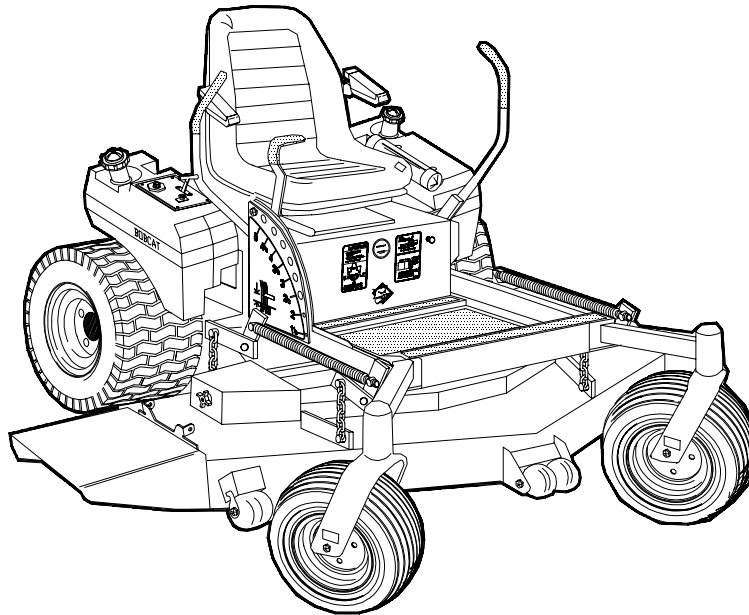




BOB-CAT®

SETUP, PARTS & MAINTENANCE MANUAL ZT 220D SERIES

**MODELS: 942208 ZT 220D 52" SIDE DISCHARGE
942209 ZT 220D 61" 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.

Operation & Safety Manual: 2721542

BOB-CAT

TEXTRON
TURF CARE AND SPECIALTY PRODUCTS

2721543 REV00



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.

Textron Turf Care And Specialty Products
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.

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

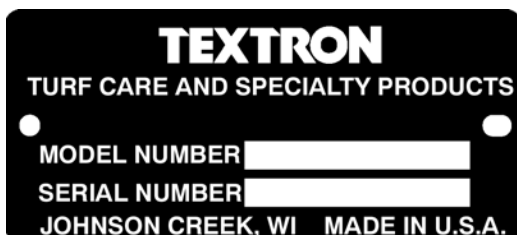
WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

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



SERIAL TAG

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.



ZT 200 Series

ASSEMBLY AND SETUP

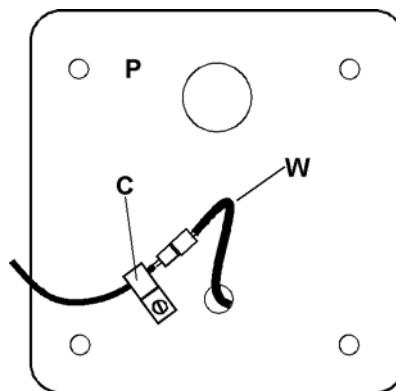
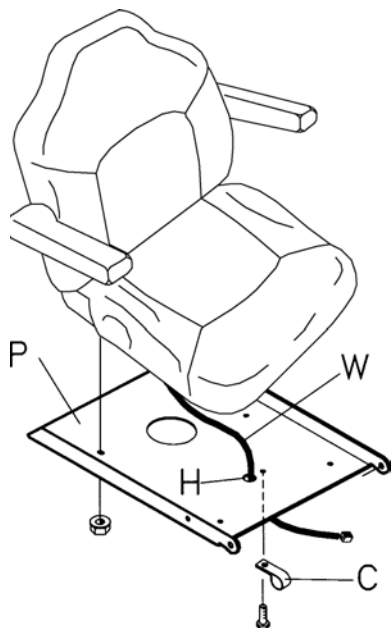
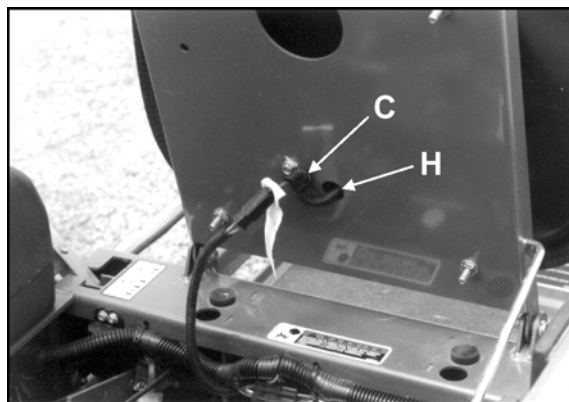
TOOLS REQUIRED FOR ASSEMBLY

- Wrecking bar
- Claw hammer
- Ratchets: 3/8"
- Sockets: 3/8", 1/2", 17 mm, 19 mm
- Wrenches: two 15/16" (or adjustable), 13 mm, 17 mm, 19 mm
- Level
- Straight edge
- Tire pressure gauge

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

1. INSTALL SEAT

- 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.
- 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.
- Connect the tractor harness to the seat wire.



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



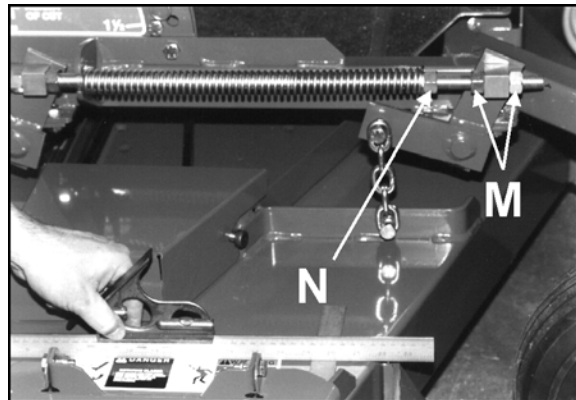
2. Set tire pressures to 14 psi. Tires are overinflated for shipping.

3. LEVEL CUTTERDECK AND ADJUST COUNTER-BALANCE SPRINGS

- **Side Discharge:** The front of a side discharge deck should be slightly lower than the rear.
- **Mulching:** The front of a mulching deck should be slightly higher than the rear.

To level deck:

- a) Park the machine on a smooth, level surface. The deck may be set to any cutting height.
- b) Place a level on the deck, from front to rear. If the level is too short to reach all the way from front to rear, lay a straight edge on the deck first, then place the level on the straight edge.
- c) Lay a 1/8" spacer beneath the front of the level for the side discharge and under the rear for mulching.
- d) Adjust nuts **M** until the level's bubble is centered. Repeat for the other side of the deck.



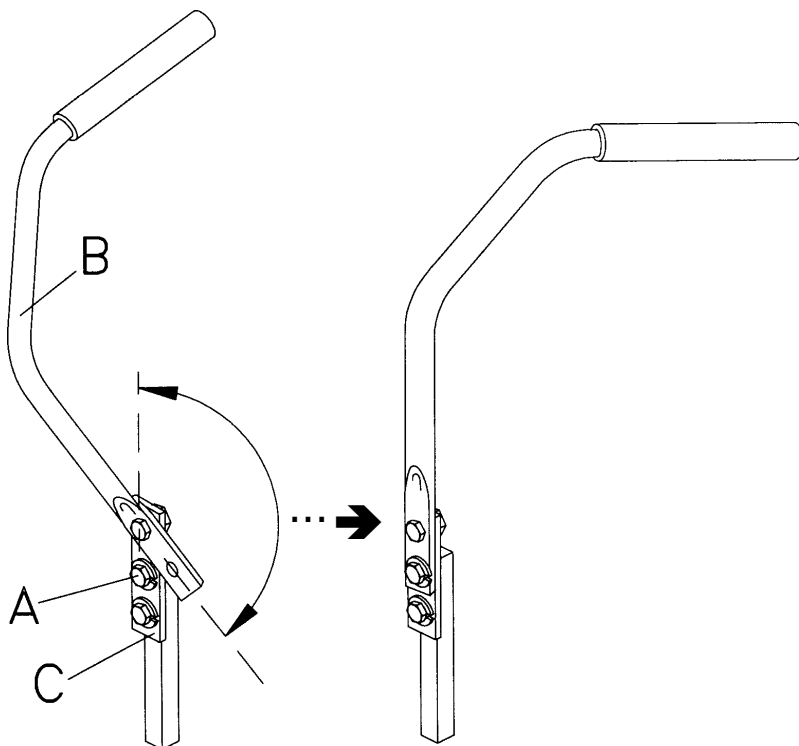
Adjust Counterbalance springs: (52" & 61" DECKS ONLY)

The counterbalance springs are adjusted to a length of 13-1/4" with the deck raised all the way. The springs may be tightened or loosened from this print with nut **N** according to personal preference



4. TRACTION LEVERS

- Remove bolt **A**.
- Rotate traction lever **B** into position and secure with bolt **A**. Repeat for the other lever.
- Tighten all fasteners.
- Sit on the machine. If the levers are too long, bracket **C** may be removed to make them shorter.



5. FINAL PREPARATIONS

- Check the engine and hydraulic oil levels. Top up with the correct oil if necessary. See engine manufacturer's manual for recommended grade of oil. Use fresh, clean 15W40 or 20W50 motor oil or 15W50 synthetic motor oil for the hydraulic system.
- Remove the battery from the machine and trickle charge for several hours. Replace the battery in the machine and make the connections, red to positive first, then black (ground) to negative.
- Read Operation and Safety Manual before starting.
- If fuel tanks have been completely emptied, refer to the bleeding the fuel system on Page 11 of this manual.
- 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
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							
Cleck/Top up 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					X	
HYDRAULICS							
Check for Leaks		X					
Cleck/Top up Oil Level					X		
Change Oil and Filter	X						X
MACHINE							
Check Interlock Operation		X					
Check Tire Pressures		X					
Check/Top up Battery	Sealed "Maintenance Free" Battery						
Lubricate All Points				X			



NOTES

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NOTE: After first 5 hours of operation replace engine oil, hydraulic oil and both filters.



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.

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.

Fuel System

Check filter bulb for water accumulation.

Radiator and Oil Cooler

Check for debris build up and clean if necessary

Battery

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

Always use insulated tools, wear protective glasses or goggles and protective clothing when working with batteries. You must read and obey all of the battery manufacturer's instructions.

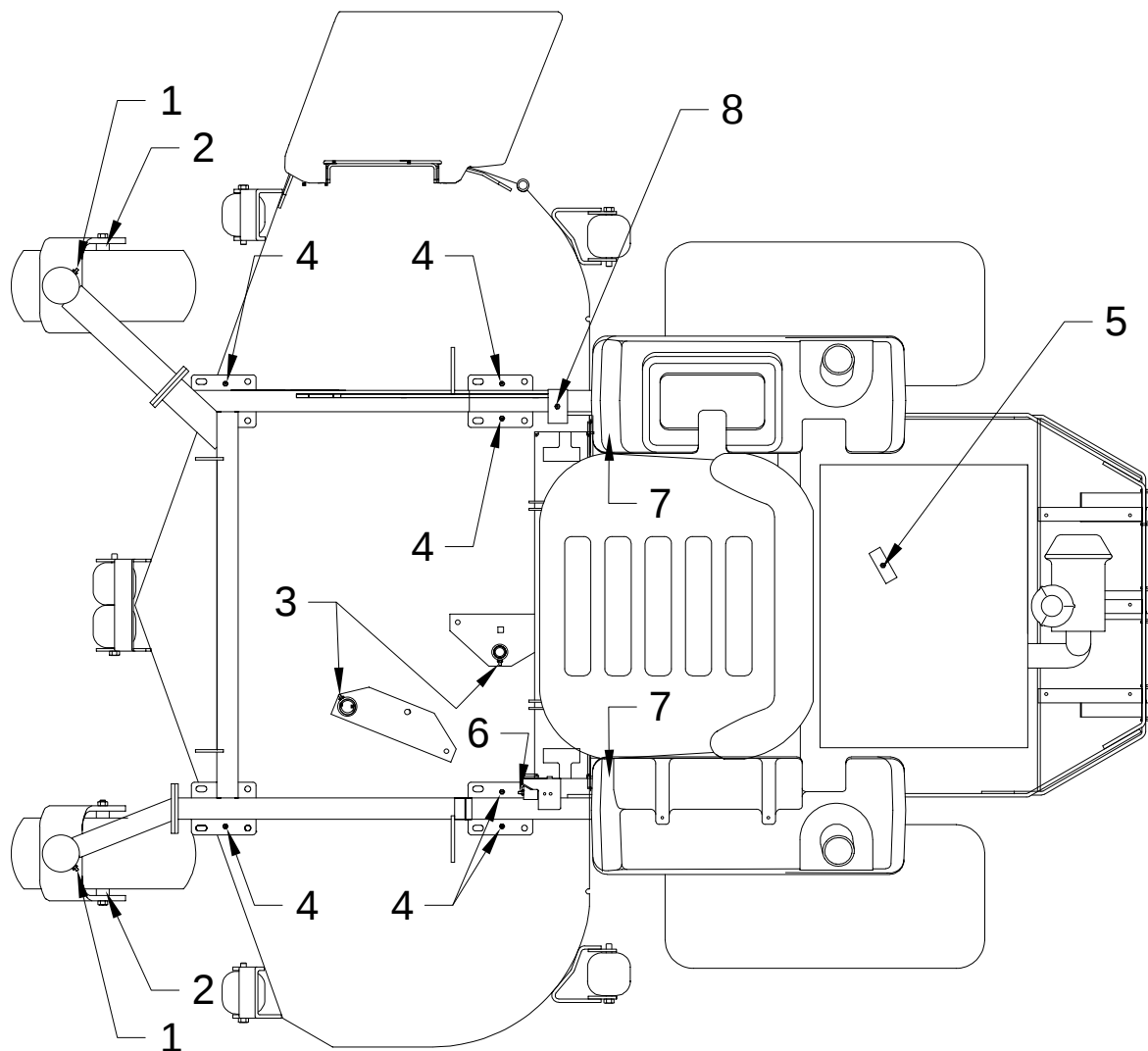
Make absolutely certain the ignition switch is "OFF" and the key has been removed before servicing the battery.

NOTE: The battery included from the factory is of the sealed type.

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 with grease:

1. Caster wheel pivots (2 points)
2. Caster wheel bearings (2 points)
3. Deck idler pivot bearings (2 points)
4. Deck lift pivots (6 points)
5. Hydro belt tensioner (1 point under engine deck)
6. Brake lever pivot (1 point)
7. Push arms (2 points located at rear of cutter deck under each fuel tank)
8. Deck lift rockshaft (1 point)

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



HYDRAULIC SYSTEM

After the first 5 hours of operation, fluid level in the hydraulic system should be checked every 100 hours 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

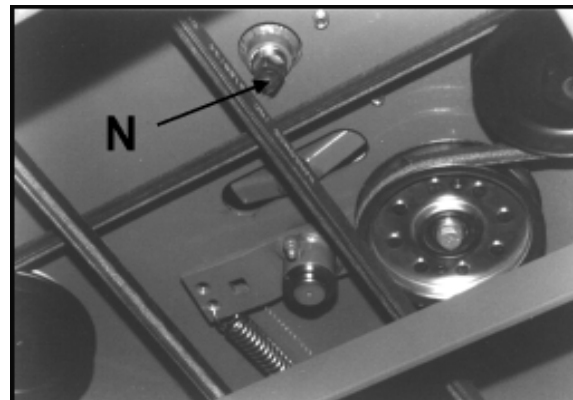
1. Remove plug **N** to drain hydraulic reservoir. Dispose of used oil in accordance with local requirements.
2. Clean and replace the plug.
3. Change hydraulic oil filter **G**.
4. Fill the reservoir with fresh oil to the bottom of the reservoir filler tube, using an oil from the list above. Do not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

PERIODIC OIL CHANGES

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



View from right side



View from below machine

NOTES:

Before servicing the hydraulic system, stop the engine 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.



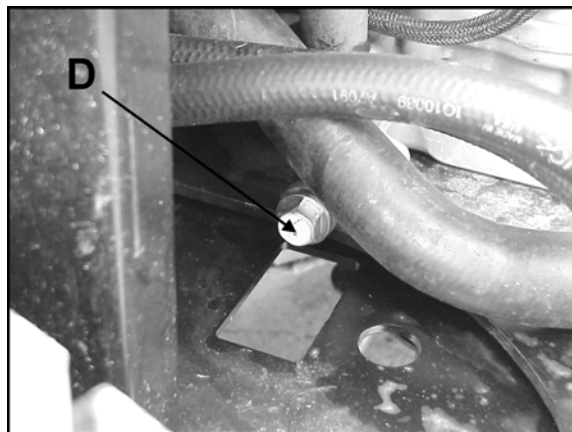
ENGINE OIL

Do not perform engine maintenance without the engine off and PTO disengaged.

AFTER FIRST FIVE (5) HOURS

While the engine is warm:

1. Remove drain plug **D** and drain the crankcase. Dispose of used oil in accordance with local requirements.
2. Clean and replace the plug **D**.
3. Change oil filter **F**. See Engine Manual
4. Remove cap **C** and fill the crankcase with fresh oil to the full mark on the dipstick. Do not overfill. See engine manual for oil specifications.

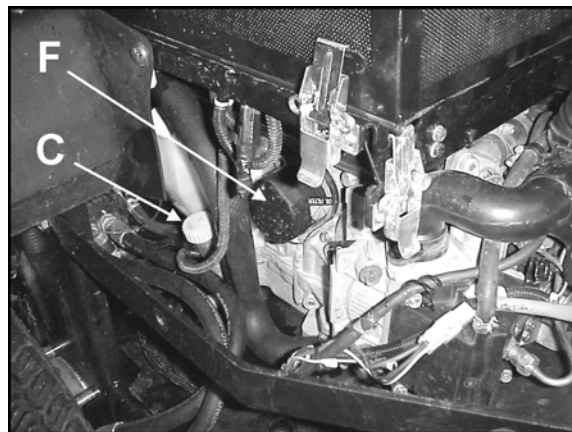


DAILY

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.

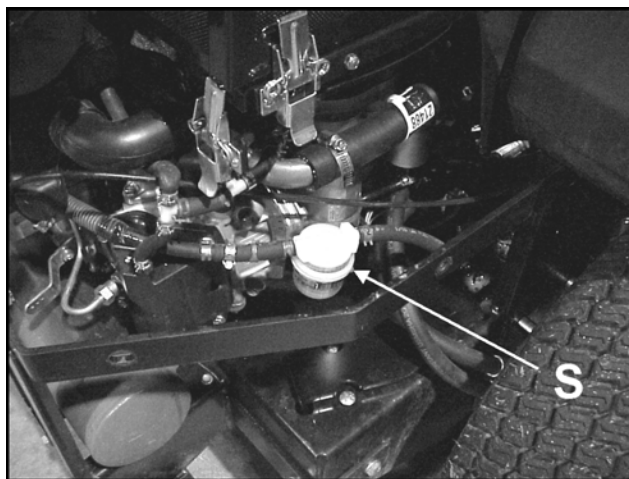
PERIODIC OIL CHANGES

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



FUEL FILTER

An in-line fuel filter **S** is located at the right side of the engine. Inspect at every oil change to make sure fuel filter is clean and unobstructed. Replace if dirty or after 400 hours of use.

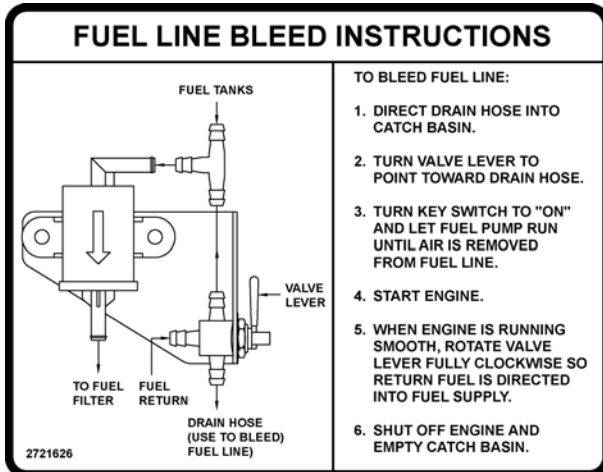




BLEEDING AIR OUT OF FUEL SYSTEM

If fuel tanks are run dry, it may be necessary to bleed off air from the fuel system.

- Follow the instructions on the fuel line bleed decal located on the tractor.



AIR CLEANER

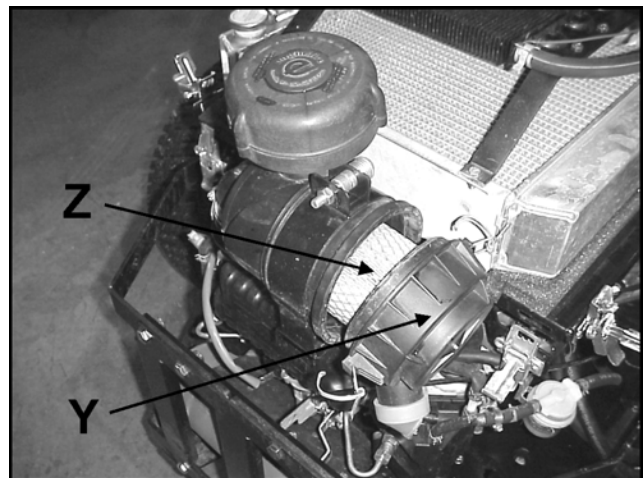
The air cleaner with this engine has a high density paper air cleaner cartridge. It should be inspected regularly and maintained. Uneven running, lack of power or black exhaust fumes may indicate a dirty air cleaner.

To clean or replace diesel engine air cleaner element:

1. Unclamp end cover Y and remove element Z.
2. Insert new element and replace end cover by clamping in position as shown on the cover.

Every 100 hours (more often under very dusty or dirty conditions), check the paper cartridge.

- Clean by tapping gently.
- Do not wash the cartridge or use compressed air which can cause damage.
- Replace when cartridge is dirty, bent or damaged.





ENGINE COOLING

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

Perform the following steps daily or when fins become clogged.

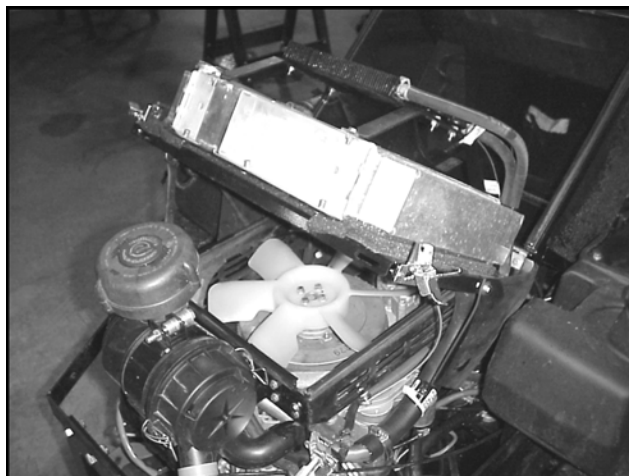
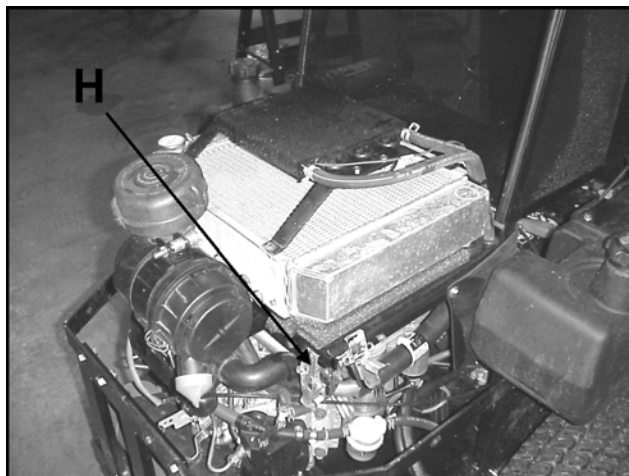
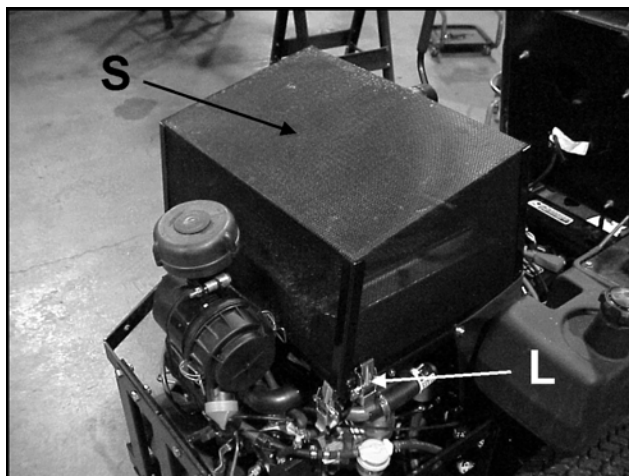
DAILY

1. Clean air intake screen **S**.
2. Clean oil cooler and radiator fins by opening latch **L** and rotating screen **S** forward.
3. Wipe or brush off accumulated debris.
4. Unclamp and raise radiator by opening latch **H**. Using compressed air, blow debris from fins directing air away from the engine.

NOTE: Do not use pressurized water or other liquid.

5. When completed, clamp the radiator and screen back into place.

NOTE: Engine will not crank unless radiator is securely clamped into place.

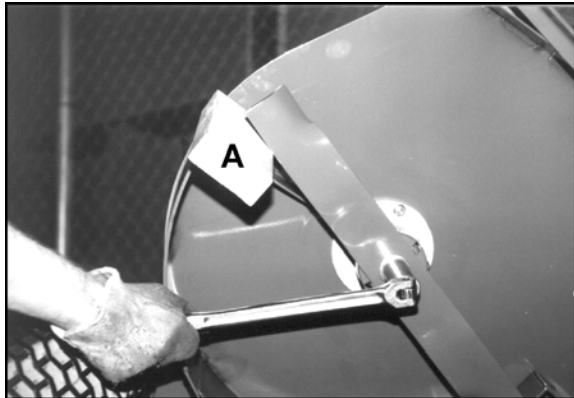




BLADE REMOVAL

Follow these instructions to prevent injury during blade removal:

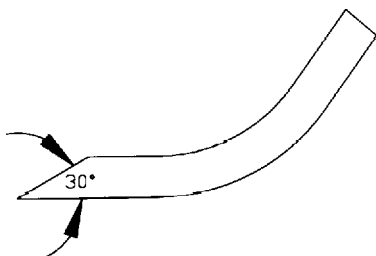
1. Loosen with a box wrench or a socket and long breaker bar. To gain additional leverage, slip a long pipe or thick-walled tube over breaker bar or wrench.
2. Insert wood block **A** as shown, with grain perpendicular to blade, to prevent blade from turning when loosening.
3. Wear thickly padded gloves.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



SHARPENING

Blades may 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

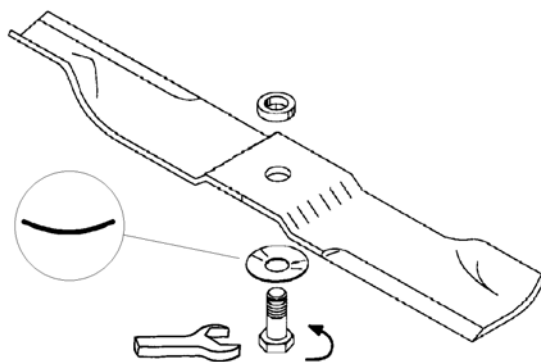
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

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.





ZT 200 Series

TROUBLESHOOTING

SYMPTOMS	PROBABLE CAUSE	CHECK FOR	SOLUTION
Engine will not start.	Safety interlock not activated.	Radiator mounting clamp loose.	Latch clamps.
		PTO Switch engaged.	Shut off PTO.
		Parking brake disengaged.	Engage parking brake or adjust parking brake switch.
	Battery discharged. (See Page 8 for charging instructions.)	Position of traction control levers.	Place levers in neutral lock position or adjust traction control switch.
		Loose or corroded cable terminals.	Clean and tighten cable terminal fasteners.
Charger relay function.		Remove and check charge relay switching. Replace relay if necessary.	
	Electrical continuity.	Repair as necessary.	
Engine cranks but will not start.	Cold ambient temp.	Glow plug chart. (See chart on Page 23.)	Use glow plugs per recommendations.
	No fuel.	No fuel in tanks.	Add clean fresh fuel.
		Lever position of shut off/tank select valve.	Direct lever toward tank containing fuel.
		Air in fuel line. Air must be purged from fuel line after running out of fuel.	Purge air from fuel line. (See decal or Page 12.)
	Fuel solenoid not activated.	Electrical continuity. (Solenoid should "click" when keyswitch is turned on.)	Check and tighten all terminals as required.
			Check fuel solenoid relay. Replace relay if necessary.
		Blown 30 Amp fuse.	Replace fuse. determine cause for burned fuse and repair as required.

TROUBLESHOOTING

**ZT 200
Series**



SYMPTOMS	PROBABLE CAUSE	CHECK FOR	SOLUTION
Engine starts but runs unevenly.	Fuel line not bled after running out of fuel.	Air in fuel line.	Purge air from fuel line. (See decal or Page 12.)
	Water in fuel or plugged fuel filter.	Water in fuel bowl. Dirty fuel filter.	Replace fuel filter.
	Engine air intake restricted.	Dirty air filter.	Clean or replace air filter.
Engine overheating	Air flow through radiator restricted.	Plugged air screen.	Clean screen.
		Plugged radiator core.	Clean radiator core. (See instructions on Page 13.)
	Low coolant.	Coolant level in surge tank.	See engine manual.
		Collapsed or leaking hose between surge tank and radiator.	Repair as required.
Cutterdeck shuts down without being turned off.	Engine overheating.	Damaged radiator hose.	Replace hose.
	Open wiring circuit.	See engine overheating of troubleshooting section.	See engine overheating of troubleshooting section.
Engine shuts down immediately when operator raises from seat.	Engine overheating.	Blown 20 Amp fuse.	Replace fuse/ determine cause for burned fuse and repair as required.
	Open wiring circuit.	See engine overheating of troubleshooting section.	See engine overheating of troubleshooting section.
Gauges/Indicators not functioning.	Time delay module, fuel shut off timer.	Loose wire harness terminals/ module/timer.	Check and tighten all terminals/delay module/timer.
		Loose wiring terminals or damaged electrical wiring.	Check and tighten all terminals.
	Open wiring circuit.	Blown 10 amp fuse.	Replace fuse/ determine cause for burned fuse and repair as required.
Tractor does not respond to movement of control levers.	Hydraulic oil bypassing pumps.	Burned out bulbs.	Replace bulbs
	Low level of hydraulic oil.	Open tow valve(s).	Close tow valves.
		Level of hydraulic oil in reservoir.	Add hydraulic oil/ Determine cause for oil loss.



HEIGHT OF CUT

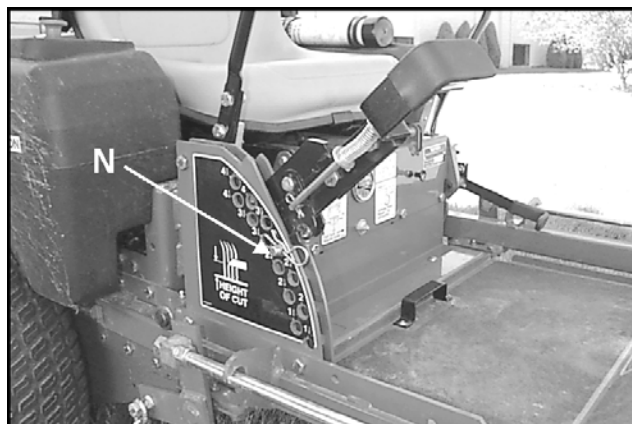
The height of cut is set by moving height of cut pin **N** to the hole designated for the height of cut desired.

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.

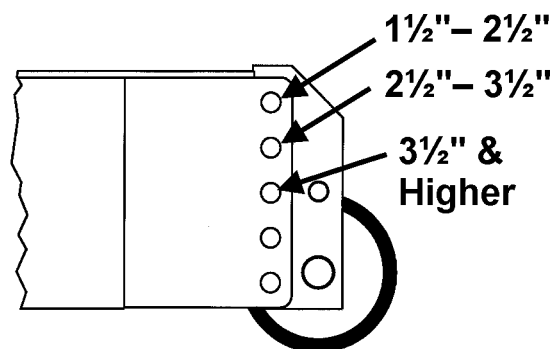
NOTES:

- 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

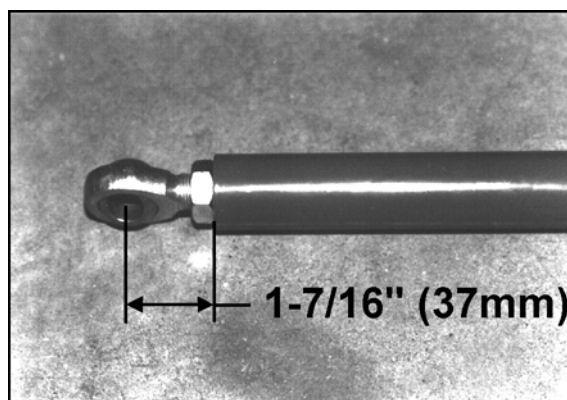


PUSH ARMS

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 cutter-deck 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.



BELTS

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

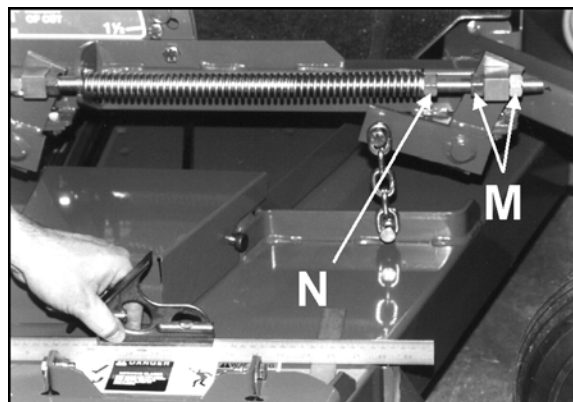


DECK LEVELING AND COUNTERBALANCE SPRINGS

- **Side Discharge:** The front of a side discharge deck should be slightly lower than the rear.
- **Mulching:** The front of a mulching deck should be slightly higher than the rear.

To level deck:

1. Park the machine on a smooth, level surface. The deck may be set to any cutting height.
2. Place a level on the deck, from front to rear. If the level is too short to reach all the way from front to rear, lay a straight edge on the deck first, then place the level on the straight edge.
3. Lay a 1/8" spacer beneath the front of the level for the side discharge and under the rear for mulching.
4. Adjust nuts **M** until the level's bubble is centered. Repeat for the other side of the deck.



Adjust Counterbalance springs:

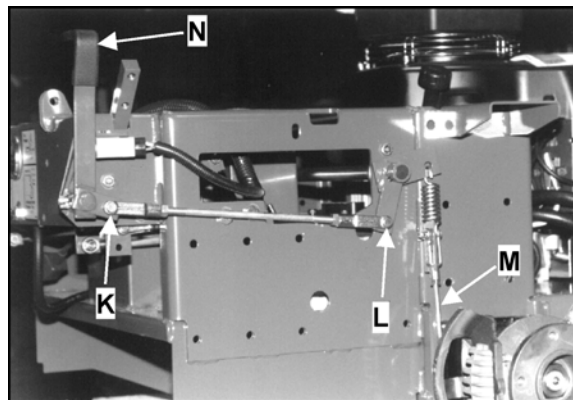
Raise the cutterdeck all the way. Adjust the spring with nut **N** to a length of 13-1/4 inches (335 mm). The springs may be tightened or loosened from this point according to personal preference.

PARKING BRAKE

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

1. Adjust the parking brake rod to provide a distance of 14-3/16" between pin **K** and pin **L**.
2. Disconnect one end of rods **M** (at brakes on both sides of the machine).
3. Move the parking brake lever to the ON position.
4. 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**.
5. 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 (fuel tank, tire and deck not shown for clarity - brake in ON position).

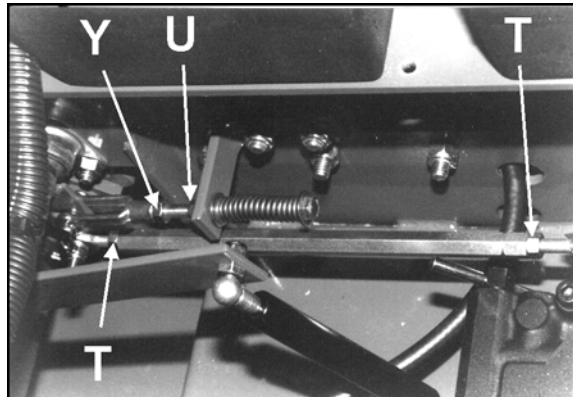
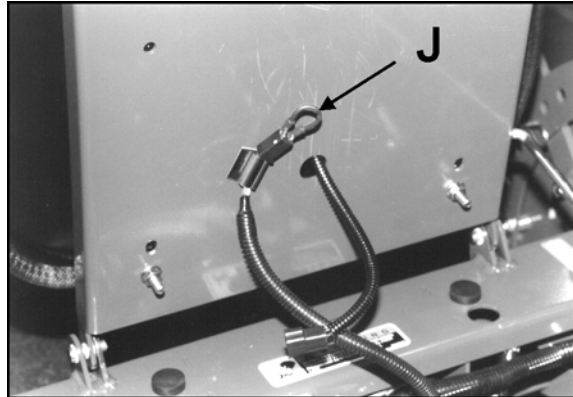


HYDROSTAT ADJUSTMENTS

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.



ZT 200 Series

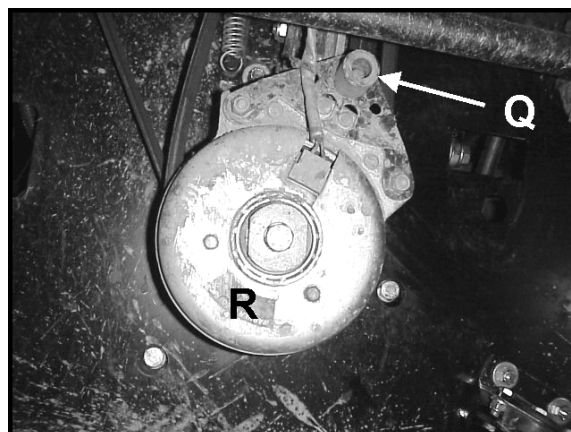
BELT REPLACEMENT

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 cutter deck pulley. Push belt back under engine deck.
3. Remove old belt from the machine.
4. Install a new belt by performing the these steps in reverse order.

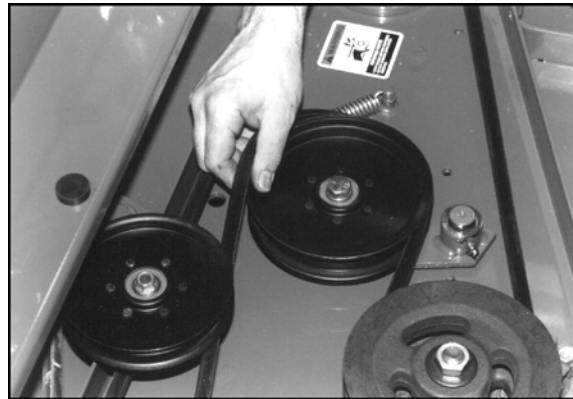
NOTE: If clutch and torque restraint are ever removed for maintenance, make sure when reinstalling carriage bolts securing torque restraint **Q** to clutch **R** to put the carriage bolts in facing the ground first through the clutch and then through the torque restraint and secure them with the nuts as shown.





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. Reinstall engine-cutterdeck belt (see engine-cutterdeck belt replacement).



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. Reinstall engine-cutterdeck belt (see engine-cutterdeck belt replacement).





POWER UNITS

ENGINES :

Construction: Aluminum block with cast-in sleeves. Aluminum head, metal gasket.

Configuration: 4-stroke, vertical shaft, V-twin cylinder, overhead valve, liquid-cooled indirect injection diesel.

DRIVE SYSTEM:

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

Pump: Hydrogear BDP-10L 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.

CONTROLS:

Throttle; 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 9-1/2 gallons (40 liters). Fuel selector/shutoff switch on front panel (1/4 turn). Replaceable fuel filter.

MAXIMUM GROUND SPEEDS:

Forward: 8 mph (12.9 km/h)

Reverse: 4 mph (6.4 km/h)

WHEELS & TIRES:

Drive wheels: 23x10.50-12 4-ply turf tread tires

Casters: 13x5.00-6 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, suspension with standard armrests. Fore and aft adjusters, hinged for easy tilt-up access to pumps and battery. Prop rod to hold in up position. Internally mounted seat switch.

WEIGHT:

1100 lbs (499 kg) with 61" cutterdeck.

SPECIFICATIONS

**ZT 200
Series**



ENGINES	
MODEL NUMBERS	942208, 942209
MANUFACTURER	Yanmar
MODEL	2V78
CYLINDERS	2
COOLING	Liquid
BORE/STROKE	3.07 X 3.09 (78 X 78.4mm)
DISPLACEMENT	46 cu.in. (749 cc)
COMPRESSION	23:1
OUTPUT POWER	20 hp (14.95 kw) @ 3600 rpm
OUTPUT TORQUE	32.5 ft-lb (44 J) @ 2400 rpm
LUBRICATION	FULL PRESSURE
GOVERNOR	Mechanical
AIR CLEANER	Dry Type with Evacuator Valve
CHARGING SYSTEM	20 amp, regulated
BATTERY	BCI group U1
FUSES	Three, 10, 20 , 30 amp blade
FUEL CONSUMPTION @ MAX LOAD/ SPEED	1.20 gal./hr (4.6l/hr)

FLUID CAPACITIES	QUANTITY	TYPE	FILTER
FUEL	9.5 gal. (40 l)	See Chart on Following Page	REPLACEABLE
ENGINE OIL	2.4 qts (2.27 l) YANMAR	See Chart on Following Page	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



ZT 200 Series

SPECIFICATIONS

Destination				Standard			Cold Region	Extremely Cold Region
Ambient Temperature: °C				> -5	-5 ~ -15	-5 ~ -20	-20 ~ -25	< -30
12V/1.0 kW Starting Motor				○	○	○	○	○
Battery	Type	Cold Cranking Current: A		○	○	○	○	○
	JIS 55B24	433						
	SAE 24R — 440	440						
	27H — 435	435						
Standard Glow Plug : 15 ~ 20 sec.					○	○	○	○
Super Quick Glow Plug (Option) : 3 sec.						△	△	△
Block Heater (Option) : 115 VAC/400 W								○
Diesel fuel	Japan	JIS K2204		Grade 2	Grade 3		Special Grade 3	
	U.S.A.	ASTM D975		2 — D	1 — D			
	Canada	CAN/CGSB — 3.6 — M88		B	A		A or AA	
	France	NF — M15 — 007		Gas oil				
	Germany	DIN 51 601		DK				
	UK	BS 2869		Class A1				
	Sweden	SS 155432		Dieselbrannolja				
Lubricating oil	Viscosity	SAE J — 300C		10W — 30			5W — 20	
	Grade	(*1) API	Japan	CC				
				CD				
			U.S.A. Canada	CC, CD or CF				
				CD, CF				
		(*2) ACEA	France Germany UK Sweden	≥ACEA-B1 (API-CC, CD or CF)				
				≥ACEA-E1 (API-CD, CF)				
	(*1) API : American Petroleum Institute (*2) ACEA : Association of European Automotive Manufacturers							



CUTTERDECKS		
MODEL NUMBER	942208	942209
TYPE	Side Discharge	Side Discharge
CUTTING WIDTH	52.5" (133 cm)	61" (155 cm)
WIDTH	N/A	N/A
WIDTH (CHUTE UP)	56.25" (143 cm)	62" (157 cm)
WIDTH (CHUTE DOWN)	64.5" (164 cm)	73" (185 cm)
CUTTING UNIT	One high lift blade (low lift optional)	One high lift blade (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	15694 ft/min 4784 m/min	18310 ft/min 5580 m/min
DAILY PRODUCTION (8 hr @ 6 mph)	Up to 25.5 acres (10.3 ha)	Up to 29.5 acres (11.9 ha)

CONSTRUCTION:

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

CUTTER DECK 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, ductile iron housing

ANTI-SCALP ROLLERS:

61" Cutterdecks - 6 Rollers
52" Cutterdecks - 5 Rollers

CUTTING HEIGHT & PRODUCTION:

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



ZT 200 Series

FASTENER TORQUES

CAUTION

All torque values included in these charts are approximate and are for reference only. Use of these torque values is at your sole risk. Textron Turf Care And Specialty Products is not responsible for any loss, claim, or damage arising from the use of these charts. **Extreme caution should always be used when using any torque value.**

Textron Turf Care And Specialty Products uses Grade 5 or Grade 8.8 Plated bolts as standard, unless otherwise noted. For tightening plated bolts, use the value given for lubricated.

AMERICAN NATIONAL STANDARD FASTENERS											
SIZE	UNITS					SIZE	UNITS				
		LUBRICATED	DRY	LUBRICATED	DRY			LUBRICATED	DRY	LUBRICATED	DRY
6-32	in-lbs (Nm)	--	20 (2.3)	--	--	7/16-14	ft-lbs (Nm)	37 (50.1)	50 (67.8)	53 (71.8)	70 (94.9)
8-32	in-lbs (Nm)	--	24 (2.7)	--	30 (3.4)	7/16-20	ft-lbs (Nm)	42 (56.9)	55 (74.6)	59 (80.0)	78 (105.0)
10-24	in-lbs (Nm)	--	35 (4.0)	--	45 (5.1)	1/2-13	ft-lbs (Nm)	57 (77.2)	75 (101.0)	80 (108.0)	107 (145.0)
10-32	in-lbs (Nm)	--	40 (4.5)	--	50 (5.7)	1/2-20	ft-lbs (Nm)	64 (86.7)	85 (115.0)	90 (122.0)	120 (162.0)
12-24	in-lbs (Nm)	--	50 (5.7)	--	65 (7.3)	9/16-12	ft-lbs (Nm)	82 (111.0)	109 (148.0)	115 (156.0)	154 (209.0)
1/4-20	in-lbs (Nm)	75 (8.4)	100 (11.3)	107 (12.1)	143 (16.1)	9/16-18	ft-lbs (Nm)	92 (124.0)	122 (165.0)	129 (174.0)	172 (233.0)
1/4-28	in-lbs (Nm)	85 (9.6)	115 (11.3)	120 (13.5)	163 (18.4)	5/8-11	ft-lbs (Nm)	113 (153.0)	151 (204.0)	159 (215.0)	211 (286.0)
5/16-18	in-lbs (Nm)	157 (17.7)	210 (23.7)	220 (24.8)	305 (34.4)	5/8-18	ft-lbs (Nm)	128 (173.0)	170 (230.0)	180 (244.0)	240 (325.0)
5/16-24	in-lbs (Nm)	173 (19.5)	230 (26.0)	245 (27.6)	325 (36.7)	3/4-10	ft-lbs (Nm)	200 (271.0)	266 (360.0)	282 (382.0)	376 (509.0)
3/8-16	ft-lbs (Nm)	23 (31.1)	31 (42.0)	32 (43.3)	44 (59.6)	3/4-16	ft-lbs (Nm)	233 (302.0)	298 (404.0)	315 (427.0)	420 (569.0)
3/8-24	ft-lbs (Nm)	26 (35.2)	35 (47.4)	37 (50.1)	50 (67.8)	7/8-14	ft-lbs (Nm)	355 (481.0)	473 (641.0)	500 (678.0)	668 (905.0)

METRIC FASTENERS										
SIZE	UNITS									Non Critical Fasteners into Aluminum
		LUBRICATED	DRY	LUBRICATED	DRY	LUBRICATED	DRY	LUBRICATED	DRY	
M4	Nm (in-lb)	-	-	-	-	-	-	3.83 (34)	5.11 (45)	2.0 (18)
M5	Nm (in-lb)	1.80 (16)	2.40 (21)	4.63 (41)	6.18 (54)	6.63 (59)	8.84 (78)	7.75 (68)	10.3 (910)	4.0 (35)
M6	Nm (in-lb)	3.05 (27)	4.07 (36)	7.87 (69)	10.5 (93)	11.3 (102)	15.0 (133)	13.2 (117)	17.6 (156)	6.8 (60)
M8	Nm (in-lb)	7.41 (65)	9.98 (88)	19.1 (69)	25.5 (226)	27.3 (241)	36.5 (323)	32.0 (283)	42.6 (377)	17.0 (150)
M10	Nm (ft-lb)	14.7 (11)	19.6 (14)	37.8 (29)	50.5 (37)	54.1 (40)	72.2 (53)	63.3 (46)	84.4 (62)	33.9 (25)
M12	Nm (ft-lb)	25.6 (19)	34.1 (25)	66.0 (48)	88.0 (65)	94.5 (70)	125.0 (92)	110.0 (81)	147.0 (108)	61.0 (45)
M14	Nm (ft-lb)	40.8 (30)	54.3 (40)	105.0 (77)	140.0 (103)	150.0 (110)	200.0 (147)	175.0 (129)	234.0 (172)	94.9 (70)

SPECIFIC TORQUES

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

WHEEL HUB NUTS: 175 FT-LBS (237 Nm)

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

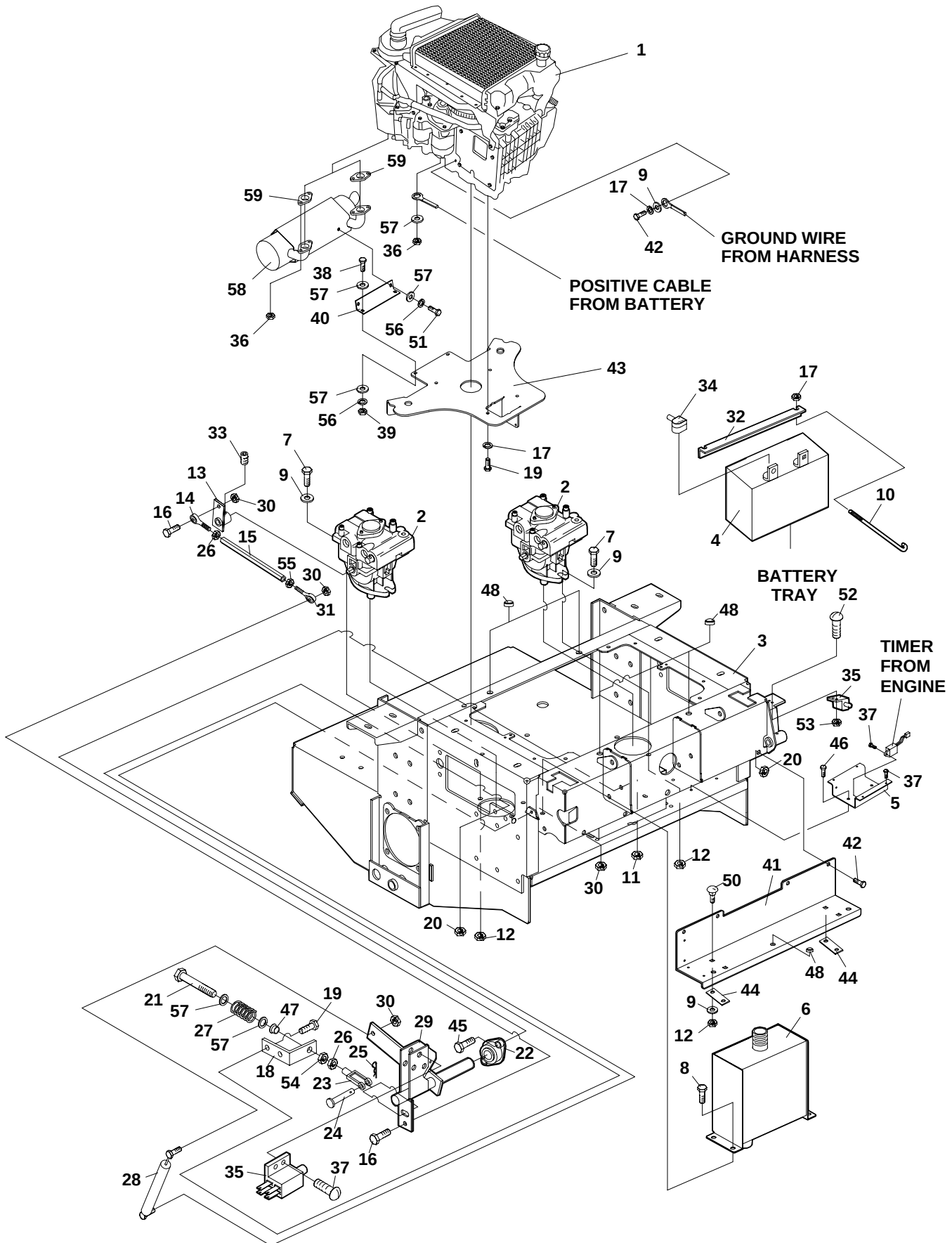
ENGINE MOUNTING BOLTS: 30 FT-LBS (68 Nm)

UPPER ENGINE DECK ASSY

ZT 220D
Series



FIGURE 1





ZT 220D Series

2721543-01

UPPER ENGINE DECK ASSY

FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	2720883	ENGINE YANMAR 2V78 (SERVICE MANUAL YANMAR #49961-101251)	1	1-44	2188146	STRIP, WEAR	2
1-2	38345	PUMP-BDP 10L-119 (SEE PAGES 24-25 FOR BREAKDOWN)	2	1-45	64123-15	BLT-HEX 3/8-16 X 3/4	8
1-3	2720996	S-ENGINE DECK WLABS	1	1-46	64152-23	SCREW 1/4-20X3/8	2
1-4	148074	BATTERY	1	1-47	38304-02	S BRG FLGD PLASTIC	2
1-5	2721530.7	BRACKET-RELAY	1	1-48	810149	BUMPER-RUBBER	7
1-6	2186211	S HYD RESERVOIR W/LAB	1	1-49	69051-01	PLUG-PIPE 3/8"	1
1-7	A110406	BLT-METRIC M10-1.5 X 30	4	1-50	64243-02	BLT-CRG M10-1.5 X 20	4
1-8	64197-016	BLT-TR 3/8-16X1 1/2	4	1-51	64205-001	BLT-METRIC M8-1.25 X 20	2
1-9	64251-004	WSHR-M10	9	1-52	64152-46	SCR-SLT HH #10-24	2
1-10	806953	BOLT-BATTERY HOOK	2	1-53	64025-15	NUT-HEX #10-24 KEPS	2
1-11	64141-4	NUT-WLF 3/8-16	8	1-54	64229-08	LOCKNUT-NYLON 5/16-24	2
1-12	64237-03	LOCKNUT-NYLON M10-1.5	12	1-55	64025-33	NUT-5/16-24 LH	2
1-13	2186171.7	WLDMT-PUMP ARM	2	1-56	64006-02	LOCKWSHR-HELICAL 5/16	4
1-14	38369-02	ROD END BALL JOINT	2	1-57	64163-55	WSHR .328X.75X14 GA	11
1-15	2188140	TURNBUCKLE	2	1-58	2720884	MUFFLER-YANMAR 2V78	1
1-16	64205-003	BLT-MET M8-1.25 X 30	4	1-59		GASKET-MUFFLER	2
1-17	800488	LOCK WASHER M10	5			(OBTAIN THROUGH YANMAR DEALER)	
1-18	2182405.7	BRKT-REVERSE RETURN	2				
1-19	A1104057	BLT-M10-1.50 X 25	8				
1-20	64246-03	WIZ NUT-MET. M10-1.5	8				
1-21	64123-205	BLT-HEX 5/16-24 X 4	2				
1-22	2188145	BEARING-SELF ALIGNED	4				
1-23	38020N	CLEVIS-YOKE PLATE	2				
1-24	64188-02	PIN-CLEVIS 5/16 X 1	2				
1-25	64168-2	HAIRPIN COTTER	2				
1-26	64025-03	NUT-HEX 5/16-24	4				
1-27	2188139	SPRING-COMPRESSION	2				
1-28	2721246	DAMPENER	2				
1-29	2186168.7	WLDMT-TRACTN CTRL RH	1				
	* 2186167.7	WLDMT-TRACTN CTRL LH	1				
1-30	64237-05	LOCKNUT-NYLON M8-1.25	8				
1-31	38369-01	ROD END BALL JOINT	2				
1-32	2182427.7	HOLD DOWN, BATTERY	1				
1-33	64192-03	SETSCR SQHD 5/16-24X5/8	2				
1-34	48037A	BOOT-BATTERY TERMINAL	1				
1-35	108208	SWITCH, DBL POLE	3				
1-36	64246-02	NUT-WLF M8-1.25	5				
1-37	64197-015	BLT-TDFM #10-32X1/2 TRX	6				
1-38	A1103051	BOLT-M8-1.25 X 25	2				
1-39	64207-01	NUT-M8-1.25	6				
1-40	2720867.7	BRACKET MUFFLER	1				
1-41	2182404.7	PLATE, KICK	1				
1-42	64205-007	BLT-M10-1.5 X 20	5				
1-43	2720865.7	PLATE-ENGINE MOUNT	1				

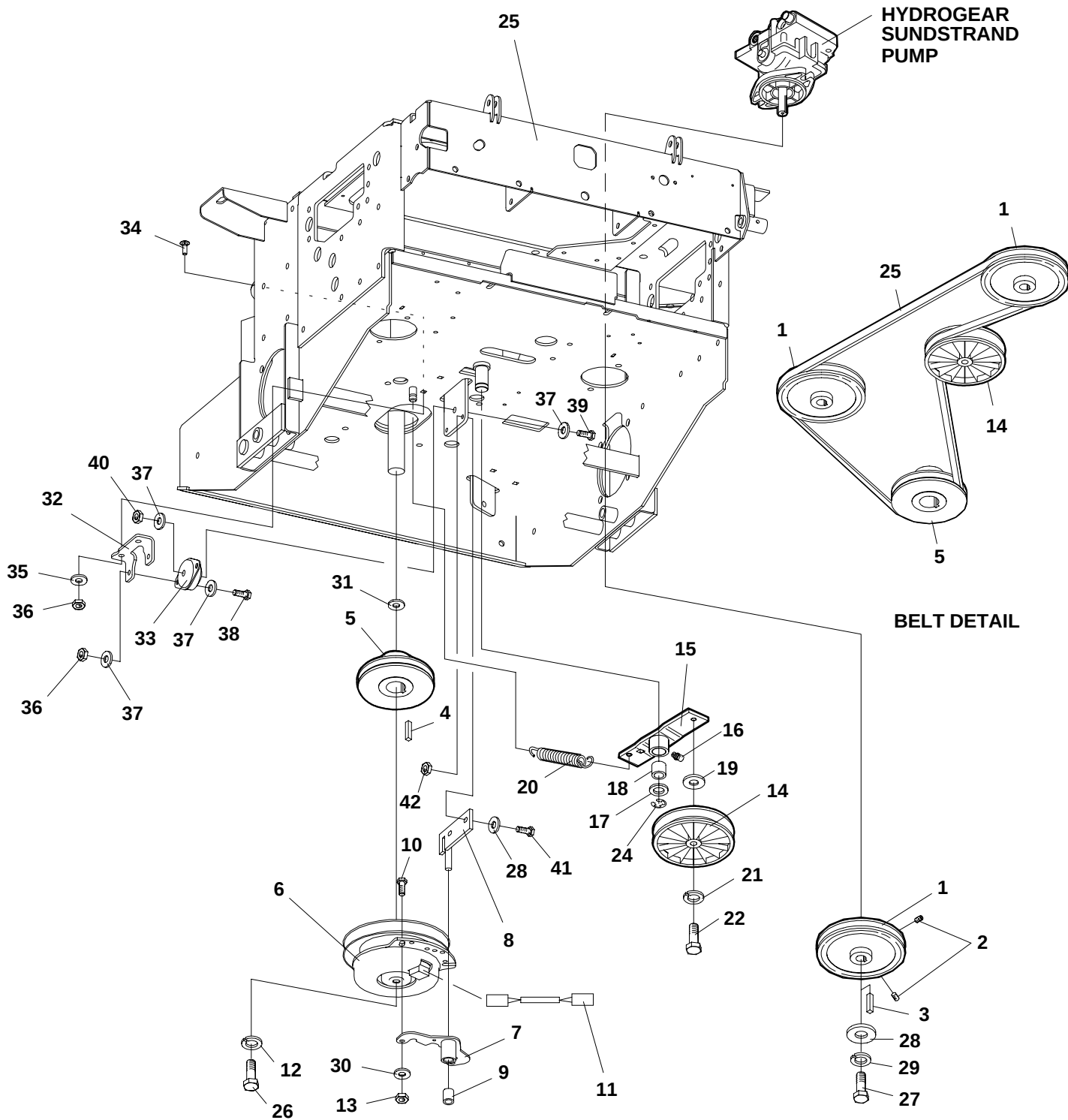
*NOT ILLUSTRATED

LOWER ENGINE DECK ASSY

ZT 220D
Series



FIGURE 2





ZT 220D Series

2721543-02

LOWER ENGINE DECK ASSY

FIGURE 2

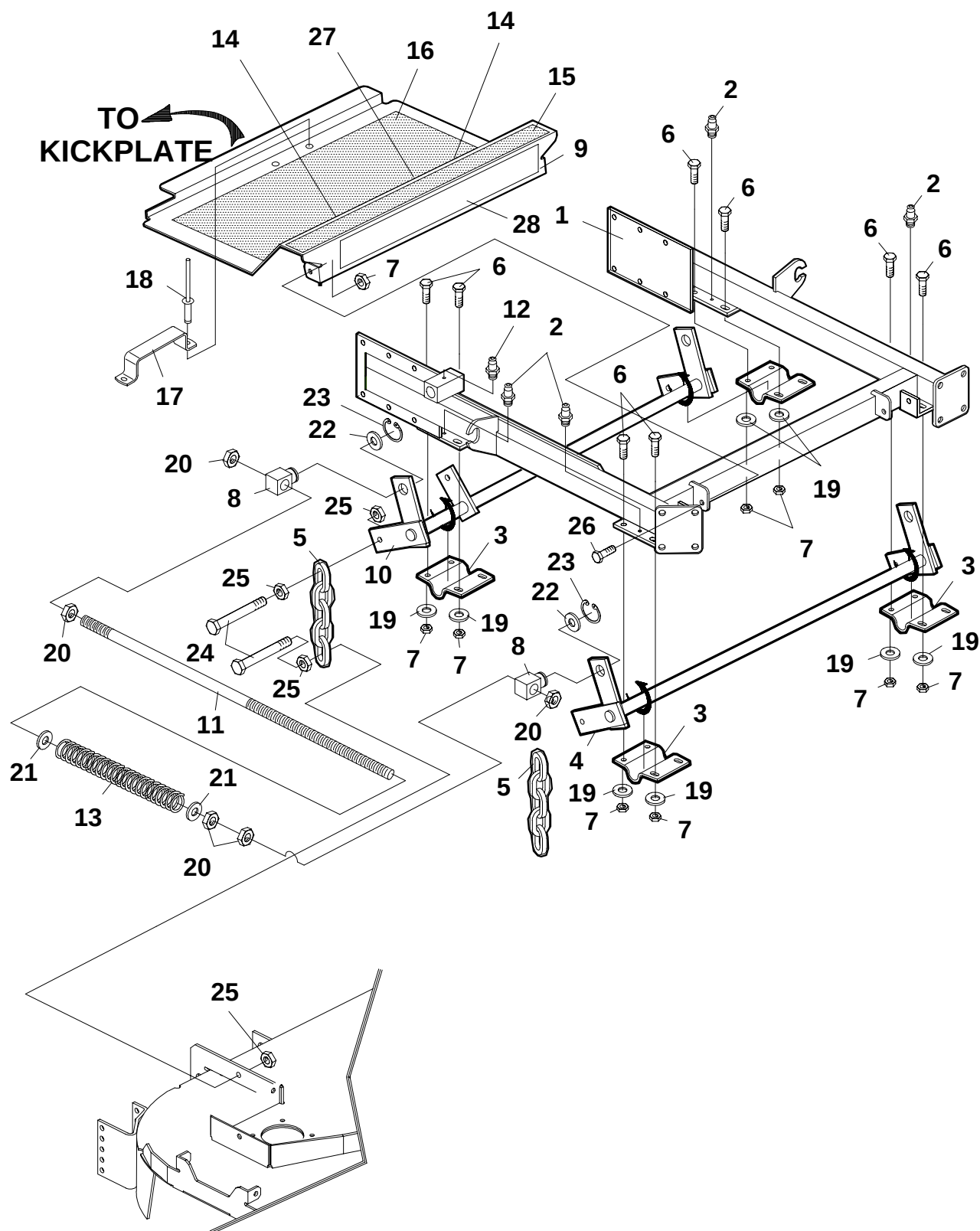
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	2308148	PUMP-PULLEY	2				
2-2	64044-18	SCREW-SET 5/16-18 X 5/16 (LOCTITE SET SCREWS IN PLACE)	4				
2-3	64238-03	KEY-MTRC 5mm SQ X 28mm	2				
2-4	64164-12	1/4X1/4X1 SQ END KEY	1				
2-5	2188188	PULLEY-4.25 ENGINE	1				
2-6	2721337	CLUTCH-ELECTRIC (INCLUDES 2720949 WIRE ASSY)	1				
2-7	2721338.7	WLDMT-CLUTCH STOP	1				
2-8	2720868.7	WLDMT-CLUTCH BRACKET	1				
2-9	38304-03	BEARING-PLASTIC	1				
2-10	64205-001	BLT-METRIC M8-1.25X20	2				
2-11	2720949	ASSY-CLUTCH WIRE	1				
2-12	800488	LCKWSHR-HELICAL M10	1				
2-13	64237-05	LOCKNUT-NYLON M8-1.25	2				
2-14	2308000	PULLEY-IDLER 4.00 E.O.D.	1				
2-15	2306082.7	WLDMT-IDLER ARM (INCLUDES ITEMS 16 & 18)	1				
2-16	35027N	ZERK FITTING	1				
2-17	64163-65	WASHER 18 GA	1				
2-18	65103A	BEARING-BUSHING	1				
2-19	33148-01	SPACER	1				
2-20	38219	SPRING-TENSION	1				
2-21	64006-03	LCKWSHR-HELICAL 3/8	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	2720880	BELT-PUMP DRIVE	1				
2-26	64205-019	BLT-METRIC M10-1.50 X 80	1				
2-27	64205-013	BLT-METRIC M6-1X12	2				
2-28	64163-34	WSHR.256/.267X1X11GA	4				
2-29	64006-01	LOCKWSHR-HELICAL 1/4	2				
2-30	64251-003	WASHER-M8	2				
2-31	64163-81	WASHER-1.140 X 2.0 X .25	1				
2-32	2720864.7	BRKT-ISOMOUNT	3				
2-33	2720863	MOUNT-ISO	3				
2-34	64018-15	BLT-CRG 5/16-18X1	6				
2-35	64163-29	21/64X1X11GA.WASHER	6				
2-36	64229-02	LOCKNUT-NYLON 5/16-18	12				
2-37	64163-55	WSHR.328X.75X14GA	12				
2-38	64123-54	BLT-HEX 5/16-18X3/4	6				
2-39	64205-008	BLT-METRIC M10-1.50 X 55	3				
2-40	64237-03	LOCKNUT-NYLON M10-1.5	3				
2-41	64205-025	BLT-METRIC M6-1.00X25	2				
2-42	64237-02	LOCKNUT-NYLON M6-1.00	2				

CRADLE ASSEMBLY

ZT 220D
Series



FIGURE 3





ZT 220D Series

2721543-03

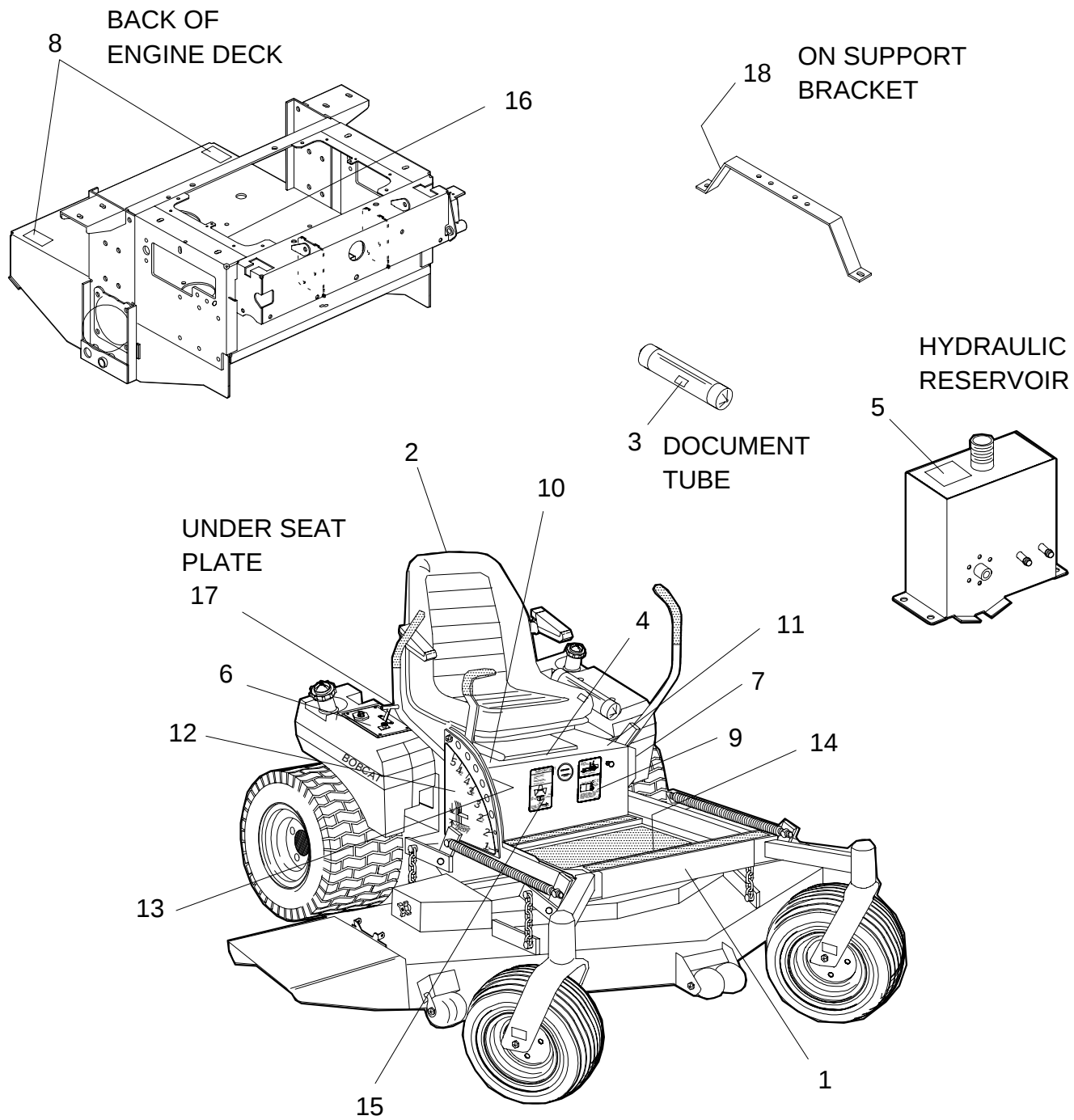
CRADLE ASSEMBLY

FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	2721076.7	WLDMT-CRADLE	1				
3-2	85051	ZERK	6				
3-3	2182356.7	BRKT-SHAFT HANGER	4				
3-4	2186120.7	WLDMT-DECK HANGER	1				
3-5	2188127	CHAIN-6.355 LINKS	4				
3-6	A1104057	BLT-M10-1.5X25	15				
3-7	64237-03	LCKNT-NYLN M10-1.5	17				
3-8	2188136	SWIVEL	4				
3-9	2186213	S FOOT PLATE	1				
	(INCLUDES ITEMS 14-18, 27, 28)						
3-10	2186130.7	WLDMT-RR DCK HNGR	1				
3-11	2183052	ROD-LIFT	2				
3-12	85010N	ZERK STRAIGHT FTTG	1				
3-13	2188133	SPRING-COMPRESSION	2				
3-14	2188165	MAT-ANGLE	2				
3-15	2188164	MAT-UPPER	1				
3-16	2188228	MAT-PLATFORM	1				
3-17	32418-03.7	HANDLE W/SLOT	1				
3-18	64215-07	RIVET-POPIFI #84	2				
3-19	64251-004	WASHER-M10	15				
3-20	64025-21	NUT-HEX 5/8-11	10				
3-21	64163-16	41/64X12 GA WSHR	4				
3-22	64163-65	WHSR .890X18 GA	4				
3-23	64221-04	E-RING .875	4				
3-24	64205-029	BLT-MET M12-1.75X50	8				
3-25	64246-04	NUT-WHIZ M12-1.75	16				
3-26	64205-007	BLT-MET. M10-1.5X20	2				
3-27	2000695	LABEL-WARNING	1				
3-28	2000785	LABEL-RED/WHITE STRIPE	1				



FIGURE 4





ZT 220D Series

2721543-04

DECALS

FIGURE 4

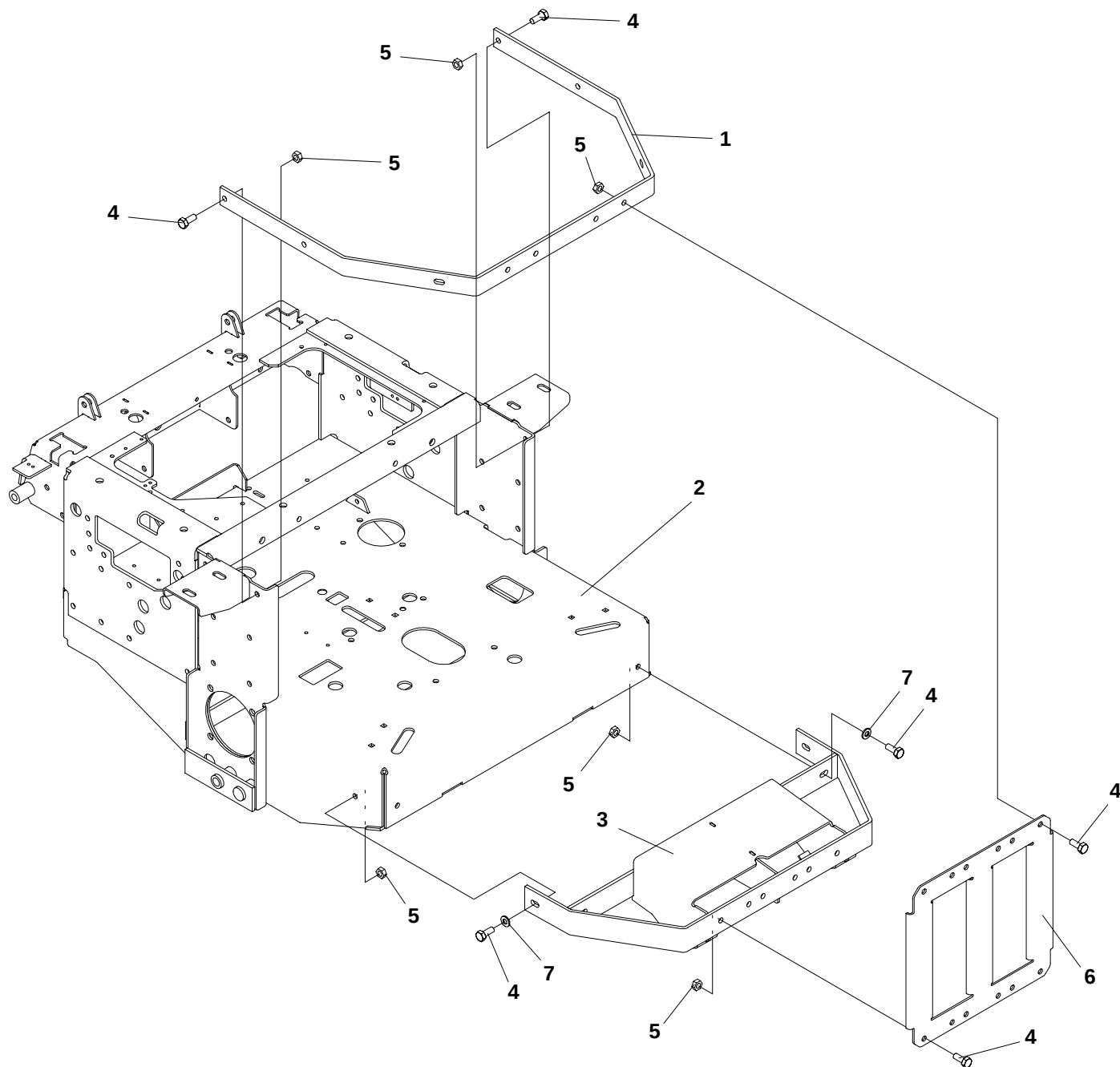
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	2000785	LABEL-RED/WHITE STRIPE	1				
4-2	2720994	LABEL-BOBCAT TEXTRON	1				
4-3	2000735	LABEL-OPER MAN	1				
4-4	2000590	LABEL, WARN BATTERY	1				
4-5	2000691	LABEL - HYDR OIL FILL	1				
4-6	2721060	LABEL-CONTROL PANEL	1				
4-7	2000693	LABEL - PARK BRAKE	1				
4-8	2000698	LABEL(DBL) - FUEL/LEAKS	2				
4-9	2000705	LABEL-TIRES	1				
4-10	2000700	LABEL - RH TRACTION	1				
4-11	2000701	LABEL - LH TRACTION	1				
4-12	2720742	LABEL-HT CUT OUTER	1				
4-13	2720743	LABEL-HT CUT INNER	1				
4-14	2000695	LABEL - WARN/USING	1				
4-15	2000706	LABEL-FUEL	1				
4-16	2721099	LABEL-FUSE	1				
4-17	2721626	LABEL-FUEL LINE BLEED	1				
4-18	365956	LABEL-RADIATOR	1				

BUMPER

ZT 220D
Series



FIGURE 5





ZT 220D Series

2721543-05

BUMPER

FIGURE 5

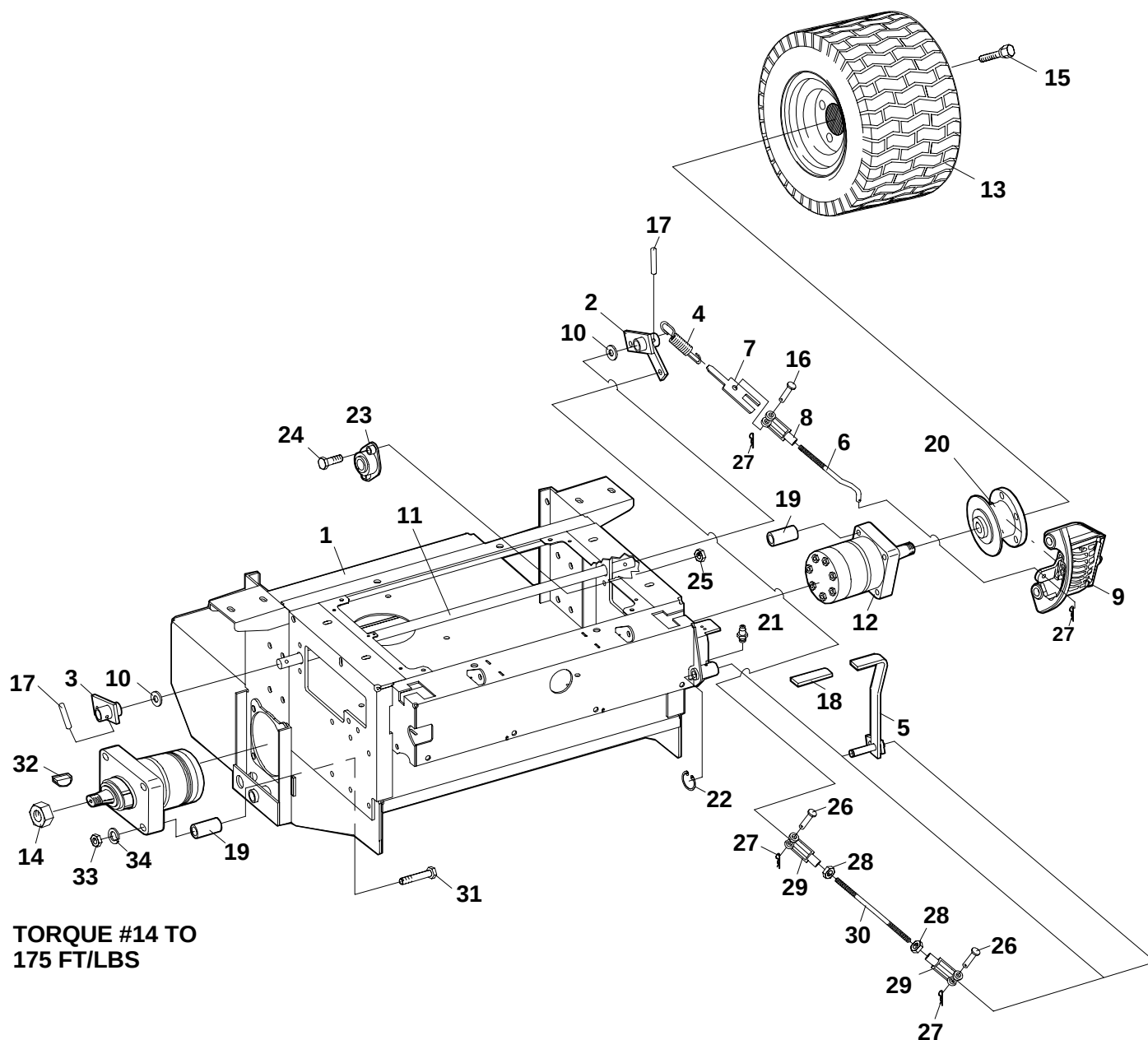
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	2721325.7	BUMPER-UPPER	1				
5-2	2720996	S-ENG DECK W/LABS	1				
5-3	2721324.7	WLDMT-BUMPER	1				
5-4	A1104057	BLT-METRIC M10-1.5 X 25	14				
5-5	64237-03	LOCKNUT-NYLON M10-1.5	14				
5-6	2182442.7	BRACE-VERTICAL	1				
5-7	64251-004	WASHER-METRIC M10	4				

BRAKES/REAR WHEEL

ZT 220D
Series



FIGURE 6





ZT 220D Series

2721543-06

BRAKES/REAR WHEEL

FIGURE 6

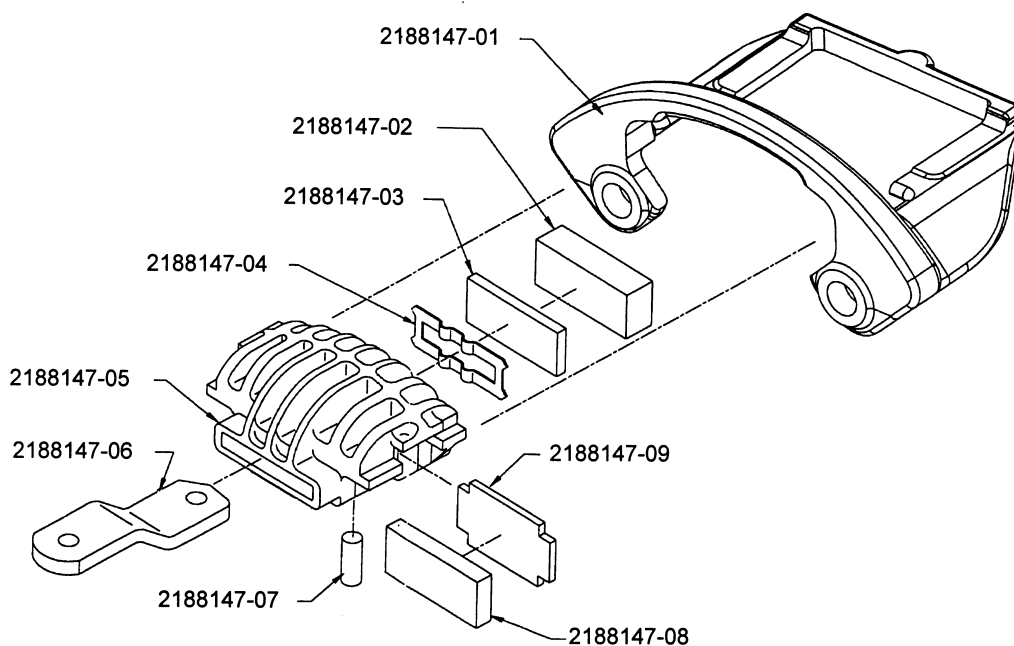
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1	2720996	S ENGINE DECK WLABS	1	6-24	64123-15	BLT-HEX 3/8-16X3/4	4
6-2	2186128.7	WLDMT-BRAKE ARM LH	1	6-25	64141-4	NUT-WLF 3/8-16	4
6-3	2186142.7	WLDMT-BRAKE ARM RH	1	6-26	64188-03	S PIN CLEVIS 3/8X1 1/8	2
6-4	128102	SPRING-EXTENSION	2	6-27	64168-2	HAIRPIN COTTER	6
6-5	2186143.7	WLDMT-BRAKE ARM LVR	1	6-28	64025-04	NUT-HEX 3/8-24	2
6-6	33213	ROD-SPD CTRL LH UPPER	2	6-29	38020-01	CLEVIS YOKE 3/8 PLATE	2
6-7	2182387.7	GUIDE-SPRING	2	6-30	2183064	ROD, BRAKE	1
6-8	38020N	CLEVIS-YOKE PLATE	2	6-31	450766	CAPSCRWM12-1.75X100	8
6-9	2188147	ASSY BRAKE CW (LH)	1	6-32	64164-08	S-KEY / WHEEL MOTOR	2
	* 2188148	ASSY BRAKE CCW (RH)	1	6-33	64207-07	NUT-HEX M12-1.75	8
6-10	64163-06	WSHR-.768-.756 ID X14 GA	2	6-34	64006-05	LCKWHSR-HELICAL 1/2	8
6-11	2183056	SHAFT-BRAKE	1				
6-12	2188126-01	MOTOR-ASSY HYDRAULIC (INCLUDES ITEMS 14 & 32)	2				
6-13	2198156-01	RIM ASSY W/VALVE STEM	2				
	2198156-02	TIRE 23 X 10.5 X 12	2				
6-14	64025-31	NUT1-20 UNSLOTTED TRW	2				
6-15	64220-02	BOLT-WHEEL 7/16-20	10				
6-16	64188-02	PIN-CLEVIS 5/16X1	2				
6-17	64061-25	ROLL-PIN 1/4X1 1/4	2				
6-18	2188155	GRIP, 1/4X1X4 1/2	1				
6-19	2183063-01	SPACER, 32MM LONG	8				
6-20	2188149	HUB-WHL & DISC	2				
6-21	85010N	STRAIGHT ZERK FITTING	1				
6-22	64144-34	SNAP RING .50	1				
6-23	2188145	BRG-.75 ID BRNZ SLF ALIGN	2				

SERVICE PARTS FOR 2188147 AND 2188148

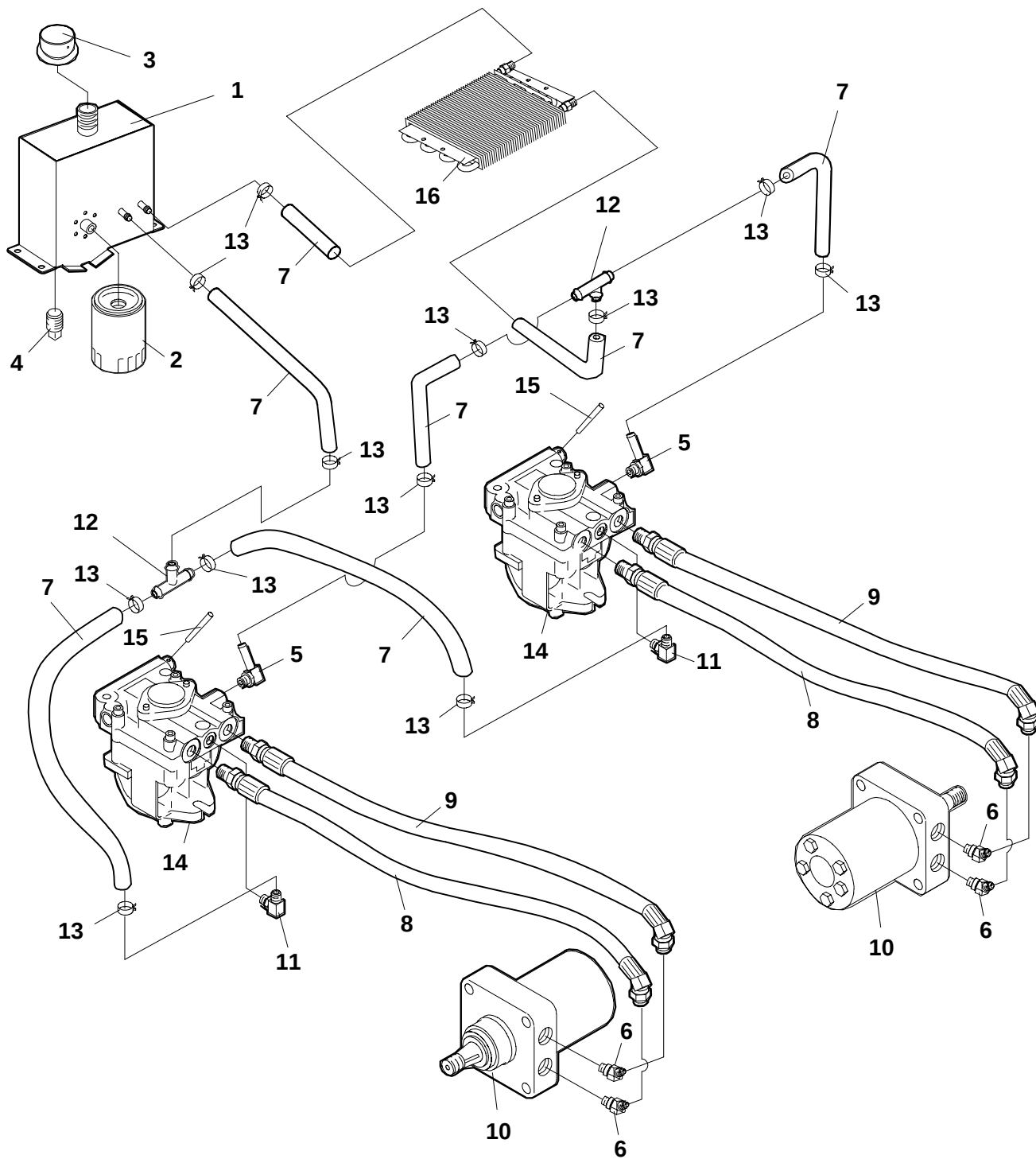
	BRAKE ASSEMBLIES	QTY/ASSY
2188147-01	BRACKET-MACHINED	1
2188147-02	PAD-CAM SIDE	1
2188147-03	PAD-SUPPORT	1
2188147-04	SPRING-LEVER RETAINER	1
2188147-05	HOUSING	1
2188147-06	CAM LH	1
2188147-07	PIVOT PIN	1
2188147-08	PAD-CARRIER SIDE	1
2188147-09	PAD-SUPPORT	1
2188148-01	*CAM RH	1

* NOT ILLUSTRATED

BRAKE ASSEMBLY BREAKDOWN



A stylized black and white logo of a cat's head, facing forward with a slightly grumpy expression. The cat has pointed ears, whiskers, and a small nose. It is framed by a thick, black, diamond-shaped border. The entire logo is set against a white background.





ZT 220D Series

2721543-07

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
7-7	69053	3/8 HIGH TEMP HOSE .920 FT	
	69053	3/8 HIGH TEMP HOSE .750 FT	
	69053	3/8 HIGH TEMP HOSE .920 FT	
	69053	3/8 HIGH TEMP HOSE .920 FT	
	69053	3/8 HIGH TEMP HOSE 2.84 FT	
	69053	3/8 HIGH TEMP HOSE 2.50 FT	
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	158058-07	FTG-90 BARB ADJ	2
7-12	58026-01	3 WAY CONNECTOR 3/8	2
7-13	88042-04	CLAMP-HOSE 5/8	12
7-14	38345	PUMP-BDP 10L-119	2
7-15	64252-01	PIN-TAPER	2
7-16	2188173	OIL-COOLER	1

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





ZT 220D Series

2187031

HYDROGEAR PUMP

FIGURE 8

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
HYDROGEAR-SUNSTRAND MODEL BDP-10L-119							
A	38345-12	S-SUN 2513009 CYL KIT	1				
B	38345-05	S-SUN 2510011 CRLF-KIT	1				
C	38345-02	S-SUN 2510008 VAL-KIT	1				
(C)	38345-03	S-SUN 2510027 CKV-KIT	1				
D	38345-13	S-SUN 2513016 ECAP KIT	1				
F	38345-04	S-SUN 2513017 HSG-KIT	1				
(INCLUDES ITEM 39)							
8-4	38345-11	S-SUN 9007314-0810 SHS	4				
8-5	38345-14	S GASKET-HSG 2003067	1				
8-6	38345-06	S-SUN 2003040 CRG-KIT	1				
8-7	38345-07	S-SUN J1041008 GRT ASY	1				
8-8	38345-08	S-SUN 9004101-1340 OR	1				
8-10	38345-10	S-SUN 9007375-0035 SHS	2				
8-18	38345-09	S-SUN J1030673 SHAFT	1				
8-32	188059-11	S SWPLT-VAR 2003087	1				
8-37	188059-15	S ARM TRUNN 2003005	1				
8-38	188059-9	S GUIDE-SLOT 2000015	1				
8-39	188059-14	S BRG TRUNN 2003009	1				
8-47	188059-13	S BRG CRDL J1040976	1				
38345-01 S-SUN 2513018 S-KIT			1				
(CONTAINS ITEMS 5, 8, 13, 16, 17, 20, 23,& 40)							
8-48 *	38345-10	S SUN 2003067 GASKET	A/R				
PARTS NOT SERVICED BY TEXTRON TURF CARE AND SPECIALTY PRODUCTS, SEE HYDROGEAR-SUNSTRAND DEALER:							

ITEM	HYDROGEAR-SUNSTRAND P/N
8-3	9004800-2506
8-15	4460547-001
8-19	2003043
8-21	2003018
8-24	2003071
8-34	2003044
8-47	J1040976

*NOT ILLUSTRATED



2721543-09

FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
9-1	2720866	HARNESS-WIRING (INCLUDES ITEMS 2, 19, 20 & 21)	1				
9-2	148082-20	FUSE-20 AMP	1				
9-3	2218089	CABLE-BATTERY	1				
9-4	158135-01	SWITCH-SEAT NO	1				
9-5	158136	WIRE-SEAT SWITCH	1				
9-6	48030N	HOUR METER ASSY	1				
9-7	2198092	CABLE-GROUND	1				
9-8	2721126	KEY-SWITCH W/BEZEL	1				
9-9	128037	RELAY	8				
9-10	2188154	MODULE-DELAY	1				
9-11	2188153	SWITCH-CLUTCH	1				
9-12	2721337	CLUTCH (INCLUDES ITEM 27)	1				
9-13	2188172	HARNESS-JUMPER	2				
9-14	108208	SWITCH-DBL POLE	3				
9-15	2720886	TEMP-GAUGE	1				
9-16	2720887	TEMP-SENDER	1				
9-17	2198089	LAMP HOLDER (INCLUDES QTY 2 OF ITEM 18)	1				
9-18	178092-22	LAMP	2				
9-19	148082-10	FUSE-10 AMP	1				
9-20	148082-30	FUSE-30 AMP	1				
9-21	1003416	DIODE	4				
9-22	188015	LENS-OIL PRESSURE	1				
9-23	2198088	LENS-BATTERY	1				
9-24		FUEL PUMP (AVAILABLE THROUGH YANMAR DEALER)	1				
9-25	48524	CIRCUIT BREAKER	1				
9-26	2721059	CABLE-CIRCUIT BREAKER	1				
9-27	2720949	WIRE-ASSEMBLY CLUTCH	1				
9-28	38382	SWITCH-NO	1				

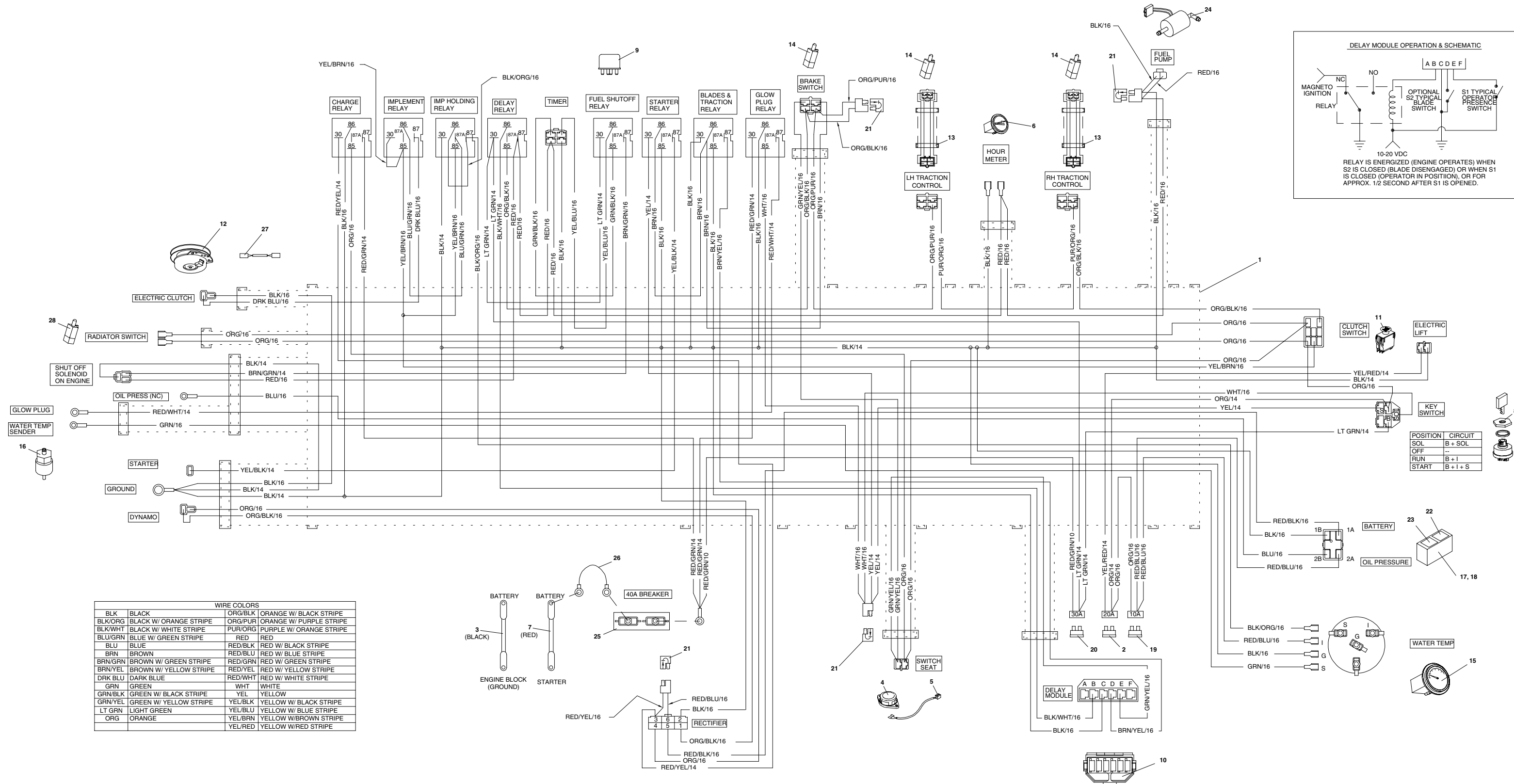


ZT 220D Series

2721543-09

YANMAR WIRE HARNESS

FIGURE 9

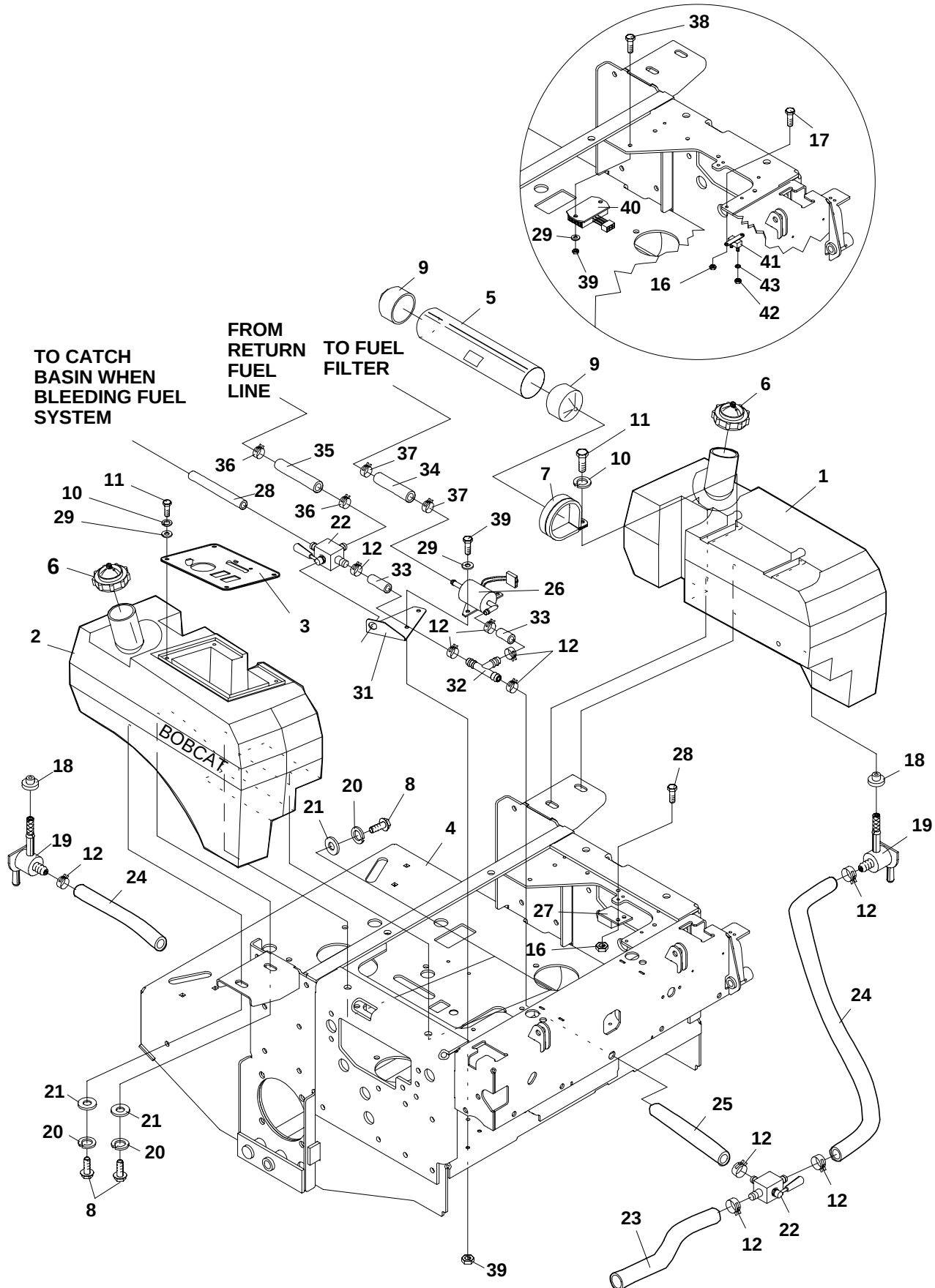


FUEL TANKS/CONTROL PANEL

ZT 220D
Series



FIGURE 10





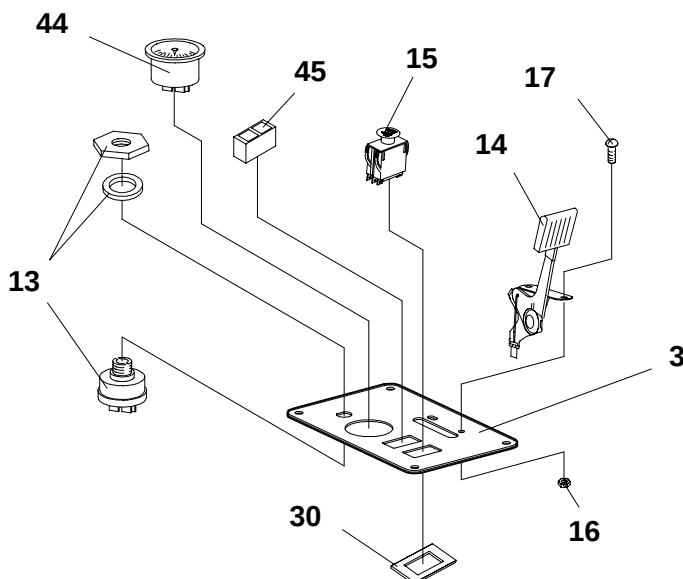
ZT 220D Series

2721543-10

FUEL TANKS/CONTROL PANEL

FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	2721489	TANK-FUEL LH (INCLUDES ITEMS 18 & 19)	1	10-25	48016-11A	HOSE 1/4IDX1/2OD X 18.0"	1
10-2	2721490	TANK-FUEL RH (INCLUDES ITEMS 18 & 19)	1	10-26		FUEL PUMP (AVAILABLE THROUGH YANMAR DEALER)	1
10-3	2721028	S-CONTROL PANEL W/LAB	1	10-27	2188154	MODULE-DELAY	1
10-4	2720996	S-ENG DECK W/LABS	1	10-28	158122-02	TUBING-SIGHT GLASS 9.0"	1
10-5	2306144	S-DOC TUBE W/LABS	1	10-29	64163-03	WSHR-FLT 0.256ID X 18 GA	8
10-6	2721806	CAP-FUEL TANK	2	10-30	2188178	SWITCH-RETAINER	1
10-7	38542	CLAMP-DOC TUBE	2	10-31	2721581.7	BRACKET-FUEL PUMP	1
10-8	64205-007	BLT-MET. M10-1.5 X 20	8	10-32	58026	3-WAY CONNECTOR 1/4"	1
10-9	38061A	SPINDLE-SHIELD	2	10-33	48016-13A	HOSE-25 ID X 0.50 OD X 2.0"	2
10-10	64006-01	LCKWSHR-HELICAL 1/4	6	10-34	148263-10	HOSE-FUEL 5/16-30.0"	1
10-11	A1102966	BLT-M6-1.00 X 16	6	10-35	148263-10	HOSE-FUEL 5/16-42.0"	1
10-12	88042N	HOSE CLAMP	11	10-36	88042-01	CLAMP-HOSE 3/16	2
10-13	2721126	KEY-SWITCH	1	10-37	88042-02	CLAMP-HOSE 5/16	2
10-14	118020-15	CONTROL-THROTTLE	1	10-38	64205-025	BLT-METRIC M6-1.00 X 25	4
10-15	2188153	SWITCH-CLUTCH	1	10-39	64237-02	LOCKNUT-NYLON M6-1.00	4
10-16	64025-15	NUT-HEX #10-24 KEPS	7	10-40	48524	CIRCUIT BREAKER	1
10-17	64152-46	SCR.-SLT HH #10-24 X 1/2	7	10-41		RECTIFIER (AVAILABLE THROUGH YANMAR DEALER)	1
10-18	48310	S-BUSHING, FUEL TANK	2				
10-19	38540	S-FUEL SHUTOFF VALVE	2				
10-20	800488	LOCK WASHER M10	8	10-42	64025-14	NUT-HEX #10-32	2
10-21	64251-004	WASHER-M10	8	10-43	446118	LOCKWASHER-#10	2
10-22	2188161	VALVE-TANK SELECTOR	2	10-44	2721531	TEMPERATURE GAUGE	1
10-23	48016-11A	HOSE 1/4IDX1/2OD X 24.0"	1	10-45	2721894	CLUSTER-WARNING LIGHT	1
10-24	48016-11A	HOSE 1/4IDX1/2OD X 22.0"	1				

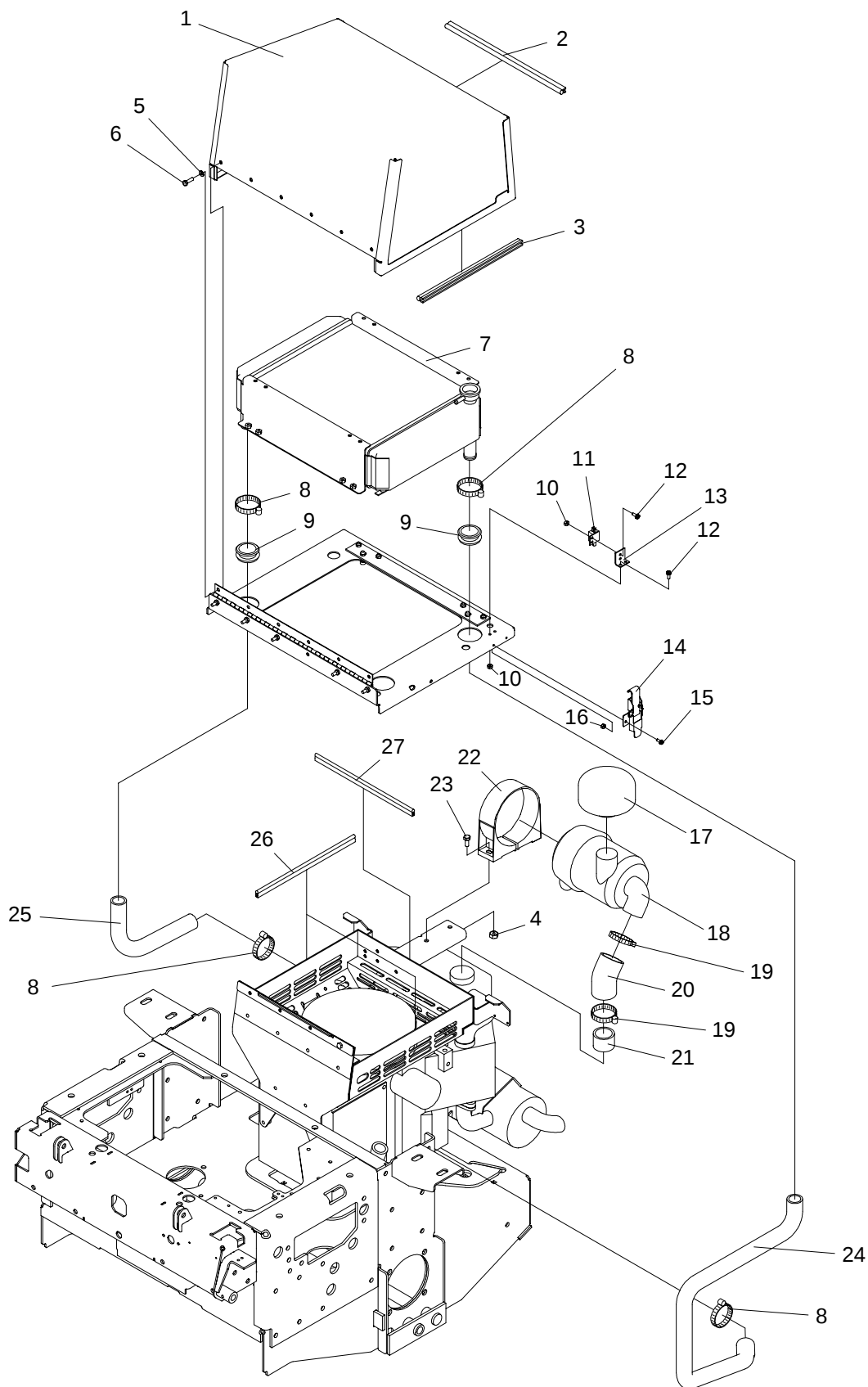


RADIATOR SCREEN & AIR FILTER

ZT 220D
Series



FIGURE 11





ZT 220D Series

2721543-11

RADIATOR SCREEN & AIR FILTER

FIGURE 11

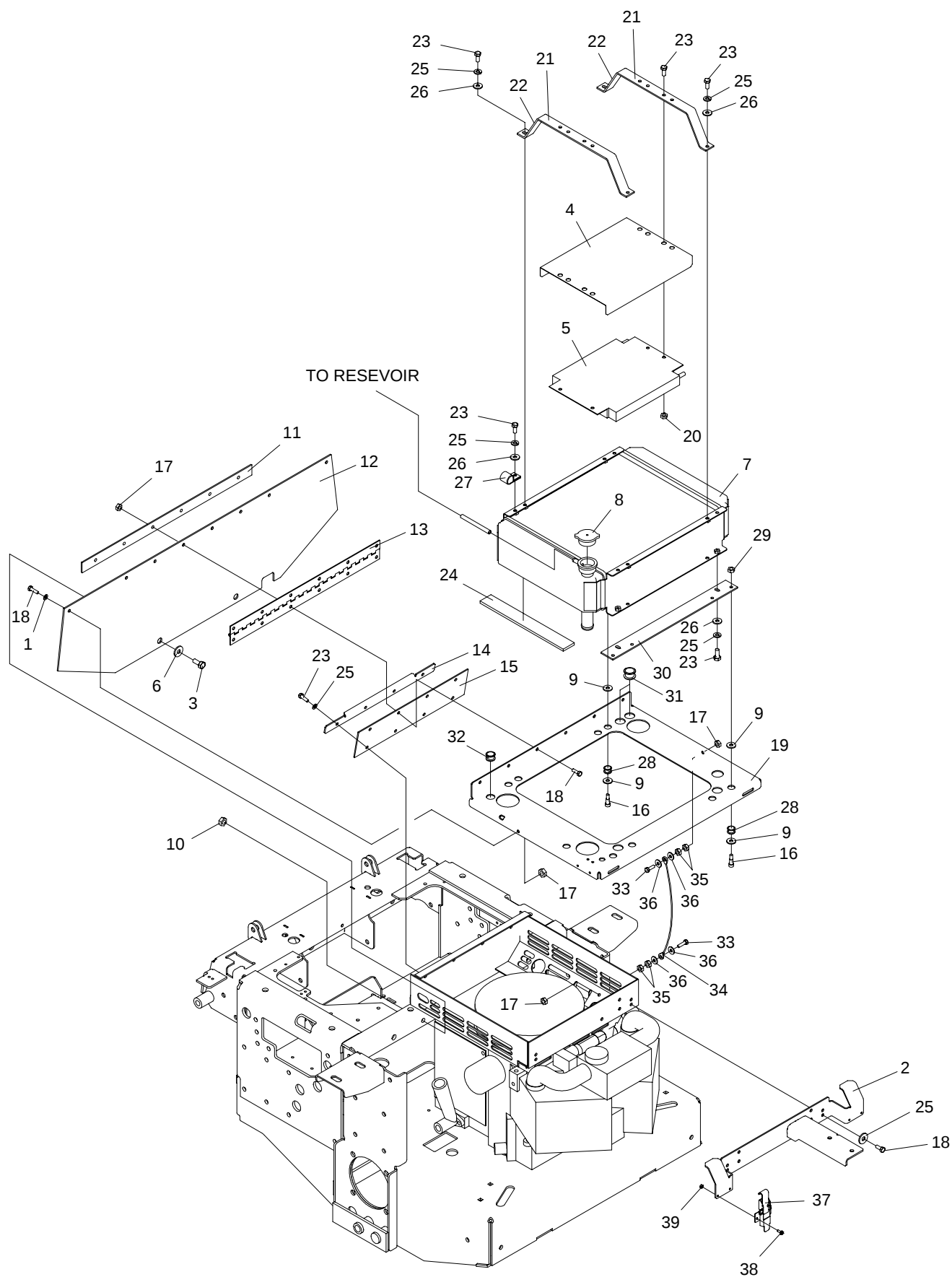
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	2720889.7	WLDMT-RADIATOR SCREEN	1				
12-2	108194-06	SEAL-FLEX TRIM 17.8"	1				
12-3	108194-06	SEAL-FLEX TRIM 14.6"	2				
12-4	64237-05	LOCKNUT-NYLON M8-1.25	2				
12-5	64006-01	LOCKWSHR-HELICAL 1/4	6				
12-6	A1102966	BOLT-M6-1.00 X 16	6				
12-7	2720870	RADIATOR	1				
12-8	108094-01	CLAMP-HOSE SAE20	4				
12-9	148034-10	GROMMET-2 X 1-1/2 X 3/8	2				
12-10	64025-15	NUT-HEX #10-24 KEPS	4				
12-11	38382	SWITCH-N.O.	1				
12-12	64152-46	SCR-SLT HH 10-24 X 1/2	4				
12-13	2721624.7	BRKT-RADIATOR SWITCH	1				
12-14	2218076	LATCH-OVER CENTER	2				
12-15	64152-20	8-32X1/2 MACH SCREW	4				
12-16	64025-29	NUT-HEX #8-32 KEPS	4				
12-17	2720885	PRECLEANER-AIR FILTER	1				
12-18	1985039	AIR CLEANER	1				
12-19	48383	CLAMP-HOSE SAE32	2				
12-20	2721630	HOSE-AIR CLEANER	1				
12-21	364152	BUSHING-1.378X1.750X1.00	1				
12-22	2720022	BRACKET-AIR CLEANER	1				
12-23	64205-001	BLT-METRIC M8-1.25 X 20	2				
12-24	2720872	HOSE-RADIATOR LOWER	1				
12-25	2720871	HOSE-RADIATOR UPPER	1				
12-26	108194-13	FLEX TRIM 12.7"	2				
12-27	108194-13	FLEX TRIM 10.8"	1				
(108194-13 IS A SERVICABLE LENGTH OF 41.0"							
INTENDED TO BE CUT TO THE LENGTHS LISTED							
ABOVE)							

OIL COOLER & RADIATOR

ZT 220D
Series



FIGURE 12





ZT 220D Series

2721543-12

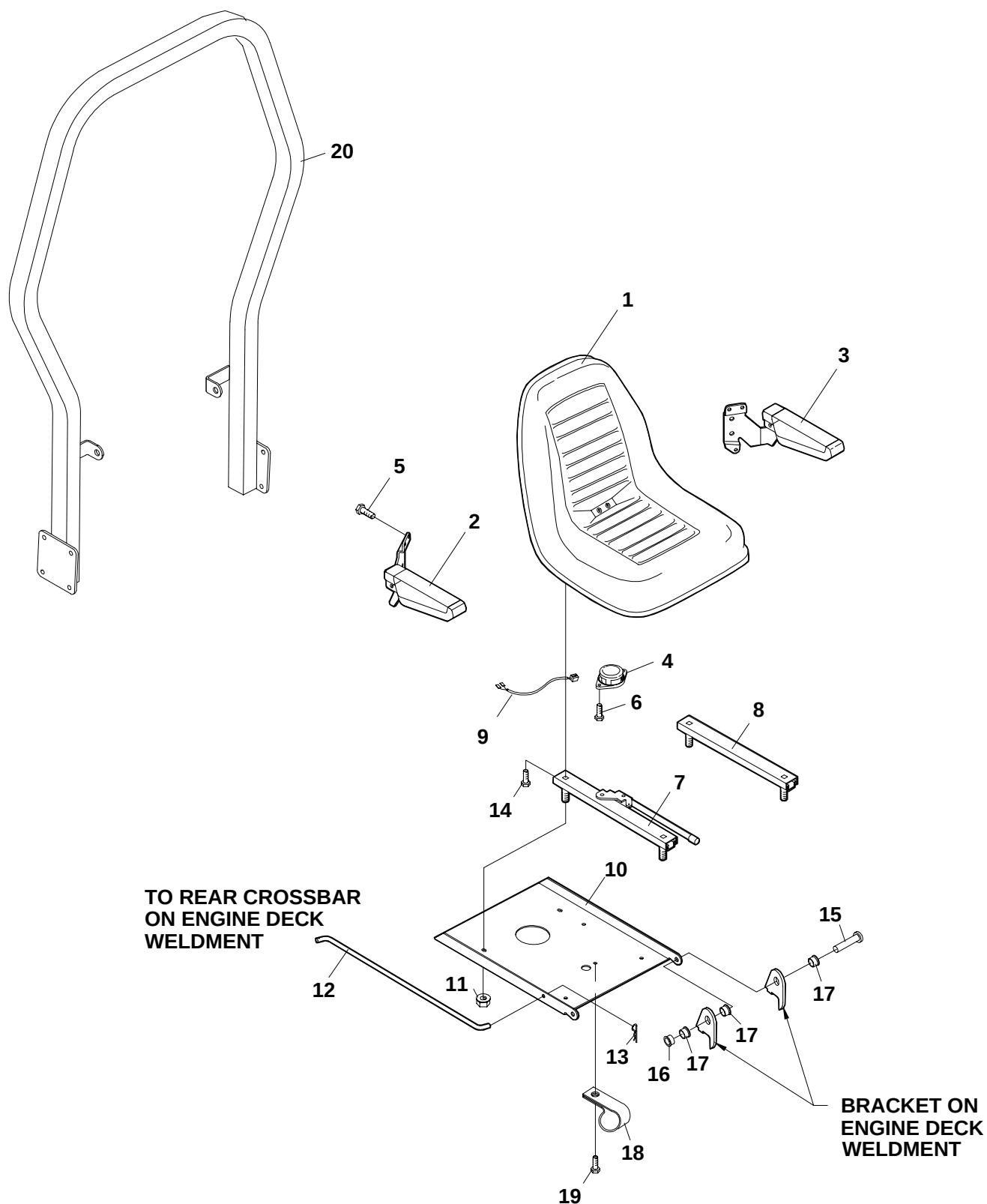
OIL COOLER & RADIATOR

FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	64163-34	WASHER	2				
12-2	2721933.7	WLDMT-SUPPORT BRKT	1				
12-3	A1104057	BOLT-M10-1.50 X 25	2				
12-4	2720891.7	SCREEN-OIL COOLER	1				
12-5	2188173	COOLER-OIL	1				
12-6	64163-31	WASHER-M10	2				
12-7	2720870	RADIATOR	1				
	(INCLUDES ITEM 8)						
12-8	2198238-01	CAP-RADIATOR	1				
12-9	64163-55	WASHER	16				
12-10	64237-03	LOCKNUT-NYLON M10-1.5	2				
12-11	2721661.7	PLATE-BACKING	1				
12-12	2721662	BARRIER-AIR FLOW	1				
12-13	2721646	HINGE-50.8 X 470	1				
12-14	2721355.7	STRAP-RADIATOR HINGE	1				
12-15	2721450	BELTING-HINGE	1				
12-16	64166-6	BLT-SHLDR 5/16 X 1/2 1/4-20	8				
12-17	64237-02	LOCKNUT-NYLON M6-1.00	6				
12-18	64205-038	BLT-METRIC M6-1.00 X 20	6				
12-19	2721570.7	PLATE-RADIATOR MTG	1				
12-20	64229-01	LOCK NUT-NYLON 1/4-20	4				
12-21	2721803	S-COOLER BRKT W/ LABEL	2				
	(INCLUDES ITEM 22)						
12-22	365956	LABEL-WRNG RADIATOR	2				
12-23	64123-89	BLT-HEX 1/4-20 X 3/4	11				
12-24	48450-25	FOAM-2.0 X 10.50 X 0.50	2				
12-25	64006-01	LOCKWSHR-HELICAL 1/4	9				
12-26	64163-03	WASHER-1/4	3				
12-27	48228A	CABLE CLIP-INSULATED	1				
12-28	148034-09	GROMMET-7/8 X 3/8 X 3/8	8				
12-29	64151-8	1/4-20 HEX LOCK NUT	4				
12-30	2721931.7	BRKT-RADIATOR SUPPORT	1				
12-31	148034-08	GROMMET 1.125 OD 0.625 ID	2				
12-32	148034-06	GROMMET 0.5 ID	1				
12-33	64205-025	BLT-METRIC M6-1.00 X 25	2				
12-34	2720882	LANYARD	1				
12-35	64207-06	NUT-HEX M6-1	4				
12-36	64163-03	WASHER M6	4				
12-27	2218076	LATCH-OVER CENTER	2				
12-38	64152-20	MACHINE SCREW 8-32 X 1/2	4				
12-39	64025-29	NUT-HEX #8-32 KEPS	4				



FIGURE 13





ZT 220D Series

2187026

SEAT ASSEMBLY & ROPS

FIGURE 13

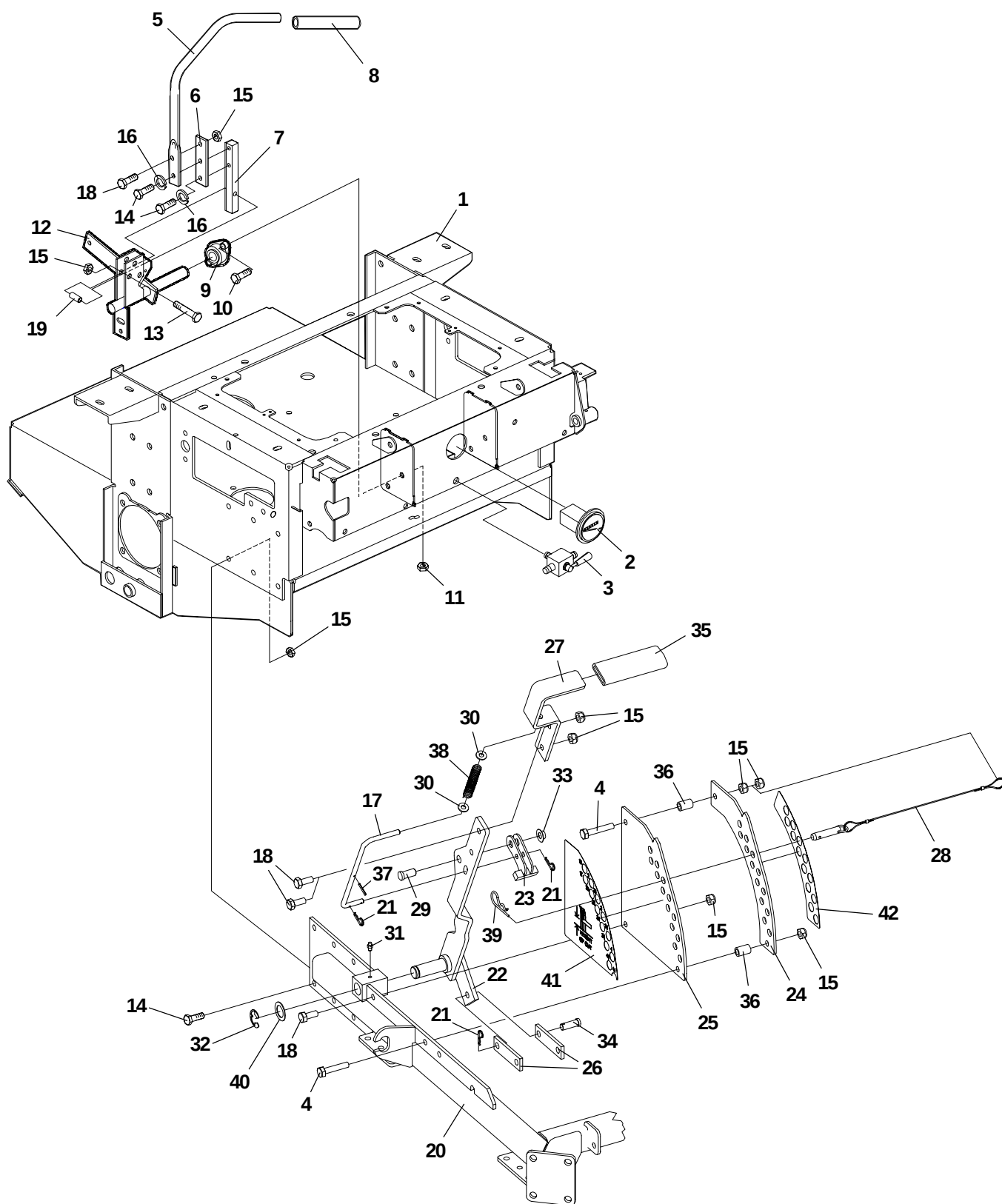
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
13-1	2720975	SEAT-SUSPENSION (INCLUDES)	1				
	2720975-01	SEAT CUSHION	1				
	2720975-02	BACK CUSHION	1				
13-2	2721093	RH ARM REST	1				
13-3	2721094	LH ARM REST	1				
13-4	158135-01	SWITCH, SEAT NO	1				
13-5	64139-16	BLT-WLF 5/16-18 X 3/4	6				
13-6	64139-02	BLT-WLF 1/4-20 X 1/2	2				
13-7	2720975-04	SLIDE RAIL-ADJ	1				
13-8	2720975-03	SLIDE RAIL-SLAVE	1				
13-9	158136	WIRE-SEAT SWITCH	1				
13-10	2182391.7	PLATE-SEAT	1				
13-11	64141-6	NUT-WLF 5/16-18	4				
13-12	2183069	ROD-PROP	1				
13-13	64168-2	HAIRPIN-COTTER	1				
13-14	2198096	SCREW-CAP WSHR HD	4				
13-15	64188-38	PIN, CLEVIS 3/8X1 W/O HL	2				
13-16	64175-04	PUSHNUT 3/8 DIA	2				
13-17	38371-01	BRG-NYLINER 3/8	6				
13-18	48228A	CABLE CLIP-INSULATED	1				
13-19	64152-23	SCREW 1/4-20X3/8	1				
OPTIONAL ROPS:							
13-20	970162	ATT-ROPS					
13-21	2720975-05	CABLE ASSEMBLY	2				

STEERING/DECK LIFT

ZT 220D
Series



FIGURE 14





ZT 220D Series

2721543-14

STEERING/DECK LIFT

FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
14-1	2720996	S ENGINE DECK W/LABS	1				
14-2	48030N	HOUR METER ASSY	1				
14-3	2188161	VALVE-TANK SELECTOR	1				
14-4	64205-008	BLT-METRIC M10-1.50 X 55	2				
14-5	2182344.7	LEVER-CONTROL	2				
14-6	2182434.7	BRKT-TRACTION LEVER	2				
14-7	2183074	BRACKET-HANDLE	2				
14-8	2188144	GRIP-0.75 ID X 12	2				
14-9	2188145	BEARING-SELF ALIGNED	4				
14-10	64123-15	BLT-HEX 3/8-16 X 3/4	8				
14-11	64141-4	NUT-WLF 3/8-16	8				
14-12	2186168.7	WLDMT-TRCTNCTRL RH	1				
	* 2186167.7	WLDMT-TRCTNCTRL LH	1				
14-13	64205-011	BLT-MET M10-1.5 X 40	6				
14-14	A110406	BLT-METRIC M10-1.5 X 30	16				
14-15	64237-03	LOCK NUT-NYLON M10-1.5	26				
14-16	800488	LOCKWASHER-M10	4				
14-17	2720503	ROD-LIFT STOP	1				
14-18	A1104057	BLT-MET M10-1.5 X 25	3				
14-19	2183073	SPACER	6				
14-20	2721076.7	WLDMT-CRADLE	1				
14-21	64168-2	HAIRPIN COTTER	4				
14-22	2720551.7	WLDMT-DECK LIFT LEVER	1				
14-23	2720511.7	WLDMT-LVR STOP LATCH	1				
14-24	2720517.7	BRKT-INNER DECK LIFT	1				
14-25	2720516.7	BRKT-OUTER DECK LIFT	1				
14-26	2182368.7	BRKT-LIFT LINK	2				
14-27	2720501.7	HANDLE-LIFT ARM	1				
14-28	2188141	ASSY, PIN & LANYARD	1				
14-29	64188-53	PIN-CLEVIS 1/2 X 1.0	1				
14-30	64163-29	21/64X1X11GA.WASHER	2				
14-31	85010N	ZERK, 1/4-28 STR SLF TH	1				
14-32	64221-04	E-RING 0.875	1				
14-33	64175-05	NUT-PUSH 1/2	1				
14-34	64188-36	PIN, CLEVIS 7/16 X 1-1/4	2				
14-35	2188143	GRIP	1				
14-36	2183071-03	SPACER	2				
14-37	64061-37	ROLL PIN-1/8 X 1.00 SS	1				
14-38	2720544	SPRING-COMPRESSION	1				
14-39	64168-1	HAIRPIN COTTER	1				
14-40	64163-65	WSHR .890 X 1.375 X 18GA	3				
14-41	2720742	LBL-ZT200 HT CUT OUTER	1				
14-42	2720743	LBL-ZT200 HT CUT INNER	1				

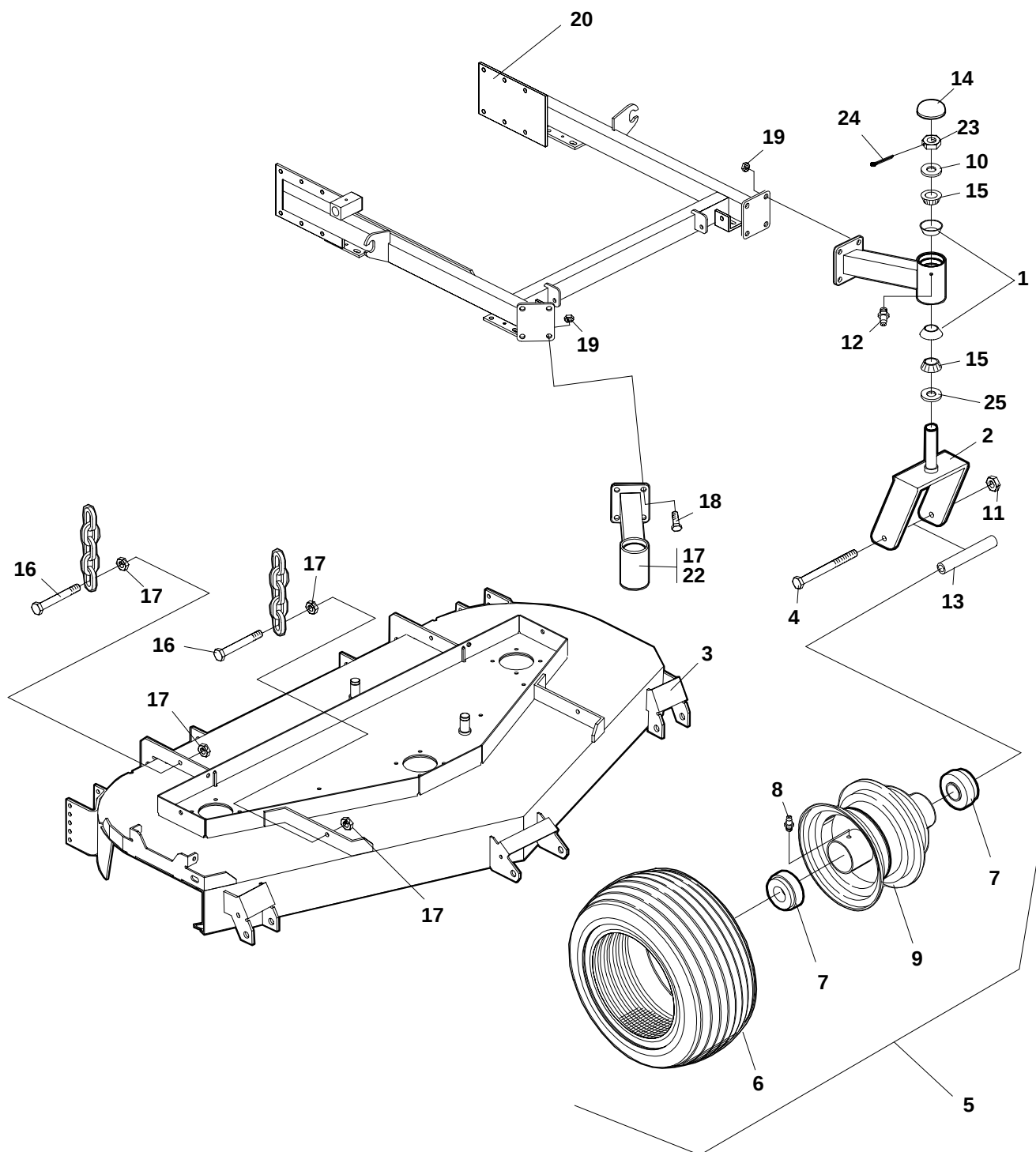
* NOT ILLUSTRATED

CRADLE & CASTER ASSEMBLY

ZT 220D
Series



FIGURE 15





ZT 220D Series

2721543-15

CRADLE & CASTER ASSEMBLY

FIGURE 15

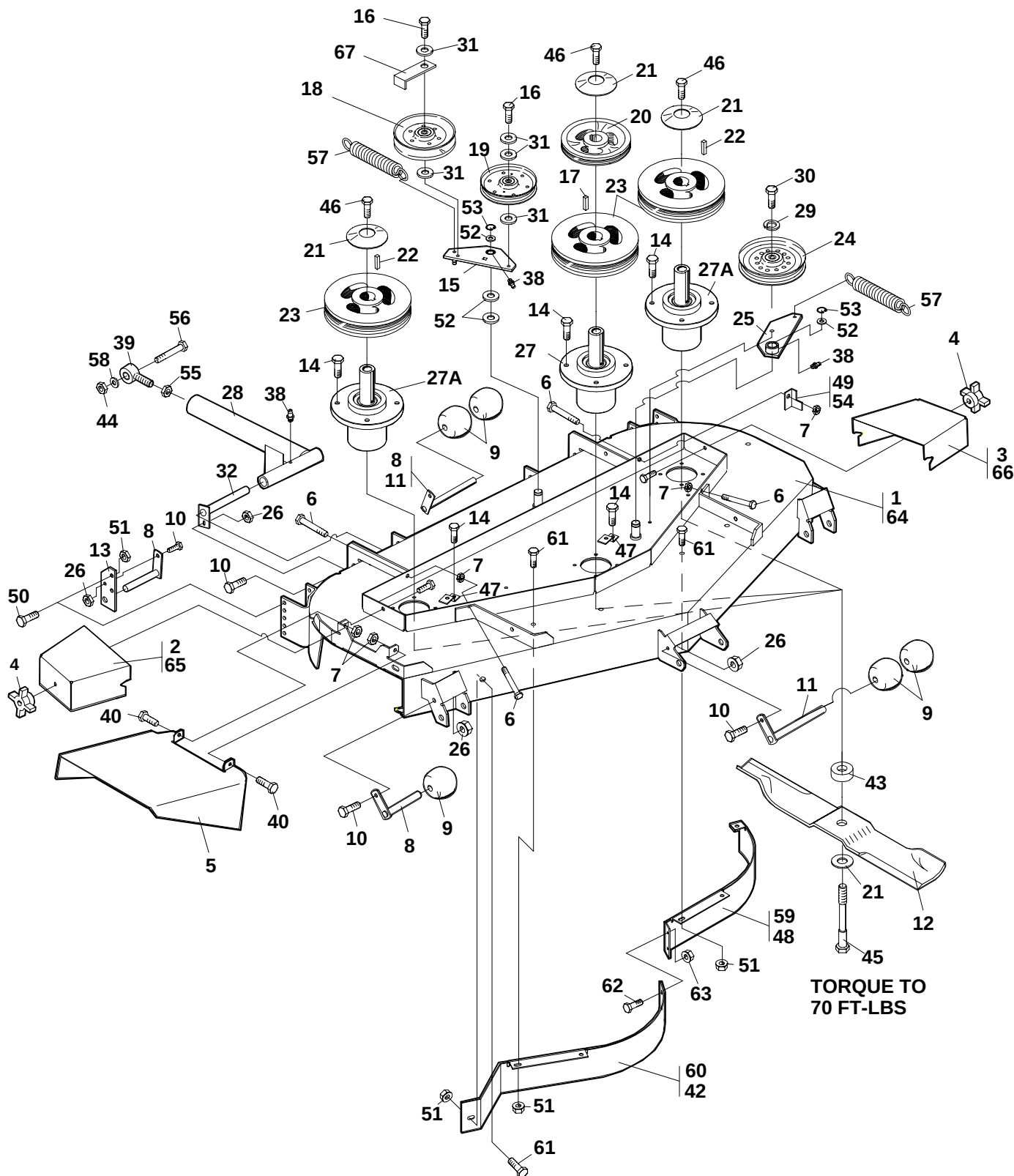
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	48043-03C	SCUP, OUTER BEARING	4				
15-2	2721306.7	WLDMT-CASTER YOKE	2				
15-3		DECK W/LABS					
15-4	64123-215	BOLT-HEX 3/4-10 X 7-1/2	2				
15-5	2720475	WHL/HUB-4PLY 13 X 5.00-6 (INCLUDES ITEMS 6-9)	2				
15-6	2720475-01	TIRE-13X5.00-6 SMOOTH	1				
15-7	148042	BALL BEARING 1.00	2				
15-8	35027N	ZERK FITTING	1				
15-9	2720475-02	ASSY-RIM	1				
15-10	64163-64	WASHER-0.766 ID X 1.625	6				
15-11	64229-07	LOCK NUT-NYLON 3/4-10	2				
15-12	85010N	ZERK, 1/4-28 STR SLF THD	9				
15-13	2720474	SPACER-CASTER HUB	2				
15-14	2721307	DUST COVER	2				
15-15	48043-04C	SCONE, OUTER BEARING	4				
15-16	2721301.7	WLDMT-CASTER ARM 52 LH	1				
15-17	2721300.7	WLDMT-CASTER ARM 52 RH (USE FOR 52" SD DECK 942208)	1				
15-18	A1105061	BOLT-M12-1.75 X 30	8				
15-19	64237-06	LOCK NUT-NYLON M12-1.75	8				
15-20	2721076.7	WLDMT-CRADLE	1				
15-21	2721299.7	WLDMT-CASTER ARM 61 LH	1				
15-22	2721298.7	WLDMT-CASTER ARM 61 RH (USE FOR 61" DECK 942209)	1				
15-23	64025-20	NUT-HEX 3/4-16 SLOT U	2				
15-24	64140-5	COTTER PIN-1/8X1-1/2	2				
15-25	48480	SEAL	2				

52" & 61" SIDE DISCHARGE

ZT 220D
Series



FIGURE 16





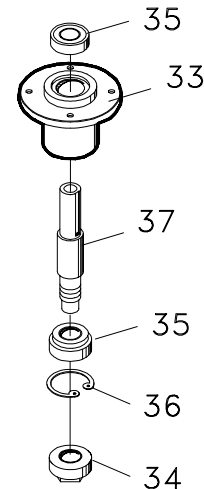
ZT 220D Series

2721543-16

52" & 61" SIDE DISCHARGE

FIGURE 16

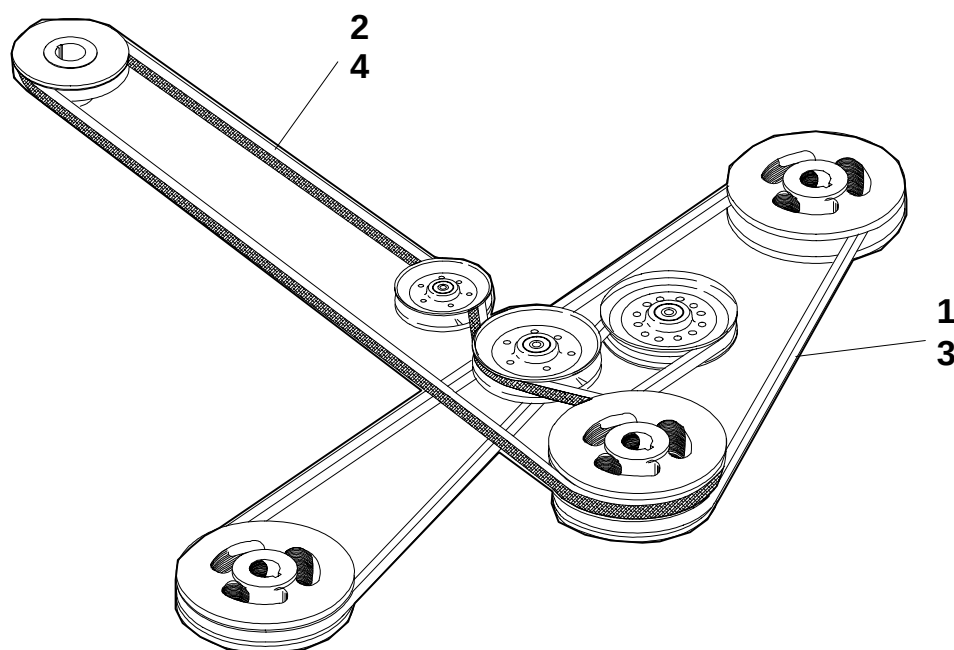
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
16-1	2186179	S-52 DECK W/LABS	1	16-38	85010N	STRAIGHT ZERK FTTG	6
16-2	2182458.2	BELT COVER RH (USE ON 52" SD DECK ONLY)	1	16-39	2188142-01	ROD, END 5/8	2
16-3	2182459.2	BELT COVER LH (USE ON 52" SD DECK ONLY)	1	16-40	64123-50	BLT-HEX 3/8-16X1	2
16-4	38524	KNOB-4 PRONG 3/8-16	2	16-41	64237-02	LOCKNUT-NYLON M6-1.0	2
16-5	2302092.2	CHUTE-MID 61 (USE ON 61" SD DECK ONLY)	1	16-42	2182494.7	BAFFLE-FRONT RH (USE ON 61" SD DECK ONLY)	1
	32723.2	CHUTE-DISCHARGE MIDSZ (USE ON 52" SD DECK ONLY)	1	16-43	2188162	SPACER-BLADE	3
16-6	64166-17	BLT-SHLDR 3/8-16X1.12	4	16-44	64229-06	LOCKNUT-NYLON 5/8-11	2
16-7	64229-03	LOCKNUT NYLON 3/8-16	6	16-45	64123-209	BLT-HEX 5/8-18X3.5	3
16-8	46335	SHAFT-ASM-ROLLER (USE QTY 4 ON 61", QTY 5 ON 52")		16-46	64123-208	BLT-HEX 5/8-11X1 1/2	3
16-9	2198153	ROLLER, 3" (USE QTY 3 ON 61", QTY 4 ON 52")		16-47	32767.7	SUPPORT-BELT	2
16-10	64205-001	BLT-MET. M8-1.25X20	8	16-48	2182493.7	BAFFLE-FRONT LH (USE ON 61" SD DECK)	1
16-11	146067	ROLLER SHAFT (USE QTY 2 ON 61", QTY 1 ON 52")	2	16-49	2182474.7	GUIDE-BELT (USE ON 52" SD DECK ONLY)	1
16-12	112111-03	BLADE 21.0 OFFST (USE ON 61" SD DECK ONLY)	3	16-50	A1104057	BLT-MET M10-1.5X25	8
	112111-02	BLADE 18.0 OFFST (USE ON 52" SD DECK ONLY)	3	16-51	64237-03	LOCKNUT-NYLON M10	14
16-13	142088.7	BRACKET-ROLLER MNT	4	16-52	64163-65	WSHR .890X1.375X18 GA	4
16-14	64197-003	BLT-TDFM 3/8-16X1	14	16-53	64221-04	E-CLIP .875	2
16-15	2186140.7	WLDMT-PTO IDLER	1	16-54	2182437.7	GUIDE-BELT	1
16-16	64197-004	BOLT TR 3/8-16X1 3/4	2	16-55	64001-1	NUT-JAM 5/8-18	2
16-17	64164-13	1/4X1/4X2 SQ END KEY	1	16-56	64123-206	BLT-HEX 5/8-11X4.5	2
16-18	48393	PULLEY, V IDLER	1	16-57	2188131	SPRING-EXTENSION	2
16-19	38297	IDLER, 5.0 OD FLNGD	1	16-58	64163-73	WSHR-FLT .625IDX.062 A/R	
16-20	128011	PULLEY, DECK DRIVE	1	16-59	2182495.7	BAFFLE-FRONT LH (USE ON 52" SD DECK ONLY)	1
16-21	64209-03	SPRING WSHR .67 ID	6	16-60	2182496.7	BAFFLE-FRONT RH (USE ON 52" SD DECK ONLY)	1
16-22	64164-12	1/4X1/4X1 SQ END KEY	2	16-61	64205-007	BLT METRIC M10-1.50X20	6
16-23	31012A	ENGINE PULLEY	3	16-62	64018-2	BLT-CRG 1/4-20X3/4	2
16-24	128169	PULLEY, IDLER 5.50"	1	16-63	64229-01	LOCK NUT-NYL 1/4-20	2
16-25	2186138.7	WLDMT-DECK IDLER (USE ON 61" SD DECK ONLY)	1	16-64	2186132	S 61 DECK W/LABS	1
	2186164.7	WLDMT-DECK IDLER (USE ON 52" SD DECK ONLY)	1	16-65	2182352.2	BELT COVER RH (USE ON 61" SD DECK ONLY)	1
16-26	64246-02	WIZ-NUT M8-1.25	8	16-66	2182351.2	BELT COVER LH (USE ON 61" SD DECK ONLY)	1
16-27	2186207	ASSY-TOP MNT SPNDL (INCLUDES ITEMS 33-37)	1	16-67	2302125.7	GUIDE-BELT	1
16-27A	2186205	ASSY-TOP MNT SPNDL (INCLUDES ITEMS 33-37)	2				
16-28	2186185.7	WLDMT-PUSHBAR	2				
16-29	64006-05	LCKWSHR HELICAL 1/2	1				
16-30	64123-05	BLT-HEX 1/2-20X1 1/2	1				
16-31	64163-46	WSHR .383/.393 X 7 GA	5				
16-32	2186125	WLDMT-LOCK PSHBR	2				
16-33	2191000.7	SPINDLE HOUSING	3				
16-34	38315	NUT-SPINDLE	3				
16-35	38348-01	BEARING-SPINDLE	6				
16-36	64144-38	SNAP-RING	3				
16-37	2183070-01	SPINDLE (USED IN ASSY 2186207)	1				
	2183070-02	SPINDLE (USED IN ASSY 2186205)	2				



2186207-ASSY TOP MOUNT SPINDLE
2186205-ASSY TOP MOUNT SPINDLE
(INCLUDES ITEMS 33-37)



FIGURE 17





ZT 220D Series

2721543-17

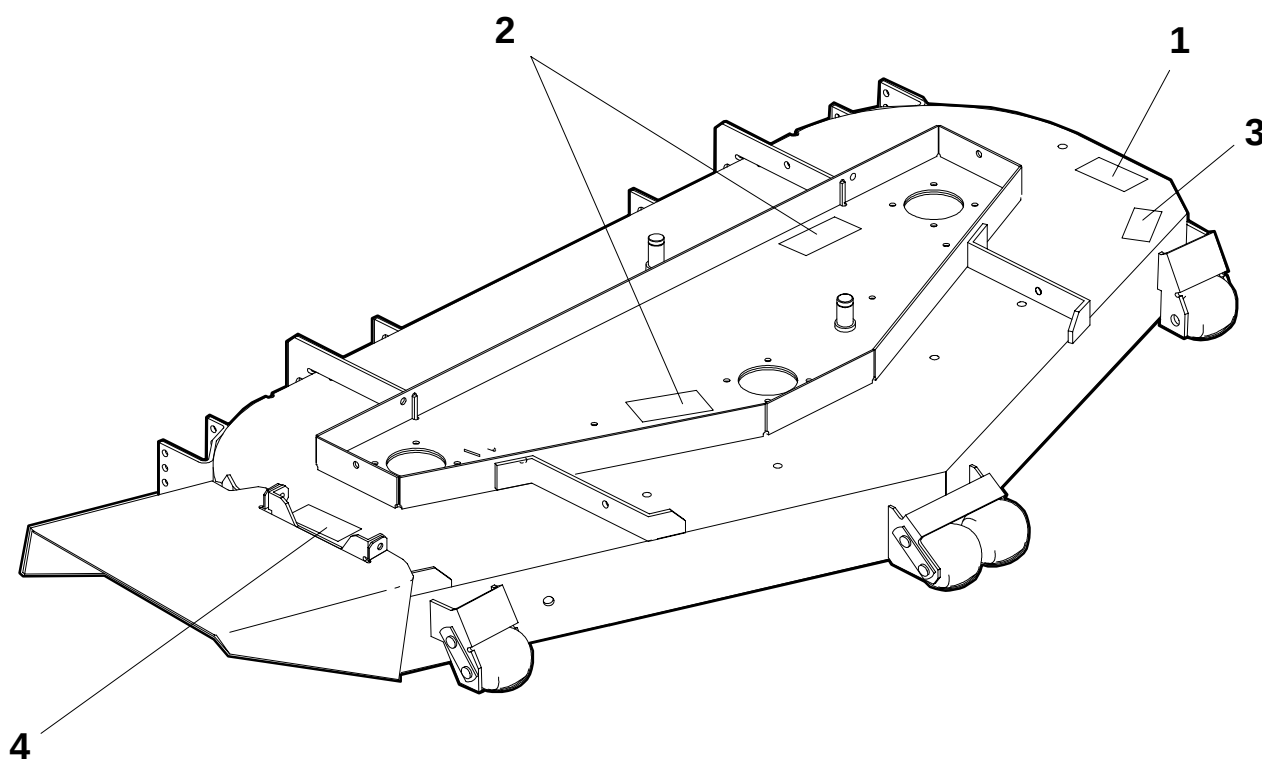
BELTS

FIGURE 17

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
17-1	2188176	BELT-CUTTERDECK 54	1				
17-2	2188134	BELT-PTO (USE ON 54" SD DECK)	1				
17-3	128003	BELT-CUTTERDECK	1				
17-4	2720881	BELT-PTO (USE ON 61" SD DECK)	1				



FIGURE 18





ZT 220D Series

2187164

DECALS-CUTTERDECKS

FIGURE 18

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
18-1	2000572	LABEL-WARNING BLADES	1				
18-2	2000577	LABEL, WARNING	2				
18-3	2000696	LBL - BLADE INSTALL	1				
18-4	2000677	LABEL-DANGER/WARNING	1				

CROSS REFERENCE

ZT 220D Series



PART NO.	DESCRIPTION	FIG/ITEM	PART NO.	DESCRIPTION	FIG/ITEM
1003416	SWITCH-IGNITION	9 /21	2000696	LBL - BLADE INSTALL	18 /3
108029	PLUG,MAGNETIC	7 /4	2000698	LBL(DBL) - FUEL/LEAKS	4 /8
108094-01	CLAMP-HOSE SAE20	11 /8	2000700	LBL - RH TRACTION	4 /10
108194-06	CHANNEL,FLEX TRIM SEAL	11 /2	2000701	LBL - LH TRACTION	4 /11
108194-06	CHANNEL,FLEX TRIM SEAL	11 /3	2000705	LABEL-TIRES	4 /9
108194-13	FLEX TRIM 41.00	11 /26	2000706	LABEL-FUEL	4 /15
108194-13	FLEX TRIM 41.00	11 /27	2000735	LABEL-OPER MAN	4 /3
108205-03	ELBW, MALE 45 8X10 37-ORB	7 /6	2000785	LABEL-RED/WHITE STRIPE	3 /28
108208	SWITCH DBL POLE	1 /35	2000785	LABEL-RED/WHITE STRIPE	4 /1
108208	SWITCH DBL POLE	9 /14	2182344.7	LEVER-CONTROL	14 /5
112111-02	BLADE 18.00 OFFST HLFT	16 /12	2182351.2	BELT COVER LH	16 /66
112111-03	BLADE 21.00 OFFST HLFT	16 /12	2182352.2	BELT COVER RH	16 /65
118020-15	CABLE-THROTTLE 44.5	10 /14	2182356.7	BRKT-SHAFT HANGER	3 /3
128003	BELT-CUTTER DECK	17 /3	2182368.7	BRKT-LIFT LINK	14 /26
128011	PULLEY, DECK DRIVE	16 /20	2182387.7	GUIDE-SPRING	6 /7
128037	RELAY	9 /9	2182391.7	PLATE-SEAT	13 /10
128102	SPRING,EXTENSION	6 /4	2182404.7	PLATE-KICK	1/41
128169	PULLEY, IDLER 5.50	16 /24	2182405.7	BRKT-REVERSE RETURN	1/18
142088.7	BRACKET-ROLLER	16 /13	2182427.7	HOLDDOWN-BATTERY	1/32
146067	WLDMT-ROLLER SHAFT	16 /11	2182434.7	BRKT-TRACTION LEVER	14 /6
148034-06	INSUL.GROMMET 0.5 I.D.	12 /32	2182437.7	GUIDE-BELT	16 /54
148034-08	GROMMET 1.125OD .625ID	12 /31	2182442.7	BRACE-VERTICAL	5 /6
148034-09	GROMM 7/8 X 3/8 X 3/8	12 /28	2182458.2	BELT COVER RH	16 /2
148034-10	GROMMET-2 X 1-1/2 X 3/8	11 /9	2182459.2	BELT-COVER LH	16 /3
148042	BALL BRG 1.00 10	15 /7	2182474.7	GUIDE-BELT	16 /49
148074	BATTERY-BCI26	1 /4	2182493.7	BAFFLE-FRONT LH	16 /48
148082-10	FUSE 10 AMP	9 /19	2182494.7	BAFFLE-FRONT RH	16 /42
148082-20	FUSE 20 AMP	9 /2	2182495.7	BAFFLE-FRONT LH	16 /59
148082-30	FUSE 30 AMP	9 /20	2182496.7	BAFFLE-FRONT RH	16 /60
148263-10	S HSE .56 X .31 X 35.0	10 /34	2183052	ROD-LIFT	3 /11
148263-10	S HSE .56 X .31 X 35.0	10 /35	2183056	SHAFT, BRAKE	6 /11
158058-04	FITTING-BARB 90, ADJ	7 /5	2183063-01	SPACER, 32MM LONG	6 /19
158058-07	FITTING-90 BARB, ADJ	7 /11	2183064	ROD-BRAKE	6 /30
158122-02	TUBING-SIGHT GLASS	10 /28	2183069	ROD-PROP	13 /12
158135-01	SWITCH-SEAT, NO	13 /4	2183070-01	SHAFT-SPINDLE	16 /37
158135-01	SWITCH-SEAT, NO	9 /4	2183070-02	SHAFT-SPINDLE	16 /37
158136	WIRE-SEAT SWITCH	13 /9	2183071-03	SPACER	14 /36
158136	WIRE-SEAT SWITCH	9 /5	2183073	SPACER	14 /19
178092-22	LIGHT FOR ROCKER	9 /18	2186120.7	WLDMT-DECK HANGER	3 /4
188015	OIL PRESSURE LENS	9 /22	2186125	WLDMT-LOCK, PUSHBAR	16 /32
188059-11	S SWASH PLATE #2003087	8 /32	2186128.7	WLDMT-BRAKE ARM LH	6 /2
188059-13	S BRG CRADLE #2003023	8 /47	2186130.7	WLDMT-LIFT SHAFT REAR	3 /10
188059-15	S ARM-TRUNION #2003005	8 /37	2186132	S 61 CUTTERDECK W/LABS	16 /64
188059-16	S BEARING AND HOUSING KIT	8 /39	2186138.7	WLDMT-DECK IDLER	16 /25
188059-9	S GUIDE SLOT #2000015	8 /38	2186140.7	WLDMT-PTO IDLER	16 /15
1985039	AIR CLEANER	11 /18	2186142.7	WLDMT-BRAKE ARM RH	6 /3
2000572	LABEL-WARNING BLADES	18 /1	2186143.7	WLDMT-BRAKE LEVER ARM	6 /5
2000577	LABEL, WARNING	18 /2	2186164.7	WLDMT-DECK IDLER	16 /25
2000590	LABEL, WARN BATTERY	4 /4	2186167.7	WLDMT-CONTROL SHFT LH	1/29
2000677	LABEL-DANGER/WARNING	18 /4	2186167.7	WLDMT-CONTROL SHFT LH	14 /12
2000691	LBL - HYDR OIL FILL	4 /5	2186168.7	WLDMT-CONTROL SHFT RH	14 /12
2000693	LBL - PARK BRAKE	4 /7	2186171.7	WLDMT-PUMP ARM	1 /13
2000695	LBL - WARN/USING	3 /27	2186179	S-52 DECK W/LABS	16 /1
2000695	LBL - WARN/USING	4 /14	2186185.7	WLDMT-PUSHBAR	16 /28



ZT 220D Series

CROSS REFERENCE

PART NO.	DESCRIPTION	FIG/ITEM	PART NO.	DESCRIPTION	FIG/ITEM
2186205	ASSY-TOP MOUNT SPINDLE	16 /27	2191000.7	SPINDLE, HOUSING	16 /33
2186207	ASSY-TOP MOUNT SPINDLE	16 /27	2198088	LENS-BATTERY	9 /23
2186211	S HYD RESERVOIR W/LABS	1 /6	2198089	LAMP HOLDER-DUAL	9 /17
2186211	S HYD RESERVOIR W/LABS	7 /1	2198092	CABLE-BATTERY NEGATIVE	9 /7
2186213	S FOOT PLATE	3 /9	2198096	SCREW-CAP W/.375 HEX	13 /14
2188126-01	MOTOR-ASSY HYDRAULIC	6 /12	2198153	ROLLER, 3	16 /9
2188126-01	MOTOR-ASSY HYDRAULIC	7 /10	2198156-01	RIM ASM, W/VLV STEM & CAP	6 /13
2188127	CHAIN-6.35 (.250) 5 LINKS	3 /5	2198156-02	TIRE-23X10.5-12 4P	6 /13
2188131	SPRING-EXTENSION	16 /57	2198238-01	S-RADIATOR CAP	12 /8
2188133	SPRING-COMPRESSION	3 /13	2218076	LATCH-OVER CENTER	11 /14
2188134	BELT, PTO	17 /2	2218076	LATCH-OVER CENTER	12 /37
2188136	SWIVEL	3 /8	2218089	CABLE-BATTERY POSITIVE	9 /3
2188139	SPRING-COMPRESSION	1 /27	2302092.2	CHUTE-MID 61	16 /5
2188140	TURNBUCKLE	1 /15	2302125.7	GUIDE-BELT	16 /67
2188141	ASSY, PIN & LANYARD	14 /28	2306082.7	WLDMT-IDLER ARM	2 /15
2188142-01	ROD END 5/8	16 /39	2306144	S DOC TUBE W/LABEL	10 /5
2188143	GRIP	14 /35	2308000	PULLEY-IDLER 4.00 EOD	2 /14
2188144	GRIP, .75ID X 12	14 /8	2308148	PUMP-PULLEY	2 /1
2188145	BRG-.75ID BRZ SELF ALIGN	1 /22	2720022	BRACKET-AIR CLEANER MTG	11 /22
2188145	BRG-.75ID BRZ SELF ALIGN	6 /23	2720396	FILTER-25 MICRON SMALL	7 /2
2188145	BRG-.75ID BRZ SELF ALIGN	14 /9	2720474	SPACER-CASTER HUB	15 /13
2188146	STRIP, WEAR	2 /44	2720475	WHL/HUB-4PLY 13X5.00-6	15 /5
2188147	ASSY, BRAKE CW (LH)	6 /9	2720475-01	TIRE-13X5.00-6 SMOOTH 4PLY	15 /6
2188147-01	BRACKET-MACHINED	6 /9	2720475-02	ASSY-RIM	15 /9
2188147-02	PAD-CAM SIDE	6 /9	2720501.7	HANDLE-LIFT ARM	14 /27
2188147-03	PAD-SUPPORT	6 /9	2720503	ROD-LIFT STOP	14 /17
2188147-04	SPRING-LEVER RETAINER	6 /9	2720511.7	WLDMT-LEVER STOP LATCH	14 /23
2188147-05	HOUSING	6 /9	2720516.7	BRKT-OUTER DECK LIFT	14 /25
2188147-06	CAM	6 /9	2720517.7	BRKT-INNER DECK LIFT	14 /24
2188147-07	PIN-PIVOT	6 /9	2720544	SPRING-COMPRESSION	14 /38
2188147-08	PAD-CARRIER SIDE	6 /9	2720551.7	WLDMT-DECK LIFT LEVER	14 /22
2188147-09	PAD-SUPPORT	6 /9	2720608-02	TIRE-23X8.50-12 4P	6 /142
2188148	ASSY, BRAKE CCW (RH)	6 /9	2720742	LABEL-ZT200 HT CUT OUTER	4 /12
2188148-01	CAM RH	6 /9	2720742	LABEL-ZT200 HT CUT OUTER	14 /41
2188149	HUB, WHEEL AND DISC	6 /20	2720743	LABEL-ZT200 HT CUT INNER	4 /13
2188153	SWITCH, CLUTCH	9 /11	2720743	LABEL-ZT200 HT CUT INNER	14 /42
2188153	SWITCH, CLUTCH	10 /15	2720863	MOUNT-ISO	2 /33
2188154	MODULE-DELAY	9 /10	2720864.7	BRKT-ISO MOUNT	2 /32
2188154	MODULE-DELAY	10 /27	2720865.7	PLATE-ENGINE MOUNT	1 /43
2188155	GRIP, 1/4X1X4-1/2	6 /18	2720866	HARNESS-ZT220D	9 /1
2188157-01	HOSE-HYD ORB-37 22.38 IN	7 /8	2720867.7	BRKT-MUFFLER	1 /40
2188157-02	HOSE-HYD ORB-37 25.00 IN	7 /9	2720868.7	WLDMT-CLUTCH BRACKET	2 /8
2188161	VALVE-TANK SELECTOR	10 /22	2720870	RADIATOR-ZT220D	11 /7
2188161	VALVE-TANK SELECTOR	14 /3	2720870	RADIATOR-ZT220D	12 /7
2188162	SPACER-BLADE	16 /43	2720871	HOSE-RADIATOR UPPER	11 /25
2188164	MAT-UPPER	3 /15	2720872	HOSE-RADIATOR LOWER	11 /24
2188165	MAT-ANGLE	3 /14	2720880	BELT-PUMP DRIVE	2 /25
2188172	HARNESS-PIGTAIL	9 /13	2720881	BELT-61 DECK DRIVE	17 /4
2188173	COOLER-OIL	7 /16	2720882	LANYARD-RADIATOR CABLE	12 /34
2188173	COOLER-OIL	12 /5	2720883	ENGINE YANMAR 2V78	1 /1
2188176	BELT-DECK 54	17 /1	2720884	MUFFLER-YANMAR 2V78	1 /58
2188178	SWITCH-RETAINER	10 /30	2720885	PRECLEANER-AIR FILTER	11 /17
2188188	PULLEY-4.25	2 /5	2720886	GAUGE-TEMP W/ALERT	9 /15
2188228	MAT-PLATFORM	3 /16	2720887	SENDER-WATER TEMP	9 /16

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ZT 220D Series



PART NO.	DESCRIPTION	FIG/ITEM	PART NO.	DESCRIPTION	FIG/ITEM
2720889.7	WLDMT-RADIATOR SCREEN	11 /1	2721894	CLUSTER-WARNING LIGHT	10 /45
2720891.7	SCREEN-OIL COOLER	12 /4	2721931.7	BRKT-RADIATOR SUPPORT	12 /30
2720949	ASSY-CLUTCH WIRE	2 /11	2721933.7	WLDMT-SUPPORT BRACKET	12 /2
2720949	ASSY-CLUTCH WIRE	9 /27	31012A	ENGINE PULLEY	16 /23
2720975	SEAT-LOW PROFILE SSPNSN	13 /1	32418-03.7	HANDLE-W/SLOTS	3 /17
2720975-03	ADJUSTER	13 /8	32723.2	CHUTE-DISCHARGE MIDSIZE	16 /5
2720975-04	ADJUSTER W/HANDLE	13 /7	32767.7	SUPPORT-BELT	16 /47
2720975-05	CABLE ASSEMBLY	13 /21	33148-01	SPACER	2 /19
2720994	LABEL-BOB-CAT TEXTRON SM	4 /2	33213	ROD-SPD CTRL UPPER	6 /6
2720996	S-ENG DECK W/LBL ZT220D	1 /3	35027N	ZERK FITTING	2 /16
2720996	S-ENG DECK W/LBL ZT220D	2 /23	35027N	ZERK FITTING	15 /8
2720996	S-ENG DECK W/LBL ZT220D	5 /2	364152	BUSHING-1.378X1.750X1.000	11 /21
2720996	S-ENG DECK W/LBL ZT220D	6 /1	365956	DECAL	4 /18
2720996	S-ENG DECK W/LBL ZT220D	10 /4	365956	DECAL	12 /22
2720996	S-ENG DECK W/LBL ZT220D	14 /1	38020-01	CLEVIS YOKE, 3/8 PLATE	6 /29
2721028	S-PANEL W/BOB-CAT LABEL	10 /3	38020N	CLEVIS YOKE, 5/16 PLATE	1 /23
2721059	CABLE-BATT TO BREAKER	9 /26	38020N	CLEVIS YOKE, 5/16 PLATE	6 /8
2721060	LABEL-CONTROL PANEL	4 /6	38061A	SPINDLE SHIELD	10 /9
2721076.7	WLDMT-CRADLE	15 /20	38219	SPRING-TENSION	2 /20
2721076.7	WELDMENT-CRADLE	3 /1	38297	IDLER, 5 OD FLANGED	16 /19
2721076.7	WELDMENT-CRADLE	14 /20	38304-02	BRG, FLGD PLASTIC	1 /47
2721093	ARMREST RH	13 /2	38304-03	BRG-FLANGED PLASTIC	2 /9
2721094	ARMREST LH	13 /3	38315	NUT-SPINDLE	16 /34
2721099	LABEL - FUSE	4 /16	38345	PUMP BDP10L-119 HYDRGR	1 /2
2721126	KEYSWITCH ASSY W/BEZEL	9 /8	38345	PUMP BDP10L-119 HYDRGR	7 /14
2721126	KEYSWITCH ASSY W/BEZEL	10 /13	38345-01	S-2513018 SEAL KIT	8 /48
2721246	DAMPENER	1 /28	38345-02	S-2510008 POPPET VALVE-KIT	8 /51
2721298.7	WLDMT-CASTER ARM 61 RH	15 /22	38345-03	S-2510027 CHECK BALL KIT	8 /52
2721299.7	WLDMT-CASTER ARM 61 LH	15 /21	38345-04	S-2513017 HOUSING KIT	8 /54
2721300.7	WLDMT-CASTER ARM 52 RH	15 /17	38345-05	S-2510011 CHRGR RELIEF-KIT	8 /50
2721301.7	WLDMT-CASTER ARM 52 LH	15 /16	38345-06	S-2003040 HSG-CHRG PUMP	8 /6
2721306.7	WLDMT-CASTER YOKE	15 /2	38345-07	S-J1041008 GEROTOR ASSY	8 /7
2721307	CAP-BEARING	15 /14	38345-08	S-9004101-1340 O-RING	8 /8
2721324.7	WLDMT-BUMPER	5 /3	38345-09	S-2003020 SHAFT	8 /18
2721325.7	BUMPER-UPPER	5 /1	38345-10	S-9007375-0038 SCREW	8 /10
2721337	CLUTCH-ELECTRIC	2 /6	38345-11	S-9007314-0810 SCREW	8 /4
2721337	CLUTCH-ELECTRIC	9 /12	38345-12	S-9007314 CYL BLOCK KIT	8 /49
2721338.7	WLDMT-CLUTCH STOP	2 /7	38345-13	S-2513016 END CAP KIT	8 /53
2721355.7	STRAP-RADIATOR HINGE	12 /14	38345-14	S-2003067 GASKET	8 /5
2721450	BELTING-HINGE	12 /15	38348-01	BEARING-SPINDLE SEALED	16 /35
2721489	TANK-FUEL LH BOBCAT	10 /1	38369-01	ROD END BALL JOINT RH	1 /31
2721490	TANK-FUEL RH BOBCAT	10 /2	38369-02	ROD END BALL JOINT LH	1 /14
2721530.7	BRACKET-RELAY	1 /5	38371-01	BRG-NYLINER 3/8	13 /17
2721531	GUAGE-TEMP W/ALERT	10 /44	38382	SWITCH-N.O.	9 /28
2721570.7	PLATE-RADIATOR MTG	12 /19	38382	SWITCH-N.O.	11 /11
2721581.7	BRKT-FUEL BLEED VALVE	10 /31	38524	KNOB-4 PRONG 3/8-16	16 /4
2721624.7	BRKT-RADIATOR SWITCH	11 /13	38540	VALVE-FUEL W/FILTER	10 /19
2721626	LABEL-FUEL LINE BLEED	4 /17	38542	CLAMP-DOCUMENT TUBE	10 /7
2721630	HOSE-AIR CLEANER	11 /20	446118	LOCKWASHER-#10	10 /43
2721646	HINGE-50.8 X 470	12 /13	450766	SKT CAPSCREW 12-1.75X100	6 /31
2721661.7	PLATE-BACKING	12 /11	46335	SHAFT ASM-ROLLER	16 /8
2721662	BARRIER-AIR FLOW	12 /12	48016-11A	SHOSE,.25IDX.50ODX26 LG	10 /23
2721803	S-COOLER BRKT W/LABEL	12 /21	48016-11A	SHOSE,.25IDX.50ODX26 LG	10 /24
2721806	CAP-FUEL DIESEL 3.5	10 /6	48016-11A	SHOSE,.25IDX.50ODX26 LG	10 /25



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PART NO.	DESCRIPTION	FIG/ITEM	PART NO.	DESCRIPTION	FIG/ITEM
48016-13A	HOSE, .25IDX.50ODX2 LG	10 /33	64123-54	BLT-HEX 5/16-18X3/4	2 /38
48030N	HOUR METER ASSEMBLY	9 /6	64123-89	BLT-HEX 1/4-20X3/4	12 /23
48030N	HOUR METER ASSEMBLY	14 /2	64139-02	BLT-WLF 1/4-20X1/2	13 /6
48037A	BOOT, BATTERY TERMINAL	2 /34	64139-16	BLT-WLF 5/16-18X5/8	13 /5
48043-03C	S CUP, OUTER BEARING	15 /1	64140-5	COTTER PIN-1/8X1-1/2	15 /24
48043-04C	S CONE, OUTER BEARING	15 /15	64141-4	NUT-WLF 3/8-16	1 /11
48228A	CABLE CLIP-INSULATED	13 /18	64141-4	NUT-WLF 3/8-16	6 /25
48228A	CABLE CLIP-INSULATED	12 /27	64141-4	NUT-WLF 3/8-16	14 /11
48310	S BUSHING, FUEL TANK	10 /18	64141-6	NUT-WLF 5/16-18	13 /11
48383	CLAMP-HOSE SAE32	11 /19	64144-34	SNAP RING .50	6 /22
48393	PULLEY-V IDLER	16 /18	64144-38	SNAP RING	16 /36
48450-25	FOAM-2.0X10.50X.50	12 /24	64151-8	1/4-20 HEX LOCK NUT	12 /29
48480	SEAL CR 12411	15 /25	64152-20	8-32X1/2 MACH SCREW	11 /15
48524	CIRCUIT BREAKER 40A	9 /25	64152-20	8-32X1/2 MACH SCREW	12 /38
48524	CIRCUIT BREAKER 40A	10 /40	64152-23	1/4-20X3/8 LG SP SCREW	13 /19
58026	3 WAY CONNECTOR 1/4	10 /32	64152-23	1/4-20X3/8 LG SP SCREW	1 /46
58026-01	3 WAY CONNECTOR 3/8	7 /12	64152-46	SCR-SLT HH 10-24X1/2	1 /52
64001-1	NUT-HEX JAM, 5/8-18	16 /55	64152-46	SCR-SLT HH 10-24X1/2	10 /17
64006-01	LOCKWSHR-HELICAL 1/4	2 /29	64152-46	SCR-SLT HH 10-24X1/2	11 /12
64006-01	LOCKWSHR-HELICAL 1/4	10 /10	64163-03	WSHR-.256ID X .62OD X 18 GA.	10 /29
64006-01	LOCKWSHR-HELICAL 1/4	11 /5	64163-03	WSHR-.256ID X .62OD X 18 GA.	12 /26
64006-01	LOCKWSHR-HELICAL 1/4	12 /25	64163-03	WSHR-.256ID X .62OD X 18 GA.	12 /36
64006-02	LOCKWSHR-HELICAL 5/16	2 /56	64163-06	WSHR.768/.756X1.25X14G	6 /10
64006-03	LOCKWSHR-HELICAL 3/8	2 /21	64163-16	41/64X1-3/8X12GAWASHR	3 /21
64006-05	LOCKWSHR-HELICAL 1/2	6 /34	64163-29	21/64X1X11GA.WASHER	2 /35
64006-05	LOCKWSHR-HELICAL 1/2	16 /29	64163-29	21/64X1X11GA.WASHER	14 /30
64018-15	BLT-CRG 5/16-18X1	2 /34	64163-31	WASH.25/64X1X12 GA	12 /6
64018-2	BLT-CRG 1/4-20X3/4	16 /62	64163-34	WSHR.256/.267X1X11GA	2 /28
64025-03	NUT-HEX 5/16-24	1 /26	64163-34	WSHR.256/.267X1X11GA	12 /1
64025-04	NUT-HEX 3/8-24	6 /28	64163-46	WSHR.383/.393X.88X7GA	16 /31
64025-14	NUT-HEX #10-32	10 /42	64163-55	WSHR .328X.75X14 GA	1 /57
64025-15	NUT-HEX #10-24 KEPS	1 /53	64163-55	WSHR .328X.75X14 GA	2 /37
64025-15	NUT-HEX #10-24 KEPS	10 /16	64163-55	WSHR .328X.75X14 GA	12 /9
64025-15	NUT-HEX #10-24 KEPS	11 /10	64163-64	WSHR 1.015X1.500X14GA	15 /10
64025-20	NUT-HEX 3/4-16 SLOT U	15 /23	64163-65	WSHR .890X1.375X18GA	2 /17
64025-21	NUT-HEX 5/8-11	3 /20	64163-65	WSHR .890X1.375X18GA	3 /22
64025-29	NUT-HEX #8-32 KEPS	11 /16	64163-65	WSHR .890X1.375X18GA	14 /40
64025-29	NUT-HEX #8-32 KEPS	12 /39	64163-65	WSHR .890X1.375X18GA	16 /52
64025-31	NUT 1-20 UNSLOTTED TRW	6 /14	64163-73	WSHR-.625IDX1.12ODX0.062	16 /58
64025-33	NUT-HEX 5/16-24 LH	1 /55	64163-81	WASHER-1.140 X 2.0 X .25	2 /31
64044-18	SCREW-SET 5/16-18 x 5/16	2 /2	64164-08	S-KEY FOR WHEEL MOTOR	6 /32
64061-25	ROLL PIN-1/4X1-1/4	6 /17	64164-12	1/4X1/4X1 SQ END KEY	2 /4
64061-37	ROLL PIN-1/8X1.00 SS	14 /37	64164-12	1/4X1/4X1 SQ END KEY	16 /22
64123-05	BLT-HEX 1/2-20X1-1/2	16 /30	64164-13	1/4X1/4X2 SQ KEY	16 /17
64123-15	BLT-HEX 3/8-16X3/4	1 /45	64166-17	BLT-SHLDR 3/8-16X1.12	16 /6
64123-15	BLT-HEX 3/8-16X3/4	6 /24	64166-6	5/16X1/2 1/4-20 SHLD	12 /16
64123-15	BLT-HEX 3/8-16X3/4	14 /10	64168-1	COTTER-HAIRPIN .120X2-3/8	14 /39
64123-205	BLT-HEX 5/16-24X4	1 /21	64168-2	COTTER-HAIRPIN .08X1.19	13 /13
64123-206	BLT-HEX 5/8-11X4-1/2	16 /56	64168-2	COTTER-HAIRPIN .08X1.19	1 /25
64123-208	BLT-HEX 5/8-18X1.5	16 /46	64168-2	COTTER-HAIRPIN .08X1.19	6 /27
64123-209	BLT-HEX 5/8-18X3.5	16 /45	64168-2	COTTER-HAIRPIN .08X1.19	14 /21
64123-21	BLT-HEX 3/8-24X1-1/4	2 /22	64175-04	PUSHNUT 3/8 DIA	13 /16
64123-215	BOLT-HEX 3/4-10X7 1/2	15 /4	64175-05	PUSHNUT-1/2 ROD	14 /33
64123-50	BLT-HEX 3/8-16X1	16 /40	64188-02	PIN, CLEVIS 5/16X1	1 /24

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ZT 220D Series



PART NO.	DESCRIPTION	FIG/ITEM	PART NO.	DESCRIPTION	FIG/ITEM
64188-02	PIN, CLEVIS 5/16X1	6 /16	64237-03	LOCKNUT-NYLON M10-1.5	5 /5
64188-03	S PIN, CLEVIS 3/8X1-1/8	6 /26	64237-03	LOCKNUT-NYLON M10-1.5	12 /10
64188-36	PIN, CLEVIS 7/16X1-1/4	14 /34	64237-03	LOCKNUT-NYLON M10-1.5	14 /15
64188-38	PIN, CLEVIS 3/8X1 W/O HOLE	13 /15	64237-03	LOCKNUT-NYLON M10-1.5	16 /51
64188-53	PIN-CLEVIS 1/2X1.0	14 /29	64237-05	LOCKNUT-NYLON M8-1.25	1 /30
64192-03	SET SCREW 5/16-24X5/8	1 /33	64237-05	LOCKNUT-NYLON M8-1.25	2 /13
64197-003	BLT-TDFM 3/8-16X1.00	16 /14	64237-05	LOCKNUT-NYLON M8-1.25	11 /4
64197-004	BLT-TDFM 3/8-16X1-3/4	16 /16	64237-06	LOCKNUT-NYLON M12-1.75	15 /19
64197-015	BLT-TDFM 10-32X1/2 TORX HD	1 /37	64238-03	KEY-METRIC 5MM SQ X 28MM	2 /3
64197-016	BLT-TDFM 3/8-16X1/2	1 /8	64243-02	BLT-CRGM10-1.50X20	1 /50
64205-001	BLT-METRIC M8-1.25X20	1 /51	64246-02	NUT-WLF M8-1.25	1 /36
64205-001	BLT-METRIC M8-1.25X20	2 /10	64246-02	NUT-WLF M8-1.25	16 /26
64205-001	BLT-METRIC M8-1.25X20	11 /23	64246-03	NUT-WHIZ M10-1.50	1 /20
64205-001	BLT-METRIC M8-1.25X20	16 /10	64246-04	NUT-WHIZ M12-1.75	3 /25
64205-003	BLT-METRIC M8-1.25X30	1 /16	64251-003	WHSR-M8	2 /30
64205-007	BLT METRIC M10-1.50X20	1 /42	64251-004	WHSR-M10	1 /9
64205-007	BLT METRIC M10-1.50X20	3 /26	64251-004	WHSR-M10	3 /19
64205-007	BLT METRIC M10-1.50X20	10 /8	64251-004	WHSR-M10	5 /7
64205-007	BLT METRIC M10-1.50X20	16 /61	64251-004	WHSR-M10	10 /21
64205-008	BLT-METRIC M10-1.50X55	2 /39	64252-01	PIN-TAPER #5 X 2.5	7 /15
64205-008	BLT-METRIC M10-1.50X55	14 /4	65103A	BEARING BUSHING	2 /18
64205-011	BLT-METRIC M10-1.50X40	14 /13	69051-01	PLUG-PIPE 3/8	1 /49
64205-013	BLT-METRIC M6-1X12	2 /27	69053-05	HOSE-HYDRO 3/8 X 55	7 /7
64205-019	BLT-METRIC M10-1.50X80	2 /26	69216.7	CAP-RESERVOIR	7 /3
64205-025	BLT-METRIC M6-1.00X25	2 /41	800488	LOCK WASHER M10	1 /17
64205-025	BLT-METRIC M6-1.00X25	10 /38	800488	LOCK WASHER M10	2 /12
64205-025	BLT-METRIC M6-1.00X25	12 /33	800488	LOCK WASHER M10	10 /20
64205-029	BLT-METRIC M12X1.75X40	3 /24	800488	LOCK WASHER M10	14 /16
64205-038	BLT-METRIC M6-1.00X20	12 /18	806953	BOLT-BATTERY HOOK	1 /10
64207-01	NUT-HEX,M8-1.25	1 /39	810149	BUMPER-RUBBER	1 /48
64207-06	NUT-HEX M6-1	12 /35	85010N	ZERK, 1/4-28 STR SELF THRD	3 /12
64207-07	NUT-HEX M12-1.75	6 /33	85010N	ZERK, 1/4-28 STR SELF THRD	6 /21
64209-03	SPRING WASHER .67 ID	16 /21	85010N	ZERK, 1/4-28 STR SELF THRD	14 /31
64215-07	RIVET-POP IFI #84	3 /18	85010N	ZERK, 1/4-28 STR SELF THRD	15 /12
64220-02	BLT-WHL 7/16-20X.75 75D	6 /15	85010N	ZERK, 1/4-28 STR SELF THRD	16 /38
64221-04	E-RING .875	2 /24	85051	ZERK-1/8 PIPE	3 /2
64221-04	E-RING .875	3 /23	88042-01	CLAMP-HOSE 3/16	10 /36
64221-04	E-RING .875	14 /32	88042-02	CLAMP-HOSE 5/16	10 /37
64221-04	E-RING .875	16 /53	88042N	HOSE CLAMP	10 /12
64229-01	LOCK NUT-NYLON 1/4-20	12 /20	970162	ATT-ROPS 2 POST 2 SERIES	13 /20
64229-01	LOCK NUT-NYLON 1/4-20	16 /63	A1102966	BOLT-M6-1.00X16	10 /11
64229-02	LOCK NUT-NYLON 5/16-18	2 /36	A1102966	BOLT-M6-1.00X16	11 /6
64229-03	LOCK NUT-NYLON 3/8-16	16 /7	A1103051	BOLT-M8-1.25X25	1 /38
64229-06	LOCK NUT-NYLON 5/8-11	16 /44	A1104057	BOLT-M10-1.50X25	1 /19
64229-07	LOCK NUT-NYLON 3/4-10	15 /11	A1104057	BOLT-M10-1.50X25	3 /6
64229-08	LOCK NUT NYLON 5/16-24	1 /54	A1104057	BOLT-M10-1.50X25	5 /4
64237-02	LOCKNUT-NYLON M6-1.00	2 /42	A1104057	BOLT-M10-1.50X25	12 /3
64237-02	LOCKNUT-NYLON M6-1.00	10 /39	A1104057	BOLT-M10-1.50X25	14 /18
64237-02	LOCKNUT-NYLON M6-1.00	12 /17	A1104057	BOLT-M10-1.50X25	16 /50
64237-02	LOCKNUT-NYLON M6-1.00	16 /41	A110406	SCREW,M10X1.5X30 HH	1 /7
64237-03	LOCKNUT-NYLON M10-1.5	1 /12	A110406	SCREW,M10X1.5X30 HH	14 /14
64237-03	LOCKNUT-NYLON M10-1.5	2 /40	A1105061	BOLT-M12-1.75X30	15 /18
64237-03	LOCKNUT-NYLON M10-1.5	3 /7			

**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.