



SETUP, PARTS & MAINTENANCE MANUAL ZT 200 EFI SERIES

Models:

942230A ZT 226EFI 26HP KLR W/61 SIDE DISCHARGE

942231A ZT 226EFI 26HP KLR W/72 SIDE DISCHARGE

942238A ZT 228EFI 28HP KLR W/61 SIDE DISCHARGE

942239A ZT 228EFI 28HP KLR W/72 SIDE DISCHARGE



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

CALIFORNIA
Proposition 65 Warning

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



WARNING

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

Californie Proposition 65
Avertissement

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



AVERTISSEMENT

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

California Advertencia
de la Proposicion 65

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



ADVERTENCIA

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

ZT 200 EFI Series

IMPORTANT MESSAGE

Thank you for purchasing this Bob-Cat 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 Bob-Cat 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 Bob-Cat dealer for any service or parts needed. Bob-Cat service ensures that you continue to receive the best results possible from Bob-Cat's products. You can trust Bob-Cat replacement parts because they are manufactured with the same high precision and quality as the original parts.

Bob-Cat 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.

Jacobsen, a Textron Company
One Bob Cat Lane
Johnson Creek, WI 53038-0469

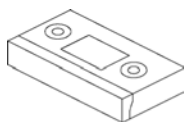
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NOTICE !!!

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

Jacobsen, a Textron Company strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Jacobsen Engineering Department. Any Jacobsen 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 Jacobsen—will result in the Jacobsen 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 Jacobsen will be considered the responsibility of the individual(s) or company designing and/or making such changes. Jacobsen 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.



OPERATION TRAINING VIDEO:

Part Number	Description
2810594	VIDEO-BOBCAT 100/200



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 Bob-Cat 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 mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

TOOLS REQUIRED FOR ASSEMBLY

- Wrecking bar
- Claw hammer
- Ratchets: 3/8"
- Sockets: 3/8", 1/2", 17 mm
- Wrenches: 13 mm, 15 mm, 17 mm, 18 mm, 1-1/16", 1-1/8"
- Straight edge
- Tire pressure gauge
- Blocks (for deck leveling)

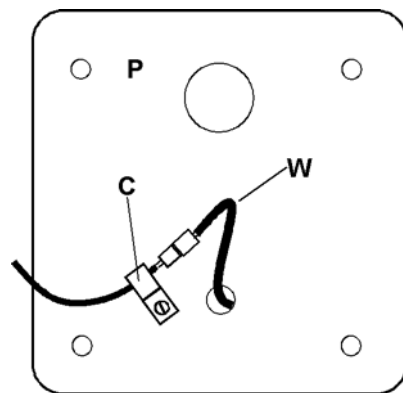
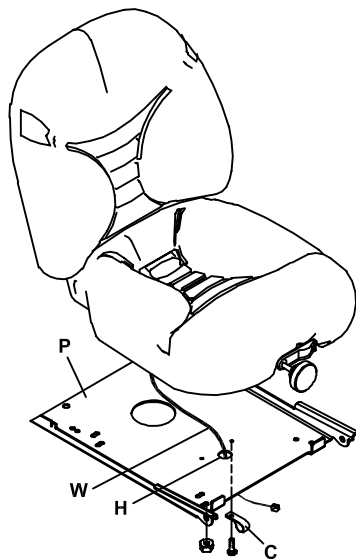
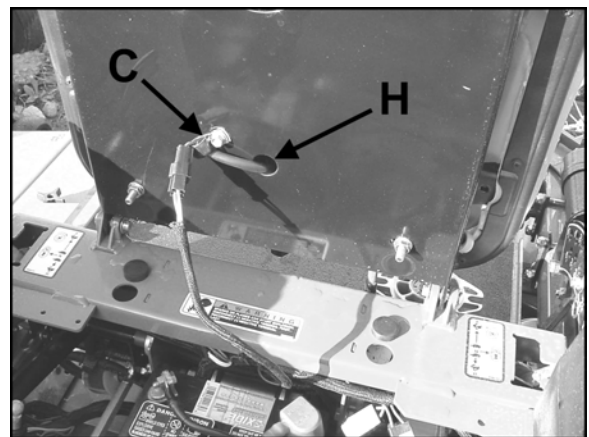
NOTE: All references below to the "right" or "left" are with respect to an operator at the controls.

1. UNCRATE UNIT

- a) Discard packing materials. Remove and discard shipping brackets. Tighten caster wheel axle bolts against caster axle spanner bushings.

2. INSTALL SEAT

- a) Position seat over seat plate and route seat wire **W** through hole **H** in seat plate. Drop seat mounting studs through seat plate holes. Secure studs with four 5/16-18 whiz nuts and tighten securely.
- b) Leave enough seat wire between the seat and seat plate to allow full fore and aft travel of the seat. Secure seat wire on the bottom of the seat plate with clip **C** and a 1/4-20x3/8 thread forming screw.
- c) Connect the tractor harness to the seat wire.

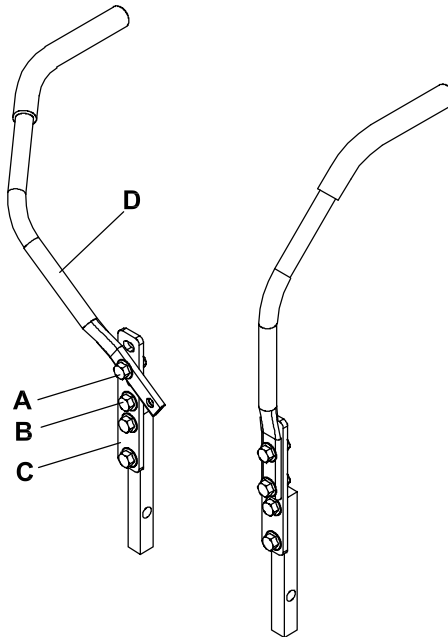


Bottom of seat plate **P** showing clip **C**

3. Set tire pressures to 14 lbs/in² (1.0 kg/cm²). Tires are overinflated for shipping.

4. TRACTION LEVERS

- a) Loosen bolt **A** and remove bolt **B**.
- b) Rotate traction lever **D** into position and secure with bolts **A** and **B**. Repeat for the other lever.
- c) Tighten all fasteners.
- d) Sit on the machine. Levers may be adjusted in bracket **C** for a more comfortable reach, or moved to upper set of holes for a better operator fit.

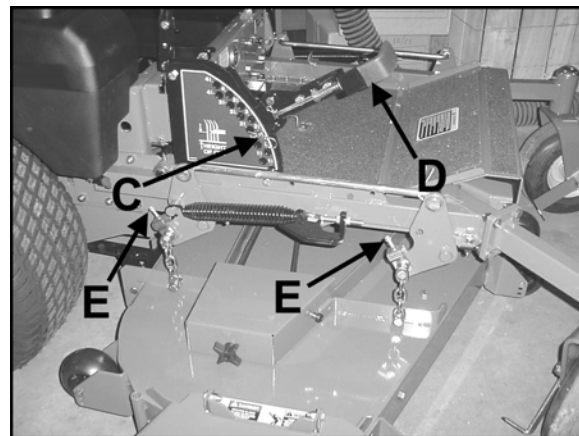
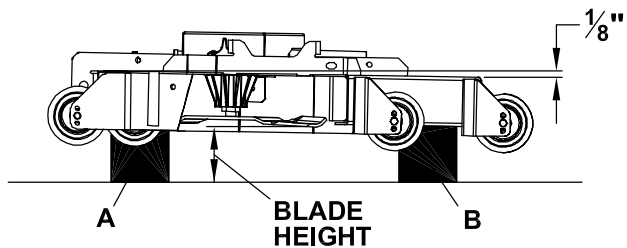


5. DECK LEVELING

- a) Park the machine on a smooth, level surface. Raise the deck to the transport position.
- b) Lower the deck onto a set of equal height blocks **A** under the rear corners of the deck. Place another set of blocks **B** under the front of the deck so that the deck top is pitched forward 1/8".

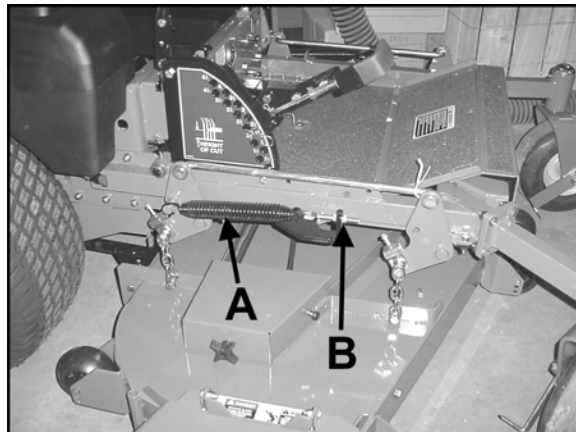
NOTE: The front and rear of the deck are at different heights.

- c) Measure the height of the blade cutting edge above the ground. Remove pin **C** and set the height of cut lever **D** to that height
- d) Loosen the jam nuts on the height of cut clips and adjusting screws **E**. Turn the adjusting screws **E** until the play is taken out of the chains at all four corners. Tighten the jam nuts against the clips and at the adjusting screws.



6. COUNTERBALANCE SPRINGS

- a) Raise the cutterdeck all the way.
- b) Adjust the spring **A** with nut **B**:
61" cutterdecks to a length of 9-9/16" (242 mm)
72" cutterdecks to a length of 10-1/8" (257 mm)
The springs may be tightened or loosened from this point according to personal preference.



7. FINAL PREPARATIONS

- Check the engine and hydraulic oil levels. Top up with the correct oil if necessary. Use 10W30 motor oil for the engine. Use fresh, clean 15W40 or 20W50 motor oil or 15W50 synthetic motor oil for the hydraulic system.
- Remove the battery from the machine. Fill the battery to the bottom of the vent wells with acid and trickle charge for several hours.



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.
 - 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.

MAINTENANCE CHART

ZT 200 EFI Series

MAINTENANCE OPERATION	Maintenance is an ongoing job. These intervals are maximum times between maintenance operations. Perform more often under severe conditions.						
	FIRST 5 HOURS	DAILY	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	EVERY 500 HOURS
ENGINE							
Consult the engine manual for additional information and instructions							
Check/Top off Engine Coolant Level (Where Applicable)		X					
Check/Top up Oil Level		X					
Check for Leaks		X					
Clean Air Intake Screen		X					
Clean Air Cleaner Precleaner			X*				
Clean Air Cleaner Element					X	X**	
Clean Cooling Fins					X		
Change Oil and Filter	X	See engine manufacturer's manual					
Check/Replace Spark Plugs						X	
* N/A IF EQUIPPED WITH HEAVY DUTY CYCLONIC AIR CLEANER							
**IF EQUIPPED WITH HEAVY DUTY CYCLONIC AIR CLEANER							
HYDRAULICS							
Check for Leaks		X					
Check/Top up Oil Level					X		
Change Oil and Filter	X						X
MACHINE							
Check Interlock Operation		X					
Check Tire Pressures		X					
Check/Top up Battery					X		
Lubricate All Points				X			

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CHECK DAILY

Operator Presence Interlock System - Start Operation

For the engine to crank, the parking brake must be on, the PTO (blades) off and traction levers in the neutral lock position. Sit in the seat and check, one by one, if the engine will crank with the parking brake off, the blades on, and either traction lever out of neutral lock. Also, make sure engine coolant temperature gauge light flashes upon turning key to the **ON** position.

Operator Presence Interlock System - Run Operation

The operator must be in the seat for the engine to run with the parking brake off, the traction levers moved out of the neutral lock position, or the blades on. To check:

1. Start the engine and run at 1/2 throttle with the operator on the machine but raised off the seat.
2. One by one: move the parking brake to the "OFF" position, traction levers out of the neutral lock position (check each independently), and turn the blades on. Each check should kill the engine after 1/2 second. (A 1/2 second delay is built into the system to prevent engine cutout 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

Tires should be kept inflated at 14 lbs/in² (1.0 kg/cm²). Improper tire inflation can cause rapid tire wear and poor traction. Uneven inflation can cause uneven cutting.

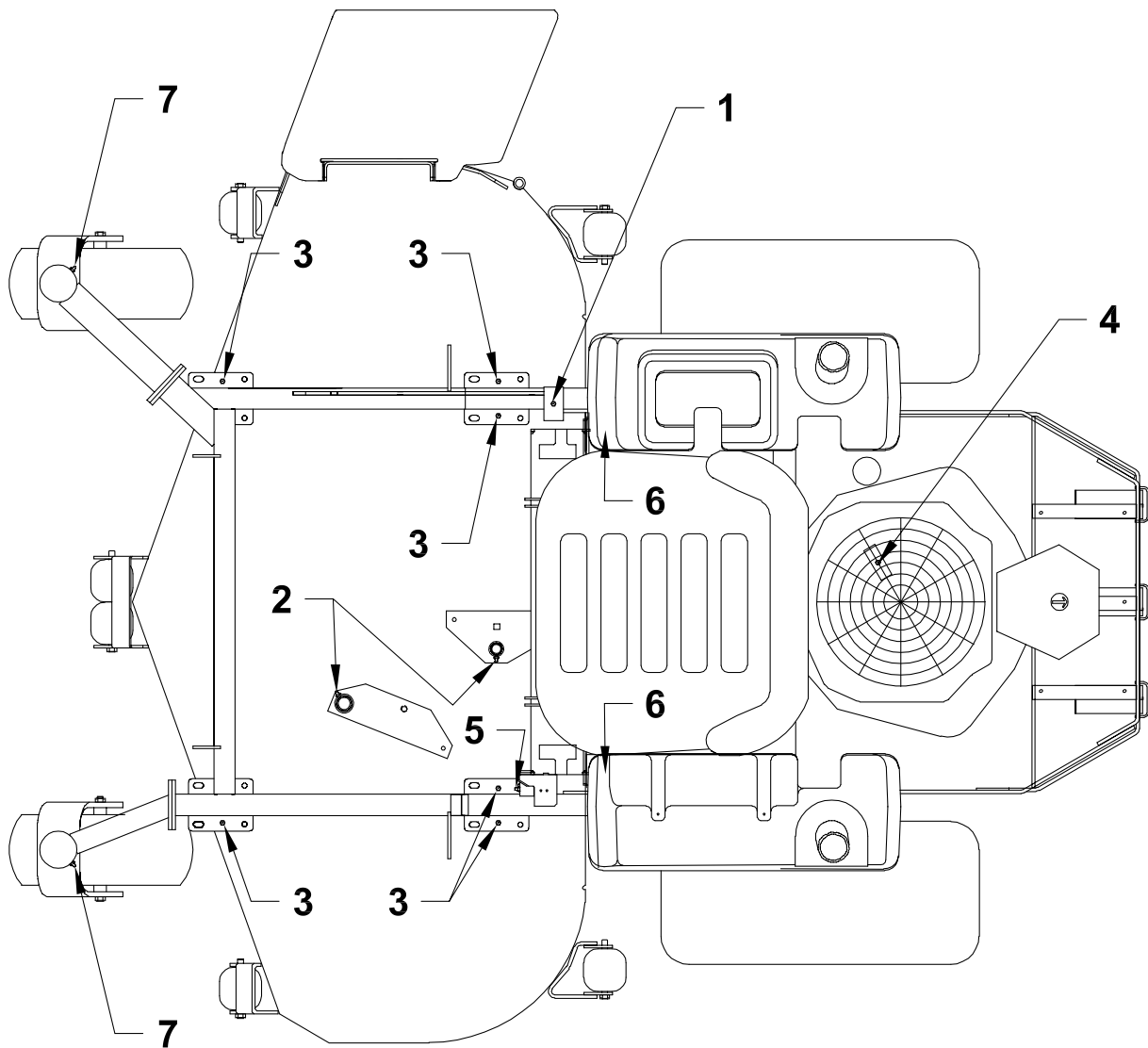
Battery

⚠ 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. Check the electrolyte level every 100 hours of operation.
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 (1-6) with grease:

1. Deck lift rockshaft (1 point)
2. Deck idler pivot bearings (2 points)
3. Deck lift pivots (6 points)
4. Hydro belt tensioner (1 point under engine deck)
5. Brake lever pivot (1 point)
6. Push arms (2 points located at rear of cutterdeck under each fuel tank)
7. Caster wheel pivots (2 points)
(Lubricate every 500 hours or once a year)

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

HYDRAULIC SYSTEM

Fluid level in the hydraulic system should be checked after the first 5 hours of operation, and every 100 hours thereafter, or when a leak has occurred. If the fluid is low, check all components for leaks.

To check, remove reservoir cap **M**. The fluid level should be at the bottom of the filler tube. If low, top up (do not overfill). Use one of the oils listed below:

- SAE 15W40 motor oil
- SAE 20W50 motor oil
- 15W50 synthetic motor oil

AFTER FIRST FIVE (5) HOURS

1. Remove plug **N** to drain hydraulic reservoir. Dispose of used oil in accordance with local requirements.
2. Clean and replace the plug.
3. Change hydraulic oil filter **G**.
4. Fill the reservoir with fresh oil to the bottom of the reservoir filler tube, using an oil from the list above. Do not overfill.

PERIODIC OIL CHANGES

Change the hydraulic fluid and hydraulic filter after each 500 hours of operation using the same procedure given above.

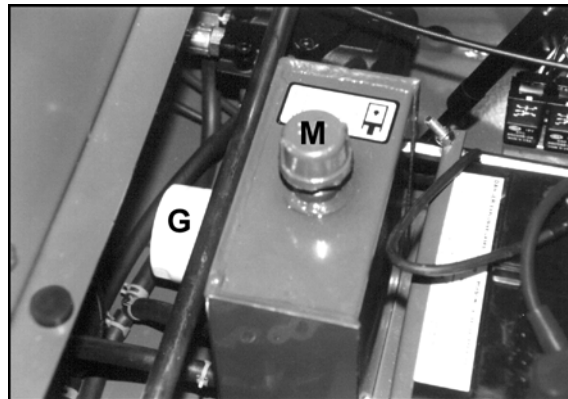
NOTES:

Before servicing the hydraulic system, stop the engine, disconnect spark plug wires and disengage the PTO.

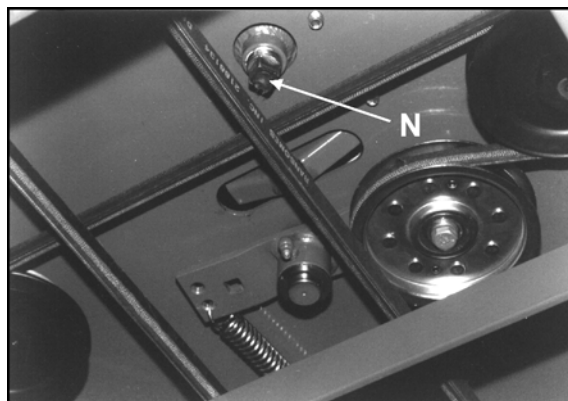
- After any hydraulic line is opened, plug or cap it promptly to reduce the risk of contamination.
- Do not use teflon tape on hydraulic pipe fittings. Use a liquid sealant that will dissolve into the system.
- Make sure all hydraulic connections are tight and hydraulic hoses and lines are in good condition before applying pressure to system.

WARNING

The machine's hydraulic system operates under high pressure. When checking for leaks, do not use your hands to attempt to find a leak. Instead, use cardboard or paper. Escaping hydraulic fluid can be under sufficient pressure to penetrate skin and cause serious injury. If hydraulic fluid is injected into the skin, it must be promptly removed by a doctor familiar with this form of injury or gangrene may result.



View from right side



View from below machine

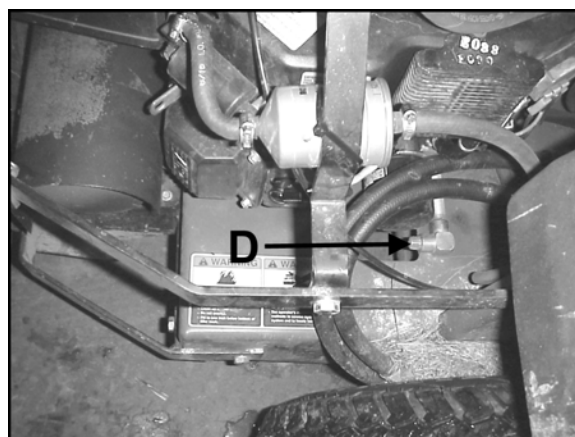
ENGINE OIL

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

AFTER FIRST FIVE (5) HOURS

While the engine is warm:

1. Remove drain cap **D** and drain the crankcase. Dispose of used oil in accordance with local requirements.
2. Clean and replace the cap.
3. Change oil filter.
4. 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.

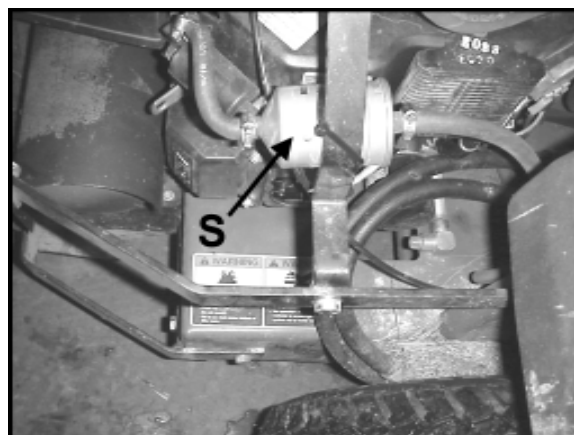
FUEL SYSTEM

⚠ WARNING Before attempting to service any part of the fuel system, the pressure must be relieved.

Refer to section 5B of the engine manual.

A low pressure filter **C** is located on the kickplate as shown. Inspect at every oil change and replace when necessary.

A high pressure fuel filter **S** is located as shown. The fuel in this filter is always under pressure. The filter should be replaced every 1500 hours of operation.



Engine Malfunction Indicator Lamp

The ECU is the brain or central processing computer of the entire EFI fuel/ignition management system. If a fault is detected, the ECU turns on the Malfunction Indicator Light (MIL) on the equipment control panel, stores the fault code in its fault memory, and goes into a default operating mode. The procedure for obtaining MIL codes and what they indicate may be found in the engine manufacturer's service manual.

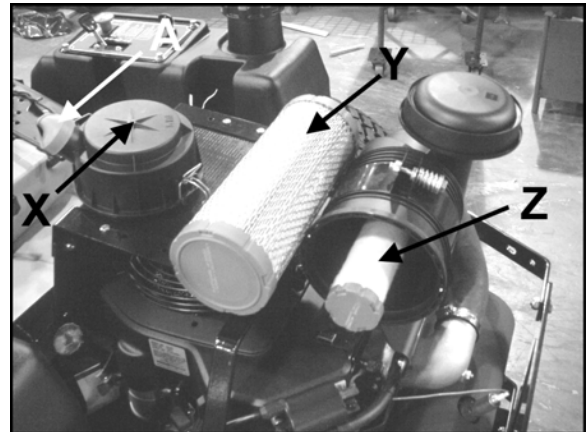
NOTE: When the key is first turned on, the light comes on for several seconds (or until the engine starts) to verify the light is working.

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:

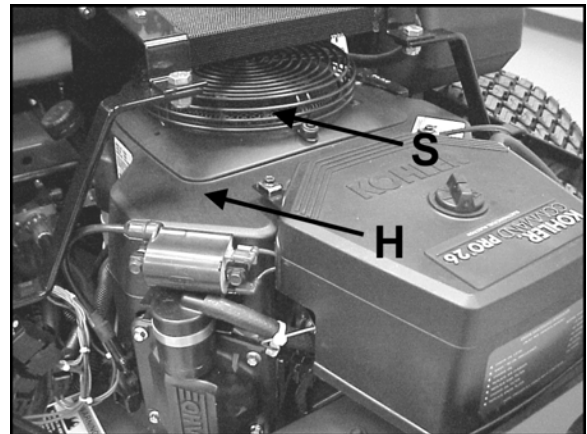
1. Unclamp end cover **X** and remove existing cleaner elements.
2. Insert new elements **Y** and **Z** and replace cover. Ensure the breathing port **A** is pointing down and towards the front of the tractor.



ENGINE COOLING

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

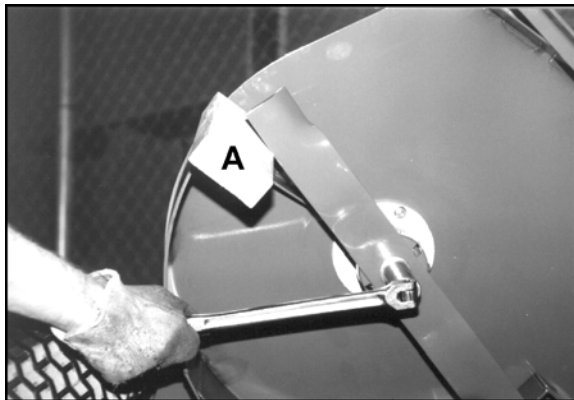
- **Daily:** Clean air intake screen **S**.
- **Every 100 hours:** Clean cooling fins beneath blower housing **H** with reference to information in the engine manufacturer's manual.



BLADE REMOVAL

Follow these instructions to prevent injury during blade removal:

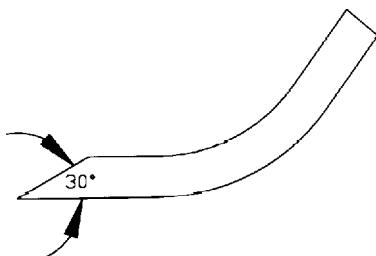
1. Loosen with a box wrench or a socket and long breaker bar. To gain additional leverage, slip a long pipe or thick-walled tube over breaker bar or wrench.
2. Insert wood block **A** as shown, with grain perpendicular to blade, to prevent blade from turning when loosening.
3. Wear thickly padded gloves.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

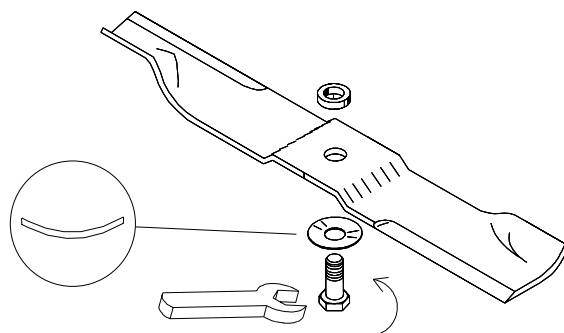
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

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 it 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.

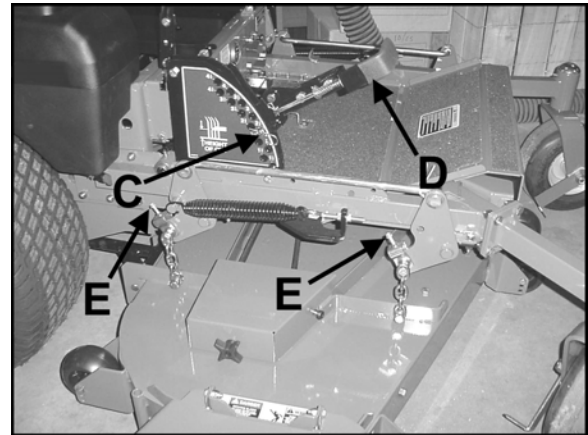
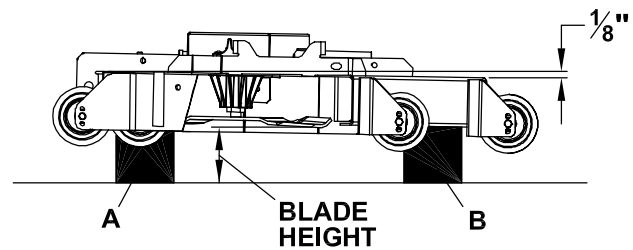


DECK LEVELING

- Park the machine on a smooth, level surface. Raise the deck to the transport position.
- Lower the deck onto a set of equal height blocks **A** under the rear corners of the deck. Place another set of blocks **B** under the front of the deck so that the deck top is pitched forward $\frac{1}{8}$ ".

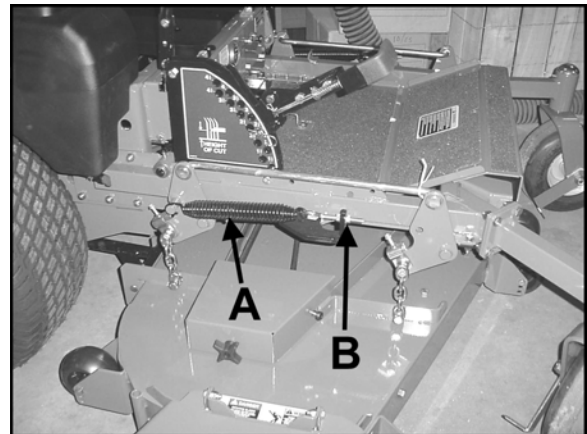
NOTE: The front and rear of the deck are at different heights.

- Measure the height of the blade cutting edge above the ground. Remove pin **C** and set the height of cut lever **D** to that height.
- Loosen the jam nuts on the height of cut clips and adjusting screws **E**. Turn the adjusting screws **E** until the play is taken out of the chains at all four corners. Tighten the jam nuts against the clips and at the adjusting screws.



COUNTERBALANCE SPRINGS

- Raise the cutterdeck all the way.
- Adjust the spring **A** with nut **B**:
61" cutterdecks to a length of 9-9/16" (242 mm)
72" cutterdecks to a length of 10-1/8" (257 mm)
The springs may be tightened or loosened from this point according to personal preference.



HEIGHT OF CUT

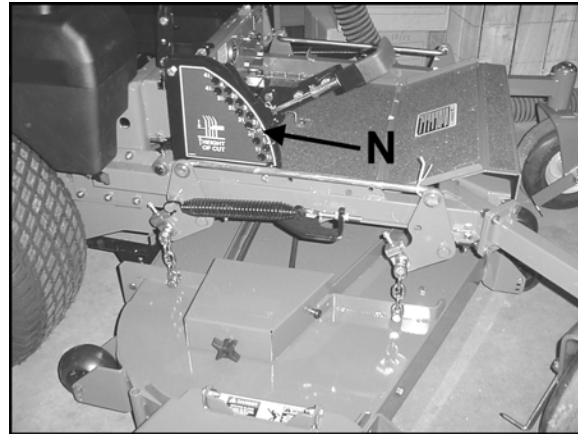
The height of cut is set by moving height of cut pin **N** to the hole designated for the height of cut desired.

To change the height of cut:

1. Lift the deck to the highest position.
2. Move pin **N** to the selected hole.
3. Lower the deck until the lift lever is stopped by the pin.

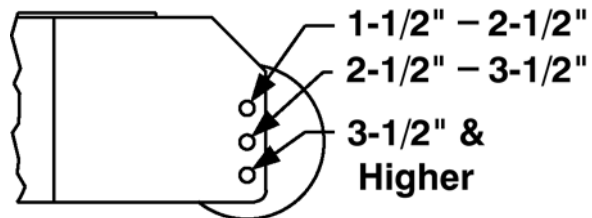
NOTES:

- Height of cut may vary due to the amount of tread on the tires, tire diameter or inflation pressure.
- For best results, adjust the rear deck rollers for the height of cut to be used (see below).



REAR 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

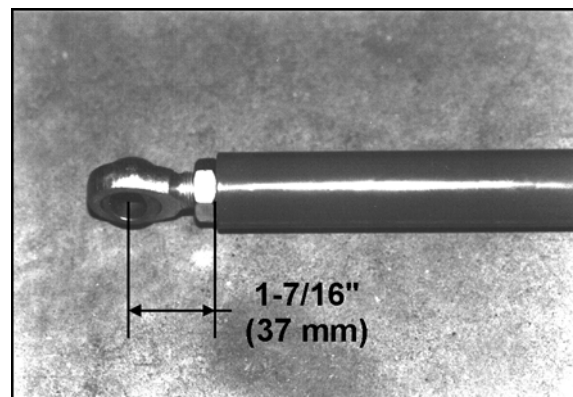
PUSH ARMS

The push arm rod ends must be adjusted evenly to:

- locate the deck perpendicular to the front-to-rear axis of the machine; and
- so the notch at the front of the engine deck clears the push arm bracket on the rear of the cutterdeck when the cutterdeck is raised to the transport position.

Adjust the rod end length to 1-7/16" (37 mm) to start.

If any additional adjustment is required, adjust both rod ends so the same number of threads show.



CONTROL LEVERS

There are two mounting positions for the control levers, upper and lower. The lower position works well for most people. Taller operators may need the upper position.

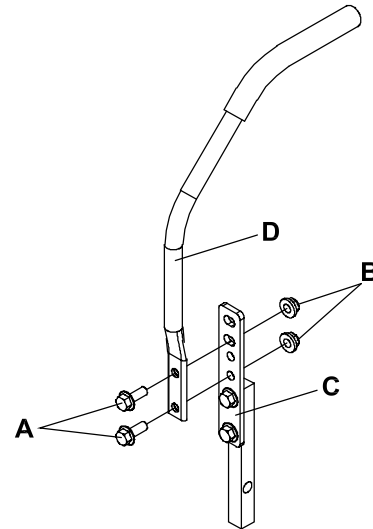
To adjust the height of the control levers:

- Remove bolts **A** and nuts **B**.
- Align holes in control lever **D** with appropriate holes in traction lever bracket **C**.
- Install bolts **A** and nuts **B**.

The upper mounting hole for the control levers is slotted to allow fore-aft adjustment and to allow alignment of the levers.

To adjust or align the control levers:

- Loosen nuts **B**.
- Adjust control lever position.
- Tighten nuts **B**.

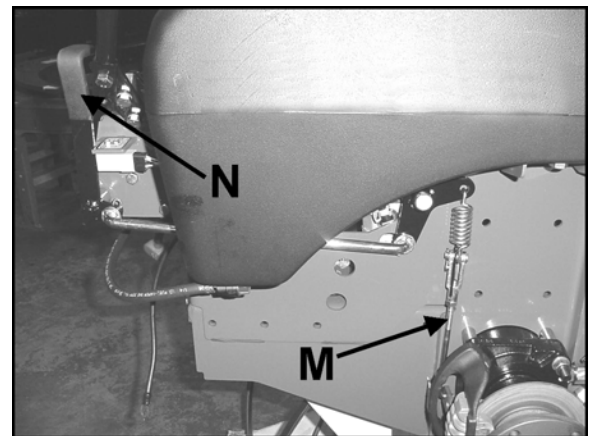


PARKING BRAKE

Start with parking brake **N** in the OFF position.

1. Disconnect one end of rods **M** (at brakes on both sides of the machine).
2. Move the parking brake lever to the ON position.
3. Adjust rods **M** on each brake to be 3/4" short of connecting to the spring when all the slack is taken out of the brake linkage and brake lever **N**.
4. Move the parking brake to the OFF position and reconnect rods **M**.

This adjustment will cause the brake springs to stretch 3/4" when the brake is in the ON position to provide the correct parking brake force without overloading the brake.



Parking brake assembly (tire and deck not shown for clarity - brake in ON position).

BELT TENSION

All belts are tensioned by spring loaded idlers and do not require any adjustment, except the spring loaded 72" cutterdeck belt. Manual tension adjustment of the spring loaded 72" cutterdeck belt is as follows.

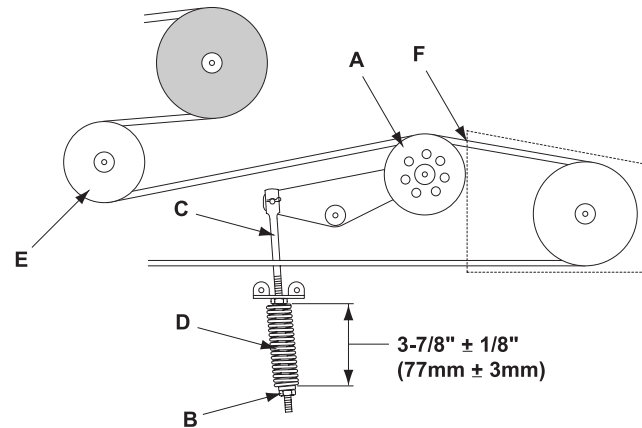
A single belt supplies power to the three blade spindles. Belt tension is maintained by a spring loaded idler pulley. Proper belt tension is maintained with a minimum spring dimension of 3-7/8" (77mm).

Keep this area clean and periodically inspect the cutterdeck belt for abnormal wear and proper tension.

If the cutterdeck belt becomes worn, damaged, or stretched beyond use, replace it.

Before removing the cutterdeck belt, the engine to cutterdeck (pto) belt must be removed from the center pulley.

1. Remove tension on the engine to cutterdeck belt at the engine and remove the belt from the deck pulley.
2. Decrease the tension on the idler pulley **A** by loosening the nut **B** on the idler rod **C**.



Reverse the procedure for installation of the new belt.

The stationary idler **E** is mounted to the deck. If the belt rubs on the belt cover, in the area shown **F** and the tension idler is adjusted to its maximum position, move the stationary idler to an appropriate mounting hole on the deck.

Increase Belt Tension:

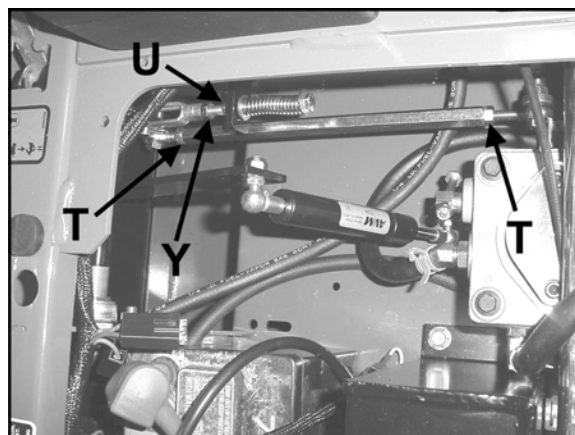
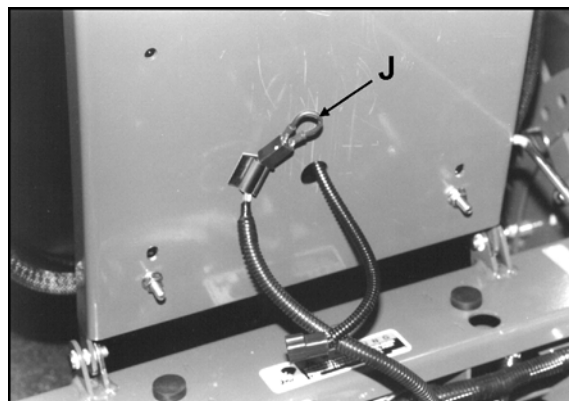
To increase cutterdeck belt tension, turn nut **B** 1/4 turn until desired belt tension is reached.

HYDROSTAT ADJUSTMENTS

A turnbuckle-style hydrostat neutral adjustment is provided.

Neutral:

1. Support the machine with the rear wheels off the ground. Use jackstands or equivalent support. Do not rely only on mechanical or hydraulic jacks.
2. Move the traction levers out into the neutral lock position and raise the seat.
3. Disconnect the seat switch and temporarily connect the two terminals with jumper wire **J** as shown.
4. Start the engine and run at low speed.
5. Loosen jam nuts **T** at both ends of the turnbuckle.
6. Rotate the turnbuckle until the corresponding wheel stops turning. Lock the turnbuckle jam nuts. Run the engine up to high idle to check the adjustment. Readjust if necessary.
7. Repeat steps 5 and 6 for the opposite side.
8. Remove the jumper wire and reconnect the seat switch.



Right side adjustments
(wiring harness and seat rod removed for clarity)

Reverse Return:

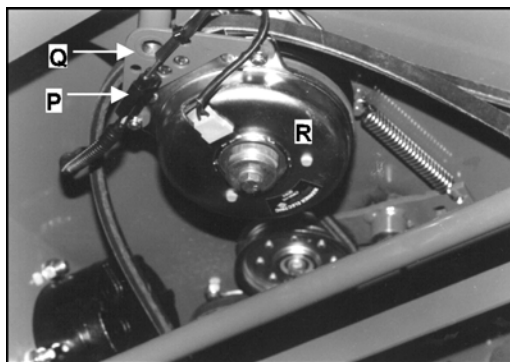
1. Move traction levers out to the neutral lock position and raise the seat.
2. Locknut **U** should be run on the bolt as far as it will go.
3. Loosen jam nut **Y**. Adjust the clevis yoke by turning the head of the bolt until the clevis pin just makes contact with the rear of the slot in the lever it connects with. Tighten jam nut **Y**.
4. Repeat steps 2 and 3 for the opposite side.

NOTE: A slight creep in reverse is acceptable provided the wheel does not turn and the hydrostat pump does not whine when the parking brake is on.

Note: Always use Bob-Cat replacement belts, not general purpose belts. Bob-Cat belts are specially designed for use on commercial mowers and will normally last longer.

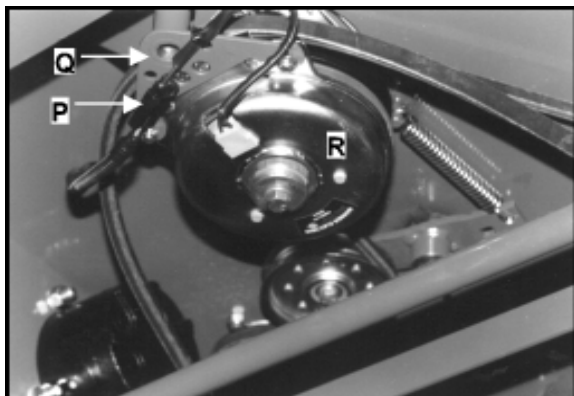
ENGINE-CUTTERDECK (PTO) BELT

1. Set the cutterdeck in the lowest height-of-cut position.
2. Attach a short extension to a 3/8" drive ratchet. Insert the ratchet extension into the square hole in the idler arm and use the ratchet to rotate the idler assembly enough to remove the belt. Remove the belt from the idlers and center cutterdeck pulley. Push belt back under engine deck.
3. Disconnect the electric clutch from the wire harness at plug **P**.
4. Remove the carriage bolts securing torque restraint **Q** to clutch **R**. Remove torque restraint.
5. Remove old belt from the machine.
6. Install a new belt by performing the these steps in reverse order.



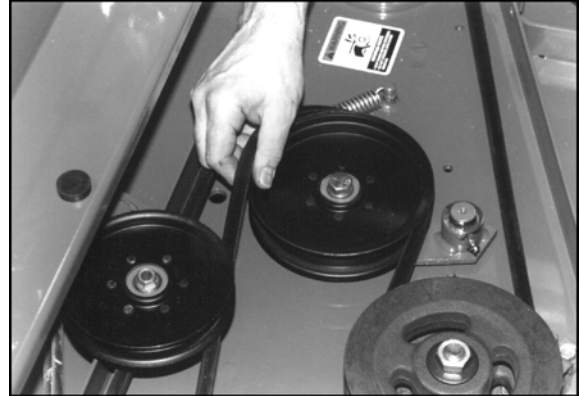
PUMP-DRIVE BELT

1. Remove engine-cutterdeck belt (see engine-cutterdeck belt replacement).
2. Attach an extension to a 3/8" drive ratchet. Insert the ratchet extension in the square hole of the pump drive idler arm. Use the ratchet handle to rotate it enough to remove the pump drive belt.
3. Install a new pump drive belt in the same manner as it was removed.
4. Re-install engine-cutterdeck belt (see engine-cutterdeck belt replacement).



61" CUTTERDECK BELT

1. Set the cutterdeck in the lowest height-of-cut position.
2. Remove the engine-cutterdeck belt from the deck idlers and pulley (see engine-cutterdeck belt replacement). Push it aside but don't remove it from the machine.
3. Run the cutterdeck belt off the idler as shown. Remove it from the deck.
4. Install the new belt by performing these steps in reverse order. Take care to get the new belt on the correct side of the belt guides.
5. Re-install engine-cutterdeck belt (see engine-cutterdeck belt replacement).



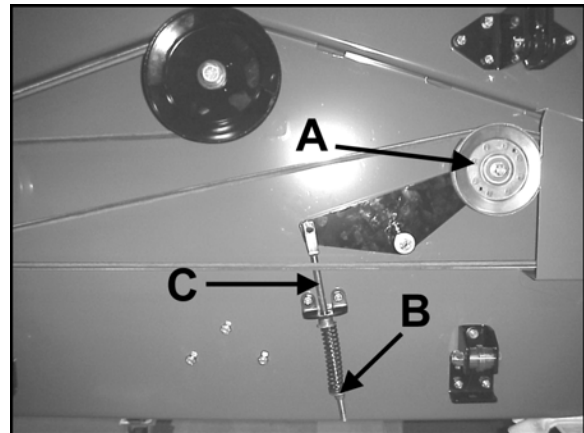
72" CUTTERDECK BELT

Before removing the cutterdeck belt, the engine to cutterdeck (pto) belt must be removed from the center pulley.

1. Decrease the tension on the idler pulley **A** by loosening the nut **B** on the idler rod **C**.
2. Replace the belt on the engine to cutterdeck and replace the tension.

Increase Belt Tension:

To increase cutterdeck belt tension, turn nut **B** 1/4 turn until desired belt tension is reached.



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 or liquid cooled.

DRIVE SYSTEM:

Full hydrostatic pump and wheel motor combination for independently controlled drive wheels.

Pump: Hydrogear BDP-10A with shock valves 10cc variable displacement piston pump.

Motors: Parker/Ross 15 cu.in. displacement MB series. Direct drive 1-1/4" (31.8mm) diameter output shaft.

Turn Radius: 0"

OPERATOR PRESENCE

INTERLOCK SYSTEM:

Start: The PTO (blades) must be off, traction levers in neutral lock, and parking brake on for engine to crank.

Run: Operator must be in seat to take parking brake off, to move traction levers out of the neutral lock position, or to turn the PTO (blades) on or the engine will kill. The parking brake must be off for the traction levers to move out of the neutral lock position.

The operator may leave the seat with the engine running if the parking brake is on, the PTO (blades) is off, and the traction levers are in the neutral lock position. A time delay eliminates annoying engine cutout from operation over rough terrain.

WEIGHT:

1025 lbs (465 kg) with 61" cutterdeck.

1315 lbs (596 kg) with 72" cutterdeck.

CONTROLS:

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

FUEL SYSTEM:

One tank on each side of operator, each with a shutoff (1/4 turn). Total capacity 9.5 gallons (40 liters). Fuel selector/shutoff switch on front panel (1/4 turn). Electronic fuel pump and pressure regulator. Replaceable fuel filters.

MAXIMUM GROUND SPEEDS:

Forward: 8 mph (12.9 km/h)

Reverse: 4 mph (6.4 km/h)

WHEELS & TIRES:

Drive wheels:

942230A, 942231A:	24 X 12.00-12 4-Ply Turf
942238A, 942239A	Tread Tires

Casters: 61" Deck 13x5.00-6 4-ply rib tread tires
72" Deck 13x6.50-6 4-ply rib tread tires

Pressure: 14 p.s.i. (1 kg/cm²)

BRAKING:

Hayes disc type parking brakes. Spring applied for overload protection.

SEAT:

High back, foam padded full suspension seat with standard armrests. Fore and aft adjusters, hinged for easy tilt-up access to pumps and battery. Internally mounted seat switch.

ENGINE		
MODEL NUMBERS	942230A, 942231A	942238A, 942239A
MANUFACTURER	Kohler	Kohler
MODEL	CV26S	CV74S
CYLINDERS	2	2
COOLING	Air	Air
BORE/STROKE	3.27 X 2.64" (83 X 67 mm)	3.27 X 2.64" (83 X 67 mm)
DISPLACEMENT	44 cu. in. (725 cc)	44 cu.in. (725 cc)
COMPRESSION	9:1	9:1
OUTPUT POWER	26 hp (14.2 kw) @ 3800 rpm	28 hp (20.9 kw) @ 3800 rpm
OUTPUT TORQUE	41.8 ft-lb (56.7 j) @2200 rpm	44.8 ft-lb (60.7 J) @ 2200 rpm
LUBRICATION	FULL PRESSURE	FULL PRESSURE
GOVERNOR	Mechanical	Mechanical
AIR CLEANER	Heavy Duty Cyclonic	Heavy Duty cyclonic
IGNITION SYSTEM	Electronic	Electronic
CHARGING SYSTEM	15 amp, regulated	15 amp, regulated
BATTERY	BCI group U1	BCI group U1
FUSES	Main 30 amp ECU 20 amp Fuel Pump 10 amp	Main 30 amp ECU 20 amp Fuel Pump 10 amp
FUEL CONSUMPTION @ MAX LOAD/ SPEED	1.7 gal/hr (6.5 l/hr)	1.8 gal./hr (6.8 l/hr)

FLUID CAPACITIES	QUANTITY	TYPE	FILTER
FUEL	9.5 gal. (40 l)	REGULAR, UNLEADED GASOLINE	REPLACEABLE
ENGINE OIL	2.1 qts (2 l) KOHLER 2.0 qts (1.9 l) KAWASAKI	SAE 10W30	SPIN-ON REPLACEABLE
HYDRAULIC OIL	2.6 qts (2.46 l)	SAE 15W40 MOTOR OIL SAE 20W50 MOTOR OIL 15W50 SYNTHETIC	10 MICRON SPIN-ON REPLACEABLE

CUTTERDECKS		
MODEL NUMBER	942230A, 942238A	942231A, 942239A
TYPE	Side Discharge	Side Discharge
CUTTING WIDTH	61" (155 cm)	71.5" (181 cm)
WIDTH	N/A	N/A
WIDTH (CHUTE UP)	62.0" (157 cm)	72.5" (184 cm)
WIDTH (CHUTE DOWN)	73.0" (185 cm)	84.0" (213 cm)
BLADE	high lift (low lift optional)	high lift (low lift optional)
NUMBER OF CUTTING UNITS	3	3
BLADE LENGTH	18" (46 cm)	21" (53 cm)
BLADE THICKNESS	.205" (5.2 mm)	0.25" (6.35 mm)
TIP SPEED	18235 ft/min 5557 m/min @ 3600 Engine RPM	18441 ft/min 5621 m/min @ 3600 Engine RPM
DAILY PRODUCTION (8 hr @ 6 mph)	Up to 29.5 acres (11.9 ha)	Up to 34.7 acres (14.0 ha)

CONSTRUCTION:

Fabricated and welded or bolted 10-gauge, double-layer steel top with 7-gauge side skirts. Full floating design.

CUTTERDECK DRIVE SYSTEM:

Electric clutch/brake drives belt directly from engine to center spindle of cutterdeck. No twists in drive belt.

SPINDLES:

Top mounted and maintenance free, with 1" shaft in precision machined, aluminum housing

ANTI-SCALP ROLLERS:

61" Cutterdecks - 7 Rollers

72" Cutterdecks - 6 Rollers

CUTTING HEIGHT & PRODUCTION:

Height: Spring assisted lift lever allows easy setting of cut heights from 1-1/2" to 4-1/2" in 1/4" increments. "Set and forget" feature allows height of cut to be set and returned to without searching from operator position.

SPECIFIC TORQUES

BLADE BOLT TORQUE: 70 FT-LBS (95 Nm)

WHEEL HUB NUTS: 225 FT-LBS (237 Nm)

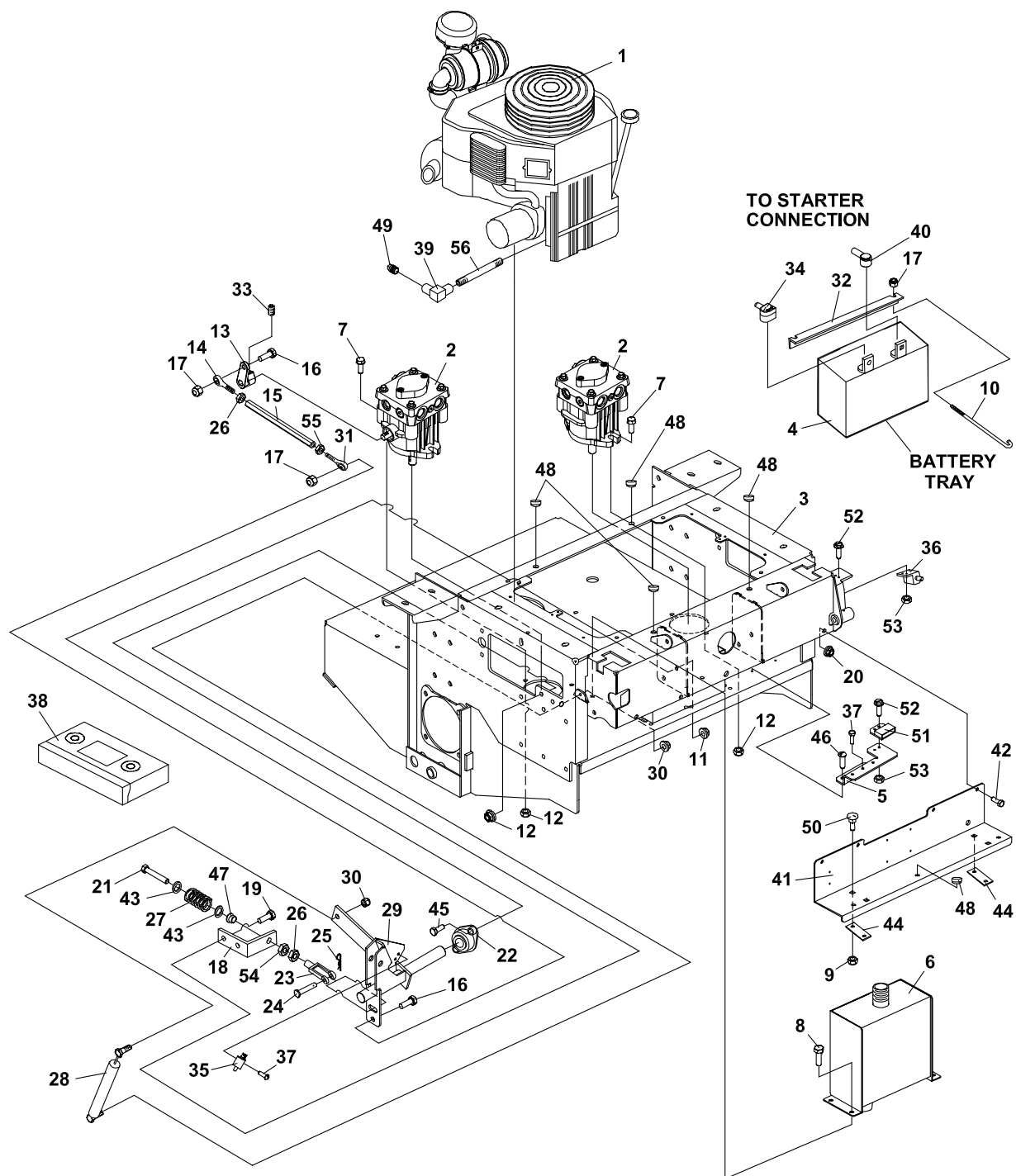
ENGINE CRANKSHAFT BOLT: 50 FT-LBS (68 Nm)

PARTS SECTION

UPPER ENGINE DECK ASSY

ZT 200
EFI
Series

FIGURE 1



ZT 200 EFI Series

UPPER ENGINE DECK ASSY

FIGURE 1

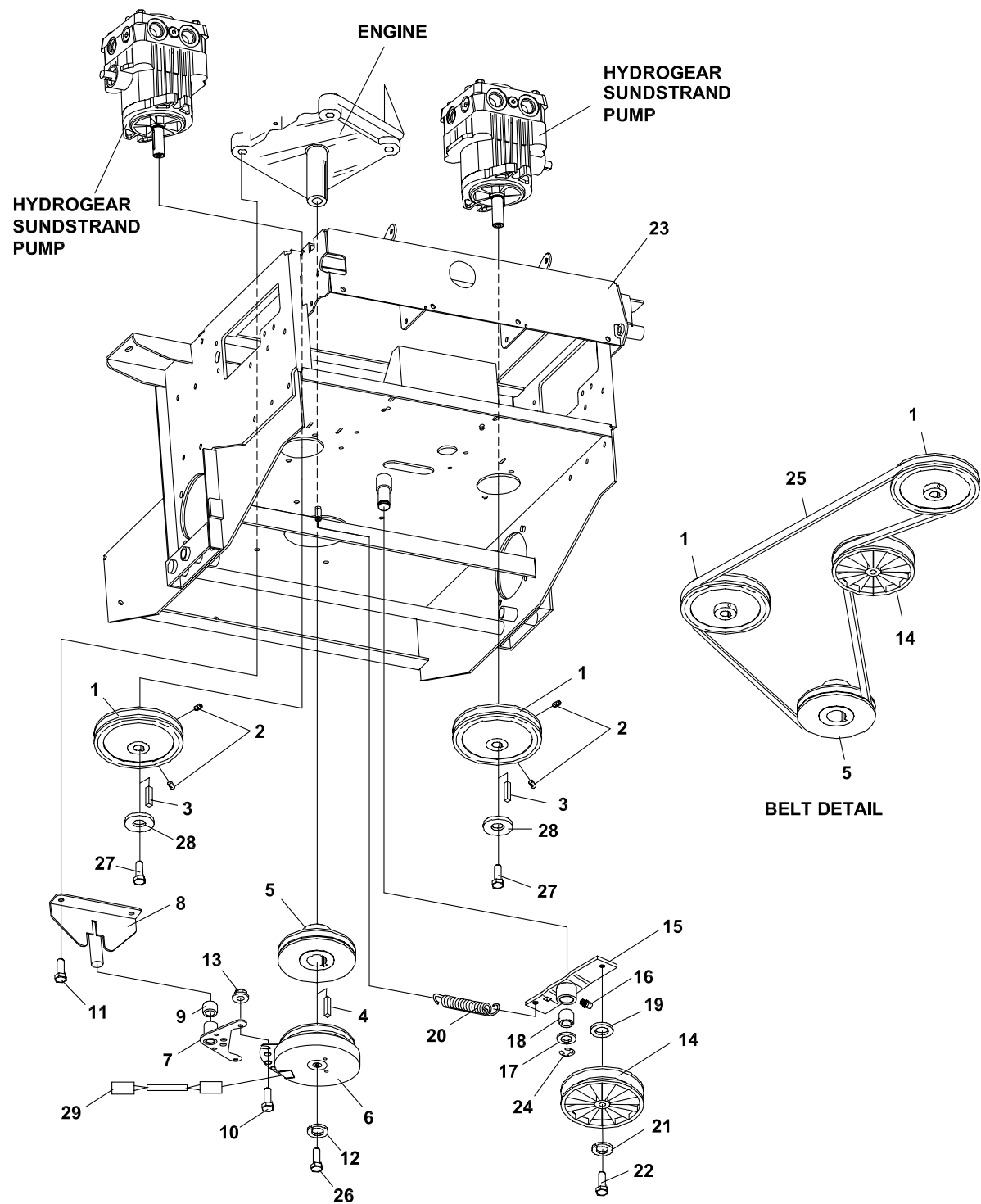
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	4114447	ENGINE-KOHLER CV26S	1	1-31	38369-01	ROD END BALL JOINT RH	2
	4114747	S-FILTER, SECONDARY AIR	1	1-32	2182427.7	HOLDDOWN-BATTERY	1
	4114746	S-FILTER, PRIMARY AIR	1	1-33	64192-06	SETSCR SQHD 5/16-18X3/4	2
	842502	FILTER-OIL	1	1-34	112386	BOOT,BAT TERM POS	1
	2722117	FILTER-LOW PRES FUEL	1	1-35	108208	SWITCH DBL POLE	2
	970250	KIT-EFI FUEL FILTER	1	1-36	2188156	SWITCH-NONO DBL POLE	1
	(INCLUDES QTY (2) 2722126 CLAMPS)			1-37	64197-015	BLT-TDFM 10-32X1/2 TORX	7
	4123375	ENGINE-KOHLER CV745S	1	1-38	2810594	VIDEO-BOBCAT 100/200	1
1-2	4121333	PUMP-HYDRO BDP-10A-4402	2	1-39	12690033-01	ELBOW-3/8 PIPE, 90 DEG	1
	(SEE FIGURE 8 FOR BREAKDOWN)			1-40	2308095	COVER-TERMINAL	1
1-3	2720996	S-ENGINE DECK W/LABS	1	1-41	2722071.7	PLATE-KICK	1
1-4	108055	BATTERY	1	1-42	64263-011	BLT-FLG HD M10-1.5 X 20	4
1-5	2722293.7	BRACKET-RELAY MNTG	1	1-43	64163-55	WASHER .328X.75X14 GA	4
1-6	2186211	S HYD RESERVOIR W/LABS	1	1-44	2188146	STRIP, WEAR	2
1-7	64263-013	BLT-FLG HD M10-1.5 X 30	4	1-45	64123-15	BOLT-3/8-16X3/4 HEX	8
1-8	64197-016	BLT-TDFM 3/8-16X1/2	4	1-46	64152-23	1/4-20X3/8 LG SP SCREW	2
1-9	64268-03	LOCKNUT-3/8-16	4	1-47	38304-02	BRG, FLGD PLASTIC	2
1-10	831861	BOLT,BENT BATT HOOK	2	1-48	810149	BUMPER-RUBBER	7
1-11	64141-4	NUT-WLF 3/8-16	8	1-49	69051-01	PLUG-PIPE 3/8	1
1-12	64237-03	LOCKNUT-NYLON M10-1.5	8	1-50	64018-23	BLT-CRG 3/8-16X3/4	4
1-13	4118430	ARM-PUMP	2	1-51	2188154	MODULE-DELAY	1
1-14	38369-02	ROD END BALL JOINT LH	2	1-52	64152-46	SCREW-SLT HH 10-24X1/2	4
1-15	2188140	TURNBUCKLE	2	1-53	64025-15	NUT-HEX #10-24 KEPS	4
1-16	64205-003	BLT-MET M8-1.25X30	4	1-54	64229-08	LOCKNUT NYLON 5/16-24	2
1-17	64229-02	LOCKNUT-NYLON 5/16-18	6	1-55	64025-33	NUT-HEX 5/16-24 LH	2
1-18	2182405.7	BRKT-REVERSE RETURN	2	1-56	48024-17A	NIPPLE-PIPE 3/8 X 5	1
1-19	A1104057	BOLT-M10-1.50X25	4				
1-20	64246-03	NUT-WHIZ M10-1.50	4				
1-21	64123-205	BLT-HEX 5/16-24X4	2				
1-22	2188145	BEARING-.75IDSELF-ALIGN	4				
1-23	38020N	CLEVIS YOKE, 5/16 PLATE	2				
1-24	64188-02	PIN, CLEVIS 5/16X1	2				
1-25	64168-2	COTTER-HAIRPIN.08X1.19	2				
1-26	64025-03	NUT-HEX 5/16-24	4				
1-27	2188139	SPRING-COMPRESSION	2				
1-28	2721246	DAMPENER	2				
1-29	4112105.7	WLDMT-MOTION CTRL RH	1				
	* 4112104.7	WLDMT-MOTION CTRL LH	1				
1-30	64237-05	LOCKNUT-NYLON M8-1.25	4				

* NOT ILLUSTRATED

LOWER ENGINE DECK ASSY/CLUTCH

FIGURE 2

ZT 200
EFI
Series



TORQUE TO 50 FT/LBS +/-10%

ZT 200 EFI Series

LOWER ENGINE DECK ASSY/CLUTCH

FIGURE 2

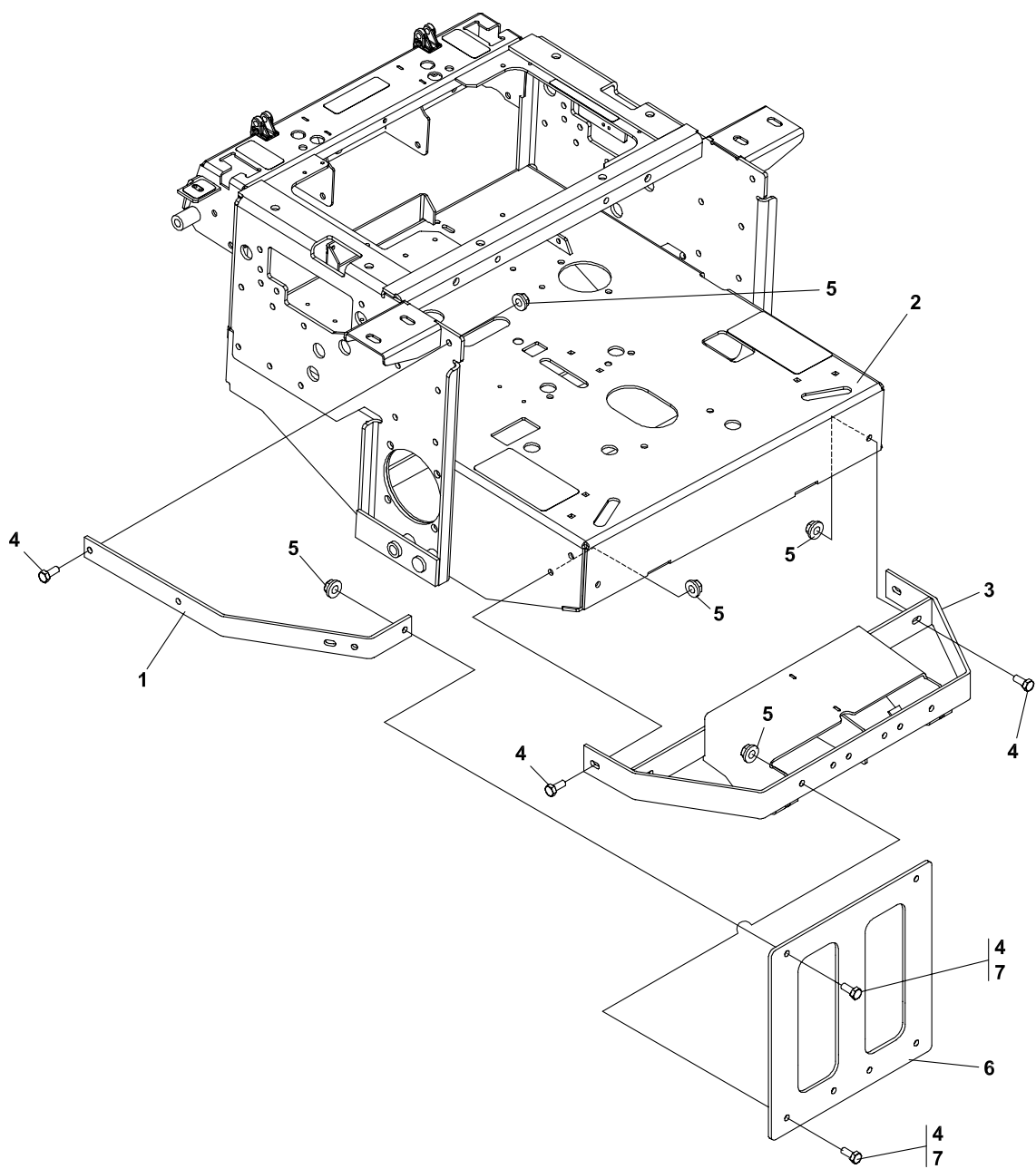
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	2722382	PULLEY-PUMP	2				
2-2	64044-1	SCREW-SET 1/4-20X1/4	4				
2-3	64238-03	KEY-MET 5MM SQX28MM	2				
2-4	64164-10	1/4X1/4X1-1/4 MACH KEY	1				
2-5	4121339	PULLEY-4.25 ENGINE	1				
2-6	2721337	CLUTCH-ELECTRIC (INCLUDES ITEMS 29 & 30)	1				
2-7	2721338.7	WLDMT-CLUTCH STOP	1				
2-8	2186147.7	WLDMT-CLUTCH BRACKET	1				
2-9	38304-03	BEARING-FLANGED PLSTC	1				
2-10	64205-001	BLT-MET M8-1.25X20	2				
2-11	64197-005	BLT-TDFM 3/8-16X1-1/4	4				
2-12	64006-06	LCKWSHER-HELICAL 7/16	1				
2-13	64265-04	NUT-FL NYL LOCK M8-1.25	2				
2-14	2308000	PULLEY-IDLER 4.00 EOD	1				
2-15	2306082.7	WLDMT-IDLER ARM	1				
2-16	85010N	ZERK, 1/4-28 STR SLFTHRD	1				
2-17	64163-65	WASHER-.890X1.375X18GA	1				
2-18	65103A	BEARING BUSHING	1				
2-19	33148-01	SPACER-0.379X0.750X0.25	1				
2-20	38219	SPRING-TENSION	1				
2-21	64006-03	WSHR, 3/8 HELICAL LOCK	1				
2-22	64123-21	BLT-HEX 3/8-24X1-1/4	1				
2-23	2720996	S-ENGINE DECK W/LABS	1				
2-24	64221-04	E-RING.875	1				
2-25	2188128	BELT-TRACTION DRIVE	1				
2-26	64123-155	BLT-HEX 7/16-20X3	1				
2-27	64205-013	BLT-MET M6-1X12	2				
2-28	64209-09	WASHER-CONICAL SPRING	2				
2-29	4135344	HARNESS DIODE JUMPER	1				
2-30	*4121560	KIT-BRAKE POLE RPLCMNT	1				

* NOT ILLUSTRATED

BUMPER

FIGURE 3

ZT 200
EFI
Series



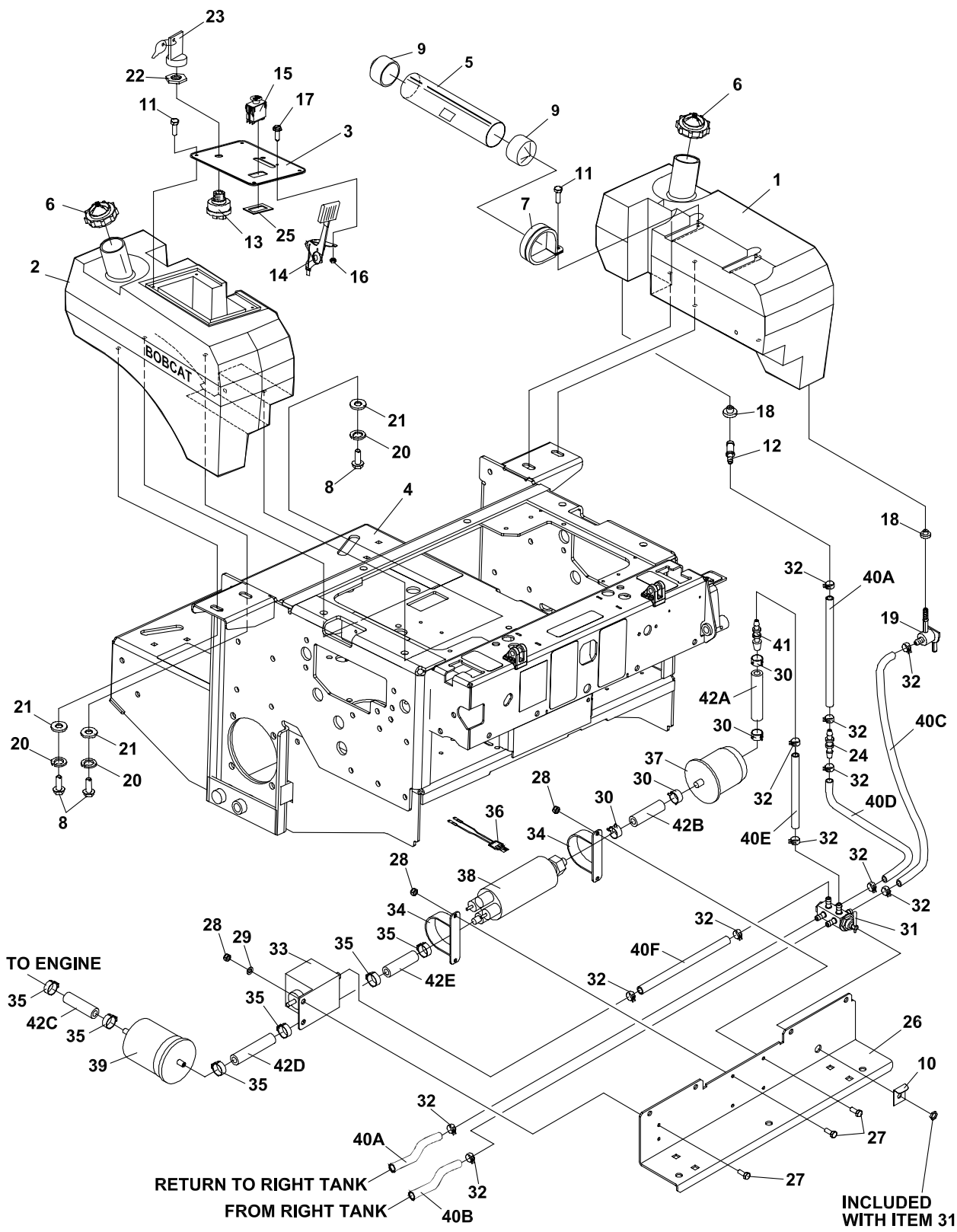
ZT 200 EFI Series

BUMPER

FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	2722296.7	ARM-BUMPER	2				
3-2	2720996	S ENG DECK W/LABS	1				
3-3	2721324.7	WLDMT-BUMPER	1				
3-4	64263-013	BLT-FLG HD M10-1.5 X 30 (QTY 12 USED ON 61") (QTY 6 USED ON 72")					
3-5	64265-05	NUT-FL NYL LOCK M10-1.5	12				
3-6	2721932-7	BRACE-VERTICAL (QTY 1 USED ON 61") (QTY 11 USED ON 72")					
3-7	64205-012	S BLT-MET M10-1.50X90 (USED ON 72" DECKS ONLY)	6				

FIGURE 4



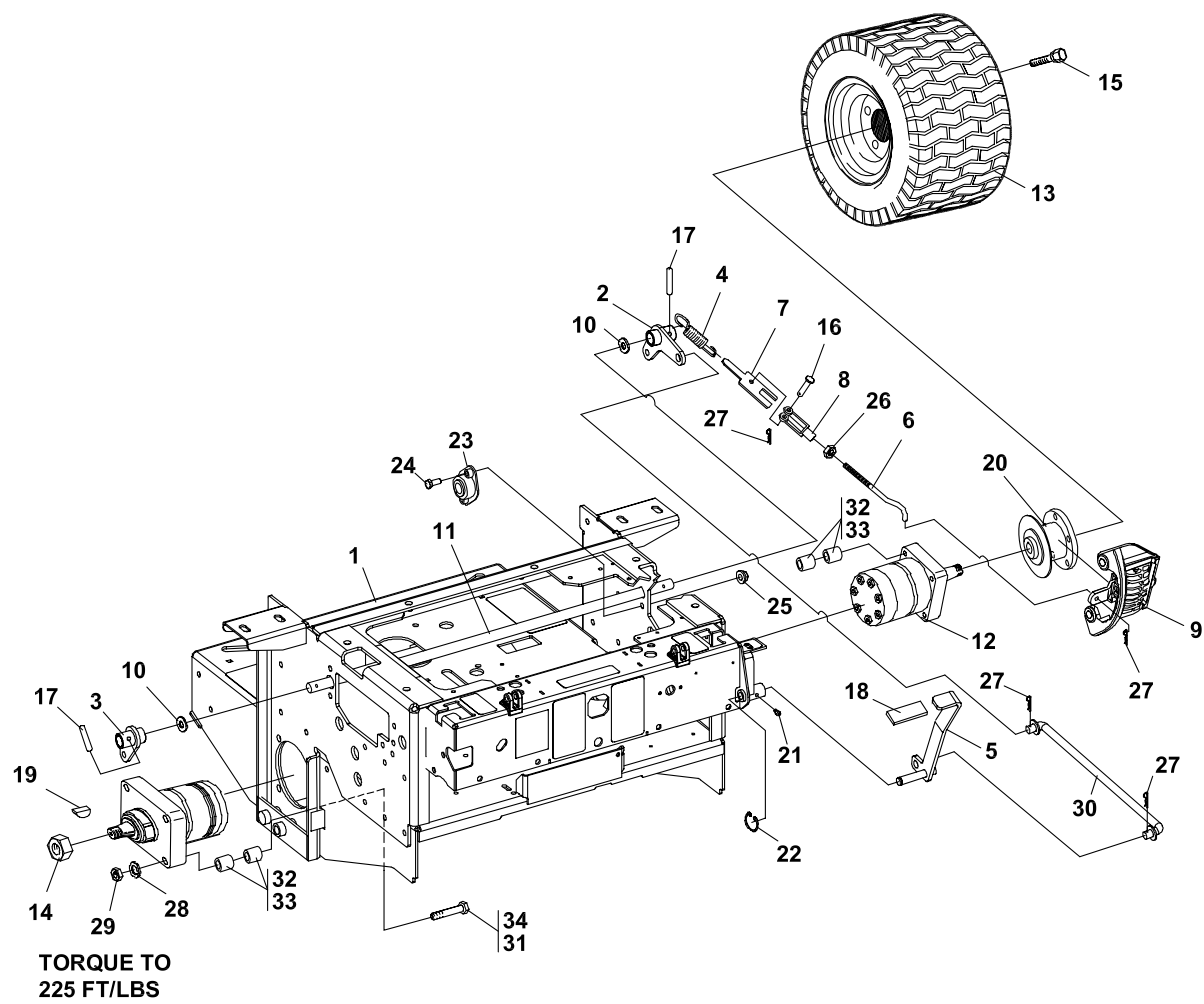
ZT 200 EFI Series

FUEL TANKS/CONTROL PANEL

FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	2722245	S-LH FUEL TANK (INCLUDES ITEMS 12,18 & 19)	1	4-37	2722117	FILTER-FUEL	1
4-2	2722246	S-RH FUEL TANK (INCLUDES ITEMS 12,18 & 19)	1	4-38		FUEL PUMP (AVAILABLE THRU KOHLER)	1
4-3	2186214	S CONTROL PANEL W/LAB	1	4-39	970250	KIT-EFI FUEL FILTER (INCLUDES QTY 2 OF ITEM 35)	1
4-4	2720996	S ENG DECK W/LABS	1			(48016-17 IS A SERVICEABLE LENGTH OF 68")	
4-5	2306144	S DOC TUBE W/LABS	1	4-40A	48016-17	HOSE-1/4IDX1/2ODX36"	2
4-6	4130320	CAP-FUEL TANK	2	4-40B	48016-17	HOSE-1/4IDX1/2ODX28"	1
4-7	38542	CLAMP-DOC TUBE	2	4-40C	48016-17	HOSE-1/4IDX1/2ODX22"	1
4-8	64205-007	BLT-MET M10-1.5X20	8	4-40D	48016-17	HOSE-1/4IDX1/2ODX13"	1
4-9	38061A	SPINDLE-SHIELD	2	4-40E	48016-17	HOSE-1/4IDX1/2ODX6"	1
4-10	4115065.7	BRACKET-FUEL VALVE	1	4-40F	48016-17	HOSE-1/4IDX1/2ODX18"	1
4-11	64263-001	BLT-FLG HD M6-1.0X12	6	4-41	4113602	REDUCER-5/16 TO 1/4	1
4-12	2722090	FTG-FUEL 1/4 STRAIGHT	2			(2722127-01 IS A SERVICEABLE LENGTH OF 60")	
4-13	128010	KEY-SWITCH	1	4-42A	2722127-01	HOSE-5/16 FUEL EFI 5.5"	1
4-14	118020-09	CONTROL THROTTLE	1	4-42B	2722127-01	HOSE-5/16 FUEL EFI 3.25"	1
4-15	2721505	SWITCH-PTO	1	4-42C	2722127-01	HOSE-5/16 FUEL EFI 11"	1
4-16	64025-15	NUT-HEX #10-24 KEPS	2	4-42D	2722127-01	HOSE-5/16 FUEL EFI 34"	1
4-17	64152-46	SCR.-SLT HH #10-24X1/2	2	4-42E	2722127-01	HOSE-5/16 FUEL EFI 5.5"	1
4-18	4132325	GROMMET-FUEL TANK	4				
4-19	38540	S FUEL SHUTOFF VALVE	2				
4-20	800488	LOCKWASHER M10	8				
4-21	64251-004	WASHER-M10	8				
4-22	128010-01	S-KEY SWITCH NYLON NUT	1				
4-23	128010-03	S-COVERED KEY	1				
4-24	4113704	COUPLER-1/4" NYL HOSE	1				
4-25	2188178	SWITCH-RETAINER	1				
4-26	2722071.7	PLATE-KICK	1				
4-27	64206-13	BLT-MET M5X.8X12	6				
4-28	64237-01	LOCKNUT-NYLON M5X.8	6				
4-29	64251-001	WASHER-M5	2				
4-30	88042-02	CLAMP	4				
4-31	2721911	VALVE-DUAL SECT FUEL	1				
4-32	88042N	HOSE CLAMP	16				
4-33		REGULATOR (AVAILABLE THRU KOHLER)	1				
4-34		CLAMP (AVAILABLE THRU KOHLER)	2				
4-35	2722126	HOSE CLAMP	6				
4-36	2722078	HARNESS-FUEL PUMP	1				

FIGURE 5



ZT 200 EFI Series

BRAKES/REAR WHEEL

FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	2720999	S ENGINE DECK WLABS	1	5-25	64141-4	NUT-WLF 3/8-16	4
5-2	4113527.7	WLDMT-BRAKE ARM LH	1	5-26	64025-03	NUT-HEX 5/16-24	2
5-3	4113529.7	WLDMT-BRAKE ARM RH	1	5-27	64168-2	HAIRPIN COTTER	6
5-4	128102	SPRING-EXTENSION	2	5-28	64006-05	LCKWHSR-HELICAL 1/2	8
5-5	4113518.7	WLDMT-BRAKE LEVER	1	5-29	64207-07	NUT-HEX M12-1.75	8
5-6	4115019	ROD-BRAKE CONTROL	2	5-30	4113530	ROD, BRAKE	1
		(USED ON 72" ONLY)					
	33213	ROD-SPD CTRL UPPER	2			(ITEMS 31 & 32 USED ON 72" DECKS ONLY)	
		(USED ON 61" ONLY)		5-31	64223-10	SCH CAPSCR M12-1.75X15	8
5-7	2182387.7	GUIDE-SPRING	2	5-32	2183063-05	SPACER	16
5-8	38020N	CLEVIS-YOKE PLATE	2			(ITEMS 33 & 34 USED ON 61" DECKS ONLY)	
5-9	2188147	ASSY BRAKE CW (LH)	1	5-33	2183063-01	SPACER	16
	* 2188148	ASSY BRAKE CCW (RH)	1	5-34	450767	CAPSCREW 12-1.75X110	8
5-10	64163-06	WSHR-.768-.756 IDX14 GA A/R					
5-11	2183056	SHAFT-BRAKE	1				
5-12	2188126-01	MOTOR-ASSY HYDRAULIC	2				
		(INCLUDES ITEMS 14 & 19)					
5-13	2722001-01	RIM ASSY W/VALVE	2				
	1985058-02	TIRE 24x12.0x12	2				
5-14	64025-31	NUT1-20 UNSLOTTED TRW	2				
5-15	64220-02	BOLT-WHEEL 7/16-20	10				
5-16	64188-02	PIN-CLEVIS 5/16X1	2				
5-17	64061-25	ROLL-PIN 1/4X1 1/4	2				
5-18	2188155	GRIP, 1/4X1X4 1/2	1				
5-19	64164-08	S-KEY / WHEEL MOTOR	2				
5-20	2188149	HUB-WHL & DISC	2				
5-21	85010N	STRAIGHT ZERK FITTING	1				
5-22	64144-34	SNAP RING .50	1				
5-23	2188145	BRG-.75ID BRNZ SLF ALIGN	2				
5-24	64123-15	BLT-HEX 3/8-16X3/4	4				

SERVICE PARTS FOR 2188147 AND 2188148			QTY/ASSY
2188147-01	BRACKET-MACHINED		1
2188147-02	PAD-CAM SIDE		1
2188147-03	PAD-SUPPORT		1
2188147-04	SPRING-LEVER RETAINER		1
2188147-05	HOUSING		1
2188147-06	CAM LH		1
2188147-07	PIVOT PIN		1
2188147-08	PAD-CARRIER SIDE		1
2188147-09	PAD-SUPPORT		1
2188148-01	*CAM RH		1

* NOT ILLUSTRATED

BRAKE ASSEMBLY BREAKDOWN

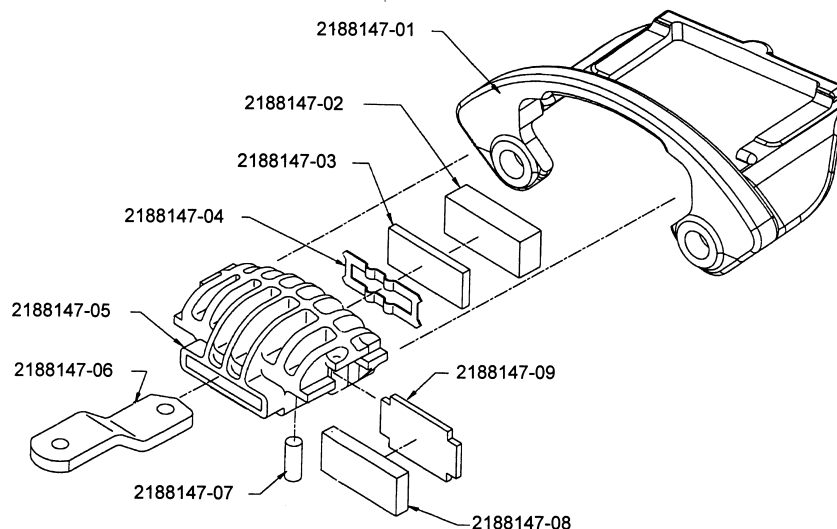
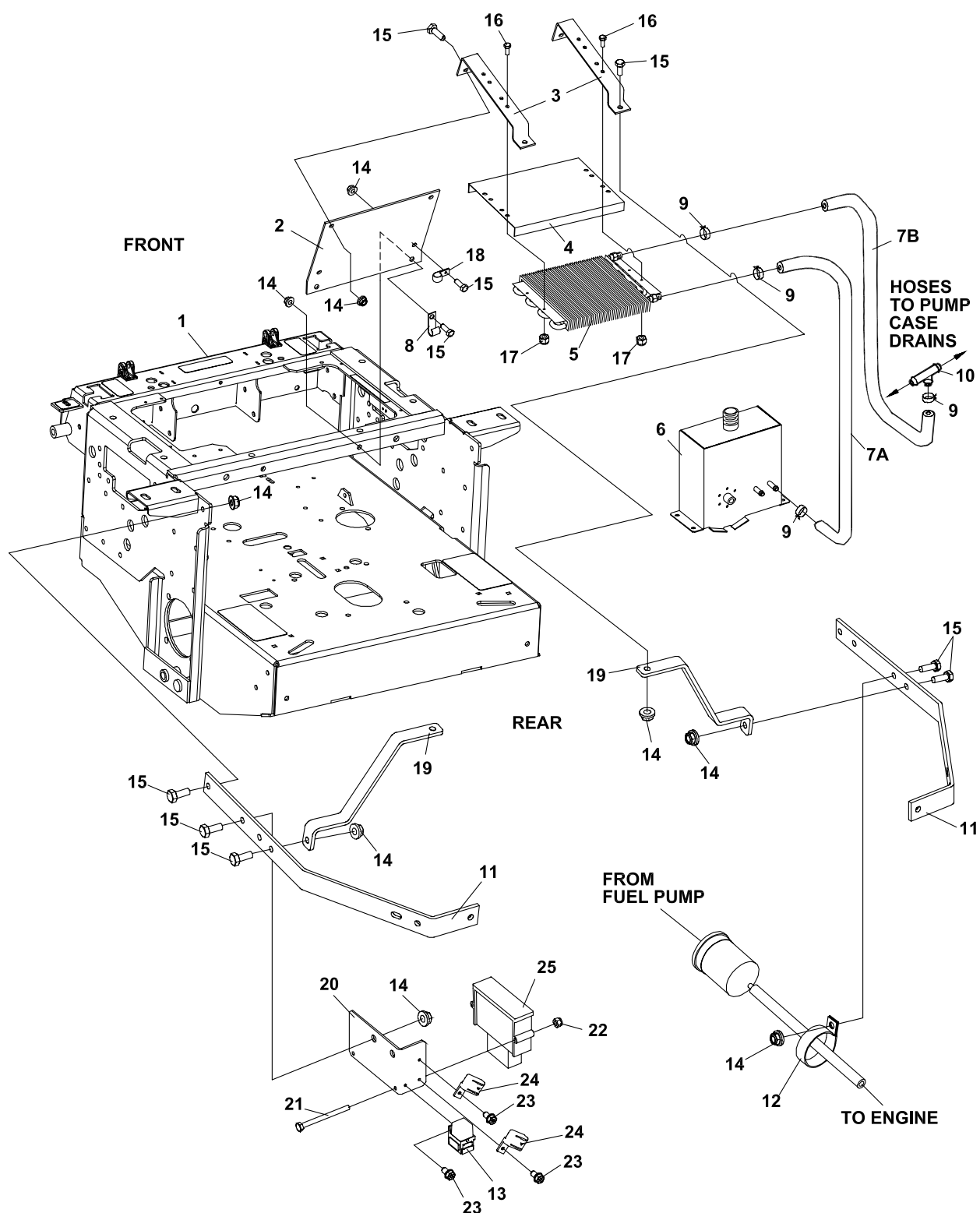


FIGURE 6



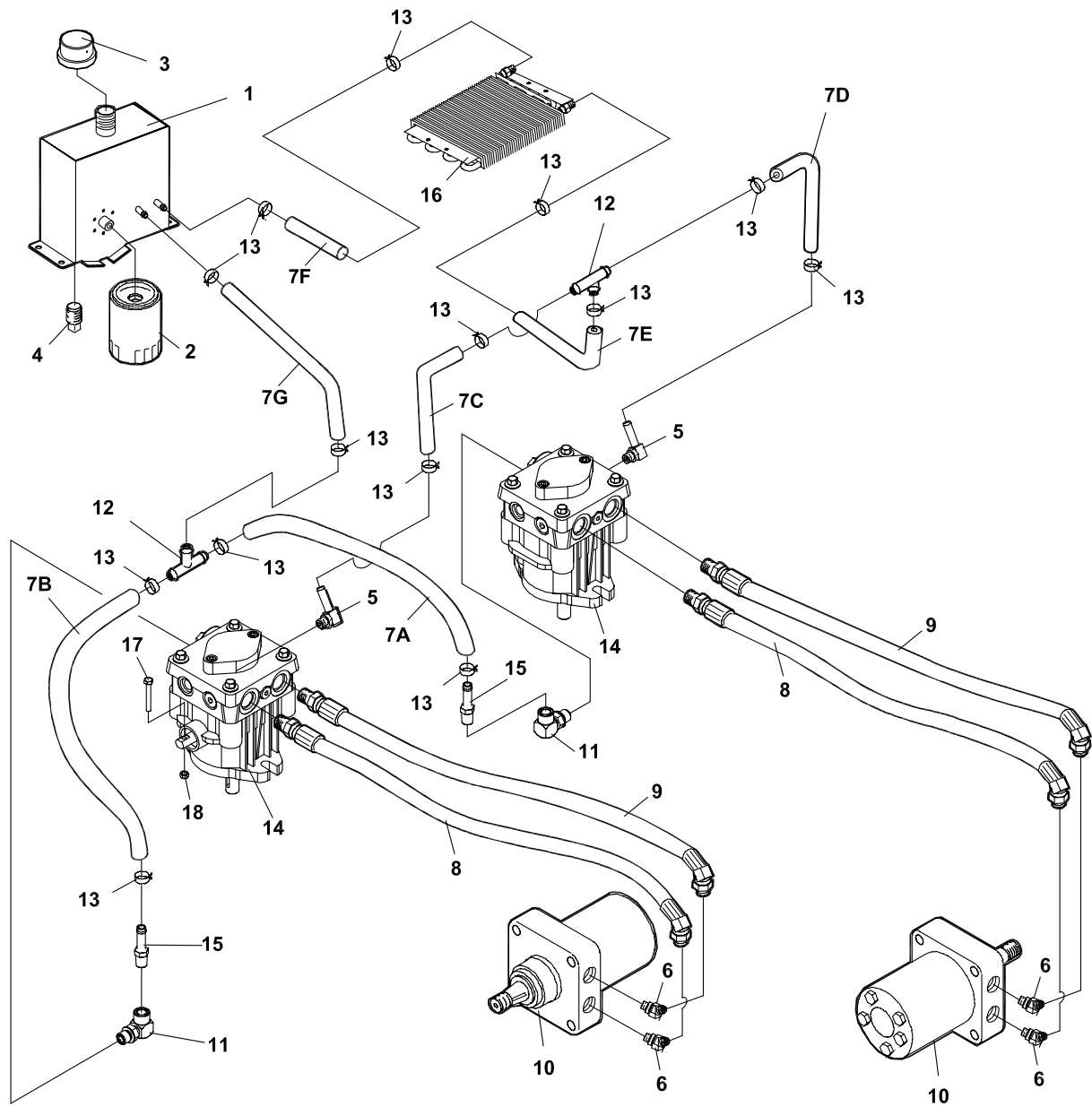
ZT 200 EFI Series

OIL COOLER/ECU

FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1	2720996	S ENGINE DECK W/LABS	1				
6-2	2722339.7	BRKT-FRONT COOLER	1				
6-3	2722338.7	BRKT-OIL COOLER	2				
6-4	2720891.7	SCREEN-OIL COOLER	1				
6-5	2188173	COOLER-OIL	1				
6-6	2186211	S HYD RSRVR W/LABS	1				
(69053-05 IS A SERVICEABLE LENGTH OF 55")							
6-7A	69053-05	3/8 HIGH TEMP HOSE 26"	1				
6-7B	69053-05	3/8 HIGH TEMP HOSE 22"	1				
6-8	48412-01	CLIP-CBL3/4JX10.32HOLE	2				
6-9	88042-04	CLAMP-HOSE 5/8	4				
6-10	58026-01	3 WAY CONNECTOR 3/8	1				
6-11	2722296.7	ARM-BUMPER	2				
6-12	2722337	CLAMP-FUEL FILTER EFI	1				
6-13	128037	RELAY	1				
6-14	64265-05	NUT-FL NYLN LCK M10-1.5	14				
6-15	64263-013	BLT-FLG HD M10-1.5 X 30	14				
6-16	64263-002	BLT-FLG HD M6-1.0 X 16	4				
6-17	64237-02	LOCKNUT-NYLON M6-1.00	4				
6-18	48228-2A	CABLE-CLIP 3/4 W/INSTN	1				
6-19	2721928.7	BRKT-COOLER	2				
6-20	2722081.7	BRKT-ECU	1				
6-21	64205-059	BLT-MET M4-0.7X50	2				
6-22	64237-08	LOCKNUT-NYLON M4-0.7	2				
6-23	64197-015	BLT-TDFM 10-32X1/2	3				
(ITEMS 24 & 25 INCLUDED WITH ENGINE)							
6-24		FUSES	2				
6-25		ECU	1				

FIGURE 7



ZT 200 EFI Series

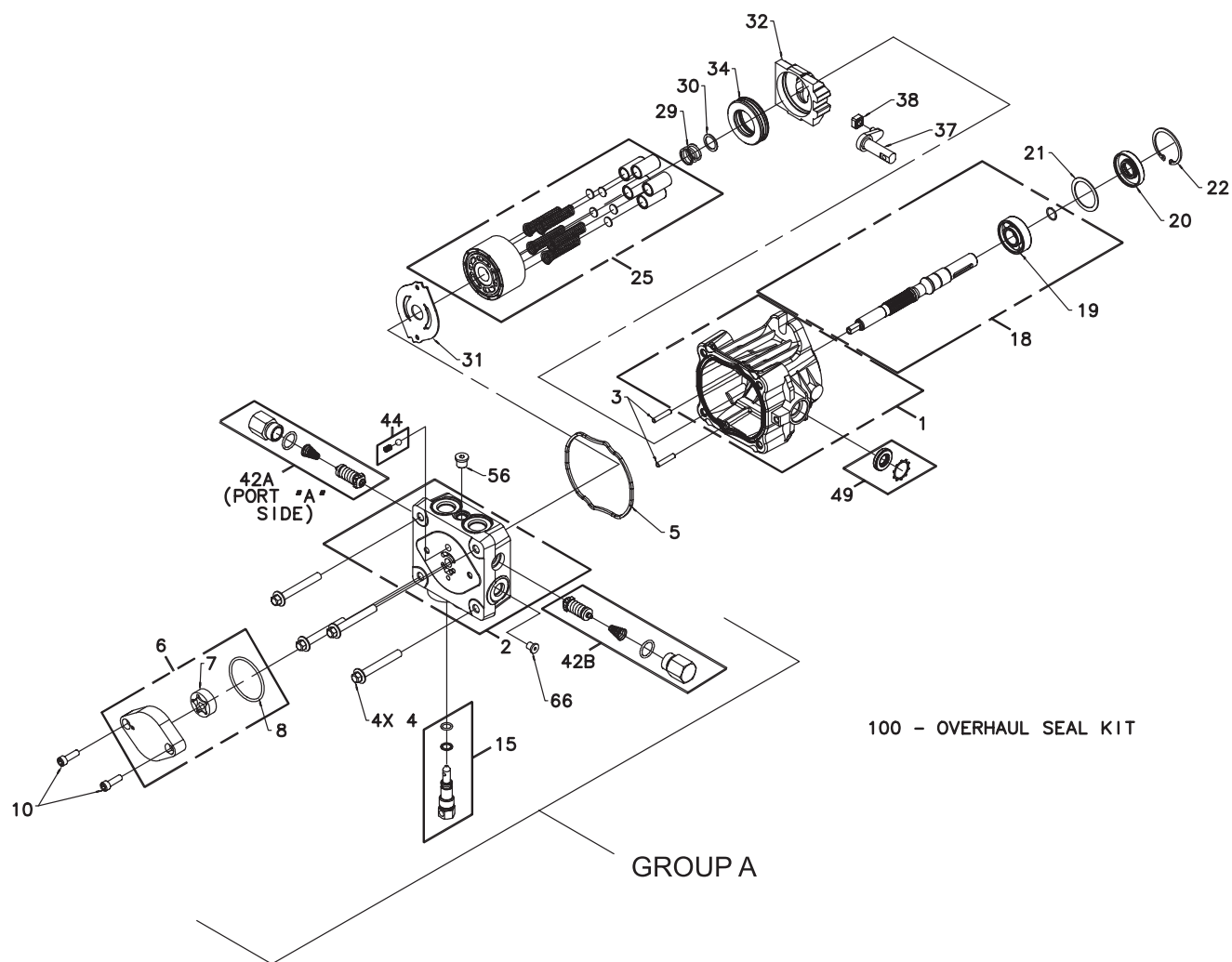
HYDRAULICS

FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY
7-1	2186211	S HYD RESERVOIR W/LAB	1
7-2	2720396	FILTER 25 MICRON	1
7-3	69216.7	CAP-RESERVOIR	1
7-4	108029	PLUG-MAGNETIC	1
7-5	158058-04	FTG-90 BRB 9/16-18X.38	2
7-6	108205-03	ELBOW-MALE 45 37-ORB	4
(69053-05 IS A SERVICEABLE LENGTH OF 55")			
7-7A	69053-05	3/8 HIGH TEMP HSE 18"	1
7-7B	69053-05	3/8 HIGH TEMP HSE 15"	1
7-7C	69053-05	3/8 HIGH TEMP HSE 19"	1
7-7D	69053-05	3/8 HIGH TEMP HSE 12"	1
7-7E	69053-05	3/8 HIGH TEMP HSE 22"	1
7-7F	69053-05	3/8 HIGH TEMP HSE 26"	1
7-7G	69053-05	3/8 HIGH TEMP HSE 5"	1
7-8	2188157-01	HOSE HYD ORB 37-22.38	2
7-9	2188157-02	HOSE HYD ORB 37-25.00	2
7-10	2188126-01	MOTOR-ASSY HYD	2
7-11	2690030-01	FTG 9/16-18 ORB X 3/8	2
7-12	58026-01	3 WAY CONNECTOR 3/8	2
7-13	88042-04	CLAMP-HOSE 5/8	14
7-14	4121333	PUMP-HYDRO BDP-10A-440	2
7-15	48386-04	FITTING-3/8 BARB 1/4	2
7-16	2188173	OIL COOLER	1
7-17	64123-60	BOLT, 1/4-20X2 HEX	2
7-18	64229-01	LOCKNUT-NYL 1/4-20	2

SAE PORT 'O' RING		
PART NUMBER	THREAD SIZE	AS-568#
158061-10	9/16-18	-906
158061-11	3/4-16	-908
158061-12	7/8-14	-910
158061-13	1-1/16-12	-912
158061-14	1-5/16-12	-916
158061-16	1-5/8-12	-920
158061-03	1-7/8-12	-924

FIGURE 8



ZT 200 EFI Series

HYDROGEAR PUMP

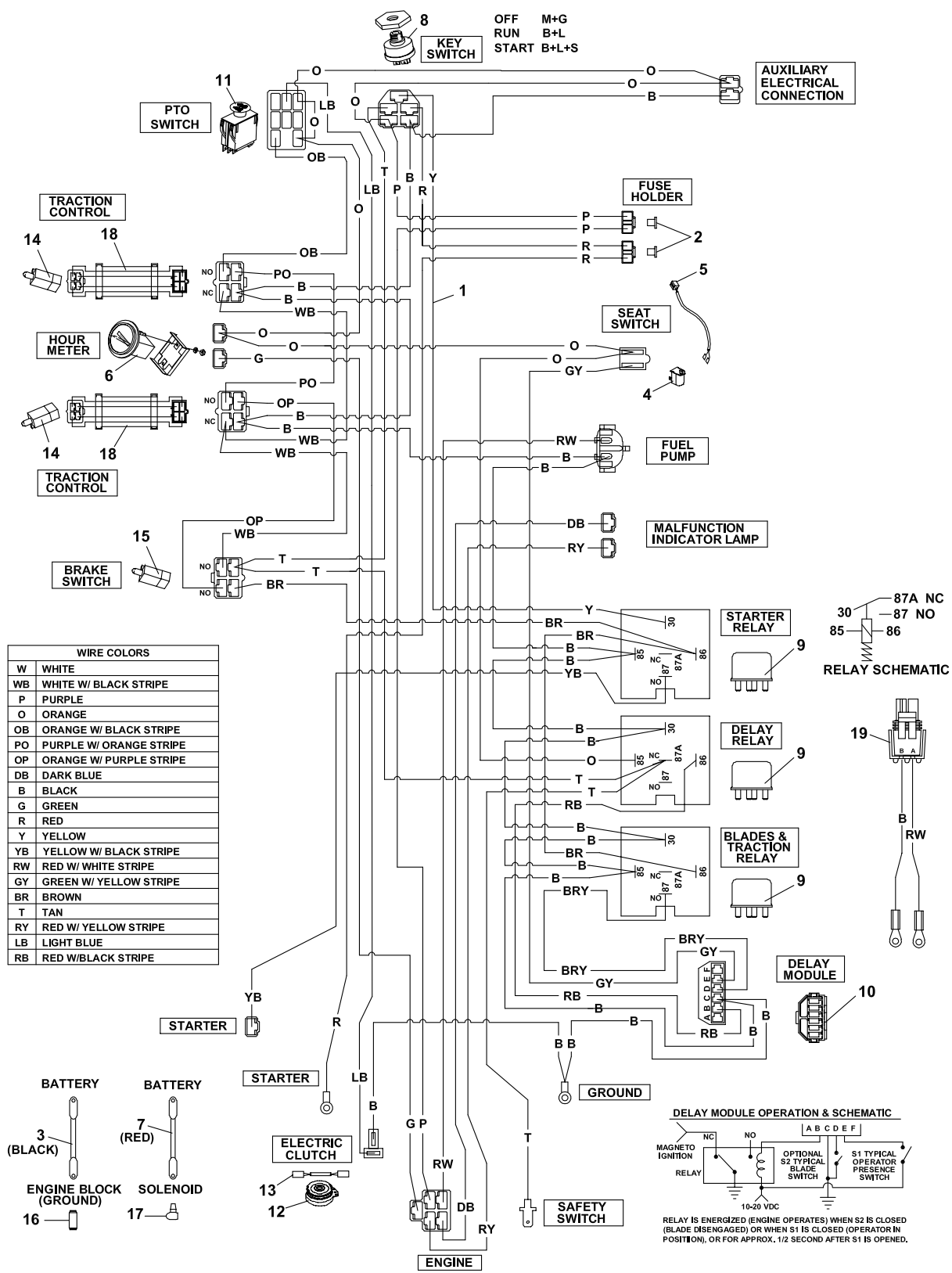
FIGURE 8

ITEM	HYDROGEAR PART NO.	TEXTRON PART NO.	DESCRIPTION	QTY
8-1	70516	----	HOUSING KIT	1
8-2	70517	----	END CAP KIT	1
8-3	50641	----	STRAIGHT HEADLESS PIN	2
8-4	50969	2721615-01	FLANGE BOLT M8-1.25 X 60	4
8-5	51232	2721615-02	HOUSING O-RING	1
8-6	2513027	38345-06	CHARGE PUMP KIT	1
8-7	50273	38345-07	STD GEROTOR ASSEMBLY	1
8-8	9004101-1340	38345-08	O-RING	1
8-10	50095	38345-10	SOCKET SCREW M6-1.0 x 20	2
8-15	2513030	----	BYPASS VALVE KIT (BLANK)	1
8-18	70521	2721615-07	PUMP SHAFT KIT	1
8-19	50315	----	BALL BEARING 17 X 40 X 12	1
8-20	51161	----	LIP SEAL 17 x 40 x 12	1
8-21	50951	----	SPACER	1
8-22	50329	----	RETAINING RING	1
8-25	70331	38345-12	CYLINDER BLOCK KIT	1
8-29	2003014	----	BLOCK SPRING	1
8-30	2003017	----	BLOCK THRUST WASHER	1
8-31	51246	2721615-09	VALVE PLATE	1
8-32	2003087	188059-11	SWASH PLATE	1
8-34	50551	2721615-11	BALL THRUST BEARING	1
8-37	2003005	188059-15	ARM-TRUNION	1
8-38	2000015	2721615-13	SLOT GUIDE	1
8-42A	70743	4121354	SHOCK VALVE KIT (.031")	1
8-42B	70741	4121355	SHOCK VALVE KIT (BLANK)	1
8-44	70403	2721615-16	CHARGE RELIEF VALVE KIT	1
8-49	2513043	2721615-17	TRUNNION SEAL/RETAIN KIT	1
8-56	9005110-4400	----	STRAIGHT THREAD PLUG	1
8-66	9005110-3100	----	5/16 SAE PLUG	1
8-100	70525	2721615-18	OVERHAUL SEAL KIT	1

KOHLER WIRE HARNESS

ZT 200 EFI Series

FIGURE 9



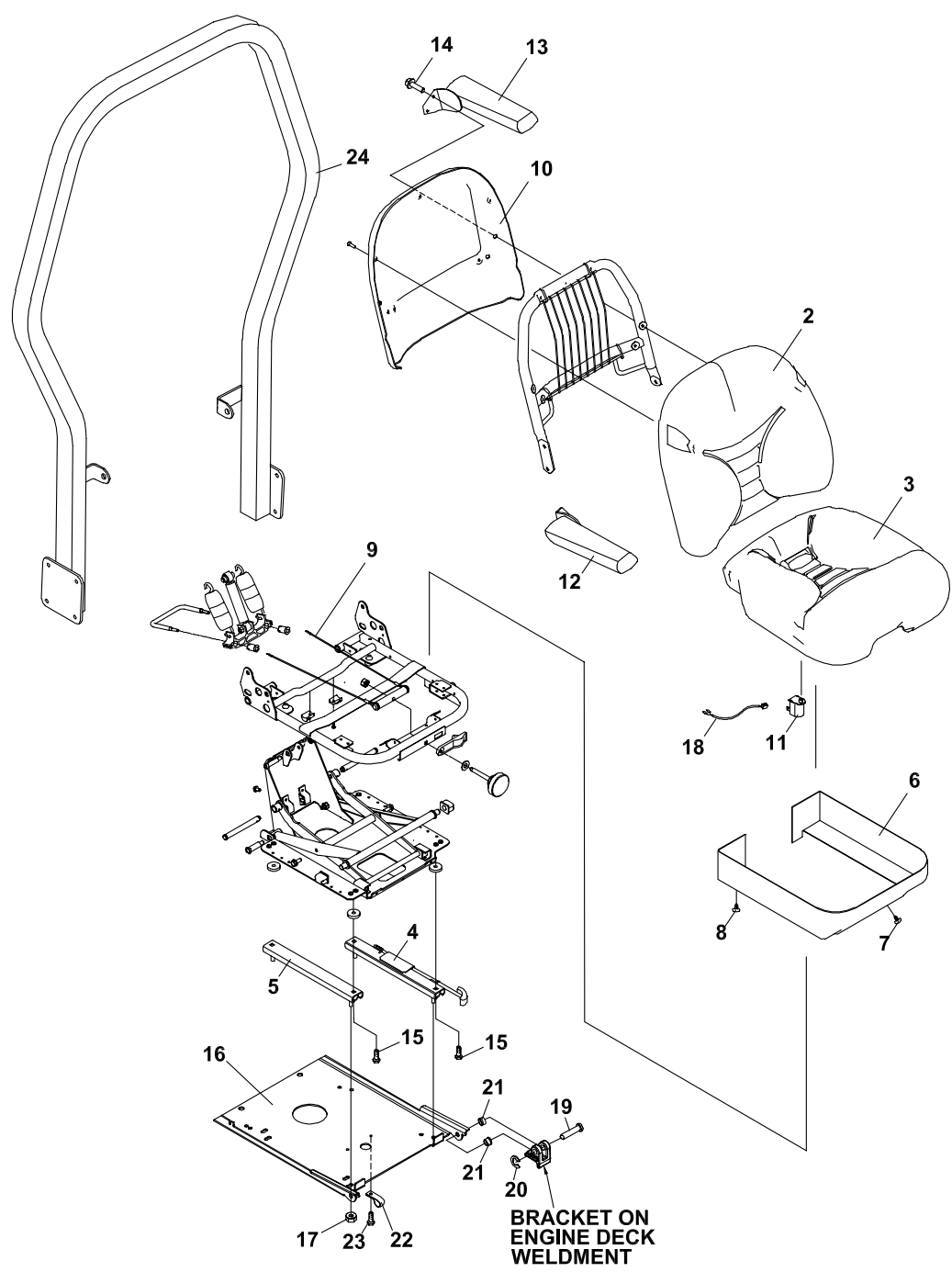
ZT 200 EFI Series

KOHLER WIRE HARNESS

FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
9-1	2722316	HARNESS-WIRING MAIN EFI1					
9-2	148082-20	FUSE-20 AMP	2				
9-3	108061-13	CABLE-BATTERY 36 BLACK	1				
9-4	4124009	SWITCH-SEAT, NO	1				
9-5	158136	WIRE-SEAT SWITCH	1				
9-6	48030N	HOUR METER ASSEMBLY	1				
9-7	2722227-02	CABLE-BATT W/CONDUIT (INCLUDES ITEMS 16 & 17)	1				
9-8	128010	KEY-SWITCH	1				
9-9	2722325	RELAY-40AMP SEALED	3				
9-10	2721505	SWITCH-PTO	1				
9-11	2188153	SWITCH, CLUTCH	1				
9-12	2721337	CLUTCH-ELECTRIC (INCLUDES 2720949 WIRE ASSY)	1				
9-13	4135344	HARNESS DIODE JUMPER	1				
9-14	108208	SWITCH DBL POLE	2				
9-15	2188156	SWITCH-NONO DBL POLE	1				
9-16	112386	BOOT-BAT TERM POS	1				
9-17	2308095	COVER-TERMINAL	1				
9-18	2188172	HARNESS-PIGTAIL	2				
9-19	2722078	HARNESS-FUEL PUMP	1				

FIGURE 10



ZT 200 EFI Series

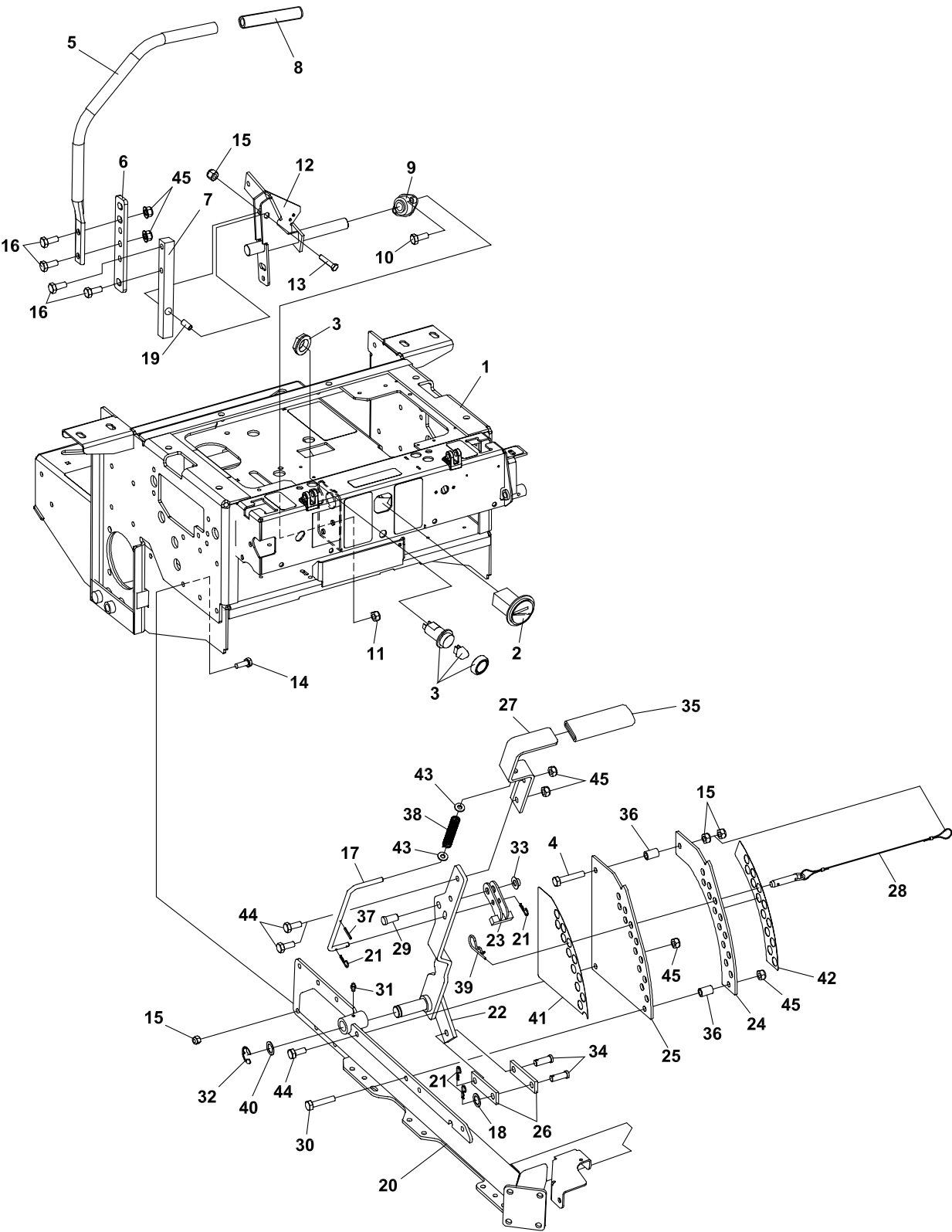
SEAT ASSEMBLY & ROPS

FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	4122479	SEAT-SUSPENSION (INCLUDES ITEMS 2-15)	1				
10-2	4122479-01	CUSHION-SEAT BACK	1				
10-3	4122479-02	CUSHION-SEAT BOTTOM	1				
10-4	4122479-03	SLIDE RAIL-ADJUSTER	1				
10-5	4122479-04	SLIDE RAIL-SLAVE	1				
10-6	4122479-05	SKIRT-SEAT ASSY	1				
10-7	4122479-06	CLIP-SMALL XMAS TREE	3				
10-8	4122479-07	CLIP-LARGE XMAS TREE	4				
10-9	4122479-08	ASSY-CABLE	1				
10-10	4122479-09	BACK PANEL-SEAT	1				
10-11	4124009	SWITCH-SEAT NO	1				
10-12	4122481	ARMREST-RH	1				
10-13	4122480	ARMREST-LH	1				
10-14	64123-68	BOLT-HEX 5/16-18X1	4				
10-15	64123-54	BOLT, 5/16-18X3/4 HEX	4				
10-16	4121386.7	PLATE-SEAT	1				
10-17	64141-6	NUT-WLF 5/16-18	4				
10-18	158136	WIRE-SEAT SWITCH	1				
10-19	64188-39	PIN-CLEVIS3/8X1-3/8W/OHL	2				
10-20	64175-04	PUSHNUT 3/8 DIA	2				
10-21	38371-01	BRG-NYLINER 3/8	4				
10-22	48228A	CABLE CLIP-INSULATED	1				
10-23	64152-23	SCREW 1/4-20X3/8	1				
OPTIONAL ROPS:							
10-24	970162	ATT-ROPS (INCLUDES ITEM 22)					
10-25	*2208260	S-SEAT BELT	1				

* NOT ILLUSTRATED

FIGURE 11



ZT 200 EFI Series

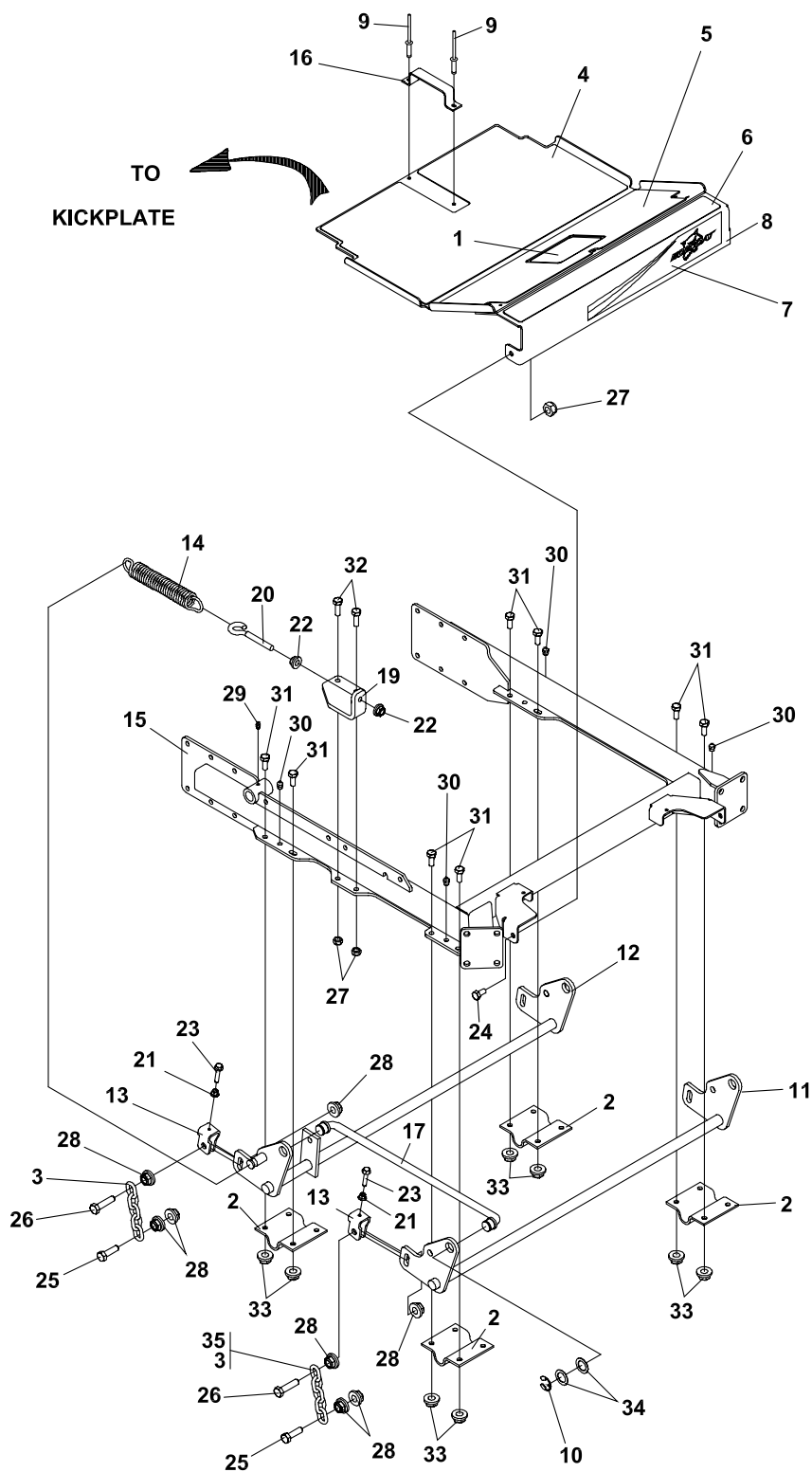
STEERING/DECK LIFT

FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	2720996	S ENGINE DECK W/LABS	1	11-31	85010N	ZERK, 1/4-28 STR SELF TH	1
11-2	48030N	HOUR METER ASSEMBLY	1	11-32	64221-04	E-RING .875	1
11-3	12722121	LAMP-ENG MALFUNCT IND	1	11-33	64175-05	NUT-PUSH 5/16	1
	2722121-01	BULB	1	11-34	64188-36	PIN, CLEVIS 7/16X1-1/4	2
				11-35	2188143	GRIP	1
11-4	64205-008	BLT-MET M10-1.50X55	1	11-36	2183071-03	SPACER-15.88X10.32X24	2
11-5	4122172.7	LEVER-TRACTION CNTRL	2	11-37	64061-37	ROLL PIN-1/8X1.00 SS	1
11-6	4122173.7	BRKT-TRACTION LEVER	2	11-38	2720544	SPRING-COMPRESSION	1
11-7	2183074	BRKT-HANDLE	2	11-39	64168-1	COTTER-HAIRPIN.12X2-3/8	1
11-8	2188144	GRIP-.75 IDX12	2	11-40	64163-65	WSHR .890X1.375X18GA	3
11-9	2188145	BEARING-.75ID SELF ALIGN	4	11-41	2720742	LBL-ZT200 HT CUT OUTER	1
11-10	64123-15	BOLT-3/8-16X3/4 HEX	8	11-42	2720743	LBL-ZT200 HT CUT INNER	1
11-11	64141-4	NUT-WLF 3/8-16	8	11-43	64163-29	WASHER-21/64 X 1 X 11GA	2
11-12	4112105.7	WLDMT-MTN CONTRL RH	1	11-44	A1104057	BOLT-M10-1.50X25	3
	* 4112104.7	WLDMT-MTN CONTRL LH	1	11-45	64265-05	NUT-FL NYL LOCK M10-1.5	8
11-13	64205-011	BLT-MET M10-1.50X40	2				
11-14	A110406	SCREW,M10X1.5X30 HH	12				
11-15	64237-03	LOCKNUT-NYLON M10-1.5	16				
11-16	64263-013	BLT-FLG HD M10-1.5 X 30	8				
11-17	2720503	ROD-LIFT STOP	1				
11-18	64163-43	WSHR.443/.454X1X11GA	1				
11-19	2183073	SPACER	2				
11-20	2722723.7	WLDMT-CRADLE	1				
11-21	64168-2	COTTER-HAIRPIN.08X1.19	4				
11-22	2720551.7	WLDMT-DECK LIFT LEVER	1				
11-23	2720511.7	WLDMT-LVR STOP LATCH	1				
11-24	2720517.7	BRKT-INNER DECK LIFT	1				
11-25	2720516.7	BRKT-OUTER DECK LIFT	1				
11-26	4116590.7	BRACKET-LIFT LINK	2				
11-27	2720501.7	HANDLE-LIFT ARM	1				
11-28	2188141	ASSY, PIN & LANYARD	1				
11-29	64188-53	PIN-CLEVIS 1/2X1.0	1				
11-30	64205-052	BLT-MET M10-1.5X50	1				

* NOT ILLUSTRATED

FIGURE 12



ZT 200 EFI Series

CRADLE ASSEMBLY

FIGURE 12

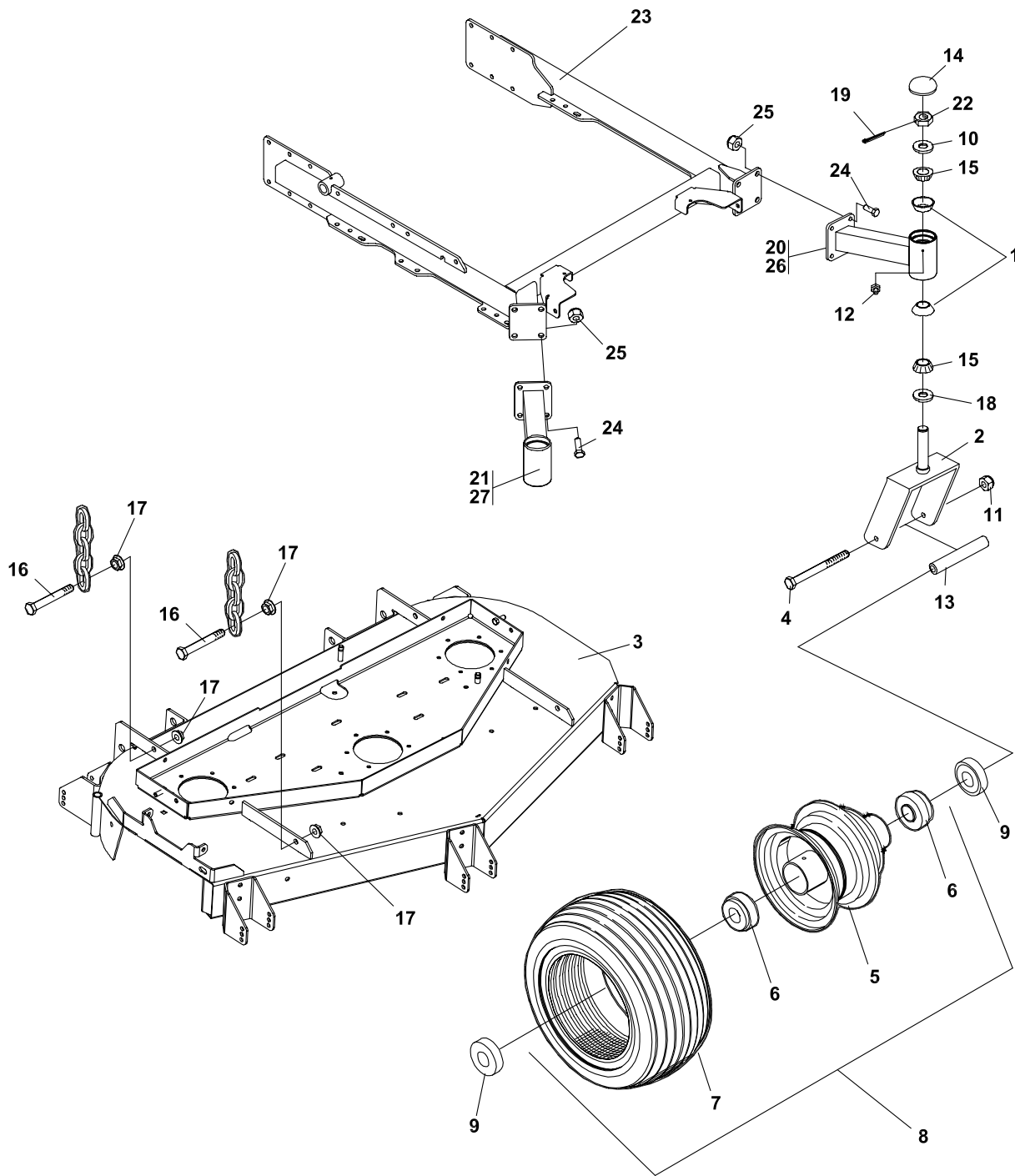
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	2000695	LBL - WARN/USING	1				
12-2	2182356.7	BRACKET-SHAFT HANGER	4				
12-3	2188127	CHAIN-6.35 (.250) 5 LINKS (QTY OF 4 USED ON 61" DECK) (QTY OF 2 USED ON REAR OF 72" DECK)					
12-4	2721859	MAT-FOOT PLATE LOWER	1				
12-5	4129955	MAT-FOOT PLATE MIDDLE	1				
12-6	2721861	MAT-FOOT PLATE UPPER	1				
12-7	4124269	LABEL-FOOT PLATE, ZT	1				
12-8	4109780	S-FOOT PLATE (BOBCAT) (INCLUDES 4-7, 9 & 16)	1				
12-9	64215-07	RIVET-POP IFI #84	2				
12-10	64221-04	E-RING.875	4				
12-11	2722558.7	WLDMT-DECK LIFT, FRONT	1				
12-12	2722559.7	WLDMT-DECK LIFT, REAR	1				
12-13	2722630	CLIP-DECK HEIGHT ADJ	4				
12-14	2722719	SPRING-DECK LIFT	2				
12-15	2722723.7	WLDMT-CRADLE	1				
12-16	32418-04	HANDLE-W/SLOTS	1				
12-17	4109960	WLDMT-DECK LIFT ROD	2				
12-18	*4111842.7	BRKT-SPRING ANCHOR LH	1				
12-19	4111843.7	BRKT-SPRING ANCHOR RH	1				
12-20	4113682	ROD-SPRING MOUNT	2				
12-21	64141-2	NUT-WLF 1/4-20	4				
12-22	64141-4	NUT-WLF 3/8-16	4				
12-23	64197-020	BLT-TDFM 1/4-20X1-1/2	4				
12-24	64205-007	BLT MET M10-1.50X20	2				
12-25	64205-029	BLT-MET M12X1.75X40	4				
12-26	64205-060	BOLT-MET M12-1.75X50	4				
12-27	64237-03	LOCKNUT-NYLON M10-1.5	6				
12-28	64246-04	NUT-WHIZ M12-1.75	16				
12-29	85010N	ZERK, 1/4-28 STR SLFTHRD	1				
12-30	85051	ZERK-1/8 PIPE	6				
12-31	64263-013	BLT-FLG HD M10-1.5 X 30	15				
12-32	A110406	SCREW,M10X1.5X30 HH	4				
12-33	64265-05	NUT-FL NYLN LCK M10-1.5	15				
12-34	64163-65	WASHER-.890X1.375X18GA	8				
12-35	2722454	CHAIN-6.35 (.250) 3 LINKS (USED ON FRONT OF 72" DECK ONLY)	2				

*NOT ILLUSTRATED

CRADLE & CASTER ASSEMBLY

ZT 200
EFI
Series

FIGURE 13



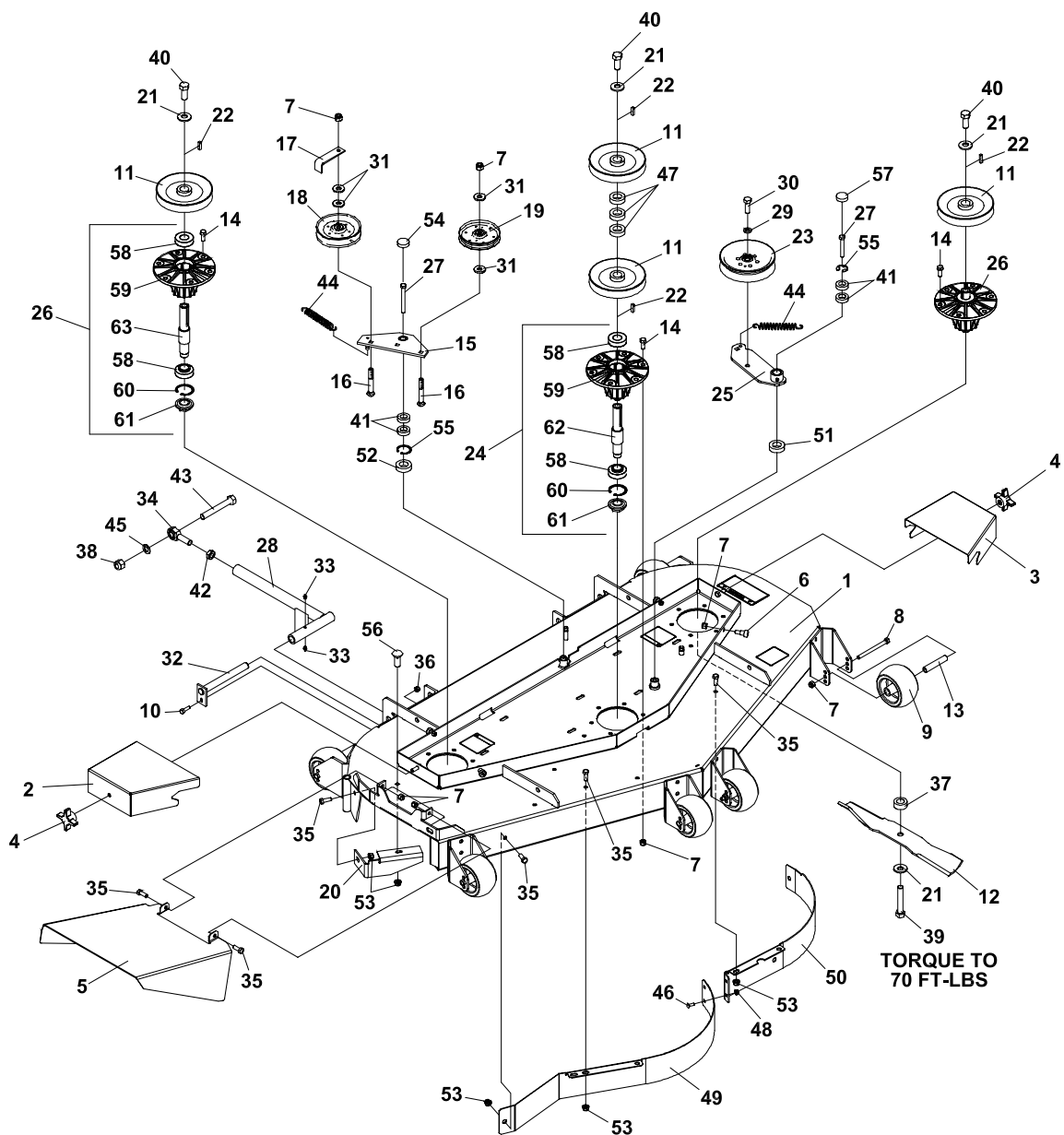
ZT 200 EFI Series

CRADLE & CASTER ASSEMBLY

FIGURE 13

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
13-1	48043-03C	CUP, OUTER BEARING	4				
13-2	2722452.7	WLDMT-CASTER YOKE	2				
13-3		DECK/W LABS					
13-4	64123-223	BLT-3/4-10X10	2				
13-5	2722326-02RIM	ASM-W/VLV STEM	2				
13-6	2722228-03BEARING		4				
13-7	2722326-01TIRE-13X6.50-6	SMTH TRD	2				
13-8	2722326	ASSY-WHL 13X6.5-6 SMTH	2				
13-9	2722231	SPACER-END	4				
13-10	64163-26	WASHER, .766 ID X 1.625	2				
13-11	64229-07	LOCKNUT-NYLON 3/4-10	2				
13-12	85010N	ZERK, 1/4-28 STR SLF THD	2				
13-13	2722230-03SPANNER		2				
13-14	2188135	DUST COVER	2				
13-15	48043-04C	CONE, OUTER BEARING	4				
13-16	64205-029	BLT-MET M12X1.75X40	4				
13-17	64246-04	NUT-WHIZ M12-1.75	8				
13-18	48480	SEAL CR 12411	2				
13-19	64140-5	COTTER PIN	2				
13-20	4113901.7	WLDMT-CASTR ARM 61 LH	1				
13-21	4113902.7	WLDMT-CASTR ARM 61 RH	1				
		(USE FOR 61" SD DECKS ONLY)					
13-22	64025-20	NUT-HEX 3/4-16 SLOT U	2				
13-23	2722723.7	WLDMT-CRADLE	1				
13-24	A1105061	BOLT-M12-1.75X30	8				
13-25	64237-06	LOCKNUT-NYLON M12-1.75	8				
13-26	2722431.7	WLDMT-CASTER LH 72 SD	1				
13-27	2722432.7	WLDMT-CASTER RH 72 SD	1				
		(USE FOR 72" DECKS ONLY)					

FIGURE 14



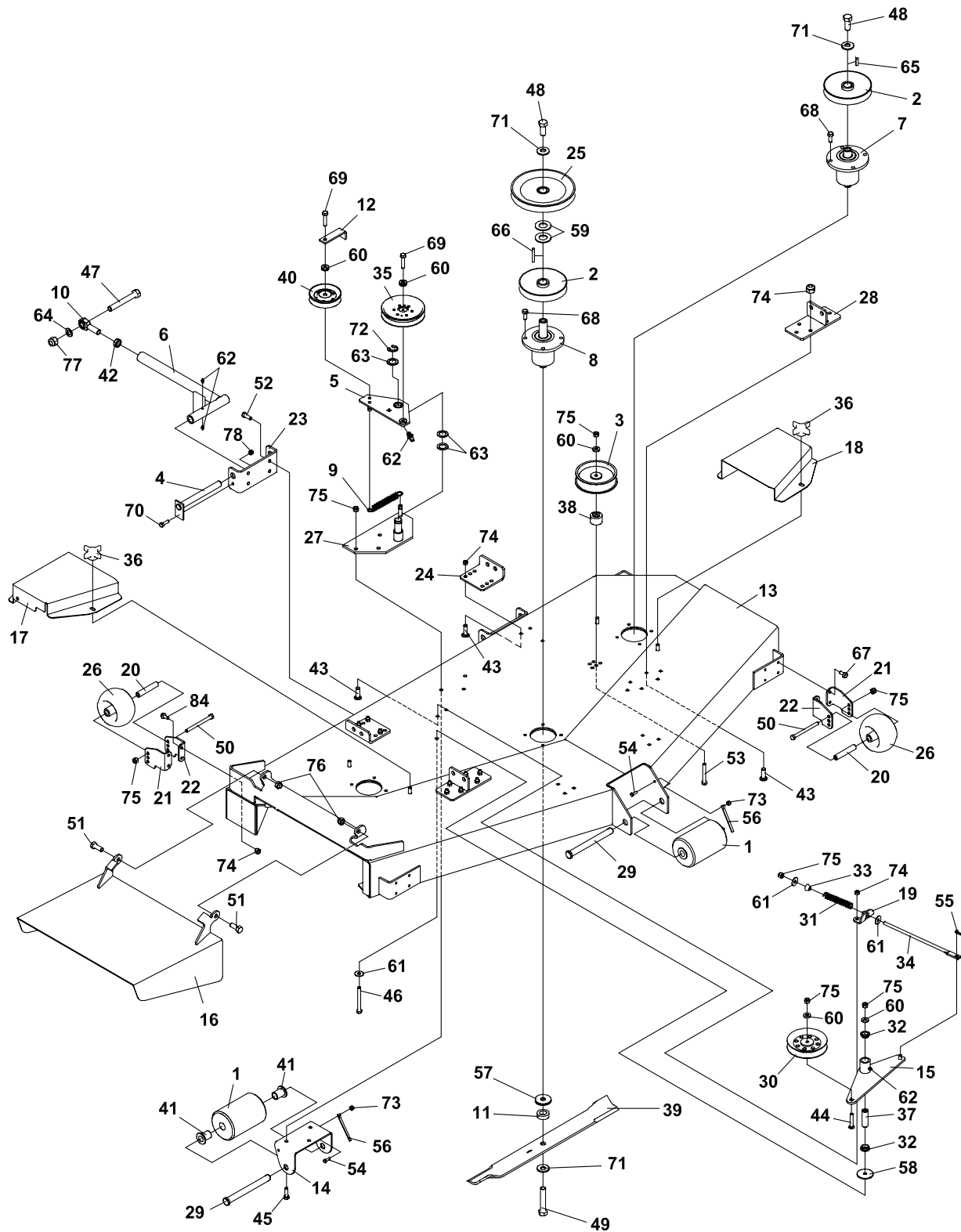
ZT 200 EFI Series

61" SIDE DISCHARGE

FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
14-1	4131517	S-61INCH DECK W/LABELS	1	14-42	64001-1	NUT-HEX JAM,5/8-18	2
14-2	2182352.2	BELT COVER RH	1	14-43	64123-206	BLT-HEX 5/8-11X4-1/2	2
14-3	2182351.2	BELT COVER LH	1	14-44	2188131	SPRING-EXTENSION	2
14-4	38524	KNOB-4 PRONG 3/8-16	2	14-45	64163-73	WSHR-.625IDX1.12ODX.06A/R	
14-5	2302092.2	CHUTE-MID 61	1	14-46	64018-2	BLT-CRG 1/4-20X3/4	2
14-6	64166-17	BLT-SHLDR 3/8-16X1.12	4	14-47	64163-64	WSHR-1.015X1.5X14GA	3
14-7	64229-03	LOCKNUT NYLON 3/8-16	33	14-48	64268-01	NUT-FL NYLN LOCK 1/4-20	2
14-8	64123-173	BLT-HEX 3/8-16X4-1/2	7	14-49	4117664.7	BAFFLE-FRONT CENTER	1
14-9	2721512	ROLLER-5X2.75 CENTERED	7	14-50	4117663.7	BAFFLE-FRONT LH	1
14-10	64123-54	BOLT, 5/16-18X3/4 HEX	2	14-51	4127999	SEAL	1
14-11	2308140	PULLEY ENGINE	4	14-52	4128000	SEAL	1
14-12	112111-03	BLADE 21.00 OFFST HLFT	3	14-53	64268-03	NUT-FL NYLN LOCK 3/8-16	8
14-13	2720685	SPACER-ROLLER	7	14-54	4128001	END CAP	1
14-14	64262-012	BLT-FLG HD 3/8-16 X 1-1/4	18	14-55	64144-40	SNAP RING	2
14-15	4129074	ASSY-IDLER ARM PTO (INCLUDES ITEMS 41, 52, 54 & 55)	1	14-56	64018-3	BOLT-3/8-16X1 CARRIAGE	1
14-16	64018-18	BOLT-CARRIAGE 3/8-16X2	2	14-57	4128002	END CAP	1
14-17	2302125.7	GUIDE-BELT	1	14-58	38348-01	BEARING-SPINDLE SEALED	6
14-18	48393	PULLEY, V IDLER	1	14-59	2721096	HOUSING-SPINDLE 6 HOLE	3
14-19	38297	IDLER, 5.0 OD FLNGD	1	14-60	64144-38	SNAP RING	3
14-20	4115864.7	BAFFLE-DISCHARGE	1	14-61	38315	NUT-SPINDLE	3
14-21	64209-03	SPRING WSHR .67 ID	6	14-62	2183070-01	SHAFT-SPINDLE LONG (USED ON 4115849 CENTER SPINDLE ONLY)	1
14-22	64164-12	1/4X1/4X1 SQ END KEY	4	14-63	2183070-02	SHAFT-SPINDLE (USED ON 4115850 OUTER SPINDLE ONLY)	2
14-23	128169	PULLEY, IDLER 5.50	1				
14-24	4115849	S-ASSYSPNDL ZT200 CNTR (INCLUDES ITEMS 58-62)	1				
14-25	4129076	ASSY-DECK IDLER 61" (INCLUDES ITEMS 41, 51, 55 & 57)	1				
14-26	4115850	S-ASSYSPNDL ZT200 OUT (INCLUDES ITEMS 58-61 & 63)	2				
14-27	64270-01	BOLT-M10-1.5x30	2				
14-28	2186185.7	WLDMT-PUSHBAR	2				
14-29	64006-05	LOCKWSHR-HELICAL 1/2	1				
14-30	64123-05	BLT-HEX 1/2-20X1-1/2	1				
14-31	64163-46	WSHR.383/.393X.88X7GA	4				
14-32	2186125	WLDMT-LOCK, PUSHBAR	2				
14-33	85010N	ZERK, 1/4-28 STR SLF THD	4				
14-34	2188142-01	ROD END 5/8	2				
14-35	64123-50	BOLT-HEX 3/8-16X1	9				
14-36	64229-02	LOCKNUT-NYLON 5/16-18	2				
14-37	4118314	SPACER-BLADE 16MM	3				
14-38	64229-06	LOCKNUT, NYLON 5/8-11	2				
14-39	64123-209	BLT-HEX 5/8-18X3.5	3				
14-40	64123-208	BLT-HEX 5/8-18X1.5	3				
14-41	4128004	BEARING	4				

FIGURE 15

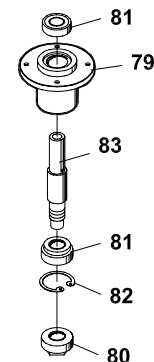


ZT 200 EFI Series

72" SIDE DISCHARGE

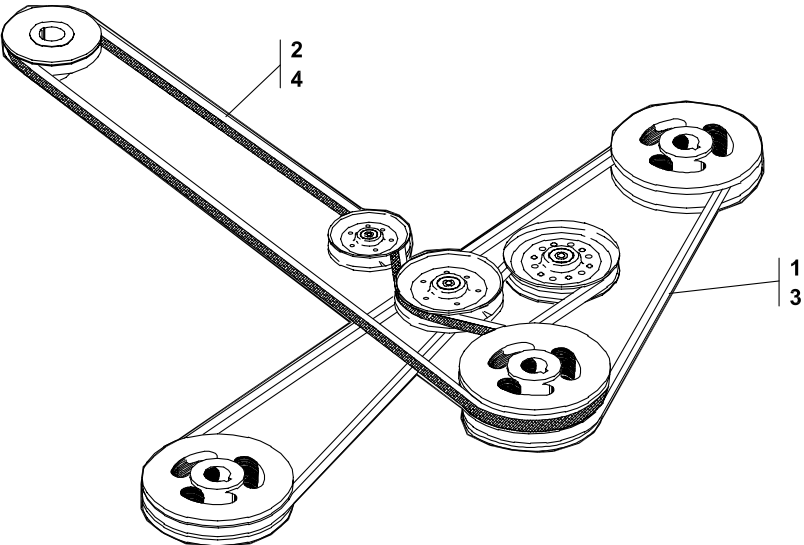
FIGURE 15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	163425	ROLLER	2	15-51	64123-39	BLT-HEX 1/2-13X1-1/4	2
15-2	198027	PULLEY-6.00 DIA	3	15-52	64123-50	BOLT, 3/8-16X1 HEX	8
15-3	1985108	PULLEY- IDLER STATIONRY	1	15-53	64123-88	BOLT, 3/8-16X2-3/4 HEX	1
15-4	2186125	WLDMT-LOCK, PUSHBAR	1	15-54	64123-89	BOLT-HEX 1/4-20X3/4	2
15-5	2186140.7	WLDMT-PTO IDLER	1	15-55	64140-1	COTTER PIN-1/8X1	1
15-6	2186185.7	WLDMT-PUSHBAR	1	15-56	64140-14	COTTER PIN-1/4X3-1/2	2
15-7	2186205	ASSY-TOP MNT SPINDLE (INCLUDES ITEMS 79-83)	2	15-57	64163-11	2X.625/.628X10 GA. WSH	6
15-8	2186207	ASSY-TOP MNT SPINDLE (INCLUDES ITEMS 79-83)	1	15-58	64163-17	25/64 X 2 X 11GA WASHR	1
15-9	2188131	SPRING-EXTENSION	1	15-59	64163-25	1-1/32X2X11GA WASHER	2
15-10	2188142-01	ROD END 5/8	1	15-60	64163-46	WSHR.383/.393X.88X7GA	8
15-11	2188162	SPACER-BLADE	3	15-61	64163-47	WSHR.391X1.110X16 GA	3
15-12	2302125.7	GUIDE-BELT	1	15-62	85010N	ZERK-1/4-28	6
15-13	2720089.2	WLDMT-CUTTERDECK 72	1	15-63	64163-65	WSHR.890X1.375X18GA	3
15-14	2720090.7	BRACKET-REAR ROLLER	1	15-64	64163-73	WSHR-.625IDX1.12ODX.062	1
15-15	2720094.7	WLDMT-IDLER ARM	1	15-65	64164-12	1/4X1/4X1 SQ END KEY	2
15-16	2720095.2	WLDMT-DISCHRG CHUTE	1	15-66	64164-13	1/4X1/4X2 SQ KEY	1
15-17	2720096.2	GUARD-BELT RH	1	15-67	64197-001	BOLT	12
15-18	2720097.2	GUARD-BELT LH	1	15-68	64197-003	BLT-TDFM 3/8-16X1.00	12
15-19	2720099.7	BRACKET-SPRING ROD	1	15-69	64197-004	BLT-TDFM 3/8-16X1-3/4	2
15-20	2720685	SPACER-ROLLER	4	15-70	64205-001	BLT-MET M8-1.25X20	1
15-21	2720813.7	BRKT-ROLLER MTG RH	4	15-71	64209-03	SPRING WASHER.67 ID	6
15-22	2720814.7	BRKT-ROLLER MTG LH	4	15-72	64221-04	E-RING.875	1
15-23	2721220.7	BRKT-HANGER	2	15-73	64229-01	LOCKNUT-NYLON 1/4-20	2
15-24	2721221.7	BRKT-CHAIN, REAR	2	15-74	64229-02	LOCKNUT-NYLON 5/16-18	24
15-25	2721415	PULLEY-7.56	1	15-75	64229-03	LOCKNUT-NYLON 3/8-16	19
15-26	2721512	ROLLER-5X2.75 CENTERED	4	15-76	64229-05	LOCKNUT, 1/2-13 NYLON	2
15-27	2722495.7	WLDMT-IDLER MOUNT	1	15-77	64229-06	LOCKNUT, NYLON 5/8-11	1
15-28	2722563.7	WLDMT-DECK MOUNT	2	15-78	64237-05	LOCKNUT-NYLON M8-1.25	1
15-29	3002737	SHAFT, ROLLER	2	15-79	2191000.7	SPINDLE HOUSING	3
15-30	3005164	PULLEY, V-IDLER	1	15-80	38315	NUT-SPINDLE	3
15-31	311870	SPRING	1	15-81	38348-01	BEARING-SPINDLE	6
15-32	352726	BUSHING	2	15-82	64144-38	SNAP-RING	3
15-33	360667	ADAPTER	1	15-83	2183070-01	SPINDLE (USED IN ASSY 2186207)	1
15-34	361282	ROD, IDLER	1		2183070-02	SPINDLE (USED IN ASSY 2186205)	2
15-35	38297	IDLER, 5 OD FLANGED	1	15-84	64123-68	BLT-HEX 5/16-18 X 1	4
15-36	38524	KNOB-4 PRONG 3/8-16	4				
15-37	3970189	SLEEVE-IDLER PIVOT	1				
15-38	3970192	SPACER-STATNARY IDLER	1				
15-39	3970261	BLADE, HIGH LIFT	3				
15-40	48393	PULLEY-V IDLER	1				
15-41	552824	BUSHING	4				
15-42	64001-1	NUT-HEX JAM,5/8-18	1				
15-43	64018-15	BLT-CRG 5/16-18X1	20				
15-44	64018-18	BLT-CRG 3/8-16X2	1				
15-45	64123-16	BOLT	3				
15-46	64123-171	BOLT-HEX 3/8-16X3-1/2	1				
15-47	64123-206	BLT-HEX 5/8-11X4-1/2	1				
15-48	64123-208	BLT-HEX 5/8-18X1.5	3				
15-49	64123-209	BLT-HEX 5/8-18X3.5	3				
15-50	64123-217	BLT-HEX 3/8-16X4-1/4	4				



2186207-ASSY TOP MOUNT SPINDLE
2186205-ASSY TOP MOUNT SPINDLE
(INCLUDES ITEMS 79-83)

FIGURE 16



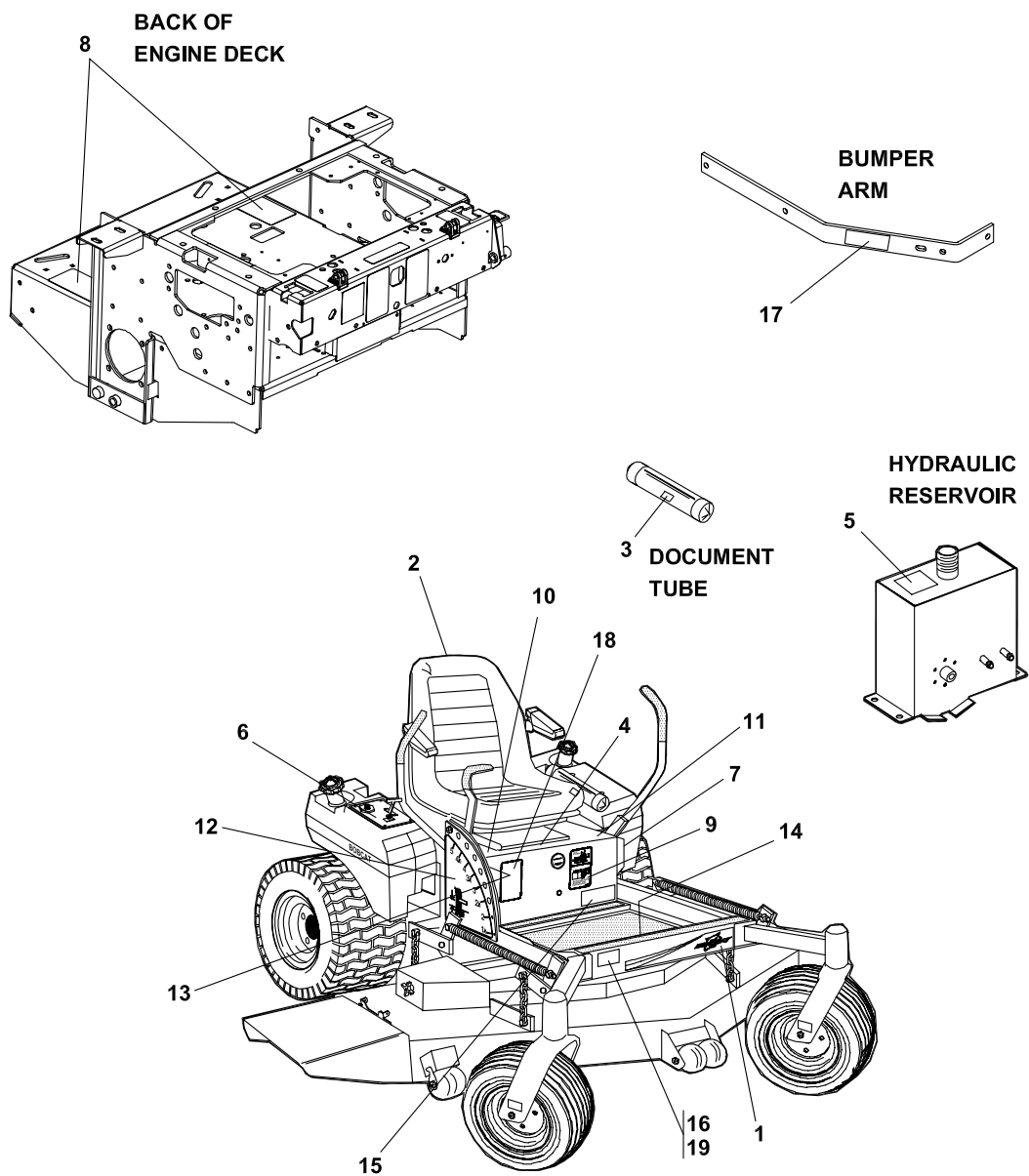
ZT 200 EFI Series

BELTS-CUTTERDECK

FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
16-1	128003	BELT-CUTTERDECK	1				
16-2	2722224	BELT-PTO (USE ON 61" DECKS ONLY)	2				
16-3	3970215	BELT-BLADE TO BLADE	1				
16-4	2722554	BELT-PTO (USE ON 72" SD DECKS ONLY)	1				

FIGURE 17



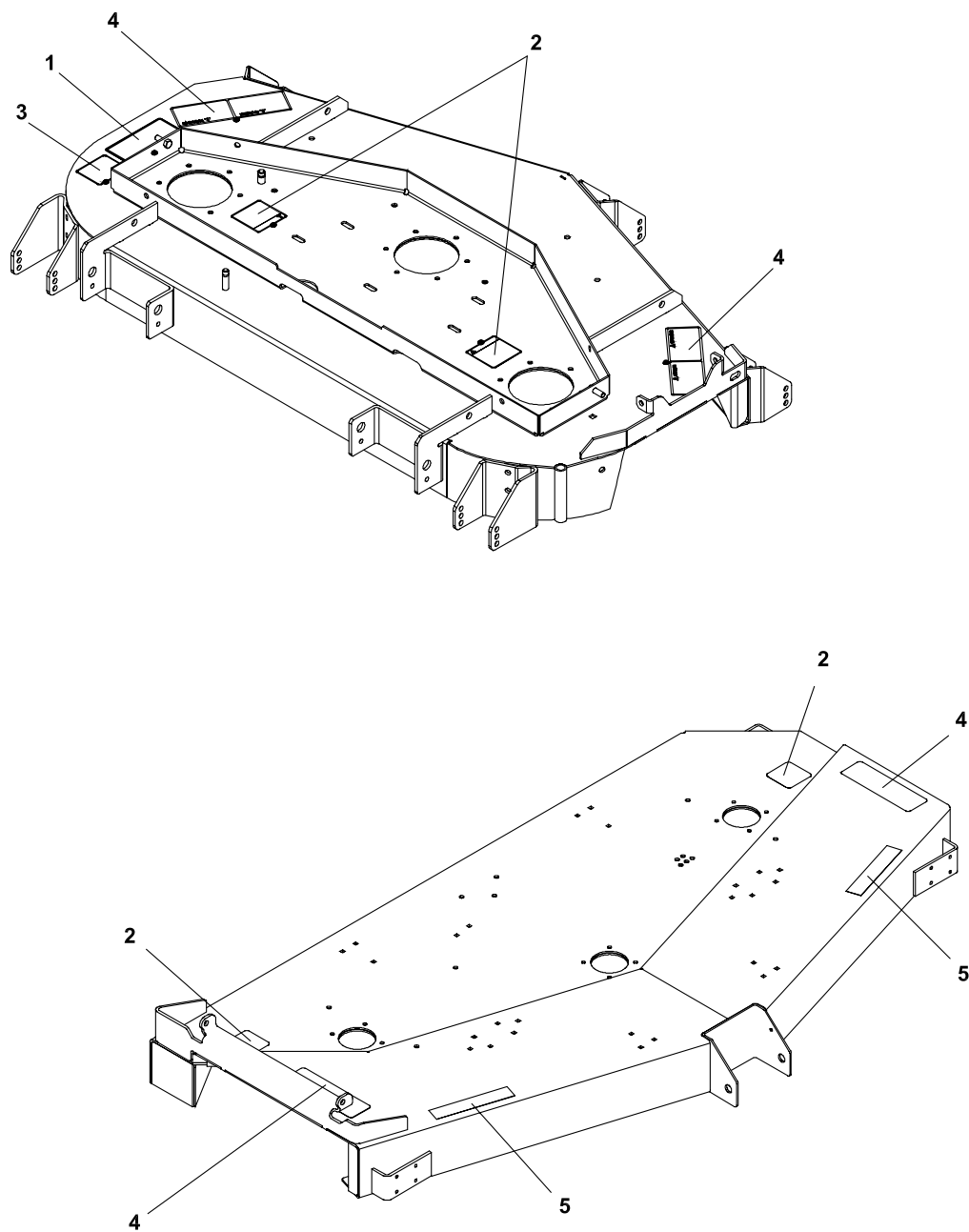
ZT 200 EFI Series

DECALS-POWER UNIT

FIGURE 17

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
17-1	4124269	LABEL-FOOT PLATE, ZT	1				
17-2	4124262	LABEL-BOBCAT DIECUT	1				
17-3	2000735	LABEL-OPER MAN	1				
17-4	2000590	LABEL, WARN BATTERY	1				
17-5	2000691	LABEL - HYDR OIL FILL	1				
17-6	2000784	LABEL-CONTROL PANEL	1				
17-7	2000693	LABEL - PARK BRAKE	1				
17-8	2000698	LABEL(DBL) - FUEL/LEAKS	2				
17-9	4114158	LABEL-TIRES	1				
17-10	2000700	LABEL - RH TRACTION	1				
17-11	2000701	LABEL - LH TRACTION	1				
17-12	2720742	LABEL-HT CUT OUTER	1				
17-13	2720743	LABEL-HT CUT INNER	1				
17-14	2000695	LABEL - WARN/USING	1				
17-15	2722455	LABEL-FUEL	1				
17-16	4124303	LABEL-ZT 226EFI	1				
17-17	2722557	LABEL-HI PRESSURE FUEL	1				
17-18	340830	DECAL-CAUTION SPANISH	1				
17-19	4123326	LABEL-ZT 228 EFI DIE CUT	1				
		(USED ON 28HP ONLY)					

FIGURE 18



ZT 200 EFI Series

DECALS-CUTTERDECKS

FIGURE 18

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
18-1	2000572	LABEL-WARNING BLADES (USED ON 61" DECKS ONLY)	1				
18-2	2000577	LABEL-WARNING	2				
18-3	2000696	LABEL-BLADE INSTALL (USED ON 61" DECKS ONLY)	1				
18-4	2000677	LABEL-DANGER/WARNING	2				
18-5	2000787	DECAL-NO STEP (USED ON 72" DECKS ONLY)	2				

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A worldwide dealer network and factory-trained technicians backed by Textron Parts Xpress provide reliable, high-quality product support.



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