
35	42882-2A	CLAMP-3/4 CLIP	1
36	64268-01	NUT-FL NYLON LOCK 1/4-20	4
37	64018-39	BLT-CRG 3/8-16X1-3/4 FL THRD	1
38	64139-32	BLT-WLFS 5/16-18 X 3	4
39	158058-06	FTG -06 MORB X 1/2 HOSE 90	1
40	64262-025	BLT-FLG HD 3/8-16 X 2-1/2 LG	4
41	64168-2	COTTER-HAIRPIN .08 X 1.19	2
42	64018-60	BLT-CRG 3/8-16X3-3/4 G5	1
43	64229-01	NUT-NYLON LOCK 1/4-20	2
44	85010N	ZERK 1/4-28 STR SELF THREAD	1
45	64018-41	BLT-CRG 1/4-20 X 5/8	1

***NOT ILLUSTRATED**

ITEM	PART NO.	DESCRIPTION	QTY

FUEL TANK & BATTERY ASSY

BOB-CAT

FIGURE 4

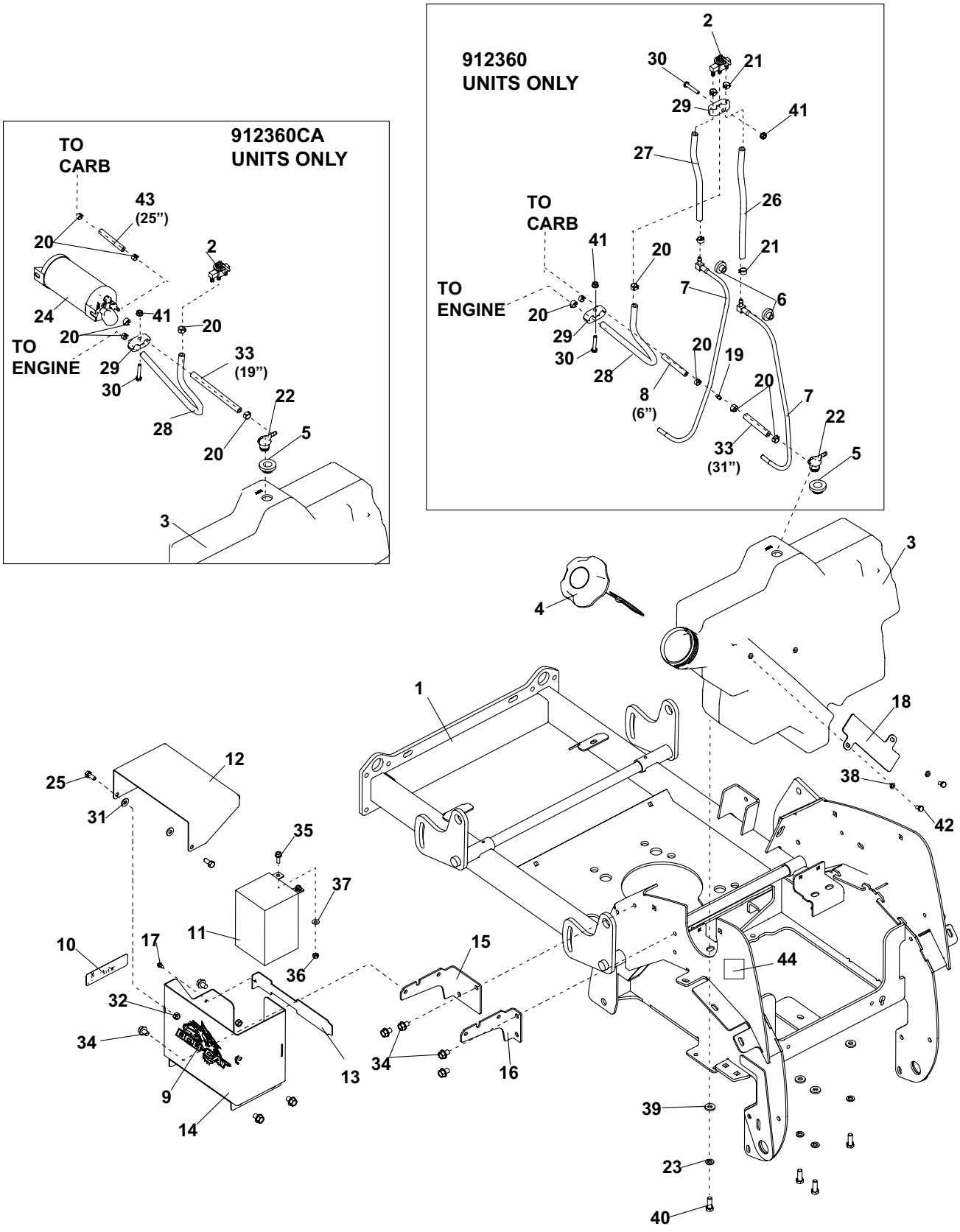


FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	4172344	VALVE-FUEL SELECTOR	1
3	4172734	TANK-FUEL 5 GAL	1
	(INCLUDES ITEMS 5,6,7 & 22)		
4	4176561	CAP-FUEL, 3.5"	1
5	4165387	GROMMET, ROLL-OVER VENT	1
6	4132325	GROMMET-SEALING	2
7	4172734-2	TUBE-FUEL PICK-UP	2
8	4162989-01	HOSE, FUEL 3/16 INCH	1
9	4158400	LABEL-BOBCAT MEDIUM	1
10	2000590	LABEL-WARN BATTERY	1
11	4171099	BATTERY-190CCA	1
12	4172854.7	COVER-BATTERY BOX	1
13	4172851.7	STRAP-BATTERY	1
14	4173748	S-BATTERY BOX W/ LABELS	1
	INCLUDES ITEMS 9 & 10		
15	4172855.7	BRKT-BATTERY BOX-FRONT	1
16	4172856.7	BRKT-BATTERY BOX REAR	1
17	64152-56	SCREW-HS STAP #12X1/2	1
18	4173435.7	PLATE-HOSE GUARD	1
19	4165864	FITTING, 1/4 TO 3/16	1
	USED ON 912360 MODEL ONLY		
20	88042-01	CLAMP-HOSE 3/16	2
21	88042N	CLAMP-HOSE	8
22	4165763	VENT-ROLL	1
23	64006-03	LOCKWSHR-3/8 HELICAL	4
24	4171023	CANISTER-CARBON, 6GAL	1
	USED ON 921360CA MODEL ONLY		
25	64123-54	BLT-HEX 5/16-18 X .75	2
26	4162977-001	HOSE, FUEL LINE 13.5 INCH	1
27	4162977-001	HOSE, FUEL LINE 11.5 INCH	1
28	4162977-001	HOSE-FUEL LINE, 18.5 IN	1
29	4165751	CLAMP-HOSE, 1/2IN	2
30	64123-07	BLT-HEX 1/4-20X1-1/2	2
31	4171826	WSHR-5/16 X.875 X.082 TEF	2
32	64229-02	NUT-NYLON LOCK 5/16-18	2
33	4162977-001	HOSE, FUEL 1/4 INCH	1
34	64197-016	BLT-TDFM 3/8-16X1/2	8
35	64262-002	BLT-FLG HD 1/4-20 X 3/4	2
36	64025-01	1/4-20 HEX NUT	2
37	64163-03	WSHR .256ID X.62OD X 18 GA.	2
38	64006-01	LOCKWSHR-1/4 HELICAL	2
39	64163-69	WSHR .391X.88X10 GA	4
40	64123-50	BLT-HEX 3/8-16X1	4
41	64268-01	NUT-FL NYLON LOCK 1/4-20	2
42	64123-49	BLT-HEX 1/4-20X1/2	2
43	4162989-001	HOSE, FUEL LINE 25 INCH	1
44	2000570	LABEL-WARN FUEL PICT	1

ITEM	PART NO.	DESCRIPTION	QTY

***NOT ILLUSTRATED**

PARKING BRAKE ASSY

BOB-CAT

FIGURE 5

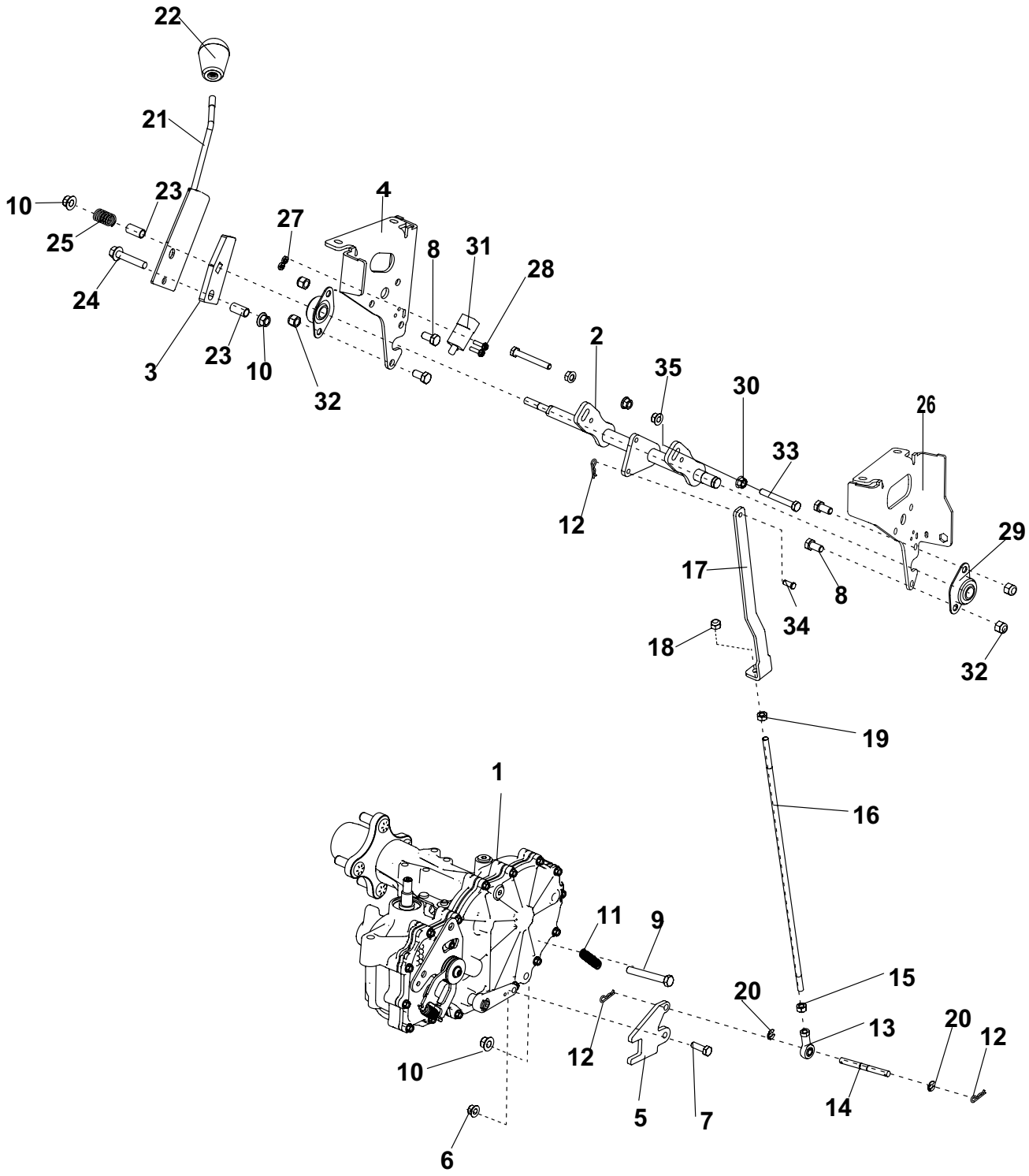


FIGURE 5

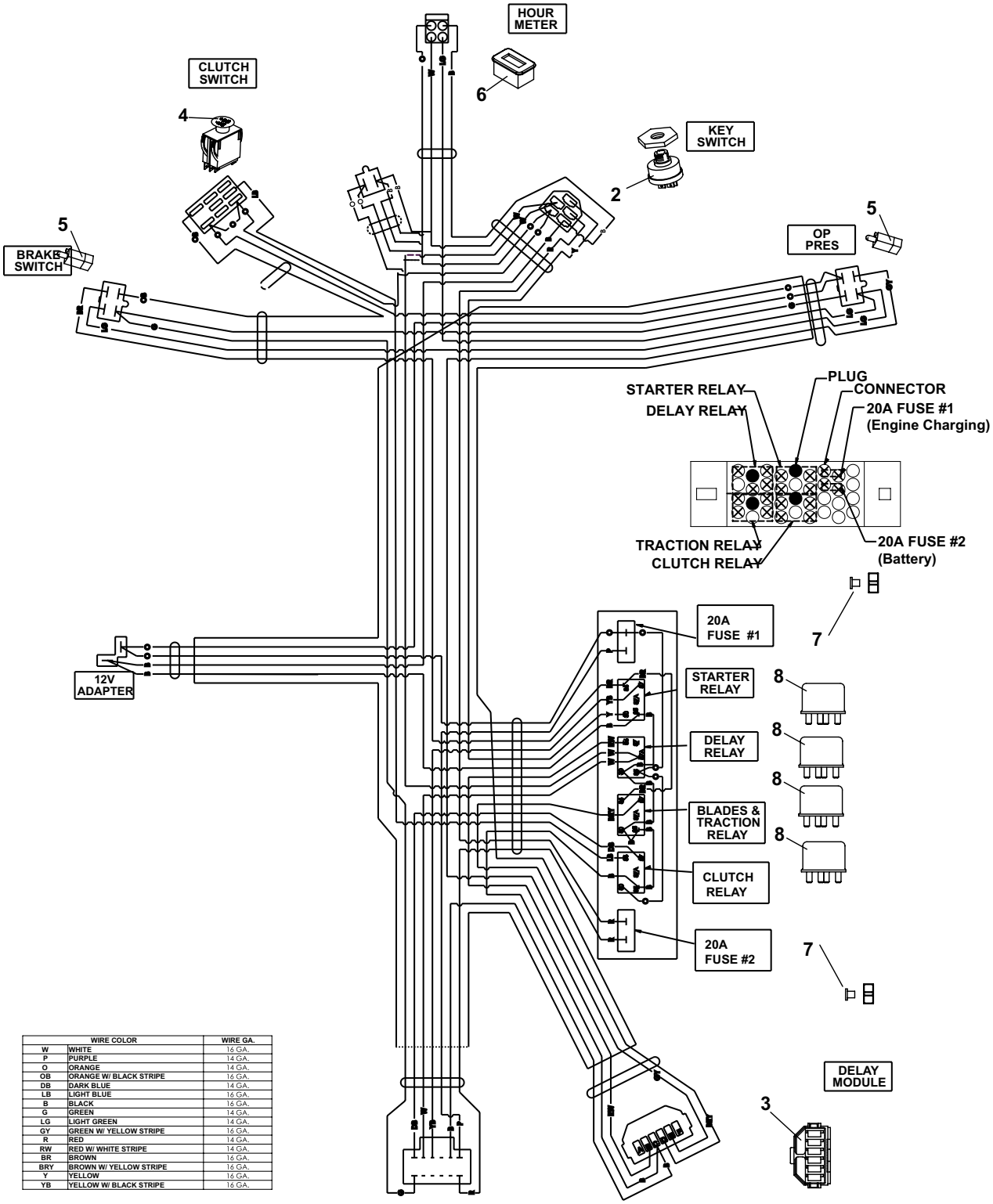
ITEM	PART NO.	DESCRIPTION	QTY
1	4172520	TRANSAXLE-RH	1
	4172519	TRANSAXLE-LH	
2	4173481	WLDMT-PRKNG BRK/SPD CNTRL	1
3	4170934.7	PLATE- BRK & SPD CNTRL	1
4	4177194	S-BRKT, CONTROL RH	1
5	4172259.7	PLATE-PRKNG BRK SPRING	2
6	64268-02	NUT-FL NYLON LOCK 5/16-18	2
7	64123-68	BLT-HEX 5/16-18X1	2
8	64123-15	BLT-HEX 3/8-16X3/4	4
9	64123-88	BLT-HEX 3/8-16X2-3/4	2
10	64268-03	NUT-FL NYLON LOCK 3/8-16	4
11	2308065	SPRING-EXTENSION	2
12	64168-2	COTTER-HAIRPIN .08 X 1.19	3
13	4143595-01	ROD END-FEMALE	1
14	4172748	ROD-PARKING BRAKE	1
15	64025-03	NUT-HEX 5/16-24	1
16	4176297	ROD-PARKING BRAKE	1
17	4176179.7	BRKT-PAKNG BRAKE UPPER	1
18	64229-02	NUT-NYLON LOCK 5/16-18	1
19	64025-02	NUT-HEX 5/16-18	1
20	64221-09	E-RING .313	2
21	4176054	WLDMNT-SPD CNTRL HANDLE	1
22	4176120	KNOB-1.32" TAPERED, 3/8 THRD	1
23	516544	BUSHING (PLATING)	2
24	64262-014	BLT-FLG HD 3/8-16 X 2	1
25	41-053	SPRING COMP .681 X 1.125	1
26	4177195	S-BRKT, CONTROL LH	1
27	64025-15	NUT-HEX #10-24 KEPS	2
28	64152-49	SCREW-SLT HH 10-24X1/2	2
29	2188145-01	BEARING-.75ID BRZ SELF ALIGN	2
30	64141-6	NUT-WLF 5/16-18	2
31	2188156	SWITCH-NONO DBL POLE	1
32	64229-03	NUT-NYLON LOCK 3/8-16	4
33	64123-12	BLT-HEX 5/16-18X2-1/2	2
34	64188-65	PIN-CLEVIS, 1/4 X .62	1
35	64268-02	NUT-FL NYLON LOCK 5/16-18	2

ITEM	PART NO.	DESCRIPTION	QTY

*NOT ILLUSTRATED

BOB-CAT

FIGURE 6



WIRE COLOR		WIRE GA.
W	WHITE	16 GA.
P	PURPLE	14 GA.
O	ORANGE	14 GA.
OB	ORANGE W/ BLACK STRIPE	16 GA.
DB	DARK BLUE	14 GA.
LB	LIGHT BLUE	16 GA.
B	BLACK	16 GA.
G	GREEN	14 GA.
LG	LIGHT GREEN	14 GA.
GY	GREEN W/ YELLOW STRIPE	16 GA.
R	RED	14 GA.
RW	RED W/ WHITE STRIPE	14 GA.
BR	BROWN	16 GA.
BRY	BROWN W/ YELLOW STRIPE	16 GA.
Y	YELLOW	16 GA.
YB	YELLOW W/ BLACK STRIPE	16 GA.

UPPER WIRE HARNESS

FIGURE 6

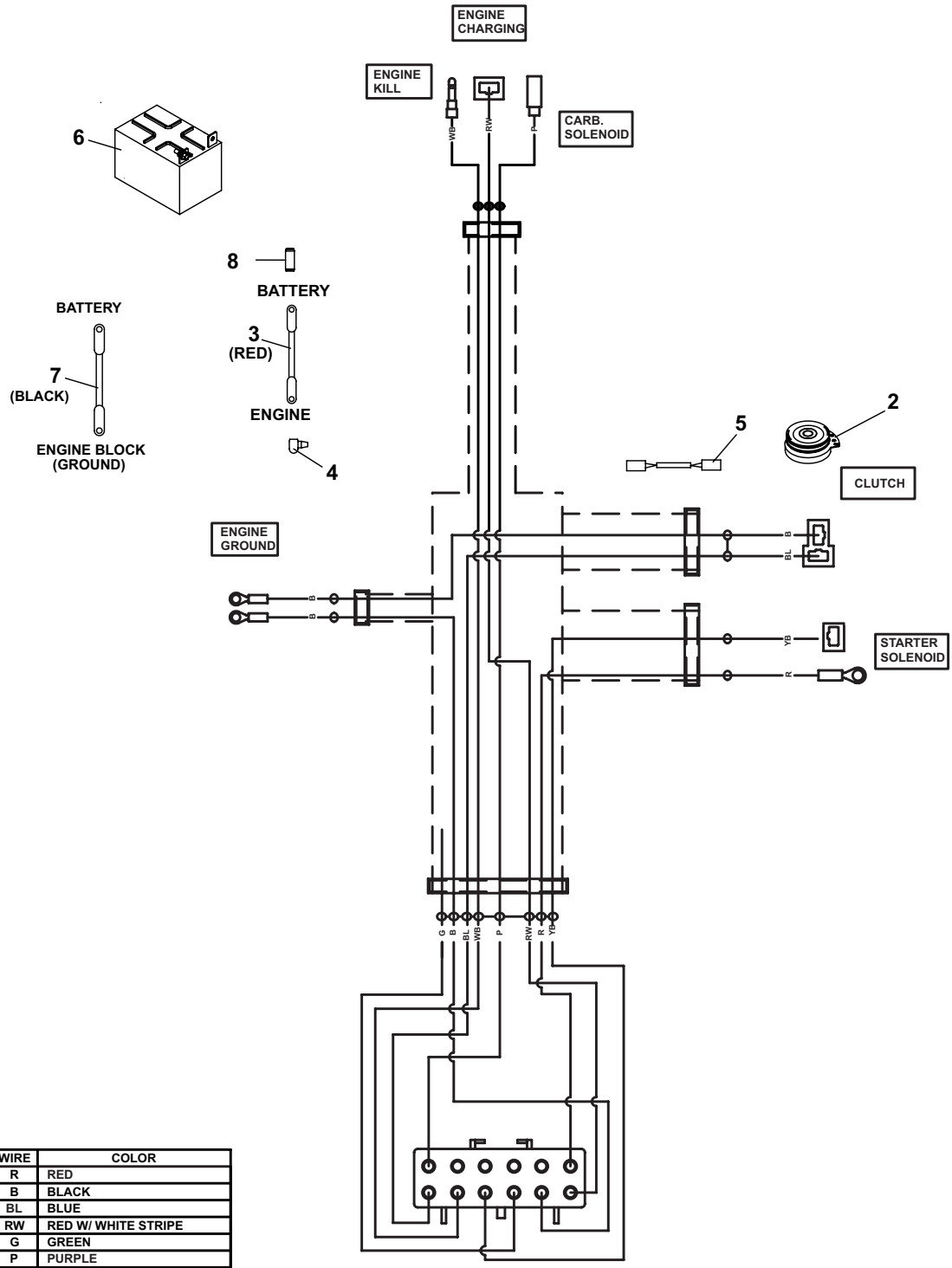
ITEM	PART NO.	DESCRIPTION	QTY
1	4176733	HARNESS-WIRING, UPPR	1
2	128010	SWITCH, KEY	1
3	2188154	MODULE-DELAY	1
4	2721505	SWITCH-PTO	1
5	2188156	SWITCH-NONO DBL POLE	2
6	4171992	METER-HOUR MAG SENSOR	1
7	4173756	FUSE-20 AMP MINI	2
8	4173755	RELAY-SPDT MICRO	4
9*	64018-41	BLT-CRG 1/4-20 X 5/8	3
10*	64268-01	NUT-FL MYLON LOCK 1/4-20	3

*NOT ILLUSTRATED

36" LOWER WIRE HARNESS

BOB-CAT

FIGURE 7



WIRE	COLOR
R	RED
B	BLACK
BL	BLUE
RW	RED W/ WHITE STRIPE
G	GREEN
P	PURPLE
WB	WHITE W/ BLACK STRIPE
YB	YELLOW W/ BLACK STRIPE

36" LOWER WIRE HARNESS

FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY
1	4173593	HARNESS-WIRING, LOWER	1
2	4144116	CLUTCH, ELECTRIC	1
3	2722227-02	CABLE-BATTERY W/CONDUIT	1
4	2308095	COVER-TERMINAL	1
5	4173211	HARNESS-CLUTCH-JUMPER	1
6	4171099	BATTERY-190CCA	1
*	4171973	CHARGER-BATTERY,AGM	
7	108061-13	CABLE-BATTERY 36 BLACK	1
8	112386	BOOT-BATTERY TERM POS	1

*NOT ILLUSTRATED

ITEM	PART NO.	DESCRIPTION	QTY

TOWER ASSY

BOB-CAT

FIGURE 8

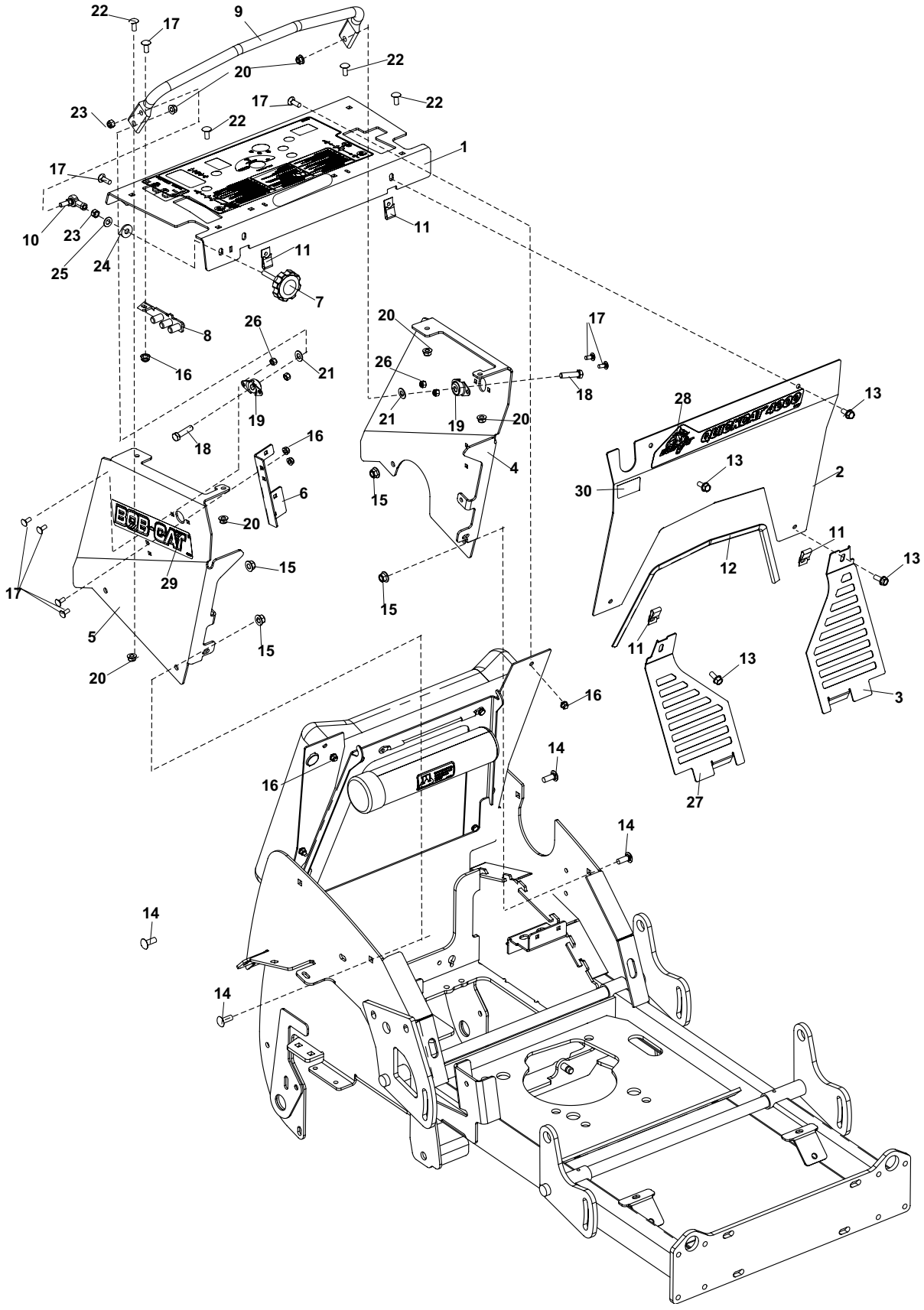


FIGURE 8

ITEM	PART NO.	DESCRIPTION	QTY
1	4176989	S-CONTROL PANEL W/LABELS	1
2	4176335.2	PANEL-TOWER FRONT 36"	1
3	4173000.7	GUARD-36IN FAN,LH	1
4	4176337.2	PANEL-TOWER LH 36"	1
5	4176336.2	PANEL-TOWER RH 36"	1
6	4176217.7	BRKT-RELAY MNTG 36"	1
7	4176700	KNOB-FLUTED, 5/16-24 X 2.00	1
8	4173635.7	WLDMT-PARKING BRAKE STOP	1
9	4176266.7	ROD-POR, FRONT	1
10	4167343-01	ROD END-FEMALE W/BALL STUD	1
11	800889	NUT .31-18 NS SPD J W/NUT	4
12	56-046-03	TRIM LOK 24.00" LONG	1
13	64262-007	BLT-FLG HD 5/16-18 X 1	4
14	64018-44	BLT-CRG 3/8-16X1 SN	4
15	64268-03	NUT-FL NYLON LOCK 3/8-16	6
16	64268-01	NUT-FL NYLON LOCK 1/4-20	5
17	64018-41	BLT-CRG 1/4-20 X 5/8	11
18	64123-70	BLT-HEX 3/8-16X1-1/2	2
19	4176287-01	BEARING-SMALL BRZ SLF ALGN	2
20	64268-02	NUT-FL NYLON LOCK 5/16-18	4
21	64163-61	WSHR .81X.406X16GA	2
22	64018-51	BLT-CRG 5/16-18 X 3/4 SN	4
23	64229-08	NUT-NYLON LOCK 5/16-24	2
24	4169895	WASHER-FRICTION,UHMW	1
25	4169871	WASHER-BELLVILLE,.382 ID	1
26	64229-01	NUT-NYLON LOCK 1/4-20	4
27	4173001.7	GUARD-36IN FAN,rh	1
28	4176706	LABEL-QUICKAT 4000	1
29	4175929	LABEL-BOBCAT, 1..38X8.96	2
30	4177207	LABEL-POR ADJUSTMENT	1

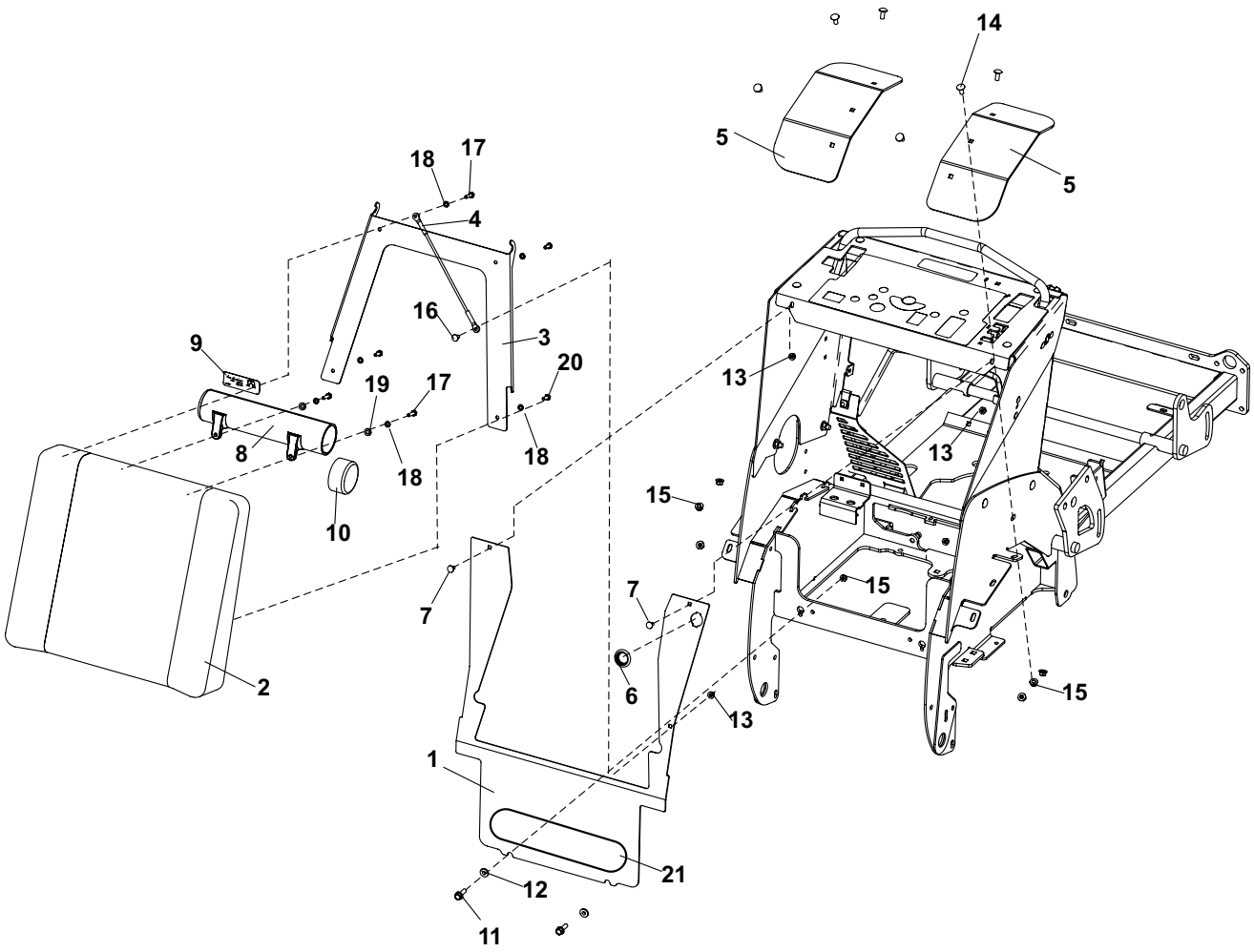
*NOT ILLUSTRATED

ITEM	PART NO.	DESCRIPTION	QTY

RIDER PAD & FENDER ASSY

BOB-CAT

FIGURE 9



BOB-CAT

FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY
1	4176334.2	PANEL-REAR TOWER 36"	1
2	4176397	PAD-RIDER, NARROW	1
3	4170384.7	BRKT-PAD,SUPPORT	1
4	4171100	TETHER-WIRE, COATED	1
5	4172533.7	FENDER-WHEEL	2
6	4167193	PLUG-PLASTIC, 1.125"	1
7	64018-41	BLT-CRG 1/4-20 X 5/8	2
8	4160281	S-DOCUMENT TUBE/LABEL INCLUDES ITEM 9	1
9	2000735	LABEL-OPER MAN	1
10	38061A	CAP-BLACK VINYL	1
11	64262-007	BLT-FLG HD 5/16-18 X 1	2
12	4170388	SPACER-FOOTPLATE LATCH	2
13	64268-01	NUT-FL NYLON LOCK 1/4-20	3
14	64018-51	BLT-CRG 5/16-18 X 3/4 SN	6
15	64268-02	NUT-FL NYLON LOCK 5/16-18	8
16	64018-2	BLT-CRG 1/4-20X3/4	1
17	64123-114	BLT-HEX 1/4-20X1	3
18	64006-01	LOCKWSHR-1/4 HELICAL	6
19	64163-02	WSHR .321X.593X11GA	1
20	6413-84	BLT-HEX 1/4-20 X 3/4"	3
21	4175930	LABEL-BOB-CAT,2.25X14	1

ITEM	PART NO.	DESCRIPTION	QTY

FIGURE 10

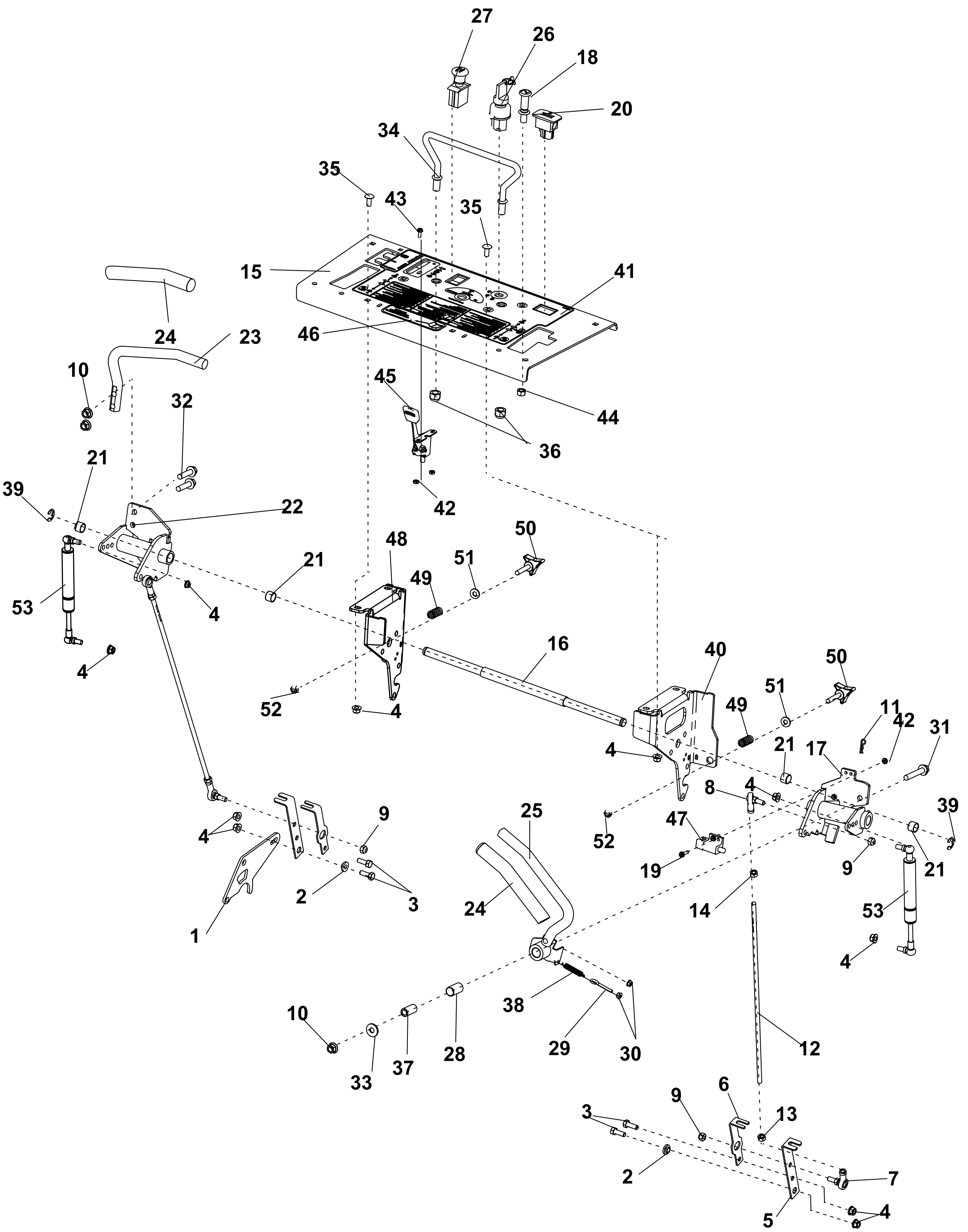

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FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY
1	4173339.7	PLATE-TRANSAXLE CONTROL	2
2	4170388	SPACER-FOOTPLATE LATCH	2
3	64123-107	BLT-HEX 5/16-18X7/8	4
4	64268-02	NUT-FL NYLON LOCK 5/16-18	12
5	4173186.7	EXTENSION-CONTROL ROD	2
6	4173187.7	RETAINER-CONTROL ROD	2
7	4167343-01	ROD END-5/16 FEM STUD RH	2
8	4167343-02	ROD END-5/16 FEM STUD LH	2
9	64229-08	LOCKNUT NYLON 5/16-24	4
10	64268-03	NUT-FL NYLON LOCK 3/8-16	3
11	64168-2	COTTER-HAIRPIN .08 X 1.19	1
12	4170529	ROD-CONTROL	2
13	64025-03	NUT-HEX 5/16-24`	2
14	64025-33	NUT-HEX 5/16-24 LH	2
15	4176989	S-CONTROL PANEL W/ LAB (INCLUDES ITEM 41 & 46)	1
16	4170532	SHAFT-CONTROL HANDLE	1
17	4176939	S-CONTROL W/ BEARINGS, LH (INCLUDES ITEM 21)	1
18	108009-14	CONTROL-CHOKE 38	1
19	64152-49	SCREW-SLT HH 10-24X1/2	2
20	4171992	HOUR METER-MAG SENSE	1
21	4166324-05	BEARING-SLEAVE .625X.50LG	4
22	4176940	S-CONTROL W/ BEARINGS, RH (INCLUDES ITEM 21)	1
23	4171171	HANDLE-CONTROL,STATIONARY	1
24	4172963	GRIP-3/4 X 7.5	2
25	4171587	S-HANDLE, OPERATOR PRE (INCLUDES ITEM 28)	1
26	128010	SWITCH- KEY	1
27	2721505	SWITCH-PTO	1
28	4166324-04	BEARING-SLEEVE	1
29	64158-01	EYE BOLT-10-24 X 1.25 THD LG	1
30	64141-15	NUT-WLF 10-24	2
31	64262-027	BLT-FLG HD 3/8-16 X 2-1/4 GR8	1
32	64262-013	BLT-FLG HD 3/8-16 X 1-1/2	2
33	64163-31	WSHR 25/64X1X12	1
34	4173321	ROD-REAR POINT OF REF	1
35	64018-51	BLT-CRG 5/16-18 X 3/4 SN	4
36	64268-05	NUT-FL NYLON LOCK 1/2-13	2
37	4171409	SPACER-.625 X.386 X1.26	1
38	4171461	SPRING-EXTENSION	1
39	64221-02	E-RING .625	2
40	4177195	S-BRKT CONTROL LH	1
41	4172712	LABEL-CONTROL	1
42	64025-15	NUT-HEX #10-24 KEPS	4
43	64152-46	SCREW-SLT HH 10-24X1/2	2
44	64025-04	NUT-3/8-24 HEX	1
45	118020-23	CONTROL THROTTLE 45IN	1
46	4171344	LABEL-OPS MANUAL	1
47	2188156	SWITCH-NONO DBL POLE	1
48	4177194	S-BRKT CONTROL RH	1
49	41-053	SPRING COMP .681 X 1.125	2
50	64163-55	WSHR .328X.75X14 GA	2
52	64151-41	NUT-HEX,5/16-18 NYLON LOCK	2
53	2228065	DAMPER-NON-CAVITATING	2

HEIGHT OF CUT ASSY

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FIGURE 11

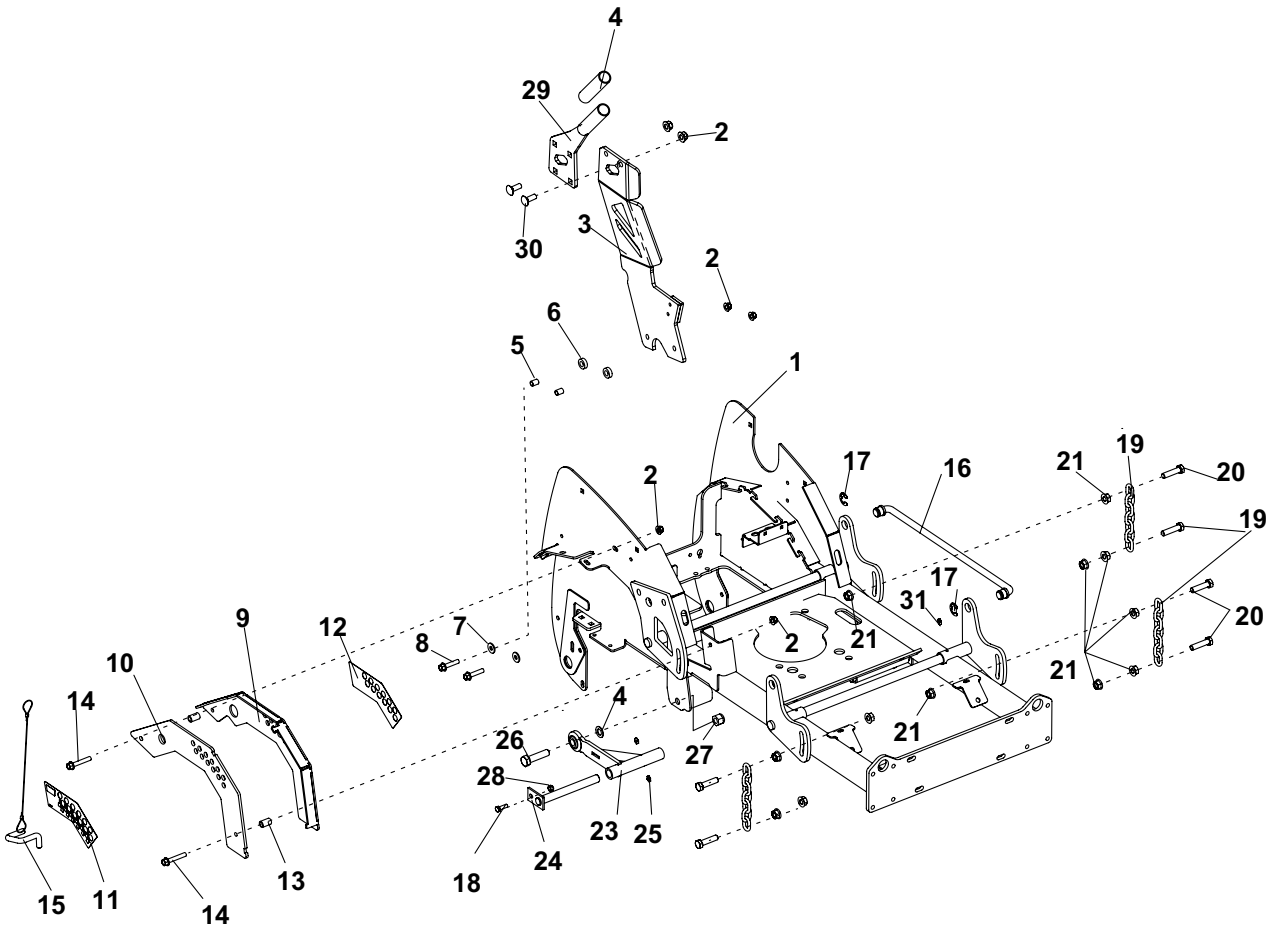

FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	64268-03	NUT-FL NYLON LOCK 3/8-16	6
3	4176288.7	WLDMT-HOC HANDLE	1
4	C100018	GRIP-HANDLE	1
5	4173208	SPACER-HOC ARM	2
6	517162	SPACER, RUBBER .328 (8mm)	2
7	64163-31	WSHR 25/64X1X12	2
8	64262-029	BLT-FLG HD 3/8-16 X 1-3/4	2
9	4173145.2	WLDMT-HOC	1
10	4173146.2	PLATE-HOC, OUTSIDE	1
11	4170653	LABEL-HOC	1
12	4170988	LABEL-HOC	1
13	2183071-05	SPACER	2
14	64262-027	BLT-FLG HD 3/8-16 X 2-1/4 GR8	2
15	4177355	ASSY-PIN & LANYARD	1
16	4167826	ROD-DECK LIFT	2
17	64221-04	E-RING .875	4
18	64123-68	BLT-HEX 5/16-18X1	2
19	4169126-01	CHAIN-6.35 (.250) 7 LINKS	4
20	64123-281	BLT-HEX 1/2-13X2 FLL THRD	8
21	64141-13	NUT-WLF 1/2-13	16
22	64163-93	WASHER-.63/.65 X 1.12 X .062	2
23	4173115.7	WLDMT-PUSH ARM	2
24	2186125	WLDMT-LOCK PUSHBAR	2
25	85010N	ZERK 1/4-28 STR SLF THRD	4
26	64123-168	BLT-HEX 5/8-11X2-1/2	2
27	64229-06	NUT-NYLON LOCK 5/8-11	2
28	64229-02	NUT-NYLON LOCK 5/16-18	2
29	4176557.7	WLDMT-HOC HANDLE TOP	1
30	64018-44	BLT-CRG 3/8-16X1	2
31	4168424	ZERK-1/4-28 SHT NECK ST	4

ITEM	PART NO.	DESCRIPTION	QTY

*** NOT ILLUSTRATED**

CASTER ASSY

FIGURE 12

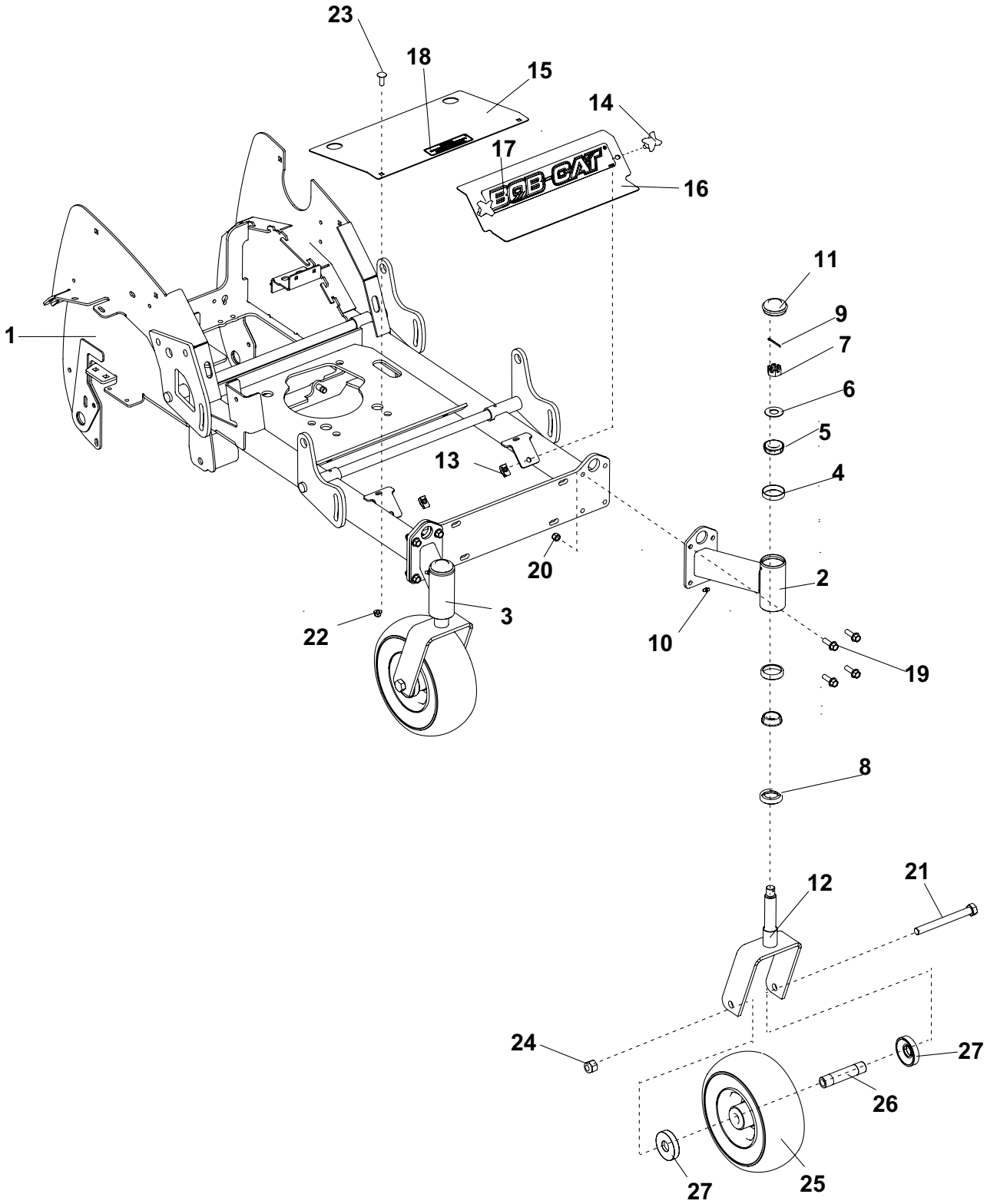

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FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY
1	4173744	S-FRAME 36IN W/ LABELS	1
2	4173644.2	WLDMT-CASTER ARM, 36 LH	1
3	4172709.2	WLDMT-CASTER ARM, 36 RH	1
4	48043-03C	CUP OUTER BEARING	4
5	48043-04C	CONE-OUTER BEARING	4
6	64209-17	WSHR-CON SPRING .755 X 1.5	2
7	64025-20	NUT-HEX 3/4-16 SLOT U	2
8	48480	SEAL CR 12411	2
9	64140-9	COTTER PIN-1/4-2	2
10	85010N	ZERK 1/4-28 STR SLF THRD	2
11	4162986	CAP-END	2
12	4172707.7	WLDMT-CASTER YOKE	2
13	64259-01	U-NUT 5/16-18	2
14	2722458	KNOB-4 PRONG 5/16-18 X .75	2
15	4173747 (INCLUDES ITEM 18)	S-SHIELD, EXHAUST HEAT	1
16	4172829.7	COVER-BELT, CNTR	1
17	4175930	LABEL-BOB-CAT	1
18	4173485	LABEL-HEAT SHEILD	1
19	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	8
20	64229-03	NUT-NYLON LOCK 3/8-16	8
21	64123-212	BOLT - 5/8-11 X 6.00	2
22	64268-02	NUT-FL NYLON LOCK 5/16-18	2
23	64018-51	BLT-CRG 5/16-18 X 3/4 SN	2
24	64229-06	NUT-NYLON LOCK 5/8-11	2
25	4176232	ASSY-WHEEL 11X4-5 BLACK	2
26	2722230-07	SPANNER	2
27	2722231	SPACER-END	4

ITEM	PART NO.	DESCRIPTION	QTY

36" SIDE DECK ASSY

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FIGURE 13

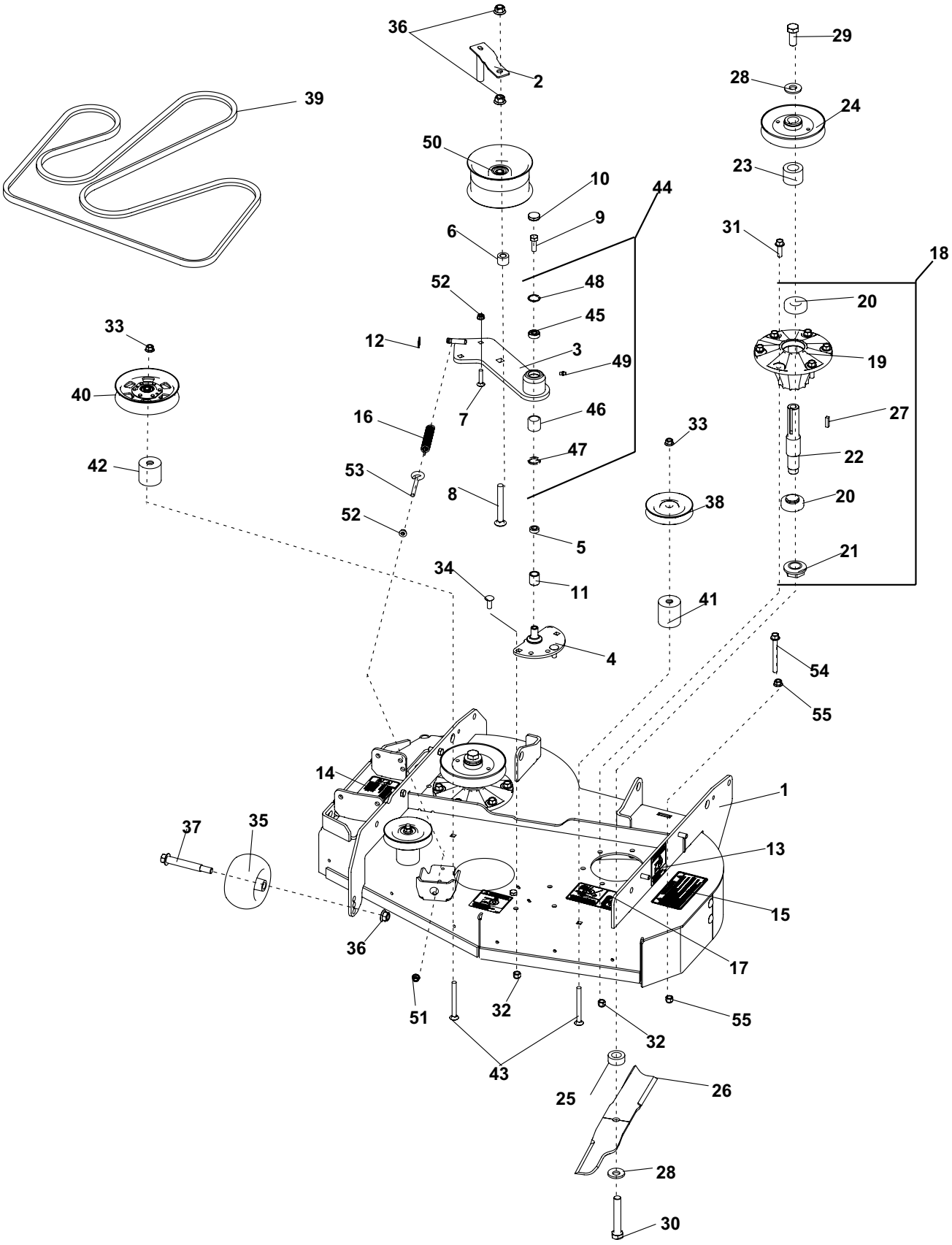

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FIGURE 13

ITEM	PART NO.	DESCRIPTION	QTY
1	4173749	S-36" DECK W/ LABELS	1
	(INCLUDES ITEMS 13-15 & 17)		
2	4170510.7	GUIDE-BELT,IDLER PULLEY	1
3	4173179.7	ASSY-IDLER ARM	1
4	4170021.7	WLDMT-IDLER PIN	1
5	4163014	SPACER	1
6	4163802-01	SPACER-1.0 X .516 X .75	1
7	64018-34	BLT-CRG 5/16-18 X 1-1/2	1
8	64018-21	BLT-CRG 1/2-13X4	1
9	64270-02	BLT-HEX M10-1.5x30 ISO CL10.9	1
10	4128002	CAP-26 X 7 END	1
11	4163155	INNER RING	1
12	64144-46	SNAP RING-7/16 X.39	1
13	2000577	DECAL, "ROTATING PARTS"	3
14	4164269	LABEL-WARNING THRWN OBJ	1
15	2000572	LABEL-WARNING BLADES	1
16	2188131	SPRING, EXT	1
17	4173484	LABEL-BELT ROUTE/SPRING	1
18	4165022	S-SPINDLE ASSY	2
	(INCLUDES ITEMS 19-22)		
19	4164948	HOUSING-SPINDLE	2
20	4167554-01	BEARING-1" SPINDLE	4
21	38315	NUT-SPINDLE	2
22	2183070-01	SHAFT-SPINDLE LONG	2
23	4172701-01	SPACER-1.75 X 1.02 X 1.317	2
24	4144947	PULLEY SPINDLE	2
25	4118314	SPACER-BLADE	2
26	112111-08	BLADE 17.50 OFFST HLFT	2
	112111-08-LE	BALDE 17.50 LAZER EDGE (OPT)	
27	64164-12	KEY-1/4X1 SQ	2
28	64209-03	SPRING WASHER.67 ID	4
29	64123-208	BLT-HEX 5/8-18X1-1/2	2
30	64123-187	BLT-HEX 5/8-18X3-3/4	2
31	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	12
32	64229-03	NUT-NYLON LOCK 3/8-16	15
33	64268-03	NUT-FL NYLON LOCK 3/8-16	3
34	64018-44	BLT-CRG 3/8-16X1 SN	3

ITEM	PART NO.	DESCRIPTION	QTY
35	2721512	ROLLER-5X2.75 CENTERED	3
36	64268-05	NUT-FL NYLON LOCK 1/2-13	5
37	4172885	BOLT-SHLDR, ANTI-SCALP	3
38	4173434	PULLEY-V IDLER,4.25	2
39	4170484	BELT-DECK	1
40	4168078	PULLEY	1
41	4172700-04	SPACER-2.0 X .406	2
42	4172700-05	SPACER-2.0 X .406	1
43	64018-60	BLT-CRG 3/8-16X3-3/4 G5	3
44	4173478	ASSY-IDLER ARM	1
	(INCLUDES ITEMS 3, 45-49)		
45	4128004	BEARING-BALL 10 X 26 X 8	1
46	548138	BRG NDL.88 1.12 1.00	1
47	521438	GREASE SEAL	1
48	64144-40	SNAP RING-26MM INTERNAL	1
49	85010N	ZERK 1/4-28 STR SELF THREAD	1
50	4170088	PULLEY-5.25" X 2.5"W	1
51	64268-02	NUT-FL NYLON LOCK 5/16-18	1
52	64141-1	NUT-WLF 5/16-18	2
53	64158-11	EYE BOLT-5/16-18 X 3.61 W/GAP	1
54	64123-331	BLT-HEX 3/8-16X4-3/4	1
55	64141-4	NUT-WLF 3/8-16	2

*NOT ILLUSTRATED

CHUTE, BAFFLES & EDGES ASSY

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FIGURE 14

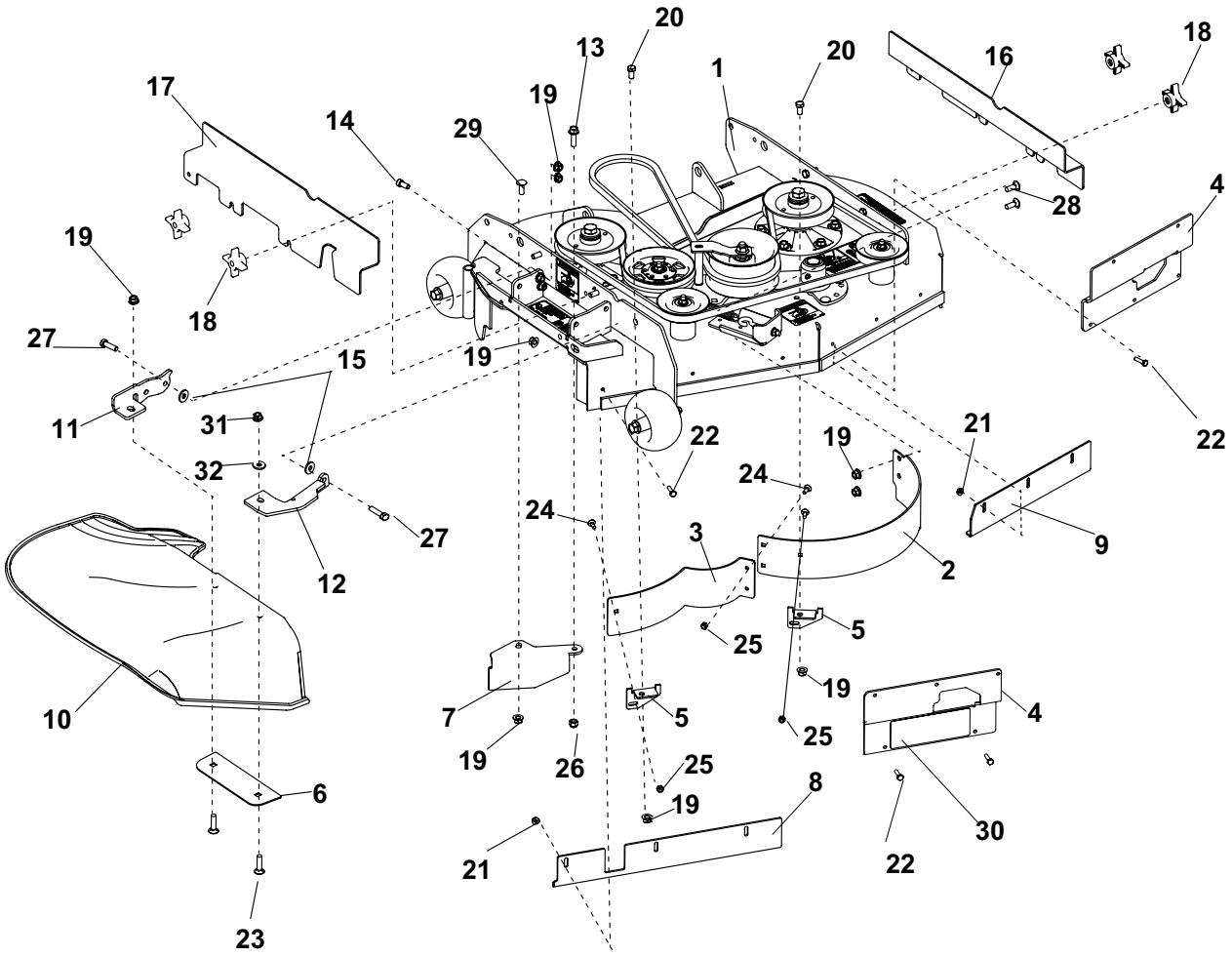

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FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY
1	4173749	S-36" DECK W/ LABELS	1
2	4172728.7	BAFFLE-FRONT, LH 36IN	1
3	4172729.7	BAFFLE-FRONT, CNTR 36IN	1
4	4173432.2	GUARD-DECK FRONT	2
5	4172234.2	BIFURCATED MNTG	2
6	4173063.7	PLATE-CHUTE	1
7	4172730.2	BAFFLE-DISCHARGE,36IN	1
8	4172786.2	EXTENSION-36IN,RH	1
9	4172785.2	EXTENSION-36IN,LH	1
10	4172328	CHUTE-DISCHARGE	1
11	4177410.7	BRKT-CHUTE, REAR	1
12	4177409.7	BRKT-CHUTE, FRONT	1
13	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	1
14	64189-28	BLT-HEX SOC,3/8-16X3/4	1
15	4169895	WASHER-FRICTION, UHMW	2
16	4172733.7	GUARD-BELT,RH	1
17	4172732.7	GUARD-BELT,LH	1
18	38524	KNOB-4 PRONG 3/8-16	4
19	64268-03	NUT-FL NYLON LOCK 3/8-16	8
20	64123-15	BLT-HEX 3/8-16X3/4	2
21	64268-01	NUT-FL NYLON LOCK 1/4-20	6
22	64123-114	BLT-HEX 1/4-20 X 1	6
23	64018-49	BLT-CRG 3/8-16X1-1/2	2
24	64018-2	BLT-CRG 1/4-20X3/4	4
25	64229-01	NUT-NYLON LOCK 1/4-20	4
26	64229-03	NUT-NYLON LOCK 3/8-16	1
27	64123-16	BLT-HEX 3/8-16X1-1/4	2
28	64018-3	BLT-CRG 3/8-16X1	2
29	64018-44	BLT-CRG 3/8-16X1 SN	1
30	4162912	LABEL-DECK SIZE 36"	1
31	64151-34	NUT-HEX LOCK 3/8-16 JAM	2
32	64163-61	WSHR-.81X.406X16 GA	2

ITEM	PART NO.	DESCRIPTION	QTY

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