STEINER

SETUP, PARTS & MAINTENANCE MANUAL ZTM SERIES

Models:

442221 ZTM 219 19HP KAW W/52 SIDE DISCHARGE 442233 ZTM 225 25HP KAW W/61 SIDE DISCHARGE 442237 ZTM 227 27HP KLR W/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: 4126546



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.



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.

A AVERTISSEMENT

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

California Advertencia de la Proposicion 65

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



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.

IMPORTANT MESSAGE

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

Steiner 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

TABLE OF CONTENTS SAFETY	FIGURES	PAGE
ASSEMBLY AND SETUP		
MAINTENANCE CHART		
MAINTENANCE RECORD		9
MAINTENANCE		
ADJUSTMENTS		17-19
BELT REPLACEMENT		20, 21
SPECIFICATIONS		22-24
PART SECTION		
UPPER ENGINE DECK ASSY		
LOWER ENGINE DECK ASSY/CLUTCH		
BUMPER		
FUEL TANKS/CONTROL PANEL		
BRAKES/REAR WHEEL		
OIL COOLER		
HYDRAULICS		•
HYDROGEAR PUMP		
KAWASAKI WIRE HARNESS		
KOHLER WIRE HARNESS		,
SEAT ASSEMBLY & ROPS		
ELECTRIC DECK LIFT 61" DECKSTEERING/DECK LIFT 52" DECK		
STEERING/DECK LIFT 52" DECK		
CRADLE ASSEMBLY 61" DECK		
CRADLE ASSEMBLY 51 DECK		
CRADLE & CASTER ASSEMBLY		
52" SIDE DISCHARGE		
61" SIDE DISCHARGE		•
BELTS-CUTTERDECK		
DECALS-POWER UNIT		•
DECALS-CUTTERDECKS		, -

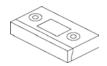
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NOTICE !!!

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
4126841 VIDEO-ZTM

A

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 Jacobsen 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.

A DANGER

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

AWARNING

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

ACAUTION

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

TEXTRON GOLF, TURF & SPECIALTY PRODUCTS MODEL NUMBER SERIAL NUMBER JOHNSON CREEK, WI MADE IN U.S.A

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)

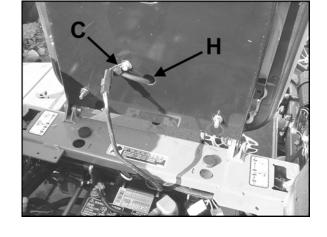
NOTE: All references below to the "right" or "left" are with respect to an operator at the controls.

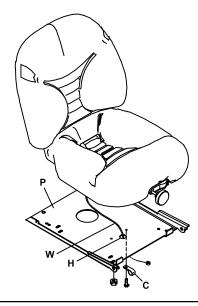
1. UNCRATE UNIT

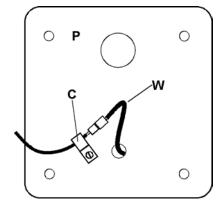
a) Discard packing materials. Remove and discard shipping brackets. Tighten caster wheel axle bolts against caster axle spanner bushings.

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.





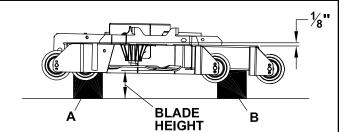


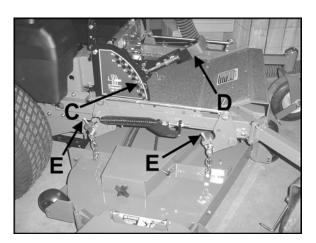
Bottom of seat plate P showing clip C

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

4. DECK LEVELING - 52" DECK

- 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.
- 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.

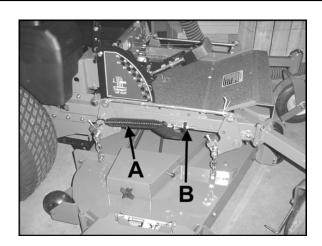




5. COUNTERBALANCE SPRINGS - 52" DECK

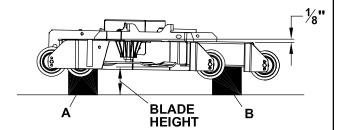
- a) Raise the cutterdeck all the way.
- b) Adjust the spring **A** with nut **B** to a length of 9-9/16" (242 mm)

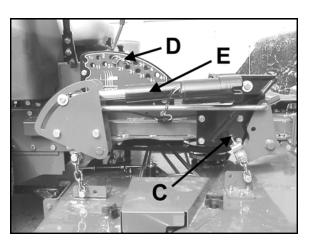
The springs may be tightened or loosened from this point according to personal preference.



6. DECK LEVELING - 61" DECK

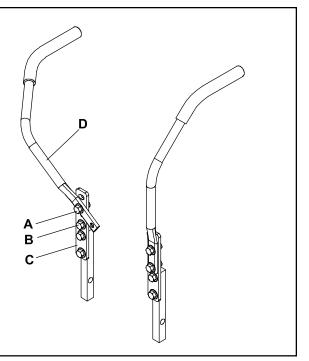
- a) Park the machine on a smooth, level surface.
 Raise the deck to the transport position.
 Remove pin **D**.
- b) Lower the deck onto a set of equal height blocks A under the rear corners of the deck. Place another set of blocks B under the front of the deck so that the deck top is pitched forward 1/8". Continue running the actuator in the "DOWN" direction, so there is plenty of float for the actuator E.
- **NOTE:** The front and rear of the deck are at different heights.
- c) Measure the height of the blade cutting edge above the ground. Install pin **D** in the hole corresponding to the blade height.
- d) Loosen the jam nuts on the height of cut clips and adjusting screws C. Turn the adjusting screws C 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.





7. 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.





8. 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.

AWARNING 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			ngoing job. rations. Perf								
OPERATION	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 off Oil Level		Х									
Check for Leaks		X									
Clean Air Intake Screen		Х									
Clean Air Cleaner Precleaner			X*								
Clean Air Cleaner Element					X	X**					
Clean Cooling Fins					Х						
Change Oil and Filter	х		See e	ngine manu	ıfacturer's n	nanual					
Check/Replace Spark Plugs						x					
			IEAVY DUTY AVY DUTY (
			YDRAULIC								
Check for Leaks		Х									
Check/Top off Oil Level					X						
Change Oil and Filter	X						Х				
			MACHINE								
Check Interlock Operation		Х									
Check Tire Pressures		Х									
Check/Top off Battery					х						
Lubricate All Points				X							



NOTES

GENERAL	DATE	HRS										
Check tire pressures												
Lubricate all points												
Check nuts & bolts												
ENGINE												
Check Engine Coolant Level (Where Applicable)												
Check oil level												
Change oil												
Clean air cleaner element												
Clean cooling fins												
Replace air cleaner element												
Clean & gap spark plugs												

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 Steiner 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

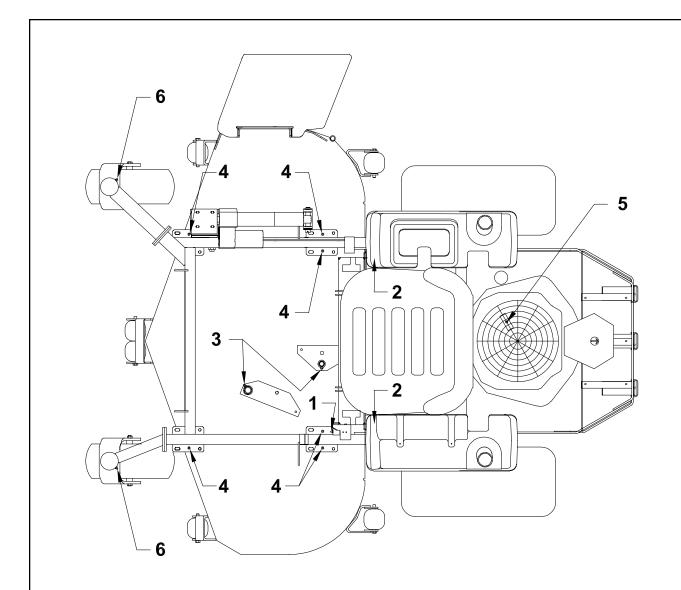
AWARNING Battery acid is caustic and fumes are explosive and can cause serious injury or death.

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.
- 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 (1-5) with grease:

- 1. Brake lever pivot (1 point)
- 2. Push arms (2 points located at rear of cutterdeck under each fuel tank)
- 3. Deck idler pivot bearings (2 points)
- 4. Deck lift pivots (6 points)
- 5. Hydro belt tensioner (1 point under engine deck)
- 6. 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 off (do not overfill). Use one of the oils listed below:

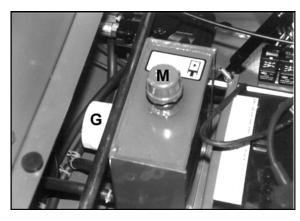
- SAE 15W40 motor oil
- SAE 20W50 motor oil
- 15W50 synthetic motor oil

AFTER FIRST FIVE (5) HOURS

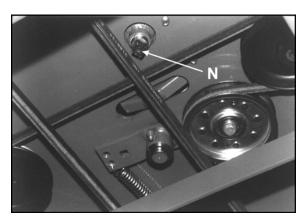
- Remove plug N to drain hydraulic reservoir.
 Dispose of used oil in accordance with local requirements.
- 2. Clean and replace the plug.
- 3. Change hydraulic oil filter G.
- Fill the reservoir with fresh oil to the bottom of the reservoir filler tube, using an oil from the list above. Do not overfill.

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, 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.

AWARNING

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.

FUEL FILTER

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

ENGINE OIL

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

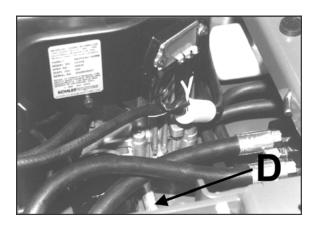
AFTER FIRST FIVE (5) HOURS

While the engine is warm:

- 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.
- 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

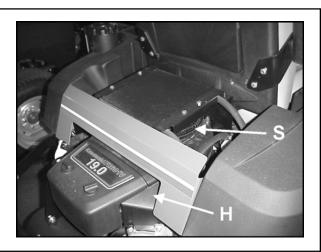
Remove each plug and check condition.

- 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. not
 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.

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.



DUAL ELEMENT AIR CLEANER

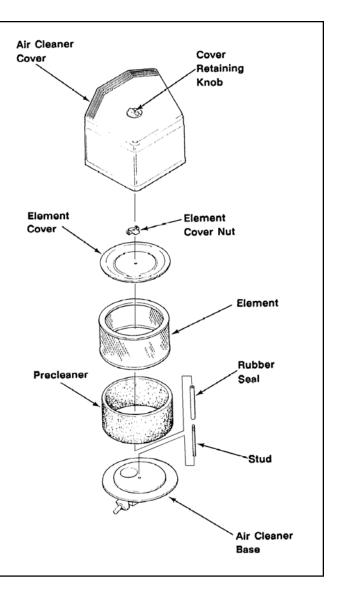
Engines equipped with dual element air cleaners have a paper air cleaner element with an oiled, foam precleaner element on the dirty side of the paper element. Both should be inspected regularly and maintained.

Clean and re-oil precleaner element every 25 hours (more often under dusty conditions).

- 1. Disassemble air cleaner cover.
- 2. Remove precleaner by sliding it off the paper cartridge.
- 3. Wash precleaner in kerosene or liquid detergent and water.
- 4. Wrap precleaner in cloth and squeeze to remove cleaner.
- 5. Saturate precleaner in engine oil. Squeeze to remove excess oil.
- Re-install precleaner over paper cartridge.
 Reassemble air cleaner components and screw assembly down tight.

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.

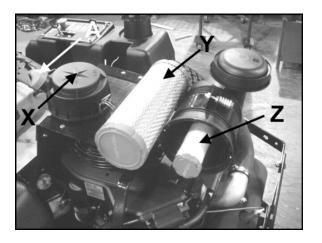


HEAVY DUTY CYCLONIC AIR CLEANER

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:

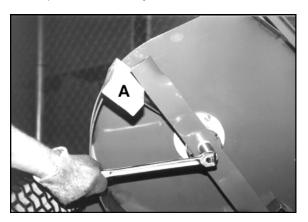
- 1. Unclamp end cover **X** and remove existing cleaner elements.
- Insert new elements Y and Z and replace cover.
 Ensure the breathing port A is pointing down and towards the front of the tractor.



BLADE REMOVAL

Follow these instructions to prevent injury during blade removal:

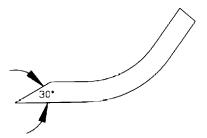
- Loosen with a box wrench or a socket and long breaker bar. To gain additional leverage, slip a long pipe or thick-walled tube over breaker bar or wrench.
- 2. Insert wood block **A** as shown, with grain perpendicular to blade, to prevent blade from turning when loosening.
- 3. Wear thickly padded 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 Steiner blades. Use of another manufacturer's blades may be dangerous.



BLADE BALANCE

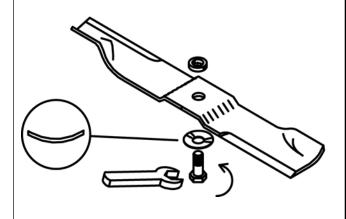
Blade balance must be maintained at 5/8 oz-in (19.4 g-cm) or less. Failure to keep blades balanced causes excess vibration, wear, and shortened life of most components of the machine.

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.

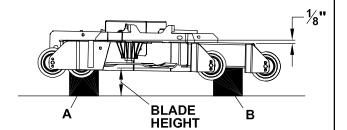
BLADE INSTALLATION

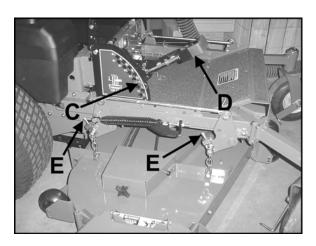
- 1. Wear thickly padded gloves to prevent cuts from the sharp blade.
- 2. Insert the blade bolt, in order, through the conical washer (cup side toward the blade, as shown), the blade, and the blade spacer.
- 3. Install assembly on the blade spindle.
- 4. Torque the blade bolt to 70 ft-lbs.



DECK LEVELING - 52" DECK

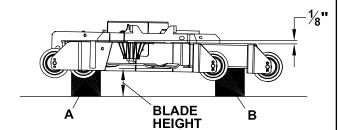
- a) Park the machine on a smooth, level surface. Raise the deck to the transport position.
- b) Lower the deck onto a set of equal height blocks A under the rear corners of the deck. Place another set of blocks B under the front of the deck so that the deck top is pitched forward 1/8".
- **NOTE:** The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

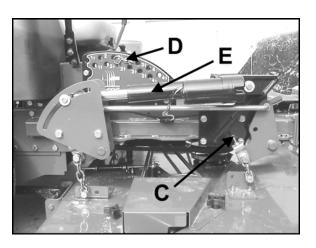




DECK LEVELING - 61" DECK

- a) Park the machine on a smooth, level surface.
 Raise the deck to the transport position.
 Remove pin **D**.
- 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". Continue running the actuator in the "DOWN" direction, so there is plenty of float for the actuator E.
- **NOTE:** The front and rear of the deck are at different heights.
- Measure the height of the blade cutting edge above the ground. Install pin **D** in the hole corresponding to the blade height.
- d) Loosen the jam nuts on the height of cut clips and adjusting screws C. Turn the adjusting screws C 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.





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. Raise 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.

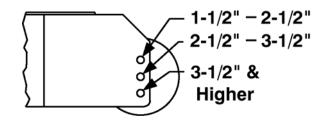
NOTES:

- 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.



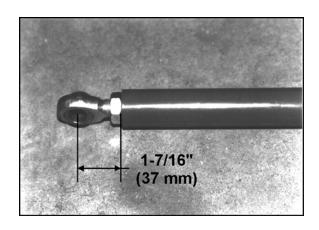
Height of cut ranges for roller adjustment

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.

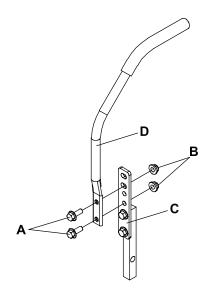
To adjust the height of the control levers:

- 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.

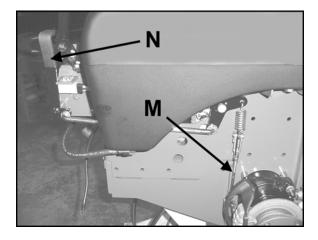


PARKING BRAKE

Start with parking brake ${\bf N}$ 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.
- 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).

BELTS

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

HYDROSTAT ADJUSTMENTS

A turnbuckle-style hydrostat neutral adjustment is provided.

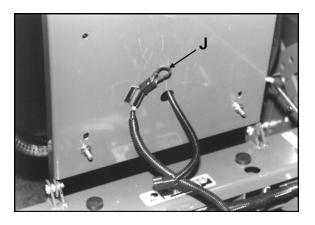
Neutral:

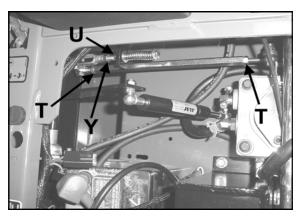
- Support the machine with the rear wheels off the ground. Use jackstands or equivalent support. Do not rely only on mechanical or hydraulic jacks.
- 2. Move the traction levers out into the neutral lock position and raise the seat.
- 3. Disconnect the seat switch and temporarily connect the two terminals 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.

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.
- 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.





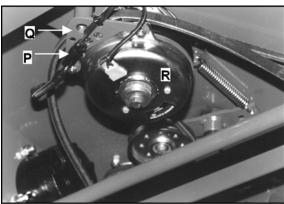
Right side adjustments (wiring harness and seat rod removed for clarity)

Note: Always use Steiner replacement belts, not general purpose belts. Steiner 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.
- 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.





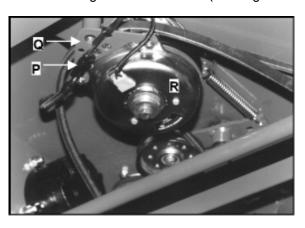
CUTTERDECK BELT

- 1. Set the cutterdeck in the lowest height-of-cut position.
- 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).



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).





POWER UNITS

ENGINES:

Construction: Aluminum block with cast-in cast iron sleeves. Aluminum head.

Configuration: 4-stroke, vertical shaft, V-twin cylinder, overhead valve, air-cooled.

DRIVE SYSTEM:

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)

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 12 gallons (46 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:

442221: 23 X 8.50-12 4-Ply Turf

Tread Tires

442233, 442237: 24 X 12.00-12 4-Ply Turf

Tread Tires

Casters: 13 X 5.00-6 4-Ply Smooth 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.

ENGINES								
MODEL NUMBERS	442221	442233	442237					
MANUFACTURER	Kawasaki	Kawasaki	Kohler					
MODEL	FH601V	FH721V	CV740S					
CYLINDERS	2	2	2					
COOLING	Air	Air	Air					
BORE/STROKE	2.96 X 2.99" (75.2 X 76 mm)	2.96 X 2.99" (75.2 X 76 mm)	3.27 X 2.64" (83 X 67mm)					
DISPLACEMENT	41.2 cu.in. (675 cc)	41.2 cu.in. (675 cc)	44 cu. in. (725cc)					
COMPRESSION	8.5:1	8.1:1	9:1					
OUTPUT POWER	19 hp (14.2 kw) @ 3600 rpm	25 hp (18.6 kw) @ 3600 rpm	27hp (20.1kw) @ 3600 rpm					
OUTPUT TORQUE	37.0 ft-lb (50.2 J) @ 2500 rpm	41.3 ft-lb (56.0 J) @ 2400 rpm	42.7 ft-lb (57.9 J) @3000 rpm					
LUBRICATION	FULL PRESSURE	FULL PRESSURE	FULL PRESSURE					
GOVERNOR	Mechanical	Mechanical	Mechanical					
AIR CLEANER	Dual element	Heavy duty cyclonic	Heavy duty cyclonic					
IGNITION SYSTEM	Electronic	Electronic	Electronic					
CHARGING SYSTEM	15 amp, regulated	15 amp, regulated	15 amp, regulated					
BATTERY	BCI group U1	BCI group U1	BCI group U1					
FUSES	Two, 20 amp blade	Two, 20 amp blade	Two, 20 amp blade					
FUEL CONSUMPTION @ MAX LOAD/ SPEED	1.7 gal./hr (6.5 l/hr)	2.3 gal./hr (8.8 l/hr)	2.3 gal./hr (8.8 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 I)	SAE 15W40 MOTOR OIL SAE 20W50 MOTOR OIL 15W50 SYNTHETIC	10 MICRON SPIN-ON REPLACEABLE

	CUTTERDECKS									
MODEL NUMBER	442221	442233, 442237								
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)								
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	18585 ft/min 5665 m/min @ 3600 Engine RPM	18850 ft/min 5745 m/min @ 3500 Engine RPM								
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, doublelayer 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

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)

ANTI-SCALP ROLLERS:

52" Cutterdecks - 6 Rollers 61" Cutterdecks - 7 Rollers

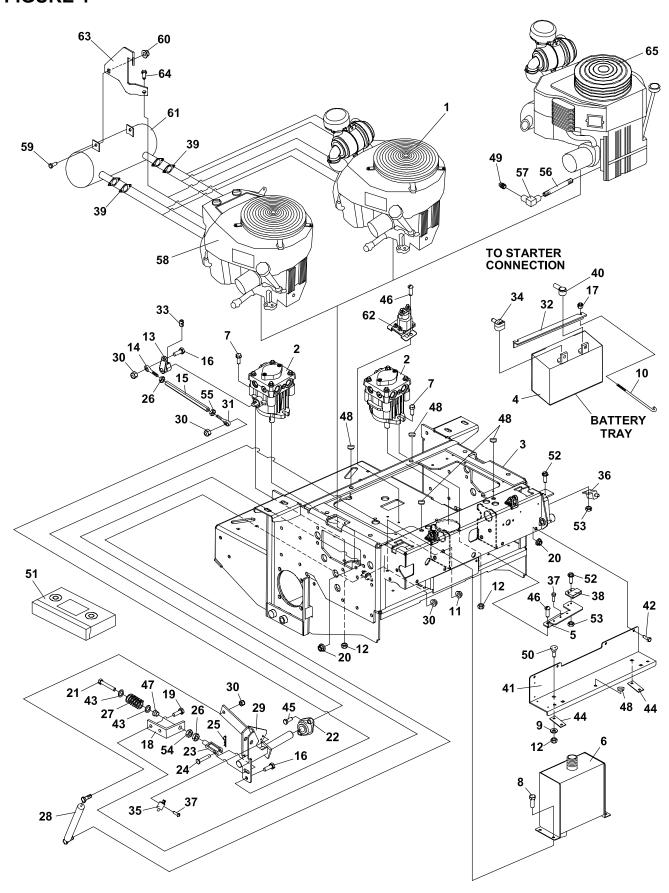
CUTTING HEIGHT:

Height - 52" Deck: 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.

Height - 61" Deck: Electric actuator 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.

PARTS SECTION

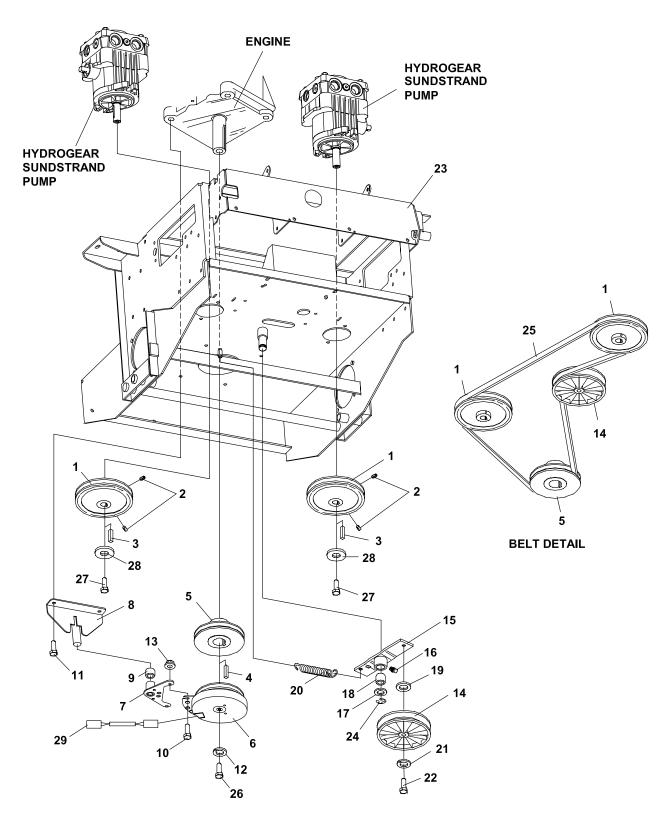
FIGURE 1



4126547-01 FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	4118340	ENG-KAW FHV 25 HDAC	1	1-40	2308095	COVER-TERMINAL	1
	4114746	S-AIR FILTER PRIMARY	1	1-41	2182404.7	PLATE-KICK	1
	4114747	S-AIR FILTER SAFETY	1	1-42	64263-011	BLT-FLG HD M10-1.5 X 20	4
	2722214	FILTER-OIL	1	1-43	64163-55	WASHER .328X.75X14 GA	4
	38666	FILTER-FUEL	1	1-44	2188146	STRIP, WEAR	2
				1-45	64123-15	BOLT-3/8-16X3/4 HEX	8
1-2	4121333	PUMP-HYDRO BDP-10A-4	402	1-46	64152-23	1/4-20X3/8 LG SP SCREW	4
	(SEE FIGU	JRE 8 FOR BREAKDOWN)		1-47	38304-02	BRG, FLGD PLASTIC	2
				1-48	810149	BUMPER-RUBBER	7
1-3	4126563	S-ENGINE DECK W/LABS	1	1-49	69051-01	PLUG-PIPE 3/8	1
1-4	108055	BATTERY	1	1-50	64243-02	BLT-CRG M10-1.50X20	4
1-5		BRACKET-RELAY MNTG	1	1-51	4126841	VIDEO-ZTM	1
1-6	2186211	S HYD RESERVOIR W/LA		1-52	64152-46	SCREW-SLT HH 10-24X1/2	
1-7		BLT-FLG HD M10-1.5 X 30		1-53	64025-15	NUT-HEX #10-24 KEPS	4
1-8		BLT-TDFM 3/8-16X1/2	4	1-54	64229-08	LOCKNUT NYLON 5/16-24	2
1-9		WHSR-M10	4	1-55	64025-33	NUT-HEX 5/16-24 LH	2
1-10	831861	BOLT, BENT BATT HOOK	2	1-56		NIPPLE-PIPE 3/8 X 5	1
1-11	64141-4	NUT-WLF 3/8-16	8	1-57		1ELBOW-3/8 PIPE, 90 DEG	1
1-12	64237-03	LOCKNUT-NYLON M10-1.		1-58	2720607	ENGINE-KAWASAKI FHV 1	
1-13	4118430	ARM-PUMP	2		2722212	FILTER-AIR KAWASAKI	1
1-14	38369-02	ROD END BALL JOINT LH			2722213	FILTER-PRE KAWASAKI	1
1-15	2188140	TURNBUCKLE	2		2722214	FILTER-OIL	1
1-16		BLT-MET M8-1.25X30	4 3 2		38666	FILTER-FUEL	1
1-17 1-18	64229-02	LOCKNUT-NYLON 5/16-18 BRKT-REVERSE RETURN			/ITEMS 20	46 % FO 64 FOR USE WITH	
1-16 1-19	A1104057		4			, 46 & 59-64 FOR USE WITH	
1-19	64246-03	NUT-WHIZ M10-1.50	8		NAWASAN	I ENGINES ONLY)	
1-20		BLT-HEX 5/16-24X4	2	1-59	64263 007	BLT-FLG HD M8-1.25 X 20	2
1-21	2188145	BEARING75IDSELF-ALIG		1-60	64266-02	NUT-FL LOCK M8-1.25	2
1-23	38020N	CLEVIS YOKE, 5/16 PLATI		1-61	2188226	ASSY-MUFFLER	1
1-24	64188-02	PIN, CLEVIS 5/16X1	2	1-62	38665	SOLENOID	1
1-25	64168-2	COTTER-HAIRPIN.08X1.1		1-63		BRKT-MUFFLER LH	1
1-26	64025-03	NUT-HEX 5/16-24	4			BRKT-MUFFLER RH	1
1-27	2188139	SPRING-COMPRESSION	2	1-64		BLT-FLG HD M6-1.0 X 16	4
1-28	2721246	DAMPENER	2	1-65	4123374	ENG-KOHLER CV740S 27H	IP1
1-29	4112105.7	WLDMT-MOTION CTRL R	H 1		4114746	S-AIR FILTER PRIMARY	1
		WLDMT-MOTION CTRL LI			4114747	S-AIR FILTER SAFETY	1
					842502	FILTER-OIL KOHLER	1
1-30	64237-05	LOCKNUT-NYLON M8-1.2	5 8		38666	FILTER-FUEL	1
1-31	38369-01	ROD END BALL JOINT RH	1 2				
1-32	2182427.7	HOLDDOWN-BATTERY	1				
1-33	64192-06	SETSCR SQHD 5/16-18X3	/4 2		* NO	OT ILLUSTRATED	
1-34	112386	BOOT,BAT TERM POS	1				
1-35		SWITCH DBL POLE	2				
1-36	2188156	SWITCH-NONO DBL POLI					
1-37		BLT-TDFM 10-32X1/2 TOF	X 7				
1-38	2188154	MODULE-DELAY	1				
1-39		GASKET-MUFFLER	2				
(AV	AILABLE TH	ROUGH KAWASAKI DEALE	ER)				

FIGURE 2



TORQUE TO 50 FT/LBS +/-10%

LOWER ENGINE DECK ASSY/CLUTCH

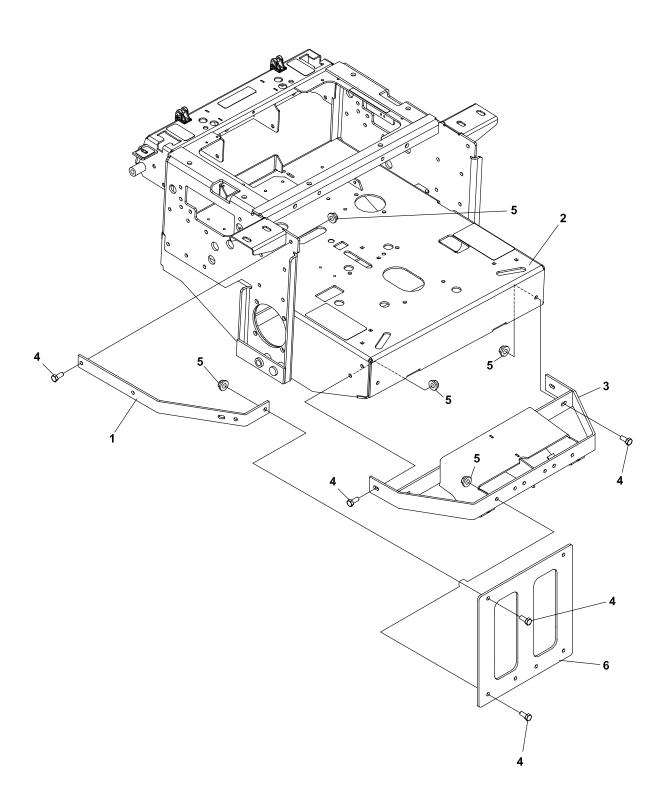
ZTM Series

4126547-02 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						
2-4		1/4X1/4X1-1/4 MACH KEY					
2-5 2-6	4121339	PULLEY-4.25 ENGINE CLUTCH-ELECTRIC	1 1				
2-0		ALL MODELS EXCEPT 19HI	-				
		S ITEMS 29 & 30)	,				
	2722016	CLUTCH-ELECTRIC 19HF	1				
		9HP MODELS ONLY)	•				
	,	S ITEMS 29 & 30)					
2-7		WLDMT-CLUTCH STOP	1				
	,	ALL MODELS EXCEPT 19HI	,				
		WLDMT-CLUTCH STOP	1				
	(USE ON 1	9HP MODELS ONLY)					
2-8	2186147.7	WLDMT-CLUTCH BRACK	ET 1				
2-9		BEARING-FLANGED PLS					
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 7/1	6 1				
2-13	64265-04	NUT-FL NYL LOCK M8-1.2	25 2				
2-14	2308000		1				
2-15		WLDMT-IDLER ARM	1				
2-16	85010N	ZERK, 1/4-28 STR SLFTH					
2-17 2-18	64163-65 65103A	WASHER890X1.375X180 BEARING BUSHING	ا Α <i>و</i> 1				
2-16 2-19	33148-01	SPACER-0.379X0.750X0.2	-				
2-19	38219	SPRING-TENSION	1				
2-21		WSHR, 3/8 HELICAL LOC	-				
2-22	64123-21	,	1				
2-23	4126563	S-ENGINE DECK W/LABS	1				
2-24	64221-04	E-RING.875	1				
2-25	2188128	BELT-TRACTION DRIVE	1				
2-26		BLT-HEX 7/16-20X3	1				
2-27		BLT-MET M6-1X12	2				
2-28		WASHER-CONICAL SPRI					
2-29	2720949	ASSY-CLUTCH WIRE	1 NT4				
2-30	*4121560	KIT-BRAKE POLE RPLCM	N I T				

* NOT ILLUSTRATED

FIGURE 3



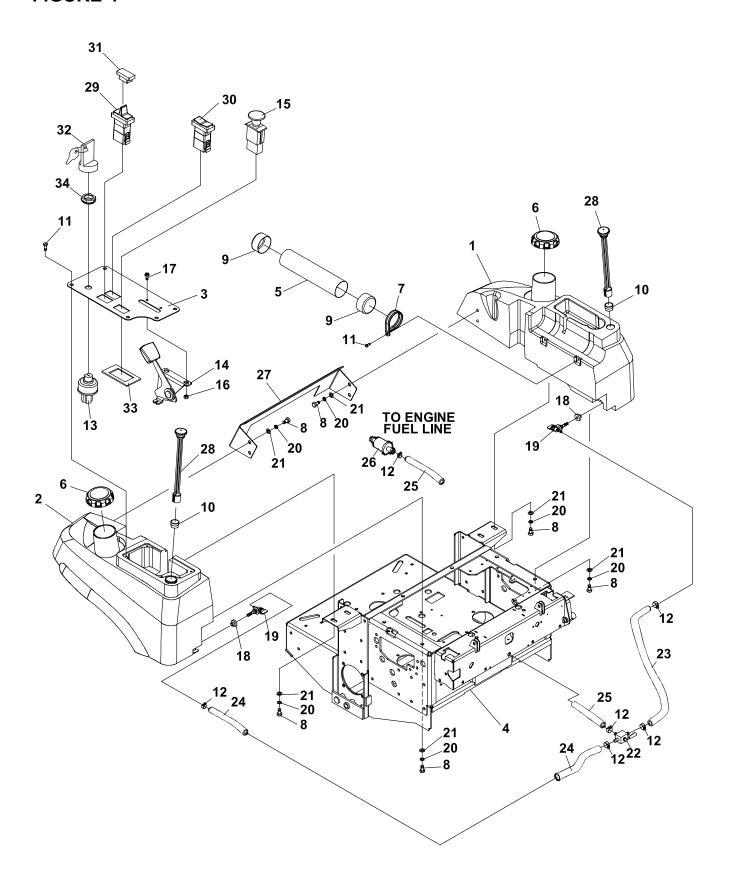
BUMPER



4126547-03 FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	2722296.7	ARM-BUMPER	2				
3-2	4126563	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	10				
3-5	64265-05	NUT-FL NYL LOCK M10-1.	5 10				
3-6	2721932.7	BRACE-VERTICAL	1				

FIGURE 4



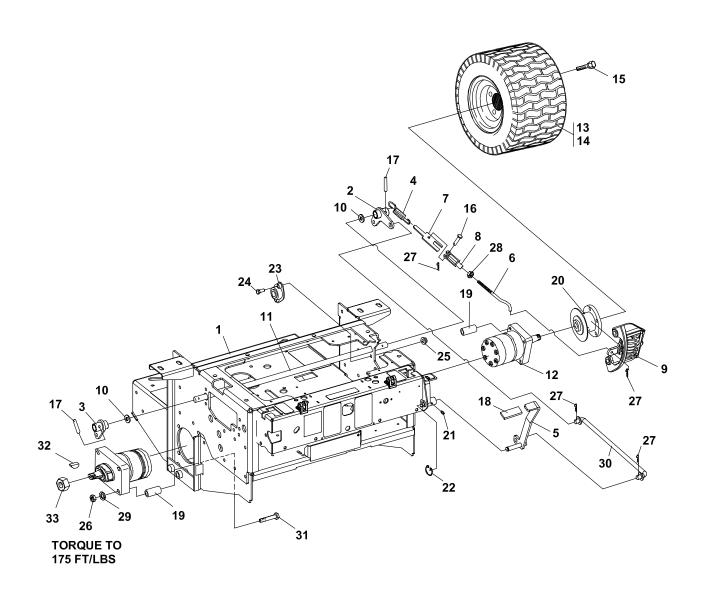
FUEL TANKS/CONTROL PANEL

ZTM Series

4126547-04 FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	4124375	TANK-FUEL LH	1				
4.0	,	S ITEMS 18 & 19)	_				
4-2		TANK-FUEL RH	1				
12	•	S ITEMS 18 & 19)	D 1				
4-3 4-4	4124373 4126563	S CONTROL PANEL W/LAI S ENG DECK W/LABS	ว เ 1				
4- 4 4-5		S-DOC TUBE W/LABS	1				
4 -5		CAP-FUEL TANK	2				
4-7	38542	CLAMP-DOC TUBE	2				
4-8		BLT-MET M10-1.5X20	12				
4-9	38061A	SPINDLE-SHIELD	2				
4-10		GROMMET-GAUGE	2				
4-11	64263-001	BLT-FLG HD M6-1.0 X 12	7				
4-12	88042N	HOSE CLAMP	6				
4-13	128010	KEY-SWITCH	1				
4-14		CONTROL, THROTTLE	1				
	,	LER ENGINE)					
		CONTROL, THROTTLE	1				
	(FOR KAW	ASAKI ENGINE)					
4-15	2188153	SWITCH-CLUTCH	1				
4-16		NUT-HEX #10-24 KEPS	2				
4-17		SCRSLT HH #10-24X1/2	2				
4-18	48310	S BUSHING, FUEL TANK	2				
4-19	38540	S FUEL SHUTOFF VALVE	2				
4-20	800488	LOCKWASHER M10	12				
4-21 4-22		WASHER-M10 VALVE-TANK SELECTOR	12 1				
4-22		HOSE 1/4IDX1/2ODX2.00	1				
4-24		HOSE 1/4IDX1/2ODX1.84	1				
4-25		HOSE 1/4IDX1/2ODX1.67	1				
4-26	38666	FUEL FILTER	1				
4-27		BRKT-REAR BANNER	1				
		19 HP MODEL ONLY)					
4-28	2721945	GAUGE-REMOTE FUEL	2				
4-29	2721814		1				
. 20		25 & 27 HP MODELS ONLY	•				
	`		,				
4-30	2721815	SWITCH-LIGHT ON/OFF	1				
4-31		PLUG-SWITCH HOLE	1				
	(USED ON	19 HP MODEL ONLY)					
4-32	128010-03	S-COVERED KEY	1				
4-33		SWITCH-RETAINER	1				
4-34		S-KEY SWITCH NYLON NU	JT 1				

FIGURE 5



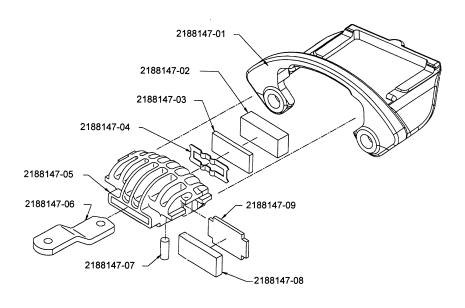
ZTM Series

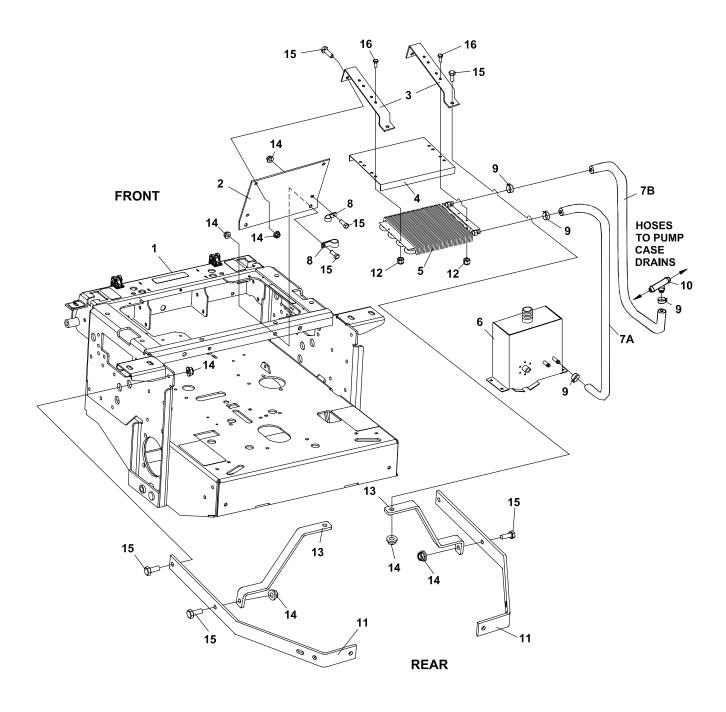
4126547-05 FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	4126563	S-ENGINE DECK W/LABS	1	5-22	64144-34	SNAP RING.50	1
5-2	4113527.7	WLDMT-BRAKE ARM LH	1	5-23	2188145	BEARING75ID SELF AL	IGN 2
5-3	4113529.7	WLDMT-BRAKE ARM RH	1	5-24	64123-15	BOLT-3/8-16X3/4 HEX	4
5-4	128102	SPRING, EXTENSION	2	5-25	64141-4	NUT-WLF 3/8-16	4
5-5	4113518.7	WLDMT-BRAKE LEVER	1	5-26	64207-07	NUT-HEX M12-1.75	8
5-6	33213	ROD-SPD CTRL UPPER	2	5-27	64168-2	COTTER-HAIRPIN.08X1.	19 6
5-7	2182387.7	GUIDE-SPRING	2	5-28	64025-03	NUT-HEX 5/16-24	2
5-8	38020N	CLEVIS YOKE, 5/16 PLATE	Ξ 2	5-29	64006-05	LOCKWSHR-HELICAL 1/2	2 8
5-9	2188147	ASSY, BRAKE CW (LH)	1	5-30	4113530	WLDMT-PRK BRAKE RO	D 1
	* 2188148	ASSY BRAKE CCW (RH)	1	5-31	450767	CAPSCREW 12-1.75X110	8 (
5-10	64163-06	WSHR,.768/.756X1.25X14	G 2	5-32	64164-08	S-KEY FOR WHEEL MOT	OR 2
5-11	2183056	SHAFT, BRAKE	1	5-33	64025-31	NUT 1-20 UNSLOTTED T	RW2
5-12	2188126-0	1MOTOR-ASSY HYDRAULI	C 2				
	(INCLUDES	S ITEMS 32 & 33)					
5-13	2722001-0	1RIM ASM-W/VALVE STEM	2				
	1985085-02	2 TIRE 24X12.00-12NHS 4P	LY2				
	(ITEM 13 L	JSED ON 442233 & 442237)		SER	VICE PART	S FOR 2188147 AND 2188 C	3148 QTY/ASSY
5-14		1RIM ASM, W/VALVE STEM		2188	3147-01 BR	ACKET-MACHINED	1
		2TIRE-23 X 8.50-12	2			D-CAM SIDE	1
	(ITEM 14 L	JSED ON 442221)				D-SUPPORT	1
				2188	147-04 SP	RING-LEVER RETAINER	1
5-15	64220-02	BLT-WHL 7/16-20X.75 75D				USING	1
5-16	64188-02	PIN, CLEVIS 5/16X1	2			M LH	1
5-17	64061-25	ROLL PIN-1/4X1-1/4	2	2188	147-07 PI\	OT PIN	1
5-18	2188155	GRIP, 1/4X1X4-1/2	1			D-CARRIER SIDE	1
5-19		1SPACER, 32MM LONG	8			D-SUPPORT	1
5-20 5-21	2188149 85010N	HUB, WHEEL AND DISC ZERK, 1/4-28 STR SLFTHF	2 RD 1		148-01 *C/		1

* NOT ILLUSTRATED

BRAKE ASSEMBLY BREAKDOWN



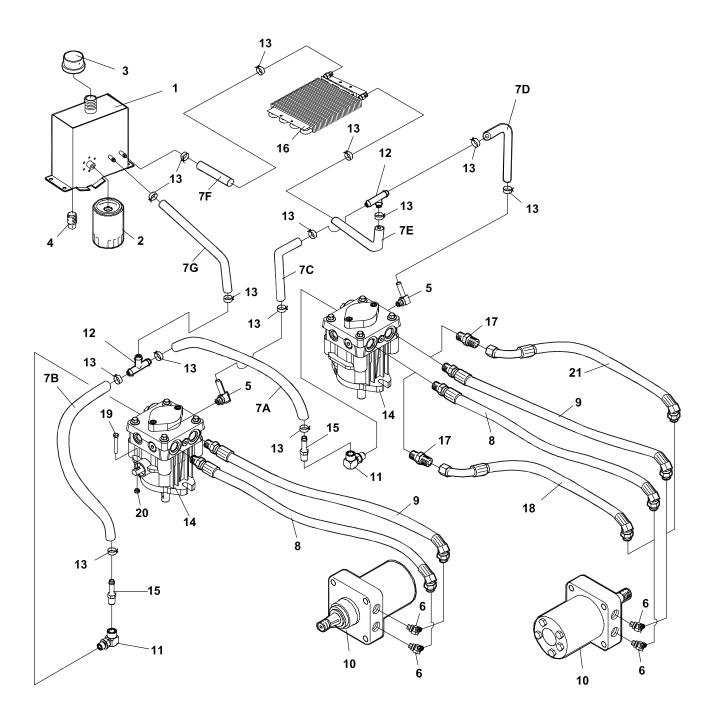


OIL COOLER



4126547-06 FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1	4126563	S ENGINE DECK W/LABS	1				
6-2	2722339.7	BRKT-COOLER FRONT	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				
(690	53-05 IS A SI	ERVICEABLE LENGTH OF 5	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	48228-2A	CABLE-CLIP 3/4 W/INSTN	2				
6-9	88042-04	CLAMP-3/4 CLIP	4				
6-10	58026-01	3 WAY CONNECTOR 3/8	1				
6-11	2722296.7	ARM-BUMPER	2				
6-12	64237-02	LOCKNUT-NYLON M6-1.00) 4				
6-13	2721928.7	BRACKET-REAR COOLER	2				
6-14	64265-05	NUT-FL NYL LOCK M10-1.	5 11				
6-15	64263-013	BLT-FLG HD M10-1.5 X 30	11				
6-16	64263-002	BLT-FLG HD M6-1.0 X 16	4				



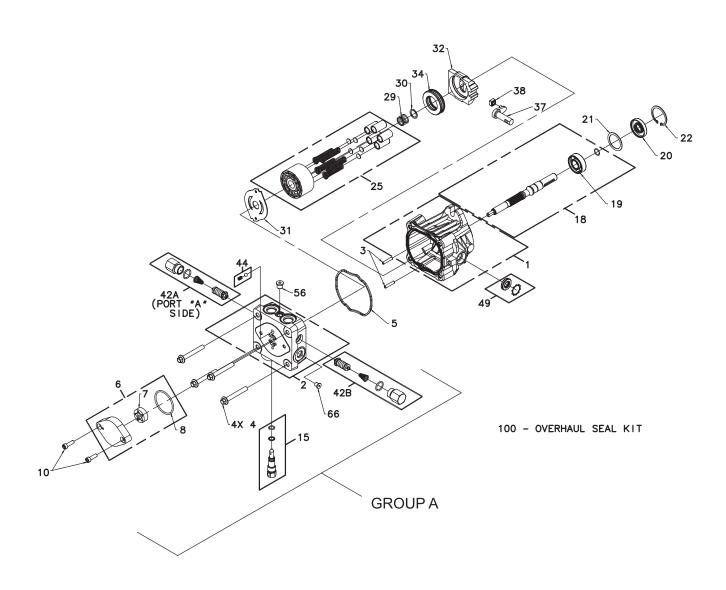
HYDRAULICS

ZTM Series

4122811-06 FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY
7-1	2186211	S HYD RESERVOIR W/LAE	3 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		2
7-6	108205-03	ELBOW-MALE 45 37-ORB	4
	53-05 IS A S	ERVICEABLE LENGTH OF 5	5")
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 7-7G	69053-05 69053-05	3/8 HIGH TEMP HSE 26" 3/8 HIGH TEMP HSE 5"	1 1
7-7G	69053-05	3/8 HIGH TEMP HSE 5	ı
7-8		1HOSE HYD ORB 37-22.38	2
	(QTY OF 1	FOR KAWASAKI ENGINE)	
7-9	2188157-02	2HOSE HYD ORB 37-25.00	2
7-10		1MOTOR-ASSY HYD	2
7-11	2690030-0	1FTG 9/16-18 ORB X 3/8	2
7-12	58026-01		2
7-13	88042-04	CLAMP-HOSE 5/8	14
7-14	4121333	PUMP-HYDRO BDP-10A-44	
7-15	48386-04	FITTING-3/8 BARB 1/4	2
7-16	2188173	OIL COOLER	1
7-17 7-18	48089-03	FTG-STRGHT 8 ORB X 8 J 1HOSE-1/2 37/45 37 26.25	1
		FOR KAWASAKI ENG ONLY	•
(LINIO ITAIO		,
7-19	64123-60	BOLT, 1/4-20X2 HEX	2
7-20	64229-01	LOCKNUT-NYL 1/4-20	2
7-21		2HOSE-1/2 37/45 37	1
	(ITEM 21 F	OR KAW 25HP ENG ONLY)	

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						

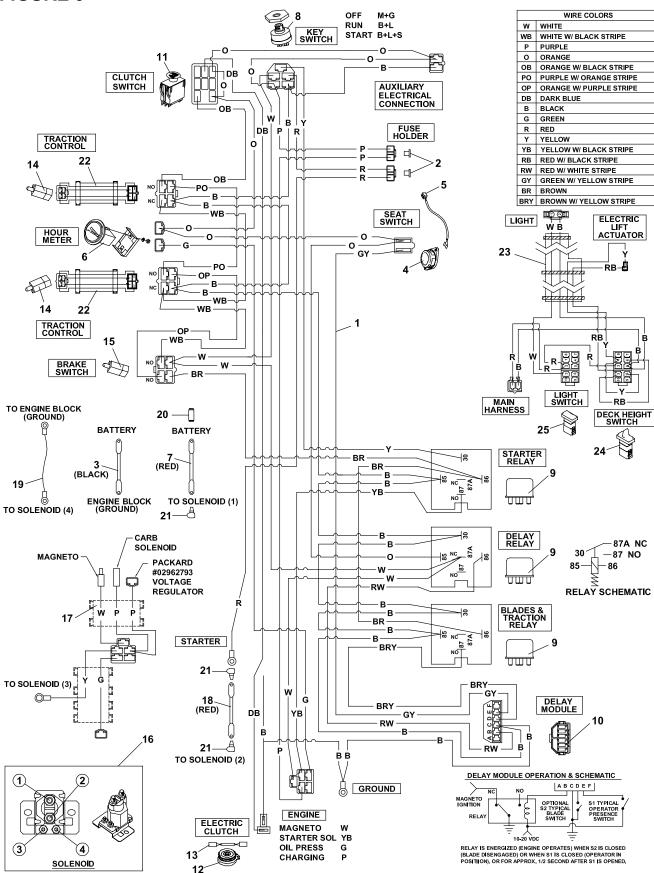




4122811-07 FIGURE 8

	III DROGLART ART 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

ZTM Series

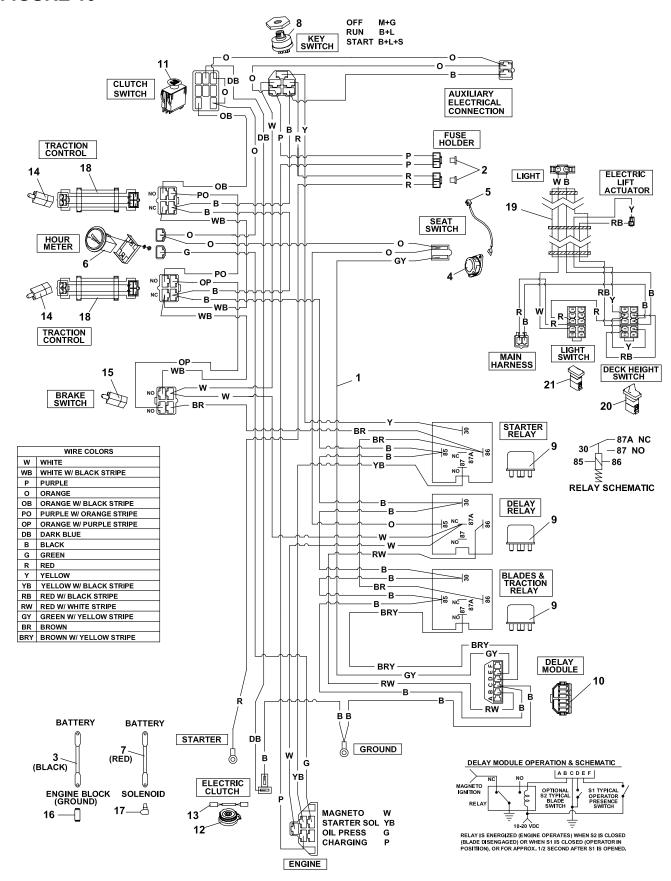


KAWASAKI WIRE HARNESS

ZTM Series

4126547-09 FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
9-1	2721375	HARNESS-WIRING MAIN	1				
9-2	148082-20	FUSE-20 AMP	2				
9-3	108061-13	CABLE-BATTERY 36 BLAC	CK 1				
9-4	4124009	SWITCH-SEAT, NO	1				
9-5	158136	WIRE-SEAT SWITCH	1				
9-6	48030N	HOUR METER ASSEMBLY	′ 1				
9-7		1CABLE-BATT W/CONDUIT S ITEMS 20 & 21)	1				
9-8	128010	KEY-SWITCH	1				
9-9	2722325	RELAY-40AMP SEALED	3				
9-10	2188154	MODULE-DELAY	1				
9-11	2188153	SWITCH, CLUTCH	1				
9-12	2721337	CLUTCH-ELECTRIC	1				
	(USE ON A	LL MODELS EXCEPT 19HP	')				
	(INCLUDES	S 2720949 WIRE ASSY)					
	2722016	CLUTCH-ELECTRIC 19HP	1				
		9HP MODELS ONLY)					
	(INCLUDES	S 2720949 WIRE ASSY)					
9-13	2720949	ASSY-CLUTCH WIRE	1				
9-14	108208	SWITCH-DBL POLE	2				
9-15	2188156	SWITCH-NONO DBL POLE	Ξ 1				
9-16	38665	SOLENOID	1				
9-17	2188224	HARNESS-JUMPER	1				
9-18	108061-04	CABLE-BATTERY 20 RED	1				
9-19	2188225	WIRE-GROUND	1				
9-20	112386	BOOT-BAT TERM POS	1				
9-21	2308095	COVER-TERMINAL	3				
9-22	2188172	HARNESS-PIGTAIL	2				
9-23		HARNESS-CONTROL PNL	. 1				
9-24	2721814		1				
	(USED ON	25 & 27 HP MODELS ONLY	')				
9-25	2721815	SWITCH-LIGHT	1				

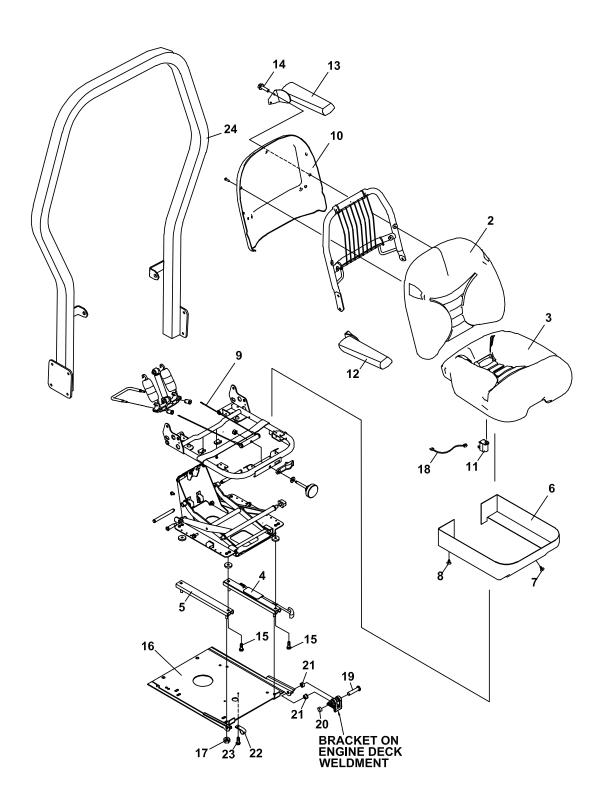


KOHLER WIRE HARNESS

ZTM Series

4126547-10 FIGURE 10

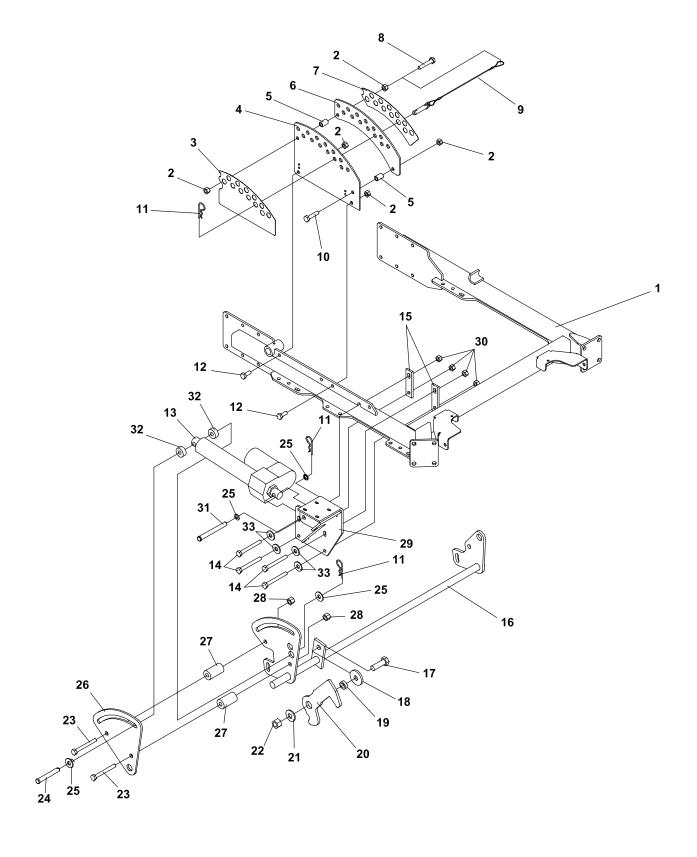
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1 10-2 10-3 10-4 10-5 10-6 10-7	108061-13 4124009 158136 48030N 2722227-02	HARNESS-WIRING MAIN FUSE-20 AMP CABLE-BATTERY 36 BLAC SWITCH-SEAT, NO WIRE-SEAT SWITCH HOUR METER ASSEMBLY 2CABLE-BATT W/CONDUIT S ITEMS 16 & 17)	1 1 ′ 1				
10-8 10-9 10-10 10-11 10-12	2188153 2721337 (USE ON A (INCLUDES 2722016 (USE ON 1	KEY-SWITCH RELAY-40AMP SEALED MODULE-DELAY SWITCH, CLUTCH CLUTCH-ELECTRIC ALL MODELS EXCEPT 19HF 3 2720949 WIRE ASSY) CLUTCH-ELECTRIC 19HP 9HP MODELS ONLY) 5 2720949 WIRE ASSY)	,				
	2720949 108208 2188156 112386 2308095 2188172 2721903 2721814 2721815	ASSY-CLUTCH WIRE SWITCH DBL POLE SWITCH-NONO DBL POLE BOOT-BAT TERM POS COVER-TERMINAL HARNESS-PIGTAIL HARNESS-CONTROL PNL SWITCH-DECK HEIGHT SWITCH-LIGHT	1 1 2				



ZTM Series

4122811-14 FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	4122479	SEAT-SUSPENSION	1				
	(INCLUDES	S ITEMS 2-15)					
44.0	4400470.04	ACHELHON CEAT DACK	4				
11-2 11-3		1CUSHION-SEAT BACK 2CUSHION-SEAT BOTTOM	1 1				
11-3		BSLIDE RAIL-ADJUSTER	1				
		SSLIDE RAIL-ADJUSTER SSLIDE RAIL-SLAVE	1				
			1				
		SSKIRT-SEAT ASSY	3				
		SCLIP-SMALL XMAS TREE	•				
		7CLIP-LARGE XMAS TREE	4				
_		BASSY-CABLE	1				
		BACK PANEL-SEAT	1				
	4124009		1				
		ARMREST-RH	1				
		ARMREST-LH	1				
		BOLT-HEX 5/16-18X1	4				
	64123-54	BOLT, 5/16-18X3/4 HEX	4				
		PLATE-SEAT	1				
	64141-6	NUT-WLF 5/16-18	4				
_		WIRE-SEAT SWITCH	. 1				
		PIN-CLEVIS3/8X1-3/8W/OF					
_		PUSHNUT 3/8 DIA	2				
		BRG-NYLINER 3/8	4				
	48228A		1				
11-23	64152-23	SCREW 1/4-20X3/8	1				
	OI	PTIONAL ROPS:					
11-24	970162	ATT-ROPS					
•	(INCLUDES						
11-25	*2208260	S-SEAT BELT	1				
	* NI	OT ILLUSTRATED					
	" NO	JI ILLUƏ IKATED					

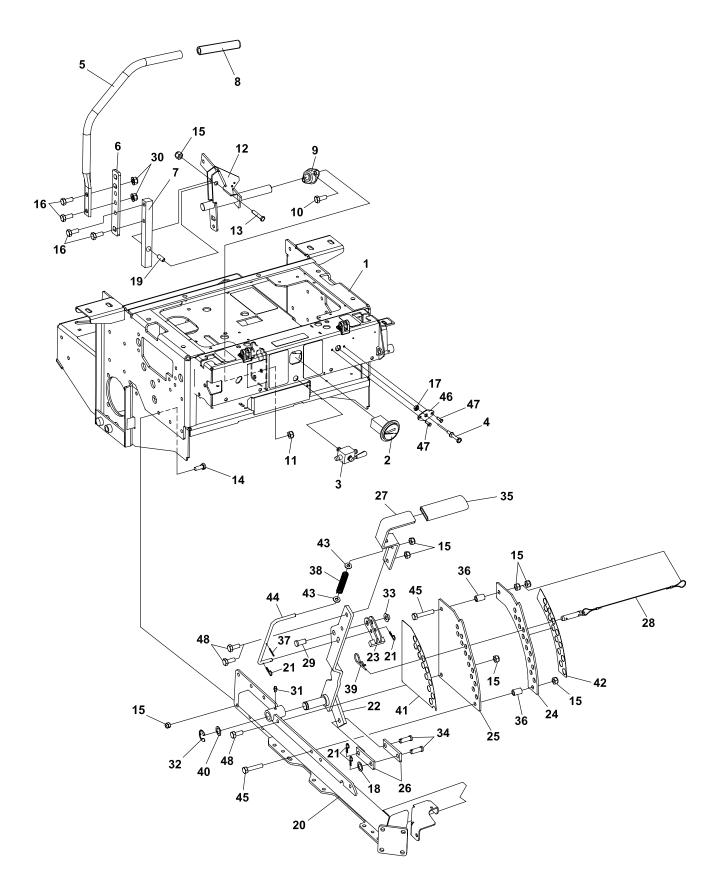


ELECTRIC DECK LIFT 61" DECK

ZTM Series

4126547-12 FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	2722723.7	WLDMT-CRADLE	1				
12-2	64237-03	LOCKNUT-NYLN M10-1.5	5				
12-3	2000791	LBL-OUTSIDE HOC	1				
12-4	2182523.7	PLATE-HEIGHT ADJ OUT	ER1				
12-5	2183071-03	3SPACER	2				
12-6	2182524.7	PLATE-HEIGHT ADJ INNE	R 1				
12-7	2000790	LABEL-INNER HOC	1				
12-8	64205-008	BLT-MET M10-1.50X55	1				
12-9	2188141	ASSY, PIN & LANYARD	1				
12-10	64205-034	BLT-MET M10-1.50X45	1				
12-11	64168-1	PIN-COTTER .120X2-3/8	3				
12-12	A1104057	BLT-MET M10-1.5X25	2				
12-13	2720642	ACTUATOR-LINEAR 12VE	OC 1				
12-14	64205-009	BLT-MET M10-1.5X65	4				
12-15	2721644.7	PLATE-BOLT	2				
12-16	2722614.7	WLDMT-ELECTRIC LIFT	1				
12-17	64205-055	BLT-MET M16-2.0 X 50	1				
12-18	64163-78	WASHER635 X 2.00	1				
12-19	2183084	SPACER-16.25X50.8X8.5L	_G 1				
12-20	2182522.7	LEVER-DECKLIFT	1				
12-21	64209-03	SPRING WASHER .67 ID	1				
12-22	64237-04	LOCKNUT-NYLON M16-2.	0 1				
12-23	64263-022	BLT-FLG HD M12-1.75 X 9	90 2				
12-24	64188-40	PIN, CLEVIS 1/2 X 3-1/2	1				
12-25	64163-19	WSHR-33/64X1-1/4X12GA	4				
12-26	4112962.7	PLATE-DECKLIFT ELECT	1				
12-27	2183077	SPACER-DECKLIFT	2				
12-28	64265-06	NUT-FL NYL LOCK M12-1	.752				
12-29	2721645.7	WLDMT-EL LIFT MTG BRI	KT 1				
12-30	64265-05	NUT-FL NYL LOCK M10-1	.5 4				
12-31	64188-43	PIN-CLEVIS	1				
12-32	2188227	SPACER 1.25 X 0.50 X 0.5	52 2				
12-33	64251-004	WHSR-M10	4				

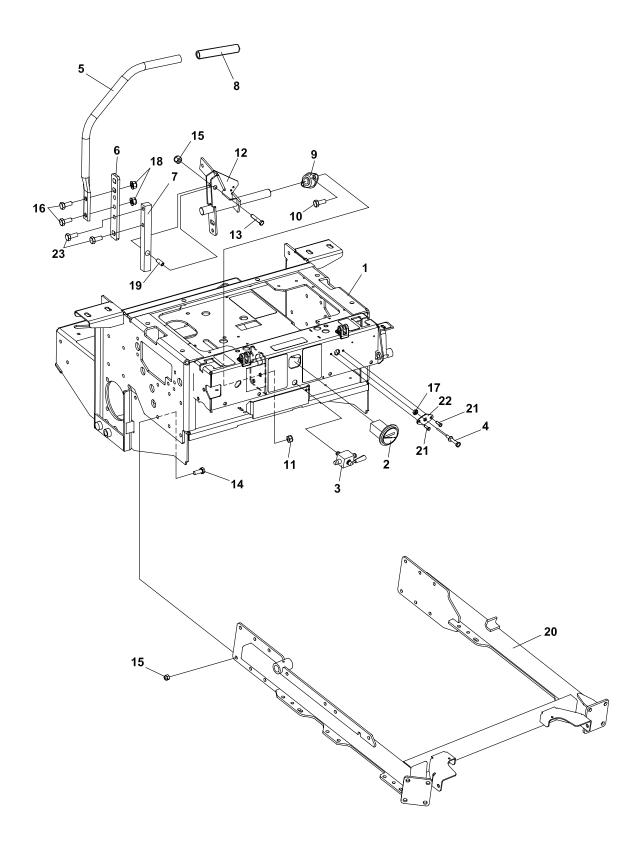


STEERING/DECK LIFT 52" DECK

ZTM Series

4126547-13 FIGURE 13

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
13-1	4126563	S ENGINE DECK W/LABS	1				
13-2	48030N	HOUR METER ASSEMBLY					
13-3	2188161	VALVE-TANK SELECTOR	1				
13-4	108009-03	CONTROL-CHOKE 51.0	1				
13-5	4122172.7	LEVER-TRACTION CNTRL	2				
13-6	4122173.7	BRKT-TRACTION LEVER	2				
13-7	2183074	BRKT-HANDLE	2				
13-8	2188144	GRIP75 IDX12	2				
13-9	2188145	BEARING75ID SELF ALIG	N 4				
	64123-15	BOLT-3/8-16X3/4 HEX	8				
13-11	64141-4	NUT-WLF 3/8-16	8				
		WLDMT-MTN CONTRL RH	1				
		WLDMT-MTN CONTRL LH	1				
		BLT-MET M10-1.50X40	2				
	A110406	SCREW,M10X1.5X30 HH	12				
		LOCKNUT-NYLON M10-1.5					
		BLT-FLG HD M10-1.5 X 25	8				
		NUT-HEX 3/8-24	1				
		WSHR.443/.454X1X11GA	1				
	2183073	SPACER	2				
		WLDMT-CRADLE	1				
13-21	64168-2	COTTER-HAIRPIN.08X1.19	-				
		WLDMT-DECK LIFT LEVER					
		WLDMT-LVR STOP LATCH					
		BRKT-INNER DECK LIFT	1				
		BRKT-OUTER DECK LIFT	1				
		BRACKET-LIFT LINK	2				
13-27		HANDLE-LIFT ARM	1				
13-28		ASSY, PIN & LANYARD	1				
13-29		PIN-CLEVIS 1/2X1.0	1				
13-30	64265-05	NUT-FL NYL LOCK M10-1.5	5 4				
13-31	85010N	ZERK, 1/4-28 STR SELF TH					
	64221-04	E-RING .875	1				
	64175-05	NUT-PUSH 5/16	1				
13-34	64188-36	PIN, CLEVIS 7/16X1-1/4	2				
13-35	2188143	GRIP	1				
13-36		3SPACER-15.88X10.32X24	2				
13-37		ROLL PIN-1/8X1.00 SS	1				
13-38	2720544	SPRING-COMPRESSION	1				
13-39	64168-1	COTTER-HAIRPIN.12X2-3/	8 1				
13-40		WSHR .890X1.375X18GA	2				
13-41	2720742	LBL-ZT200 HT CUT OUTER	₹ 1				
13-42	2720743	LBL-ZT200 HT CUT INNER					
13-43	64163-29	WASHER-21/64 X 1 X 11G/					
13-44	2720503	ROD-LIFT STOP	1				
13-45		BLT-MET M10-1.50X55	2				
13-46	2222092	PLATE-CHOKE MOUNT	1				
13-47		1/4-20X3/8 LG SP SCREW	2				
13-48		BLT-FLG HD M10-1.5 X 30	3				
•	1 = 10 0.0		-				
	* NO	OT ILLUSTRATED					



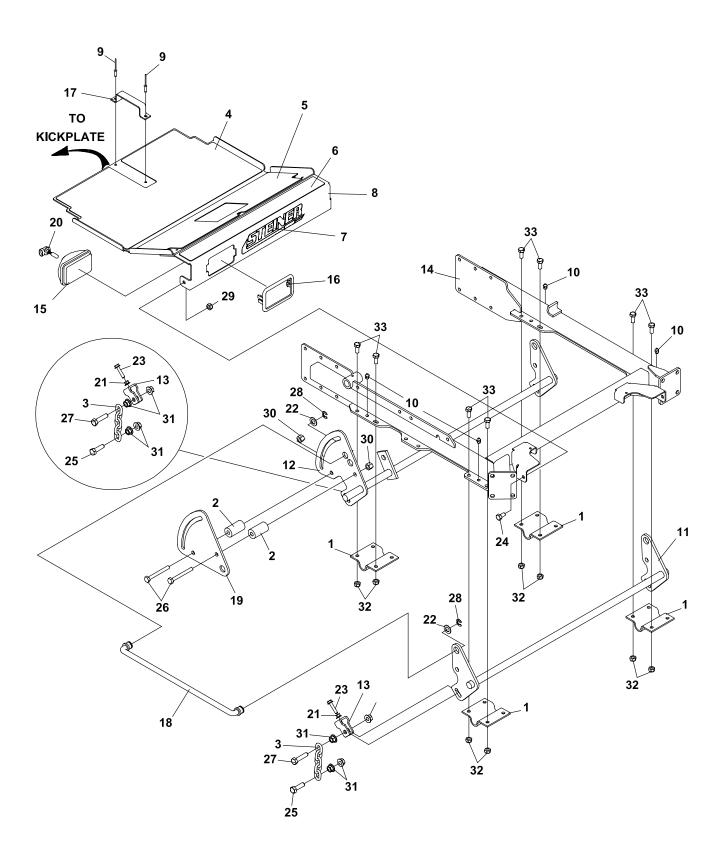
STEERING/INSTRUMENTS 61" DECK



4126547-14 FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
14-1	4126563	S ENGINE DECK W/LABS	1				
14-2	48030N	HOUR METER ASSEMBLY	1				
14-3	2188161	VALVE-TANK SELECTOR	1				
14-4	108009-04	CONTROL-CHOKE 40.0	1				
	(USE WITH	I KOHLER ENGINES)					
	108009-03	CONTROL-CHOKE 51.0	1				
	(USE WITH	I KAWASAKI ENGINES)					
14-5	4122172.7	LEVER-TRACTION CNTRL	. 2				
14-6	4122173.7	BRKT-TRACTION LEVER	2				
14-7	2183074	BRKT-HANDLE	2				
14-8	2188144	GRIP75 IDX12	2				
14-9	2188145	BEARING75ID SELF ALIG	SN 4				
14-10	64123-15	BOLT-3/8-16X3/4 HEX	8				
	64141-4	NUT-WLF 3/8-16	8				
		WLDMT-MTN CONTRL RH					
*	4112104.7	WLDMT-MTN CONTRL LH	1				
		BLT-MET M10-1.50X40	2				
		SCREW,M10X1.5X30 HH	12				
		LOCKNUT-NYLON M10-1.5					
14-16	64263-012	BLT-FLG HD M10-1.5 X 25	4				
		NUT-HEX 3/8-24	1				
		NUT-FL NYL LOCK M10-1.					
	2183073	SPACER	2				
		WLDMT-CRADLE	1				
		1/4-20X3/8 LG SP SCREW					
		PLATE-CHOKE MOUNT	1				
14-23	64263-013	BLT-FLG HD M10-1.5 X 30	4				

* NOT ILLUSTRATED

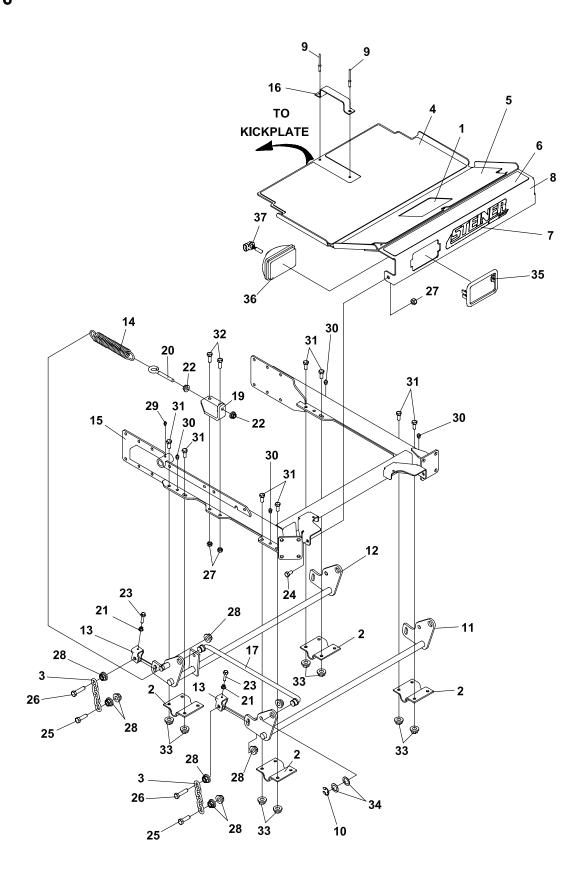


CRADLE ASSEMBLY 61" DECK

ZTM Series

4126547-15 FIGURE 15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	2182356.7	BRKT-SHAFT HANGER	4				
15-2	2183077	SPCR-DKLIFT ACTUATOR	2				
15-3	2188127	CHAIN-6.35 (.250) 5 LINKS					
15-4	2721859	MAT-FOOT PLATE LOWER					
15-5	2721860	MAT-FOOT PLATE MIDDLE	Ξ 1				
15-6	2721861	MAT-FOOT PLATE UPPER	. 1				
15-7	00-002	DECAL, STEINER SMALL	1				
15-8	4126564	S-FOOT PLATE W/LABS	1				
	(INCLUDES	S ITEMS 4-6, 9 &17)					
15-9	64215-07	RIVET-POP IFI #84	2				
15-10	85051	ZERK-1/8 PIPE	6				
15-11	2722558.7	WLDMT-DECK LIFT, FROM	IT 1				
15-12	2722614.7	WLDMT-ELECTRIC LIFT	1				
15-13	2722630	CLIP-DECK HEIGHT ADJ	4				
15-14	2722723.7	WLDMT-CRADLE	1				
15-15	3010329	LAMP-FLOOD 12V	1				
15-16	3010330	KIT, SNAP MOUNT BEZEL	1				
15-17	32418-04	HANDLE W/SLOT	1				
15-18	4109960	ROD-DECK LIFT	2				
15-19	4112962.7	PLATE-DECK LIFT OUTER	1				
15-20	5003693	S-894 12V BULB	1				
15-21	64141-2	NUT-WLF 1/4-20	4				
15-22	64163-65	WSHR.890X1.375X18GA	8				
15-23	64197-020	BLT-TDFM 1/4-20X1-1/2	4				
15-24	64205-007	BLT MET M10-1.50X20	2				
15-25	64205-029	BLT-MET M12X1.75X40	4				
15-26	64263-022	BLT-FLG HD M12-1.75 X 9	2				
15-27		BLT-MET M12-1.75X50	4				
15-28	64221-04	E-RING .875	4				
15-29		LOCKNUT-NYLON M10-1.5					
		NUT-FL NYL LOCK M12-1.	752				
		NUT-WHIZ M12-1.75	16				
		NUT-FL NYL LOCK M10-1.					
15-33	64263-013	BLT-FLG HD M10-1.5 X 30	15				



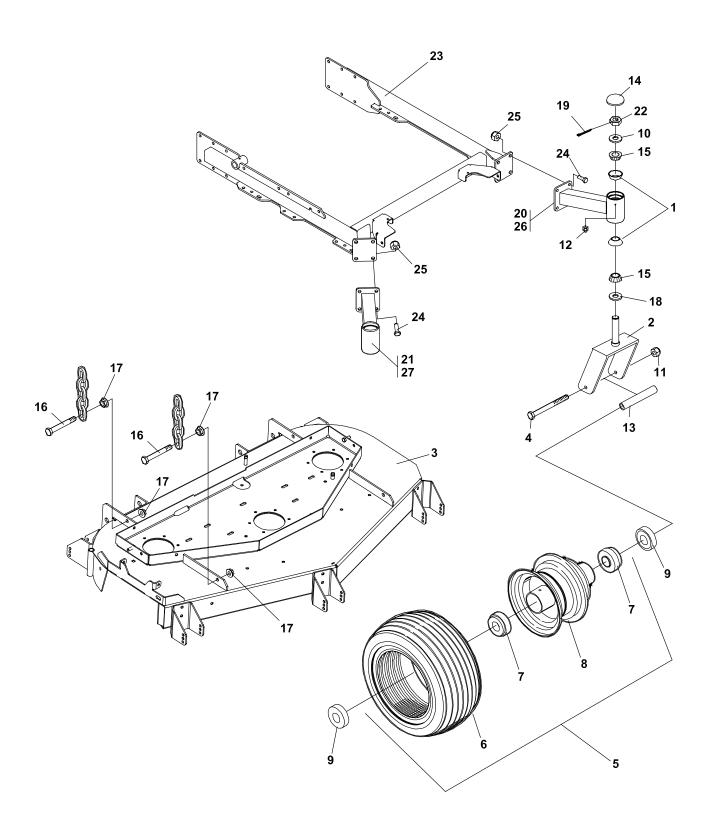
CRADLE ASSEMBLY 52" DECK

ZTM Series

4126547-16 FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
16-1	4118843	LABEL-WARNING	1				
16-2	2182356.7	BRACKET-SHAFT HANGER	₹ 4				
16-3	2188127	CHAIN-6.35 (.250) 5 LINKS	4				
16-4	2721859	MAT-FOOT PLATE LOWER	1				
16-5	2721860	MAT-FOOT PLATE MIDDLE	1				
16-6	2721861	MAT-FOOT PLATE UPPER	1				
16-7	00-002	DECAL, STEINER SMALL	1				
16-8	4126564	S-FOOT PLATE W/LABS	1				
	(INCLUDES	S 4-7, 9 & 16)					
16-9	64215-07	RIVET-POP IFI #84	2				
16-10	64221-04	E-RING.875	4				
16-11	2722558.7	WLDMT-DECK LIFT, FRON	T 1				
16-12	2722559.7	WLDMT-DECK LIFT, REAR	1				
16-13	2722630	CLIP-DECK HEIGHT ADJ	4				
16-14	2722719	SPRING-DECK LIFT	2				
16-15	2722723.7	WLDMT-CRADLE	1				
16-16		HANDLE-W/SLOTS	1				
16-17		WLDMT-DECK LIFT ROD	2				
		BRKT-SPRING ANCHOR LI					
		BRKT-SPRING ANCHOR RI					
16-20		ROD-SPRING MOUNT	2				
16-21	64141-2	NUT-WLF 1/4-20	4				
16-22	64141-4	NUT-WLF 3/8-16	4				
		BLT-TDFM 1/4-20X1-1/2	4				
16-24		BLT MET M10-1.50X20	2				
16-25		BLT-MET M12X1.75X40	4				
16-26		BOLT-MET M12-1.75X50	4				
16-27		LOCKNUT-NYLON M10-1.5	4				
16-28		NUT-WHIZ M12-1.75	16				
16-29	85010N	ZERK, 1/4-28 STR SLFTHRI	_				
16-30	85051	ZERK-1/8 PIPE	6				
16-31		BLT-FLG HD M10-1.5 X 30	15				
16-32	A110406	SCREW,M10X1.5X30 HH	4				
16-33	64265-05	NUT-FL NYLN LCK M10-1.5					
16-34	64163-65	WASHER890X1.375X18G/	-				
16-35	3010330	KIT, SNAP MOUNT BEZEL	1				
16-36	3010329	LAMP-FLOOD 12V	1				
16-37	5003693	S-894 12V BULB	1				

*NOT ILLUSTRATED

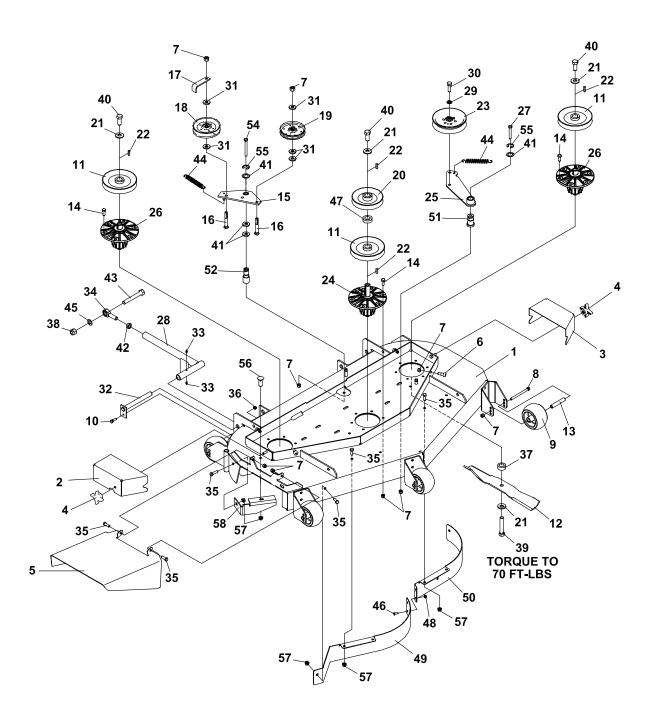


CRADLE & CASTER ASSEMBLY

ZTM Series

4126547-17 FIGURE 17

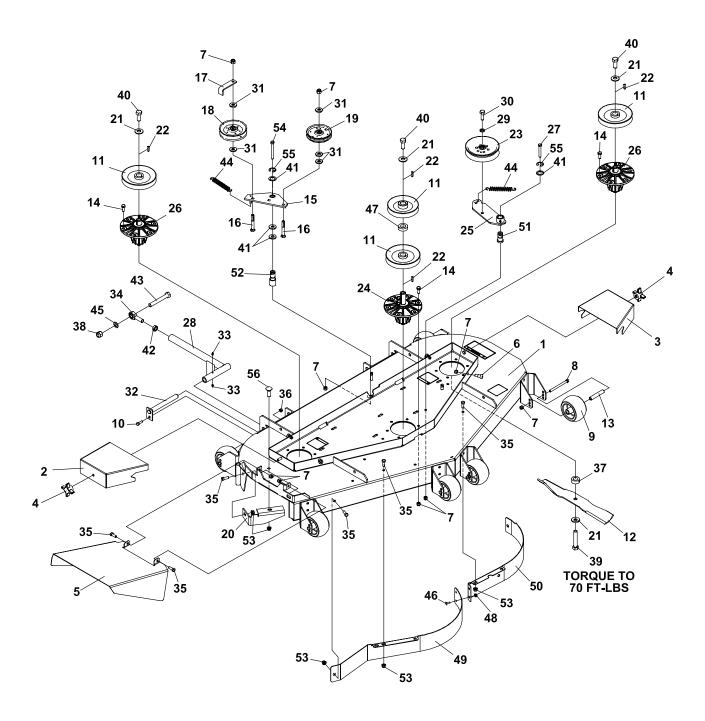
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
17-1	48043-03C	CUP, OUTER BEARING	4				
17-2	2721306.7	WLDMT-CASTER YOKE	2				
17-3		DECK/W LABS					
17-4	64123-215	BOLT-HEX 3/4-10X7 1/2	2				
17-5		WHEEL-13X5.00-6 ASSY	2				
	(INCLUDES	S ITEMS 6-8)					
17-6	2720475-0°	1TIRE-13X5.00-6 SMOOTH	1 1				
17-7	2722228-0	3BEARING	2				
17-8	2722228-0	1RIM-13"ASSY W/VALVE	1				
17-9	2722231	SPACER-END	4				
17-10	64163-26	WASHER,.766 ID X 1.625	2				
17-11	64229-07	LOCKNUT-NYLON 3/4-10	2				
17-12	85010N	ZERK, 1/4-28 STR SLF TH	ID 2				
17-13	2722230-02	2SPANNER-13" WHEEL	2				
17-14	2188135	DUST COVER	2				
		CONE, OUTER BEARING	4				
17-16	64205-029	BLT-MET M12X1.75X40	4				
17-17	64246-04	NUT-WHIZ M12-1.75	8				
		SEAL CR 12411	2				
		COTTER PIN	2				
		WLDMT-CASTER ARM 52					
17-21		WLDMT-CASTER ARM 52	2RH1				
	(USED WIT	ΓH 52" DECKS)					
17-22	64025-20	NUT-HEX 3/4-16 SLOT U	2				
17-23	2722723.7	WLDMT-CRADLE	1				
17-24	A1105061	BOLT-M12-1.75X30	8				
17-25	64237-06	LOCKNUT-NYLON M12-1.	75 8				
17-26	4113901.7	WLDMT-CASTER ARM 61	LH1				
17-27		WLDMT-CASTER ARM 61	RH1				
	(USED WIT	ΓH 61" DECKS)					



ZTM Series

4126547-18 FIGURE 18

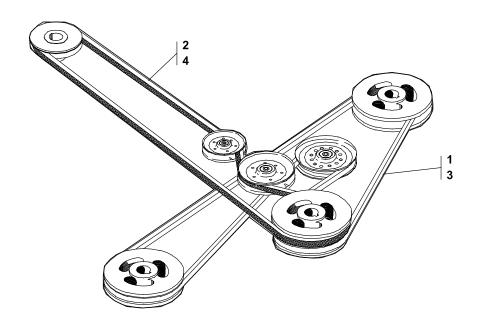
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
18-1	4126565	S-52INCH DECK W/LABE		18-50		BAFFLE-FRONT LH	1
18-2		COVER-BELT RH	1	18-51		PIN-PIVOT	1
18-3		COVER-BELT LH	1	18-52		PIN-PIVOT	1
18-4	38524	KNOB-4 PRONG 3/8-16	2	18-53		WASHER, .391X1.50X9GA	. 1
18-5		CHUTE-DISCHARGE	1	18-54	64123-138	BOLT-HEX 3/8-16X3-3/4	1
18-6		BLT-SHLDR 3\8-16X1.12		18-55		E-RING.875	1
18-7		LOCKNUT NYLON 3/8-16	34	18-56		BOLT-3/8-16X1 CARRIAGE	Ξ 1
18-8		BLT-HEX 3/8-16X4-1/4	6	18-57	64268-03	NUT-FL NYLN LOCK 3/8-1	8 6
18-9	2721512	ROLLER-5X2.75 CENTER	ED6	18-58	4115864.7	BAFFLE-DISCHARGE	1
18-10		BOLT, 5/16-18X3/4 HEX	2				
18-11	2308140	PULLEY ENGINE	3				
18-12	112111-02	BLADE 18.00 OFFST HLF	T 3				
18-13	2720685	SPACER-ROLLER	6				
18-14	64262-012	BLT-FLG HD 3/8-16 X 1-1/	4 18				
18-15	4121584.7	WLDMT-PTO IDLER	1				
18-16	64018-18	BOLT-CARRIAGE 3/8-16X	2 2				
18-17	2302125.7	GUIDE-BELT	1				
18-18	48393	PULLEY, V IDLER	1				
18-19	38297	IDLER, 5.0 OD FLNGD	1				
18-20	2228034	PULLEY-5.25 DEEP GRV	1				
18-21	64209-03	SPRING WSHR .67 ID	6				
18-22	64164-12	1/4X1/4X1 SQ END KEY	4				
18-23	128169	PULLEY, IDLER 5.50	1				
18-24	4115849	S-ASSYSPNDL ZT200 CN	TR 1				
18-25	4110580.7	WLDMT-IDLER	1				
18-26	4115850	S-ASSYSPNDL ZT200 OU	TR2				
18-27	64123-88	BOLT, 3/8-16X2-3/4 HEX	1				
18-28	2186185.7	WLDMT-PUSHBAR	2				
18-29	64006-05	LOCKWSHR-HELICAL 1/2	2 1				
18-30	64123-05	BLT-HEX 1/2-20X1-1/2	1				
18-31	64163-46	WASHER.383/.393X.88X7	GA5				
18-32	2186125	WLDMT-LOCK, PUSHBAF	R 2				
18-33	85010N	ZERK, 1/4-28 STR SLF TH					
18-34		1ROD END 5/8	2				
18-35	64123-50	BOLT-HEX 3/8-16X1	9				
18-36	64229-02	LOCKNUT-NYLON 5/16-18	3 2				
18-37	4118314	SPACER-BLADE 16MM	3				
18-38	64229-06	LOCKNUT, NYLON 5/8-11	2				
18-39		BLT-HEX 5/8-18X3.5	3				
18-40		BLT-HEX 5/8-18X1.5	3				
18-41	64163-65	WASHER890X1.375X18	GA 4				
18-42		NUT-HEX JAM,5/8-18	2				
18-43		BLT-HEX 5/8-11X4-1/2	2				
18-44	2188131	SPRING-EXTENSION	2				
18-45	64163-73	WSHR625IDX1.120DX.0	6A/R				
18-46	64018-2	BLT-CRG 1/4-20X3/4	2				
18-47	64163-68	WSHR-1.015X1.5X9GA	1				
18-48	64268-01	NUT-FL NYLN LOCK 1/4-2	-				
18-49		BAFFLE-FRONT RH	1				



ZTM Series

4126547-19 FIGURE 19

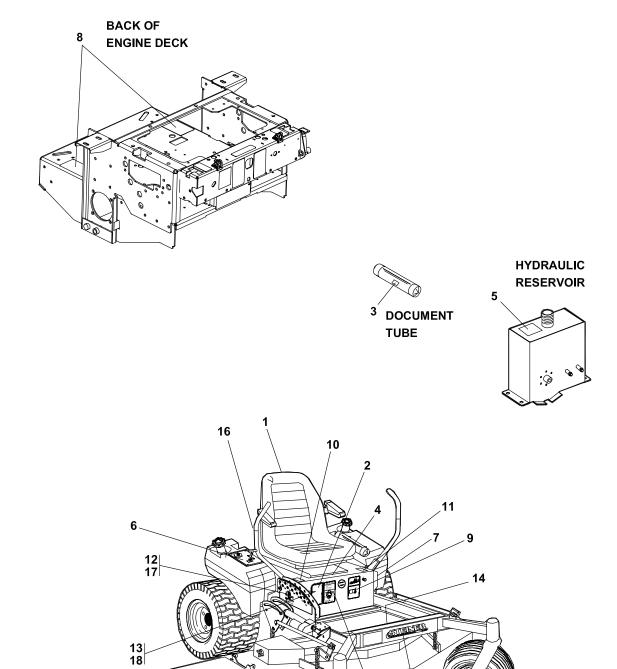
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
19-1	4126566	S-61INCH DECK W/LABEL	S 1	19-50	4117663.7	BAFFLE-FRONT LH	1
19-2		7BELT COVER RH	1	19-51	4116661	PIN-PIVOT	1
19-3		7BELT COVER LH	1		4116712		1
19-4	38524	KNOB-4 PRONG 3/8-16	2	19-53			8 6
19-5		7CHUTE-MID 61	1	19-54		BOLT-HEX 3/8-16X3-3/4	1
19-6		BLT-SHLDR 3\8-16X1.12	4			E-RING.875	2
19-7		LOCKNUT NYLON 3/8-16	35	19-56	64018-3	BOLT-3/8-16X1 CARRIAGE	Ξ 1
19-8		BLT-HEX 3/8-16X4-1/2	7				
19-9	2721512	ROLLER-5X2.75 CENTER					
19-10		BOLT, 5/16-18X3/4 HEX	2				
19-11	2308140	PULLEY ENGINE	4				
19-12		BLADE 21.00 OFFST HLFT					
	2720685	SPACER-ROLLER	7				
		BLT-FLG HD 3/8-16 X 1-1/4					
		WLDMT-PTO IDLER	1				
	64018-12		2 1				
19-17 19-18	48393	GUIDE-BELT PULLEY, V IDLER	1				
19-16	38297	IDLER, 5.0 OD FLNGD	1				
19-19		BAFFLE-DISCHARGE	1				
19-20	64209-03		6				
		1/4X1/4X1 SQ END KEY	4				
19-23	128169	PULLEY, IDLER 5.50	1				
19-24	4115849	S-ASSYSPNDL ZT200 CN	-				
19-25		WLDMT-DECK IDLER	1				
19-26	4115850	S-ASSYSPNDL ZT200 OU					
19-27	64123-88		1				
19-28		WLDMT-PUSHBAR	2				
19-29		LOCKWSHR-HELICAL 1/2					
19-30		BLT-HEX 1/2-20X1-1/2	1				
19-31	64163-46	WSHR.383/.393X.88X7GA	5				
19-32	2186125	WLDMT-LOCK, PUSHBAR	2				
19-33	85010N	ZERK, 1/4-28 STR SLF TH	D 4				
19-34	2188142-01	1ROD END 5/8	2				
19-35	64123-50	BOLT-HEX 3/8-16X1	9				
19-36	64229-02	LOCKNUT-NYLON 5/16-18	3 2				
19-37	4118314	SPACER-BLADE 16MM	3				
19-38	64229-06	· ·	2				
19-39		BLT-HEX 5/8-18X3.75	3				
19-40		BLT-HEX 5/8-18X1.5	3				
19-41	64163-65	WASHER890X1.375X180	3A 4				
19-42		NUT-HEX JAM,5/8-18	2				
19-43		BLT-HEX 5/8-11X4-1/2	2				
19-44	2188131	SPRING-EXTENSION	2				
19-45	64163-73	WSHR625IDX1.120DX.0					
19-46	64018-2	BLT-CRG 1/4-20X3/4	2				
19-47		WSHR-1.015X1.5X9GA	1				
19-48	64268-01	NUT-FL NYLN LOCK 1/4-2					
19-49	411/664./	BAFFLE-FRONT CENTER	1				
				1			





4126547-20 FIGURE 20

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
20-1	2188176	BELT-CUTTERDECK 54	1				
20-2	2188175	BELT-PTO 54	1				
	(USE ON 5	52" SD DECK)					
20-3	128003	BELT-CUTTERDECK 61	1				
20-4	2188134	BELT-PTO 61	1				
	(USE ON 6	61" SD DECK)					
	•	•					

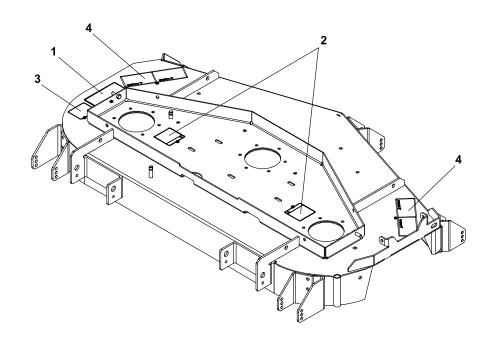


15

ZTM Series

4126547-21 FIGURE 21

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
21-1	00-002	DECAL, STEINER SMALL	2				
21-2	340830	DECAL-CAUTION SPANIS	H 1				
21-3	2000735	LABEL-OPER MAN	1				
21-4	2000590	LABEL, WARN BATTERY	1				
21-5	2000691	LABEL - HYDR OIL FILL	1				
21-6	4124415	LABEL-CONTROL PANEL	1				
21-7	2000693	LABEL - PARK BRAKE	1				
21-8	2000698	LABEL(DBL) - FUEL/LEAK	S 2				
21-9	4114158	LABEL-TIRÉS	1				
21-10	2000700	LABEL - RH TRACTION	1				
21-11	2000701	LABEL - LH TRACTION	1				
21-12	2000790	LABEL - HEIGHT OF CUT	1				
21-13	2000791	LABEL - INSIDE H.O.C.	1				
(ITEI	MS 12 & 13	USED ON 61" DECK MODE	LS)				
21 14	4118843	LABEL-WARNING	1				
21-14		LABEL-FUEL	1				
		LABEL - HEIGHT OF CUT	1				
		LABEL - INSIDE H.O.C	1				
			- 1				
(11⊏	10 & 17	USED ON 52" DECK MODE	L)				



DECALS-CUTTERDECKS

ZTM Series

	_							
22-1 2000572 LABEL-WARNING BLADES 1 22-2 2000577 LABEL-WARNING 2 22-3 2000696 LABEL-BLADE INSTALL 1	5	eries	4122811-22				FIG	URE 22
22-2 2000577 LABEL-WARNING 2 22-3 2000696 LABEL-BLADE INSTALL 1	ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
	22-1 22-2 22-3	PART NO. 2000572 2000577 2000696	DESCRIPTION LABEL-WARNING BLADE LABEL-WARNING LABEL-BLADE INSTALL	ES 1 2 1	ITEM	PART NO.		

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Equipment from Jacobsen, a Textron company, is built to exacting standards ensured by ISO 9001 and ISO 14001 registration at all our manufacturing locations.

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

