

# ZERO-TURN MOWER OWNER'S, SERVICE & PARTS MANUAL

For additional information, please see us at

www.badboymowers.com

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# **TABLE OF CONTENTS**

Basic information	Section 1 (pages 4–5)
Bad Boy Safety Guidelines	Section 2 (pages 5–6)
Operation	Section 3 (pages 6–7)
Maintenance	Section 4 (page 7)
Storage and Transportation	Section 5 (page 8)
Troubleshooting and FAQ	Section 6 (pages 8–9)
Controls	Section 7 (page 9)
Moving Inoperable Mower	Section 8 (page 10)
Instrumentation	Section 9 (page 10)
Mower Blade Maintenance	Section 10 (page 11)
Greasing Bearings	Section 11 (pages 11)
How to choose the right blade	Page 12
Mowing Tips	Page 21

SERVICE SECTION BEGINS ON PAGE 13
PARTS SECTION BEGINS ON PAGE 22
LIMITED WARRANTY PAGE 50



# This manual applies to the following equipment:

#### **Bad Boy Diesel Series**

Diesel 7200 72"35hp 4-Cylinder Diesel Diesel 6100 61"35hp 4-Cylinder Diesel Diesel Compact 6100 61"28hp 3-Cylinder Diesel

#### **COMMONLY USED ITEMS AND PART NUMBERS**

72" Blade Hi-Lift Fusion 038-7230-00		Gator Blade 038-5400-00	Wave Blade 038-7215-00
61″ Blade	Hi-Lift Fusion 038-6080-00	Gator Blade 038-6081-00	Wave Blade 038-6091-00
Deck Belt	72″ 041-2525-00	61″ 041-0236-000	61" Compact 041-0226-00
Pump Belt	72″ 041-8411-00	61″ 041-5048-00	
CATERPILLAR Oil Filter	CAT 28hp 063-2010-00		
Air Filter	CAT 28hp Inner		
CATERPILLAR Oil Filter	CAT 35hp 063-2010-00		
Air Filter	CAT 35hp Inner		
Motor Oil	15w40 (4 quarts)		
Hydro Oil	20w50 (8 quarts)		

## **SECTION 1: BASIC INFORMATION**

Congratulations on the purchase of your new Bad Boy Mower! The purpose of this manual is to assist operators in maintaining and operating their machine. The information and instructions in this manual can help you attain years of performance from your new Bad Boy. Also, check out our website to learn more about the Bad Boy family.

- 1.1 Diesel engines use 15W40 engine oil. Conventional or Synthetic may be used.
- 1.2 All Bad Boy hydraulic systems use 20W50 engine oil. Conventional or Synthetic may be used.
- 1.3 All Bad Boy Mowers use hi-temp multi-purpose grease. NLGI No. 2 for the grease fittings.
- 1.4 Diesel models have 12 psi in both front and rear tires.

#### **Warranty Registration**

The Warranty Registration form must be completed and signed to validate your warranty. As the new equipment owner, you are expected to see that the form is completed and forwarded to Bad Boy, Inc., at time of delivery. Warranty is non transferable.

#### **Model/Serial Number**

Your Diesel model serial numbers are found on the SIN plate underneath seat. The serial numbers are necessary on the warranty registration form. Also, these numbers can assist you in the ordering of new parts when replacements become necessary.

#### Parts/Service

Only Bad Boy replacement parts are to be used on your mower.

Replacement parts are available through your local Bad Boy Mower Dealer. Remember to always provide the following information when ordering parts:

- 1. Correct part number
- 2. Correct serial number

All warranty repair and service must be handled through your authorized Bad Boy Mowers dealer. To locate the nearest dealer, go to our website and click on Locate a Dealer.



## **SECTION 2: MOWER SAFETY GUIDELINES**

Never allow untrained people to operate this machine. It is the owner's responsibility to get training and see to it that anyone who has permission to use your machine receives the proper training. Do not mow around people. The factory discharge chute is designed to deflect debris downward, but it could be possible for debris to be thrown in a way that can cause damage to people or property. Seek additional training when possible to learn more about safety techniques and practices.

#### **SAFETY PRECAUTIONS**

- 2.2 Always remain seated while operating machine.
- 2.3 Always maintain a safe distance from people and pets while mowing.
- 2.4 Always disengage blades, place steering controls in neutral, engage parking brake, and remove ignition key when leaving operators seat.
- 2.5 Always operate machine in daylight or with adequate working lights.
- 2.6 Be alert of surroundings. Watch for rocks, stumps, and mounds or depressions while mowing.
- 2.7 Always wear eye protection while mowing and servicing.
- 2.8 Always wear ear protection, such as earplugs, while mowing.
- 2.9 If you strike something with the mower turn the blades and mower off, engage the parking brake, and inspect the machine for damage before resuming.
- 2.10 Be aware of low hanging limbs or objects that could potentially be hazardous while mowing.
- 2.11 Never operate a poorly maintained machine.
- 2.12 Never carry passengers.
- 2.13 Always buckle seat belt, if provided one.
- 2.14 Never attempt high speed maneuvering, especially around people or property.
- 2.15 Never put hands or feet under the machine while ignition is on.
- 2.16 Never refuel machine when engine is running.
- 2.17 Never leave key in ignition, especially around children.
- 2.18 Never run engine in enclosed area.
- 2.19 Do not touch hot parts of machine.
- 2.20 Do not remove deck wheels.
- 2.21 Conditions that can affect traction resulting in the loss of control of machine: Wet terrain, Hills or extreme angles, Depressions in the ground, Mounds of dirt, Extremely dry grass, Soil type (gravel, sand, clay), Tire pressure
- 2.22 Be aware of what is located at the bottom of slopes. For example, Rocks, Water, Cliffs, Roads and Highways

#### 2.23 Safety warning decals are located on the mower and should always be observed and followed.

- 2.24 Never operate the mower with the discharge chute open.
- 2.25 Prevent Fires—Remove grass and debris from engine compartment and muffler area, before and after operating machine, especially after mowing or mulching in dry conditions.
- 2.26 Do not store machine near open flame or source of ignition, such as a water heater or furnace.
- 2.27 Do not attempt to mount a tire without the proper equipment and experience to perform the iob.
- 2.28 Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.
- 2.29 Never operate machine in a closed area where dangerous carbon monoxide fumes can collect.
- 2.30 Let engine cool before storing!!!
- 2.31 Hydraulic hoses and lines can fail due to physical damage, kinks, age, and exposure. Check hoses and lines regularly. Replace damaged hoses and lines.
- 2.32 Park machine on level ground. Never allow untrained personnel to service machine. Understand service procedure before doing work.

### **SECTION 3: MOWER OPERATION**

Never operate the machine with faulty equipment. Always be alert of sudden changes in landscape, as the mower will react differently on slopes or embankments than it will on flat surfaces. Never operate the mower with the discharge chute open. Do not cross terrain, other than grass, with blades turning. This could cause damage to property or bystanders.

- 3.1 Place parking brake in up position
- 3.2 Drive arms must be in the "open" position. While sitting on the machine, each arm is positioned away from the operator, to the right and left. Drive arms will lock into place and must be in this position to start machine.
- 3.3 Put PTO switch in the OFF position.
- 3.4 If your machine has been equipped with a ROPS (Roll Over Protection System) then you must fasten seatbelt.
- 3.5 If machine has not been started recently, engage the choke.
- 3.6 Make sure nothing is under or around machine.
- 3.7 Place key in ignition and turn.
- 3.8 Once machine is started, disengage the choke.



- 3.9 Increase RPM by sliding the throttle to fast position, toward the rabbit.
- 3.10 Owners must become familiar with the controls before operating a zero-turn radius vehicle.
- 3.11 Start slowly and build your skill level. Have ample practice before using the machine at full capabilities.
- 3.12 Be comfortable with machine before engaging blades. Know what each component controls before using machine.
- 3.13 Your mower will perform differently on an incline /decline. Be cautious, slow down, and do not make any sudden jerking movements with control arms. The machine could lose traction on a decline or tip backwards on an incline.
- 3.14 Once you become comfortable with your Bad Boy Mower you will notice your overall mowing time will decrease.

Avoid operating your mower on side hills of over 5 degrees, inclines of over 10 degrees, and declines of over 15 degrees.

## **SECTION 4: MOWER MAINTENANCE**

\*\*Check each and provide maintenance when needed.

#### DAILY

- 4.1 Check Engine Oil
- 4.2 Check Engine Air Filter
- 4.3 Tire Pressure
- 4.4 Inspect Blades

#### **EVERY 30 HOURS OF USAGE**

4.5 Grease Machine

#### **EVERY 500 HOURS OF USAGE**

4.6 Change Engine Oil and Filters

After the first 250 hours of usage, change engine oil and filter

Check filters once a year if under 500 hours

Check air and fuel filters more often in dry, dusty conditions

#### **EVERY 500 HOURS OF USAGE**

4.7 Change Hydraulic Fluid and Filters

Within FIRST 50 hours of usage, change hydraulic oil and filters

4.8 Refer to manufacturer manual for specific information on maintenance schedules.

## **SECTION 5: MOWER STORAGE & TRANSPORTATION**

- 5.1 Keep machine from collecting debris by storing in a covered area while not in use.
- 5.2 Disconnect the negative battery cable when machine will be stored for more than 30 days.
- 5.3 Always secure machine properly when transporting machine.
- 5.4 Do not load machine on trailer with blades engaged.
- 5.5 Do not use ramps to load the machine.
- 5.6 Make sure Parking Brake is in "up" position.
- 5.7 In wet conditions tires may spin while loading / unloading. If necessary, wait for dry conditions before loading / unloading.
- 5.8 Make sure mode of transportation is suitable to bear the weight of mower.
- 5.9 Deck height should be set at maximum before attempting to load.
- 5.10 Secure mower with at least two straps capable of securing weight of mower.

### SECTION 6: TROUBLESHOOTING

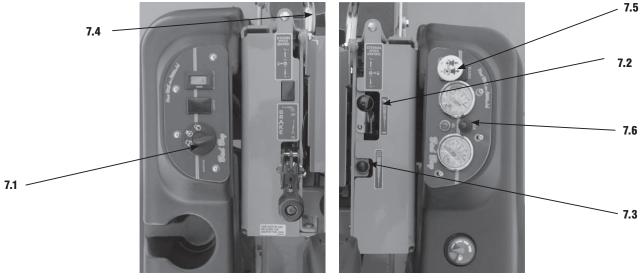
- 6.1 **Q:** How do I prevent an uneven cutting pattern and increase the quality of cut?
- 6.1 A: Check tire pressure, check blade sharpness (replace blades or sharpen at least once per year or when needed), make sure blades are tightened properly, check spring and belt tension, check the underside of the deck to ensure the mower deck is free of grass build-up and debris, make sure your machine is at full throttle, and vary your mowing pattern each time you cut your grass.
- 6.2 **Q:** What should I do if my mower won't start?
- 6.2 **A:** Check battery charge and connection (grounds), check your fuel (make sure fuel is less than 30 days old and contains no water), make sure your spark plug is in good condition and spark plug wire is attached, and make sure air filter is clean (a dirty filter makes it more difficult for the engine to draw air). Check for broken wires or bad connections.
- 6.3 **Q:** What should I do if the blades won't engage?
- 6.3 A: Make sure the safety switch is plugged in on the bottom of seat. Check the underside of the PTO engager to ensure the plug is secure at switch.
- 6.4 **Q:** What type of fuel is recommended for my mower?
- 6.4 **A:** We recommend that you use a name brand diesel fuel to ensure quality.
- 6.5 **Q:** Do you offer touch-up paint for your mowers?
- 6.5 **A:** Touch-up paint is available. Contact your local dealer for more information.



- 6.6 **Q:** How durable is the electric deck lift?
- 6.6 **A:** The actuator which controls the deck height is designed for moving loads of up to 1000 pounds and has a static holding capability which exceeds 3,000 pounds. Our ¼" deck weighs approximately 250 pounds which is only 25% of working capability.

### **SECTION 7: CONTROLS**

- 7.1 **Ignition Switch**—Bad Boy Mowers have a three position ignition switch: off, run, and start. With key inserted, rotate it clockwise to START position and release key when engine starts, and switch will automatically return to he RUN position.
- 7.2 **Throttle Control**—A cable is connected to the engine throttle for controlling engine speed. Move lever forward to increase engine rpm, move lever backward to decrease engine rpm.
- 7.3 **Pre-Heat Button**—Before starting engine push to pre-heat for easier starting.
- 7.4 **Control Levers**—These levers control the mower's speed, direction, and neutral lock. These levers are used to steer, accelerate, decelerate and change direction. (Drive Arms)
- 7.5 **Blade Engage Switch**—This switch engages the blades. Pull the switch up to engage the blades and push the switch down to disengage the blades.
- 7.6 **Deck Lift Control**—The deck lift switch is used to raise and lower the deck. Pull the switch backwards to raise the deck and push the switch forward to lower the deck.



## **SECTION 8: MOVING INOPERABLE MOWER**

- 8.1 Do not tow machine. Use a winch to load on a trailer for transporting.
- 8.2 **ATTENTION:** RETURN BYPASS VALVES TO OPERATING POSITION BEFORE RUNNING MOWER FOLLOWING REPAIRS.
- 8.3 If it is necessary to move mower when the engine is inoperable, the hydraulic drive pumps are equipped with bypass valves. Before moving the mower, turn the bypass valves counterclockwise one-half to one revolution. The valve stems on each pump are located near the top and are identified as a hex stud.
- 8.4 Your Bad Boy Mower Weighs: **Diesel SERIES: 1607—1935 lbs**\*\*\* Weights fluctuate with the addition of accessories.
- 8.5 As you can see by the weights of the machines, you shouldn't ever try to push or pull a Bad Boy Mower by hand. This could cause serious bodily injury.
- 8.6 Hopefully, you'll never need to use this section of the manual. However, if you do, use extreme caution when moving machine!

## **SECTION 9: INSTRUMENTATION**

9.1 **Electronic Hour Meter**—Registers Hour increments up to 9,999.9 total hours. This meter records the cumulative time the engine is running.



## **SECTION 10: MOWER BLADE MAINTENANCE**

- 10.1 Check mower blades after each use. This is essential for maintaining well-groomed turf. Keep the blades sharp. If a dull blade is used for cutting, the grass will tear rather than cut. This could damage the grass leaving a brown frayed top on the grass within a few hours. A dull blade will also require more power from the engine.
- 10.2 NEVER attempt to straighten a bent blade by heating. NEVER attempt to weld a cracked blade. The blades can break and cause serious injury or death.
- 10.3 NEVER work with blades while engine is running or deck clutch is engaged.
- 10.4 ALWAYS place deck clutch in DISENGAGE position while performing maintenance.
- 10.5 Use blocks when you MUST work under mower.
- 10.6 ALWAYS wear thick gloves when handling blades.
- 10.7 ALWAYS check for blade damage if mower strikes rock, branch, or other objects that could potentially damage the blade. (REMEMBER: NEVER CHECK BLADE WHILE ENGINE IS ON!

  NEVER CHECK BLADES WHILE BLADES ARE ENGAGED!)

## **SECTION 11: GREASING THE BEARINGS**

- 11.1 Park the machine on a level surface and disengage the blade control switch.
- 11.2 Move the motion control levers outward to the neutral position, engage parking brake, stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 11.3 Grease Type: NGLI grade #2 multi-purpose gun grease. Grease the front caster pivots.
- 11.4 Clean the grease fittings with a cloth. Scrape any paint off the front of the fitting(s).
- 11.5 Connect a grease gun to each fitting. Pump grease in fittings until grease begins to seep out of the bearings. Wipe up excess grease.
- 11.6 Refer to service manual section for grease fitting locations.

## **HOW TO CHOOSE THE RIGHT BLADE**

Essentially there are only TWO basic styles of mowing blades used or approved for use on our current products:

- 1) The standard style of mowing blade is essentially designed for cutting grass and effectively discharging the clippings out from the deck to fall onto the lawn or to be captured in a grass collection system. Standard blades are also referred to as "2-in-1" (discharging & bagging) or "high-lift" blades (because they are designed to create a higher-lifting airflow).
- 2) Mulching blades generally have a more curved style surface and frequently include extra cutting surfaces along the blade edges. These blades may also come in a "+" design (which is actually two individual blades arranged in a perpendicular fashion to enhance mulching). The "+" blades are usually found on older style mowers; newer ones utilize blades with more advanced mulching technology. Mulching blades may also be referred to as "3-in-1" (mulching, discharging & bagging) or "all-purpose" blades.

Bear in mind that the re-circulating airflow design of 3/1 blades makes them less efficient at discharging grass clippings than a standard 2/1 blade. As with most all-purpose tools, there is some give and take as opposed to using a tool designed for a more specific purpose.

If you're experiencing less-than-desired cutting or discharging performance with a 3/1 blade, you may want to check into using a 2/1 blade. Conversely, if you're using a 2/1 blade and want to mulch clippings, you should see about the availability of mulching blades or a mulching kit.\*

The type of blade installed on a new mower is a decision the retailer makes for each model of mower, based on the expected needs of most customers. If you're unsure of which blade is on a particular model, inspect the blade. Blades have part numbers stamped into them. Then compare these part numbers with the unit's Operator's Manual or Parts List.

It is true there are many other styles of blades available. But since we don't manufacture or recommend using these other aftermarket styles, we will leave them out of this discussion. Should you want more information on special application or aftermarket blades, you should contact the companies that make these products. NOTE: Customers using non-OEM blades do so at their own risk. The use of unapproved (non-OEM) blades may void any or all of the mower and engine factory warranties.

\* **MULCHING KITS** – These generally consist of mulching blades and a mulching plug (which closes off the discharge opening to keep the clippings contained under the deck for re-cutting) plus any necessary hardware for installation. Please check with your parts distributor regarding the contents of a particular mulching kit.



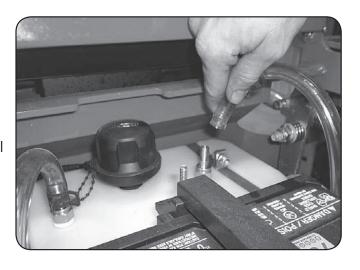
# **SERVICE SECTION**

#### **SECTION 1: HYDROSTATIC SYSTEM**

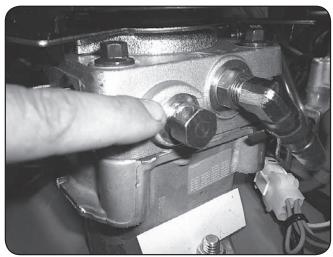
To change hydro oil on Diesel models, remove oil return lines from top of hydro tank and place them in a disposable oil container. Start and run mower until oil level is reduced down to about 2" of oil remaining in the tank. Do not allow air to enter the oil lines in the bottom of the tank. Keep in mind that only about 75% of the hydro oil can be changed at a time. Use only 20w50 motor oil in the hydro system. (Conventional or synthetic oil may be used) Bad Boy recommends that the hydro oil and filters be changed within the first 50 hours of usage and every 500 hours thereafter or once a year. (Diesel Models)

Change hydro oil filters by unscrewing them from the filter head. Fill new filters with 20w50 motor oil before installing. Use only Bad Boy replacement filters. Using any other filter will result in damage to the hydro system and void the warranty.

Once the system is refilled with oil, lift rear of mower until tires are off the ground. Start engine, release parking brake, stay clear of moving rear tires, loosen bypass bolt ½ to ¾ turns, move drive arms forward and backward 4 to 6 times slowly. This will purge the air from the system. (the bypass bolt has a hole drilled through the side of the bolt head). This valve also serves as a neutral for moving the mower without the engine running.

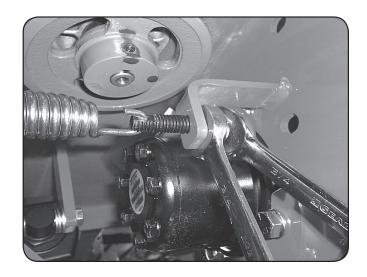




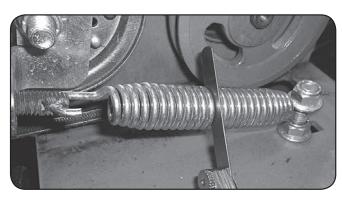


#### **SECTION 2: DRIVE BELT**

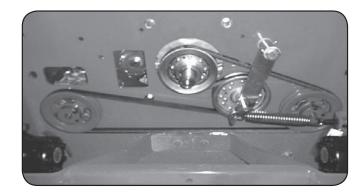
Shown above is a typical pump belt tensioner for Outlaw models.



Factory setting is about .030" (about the thickness of a credit card) between coils as shown.



Shown to the right is a typical pump belt layout for most models.



#### **SECTION 3: ENGINE**

When servicing the fuel system on the CAT Diesel, it is necessary to purge the air from the system by loosening the 9/16" bolt on top of the fuel filter and pumping the fuel bulb (located underneath the radiator) until air bubbles are no longer visible.

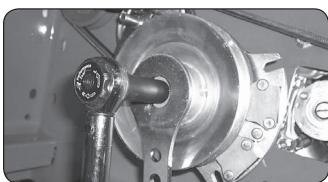




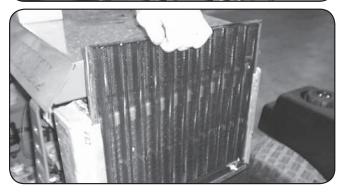
Remove and inspect air cleaner weekly. (More often in dusty conditions). Do not blow filter out with air pressure, this will cause the filter to be filled with tiny holes that will allow dirt to enter. Instead, tap filter on side to remove any debris. Replace at least once a year, more often in dusty conditions.



Torque the clutch bolt to 50 ft. lbs. on all models. Retorque at every oil change.



Keep radiator screen clean and free of debris on liquid cooled models. Check screen hourly during dry conditions. Slide radiator screen up to remove.



#### **SECTION 4: ELECTRICAL SYSTEM**

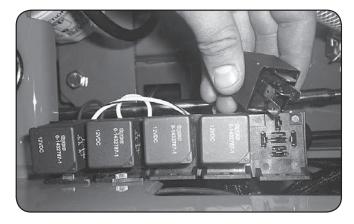
On most larger commercial engines (27 hp and up), the 25 amp main fuse is located about 3" from the starter on the engine. (shown in first image on right). On smaller commercial and light duty commercial mowers, the 25 amp main fuse is located just behind the battery connected to the starter solenoid. (Shown in second image on right).





Always check the condition of the wiring harness ground cable. Ensure that the ground is connected, clean, and tight. On most models, the ground wire is connected to the negative side of the battery.

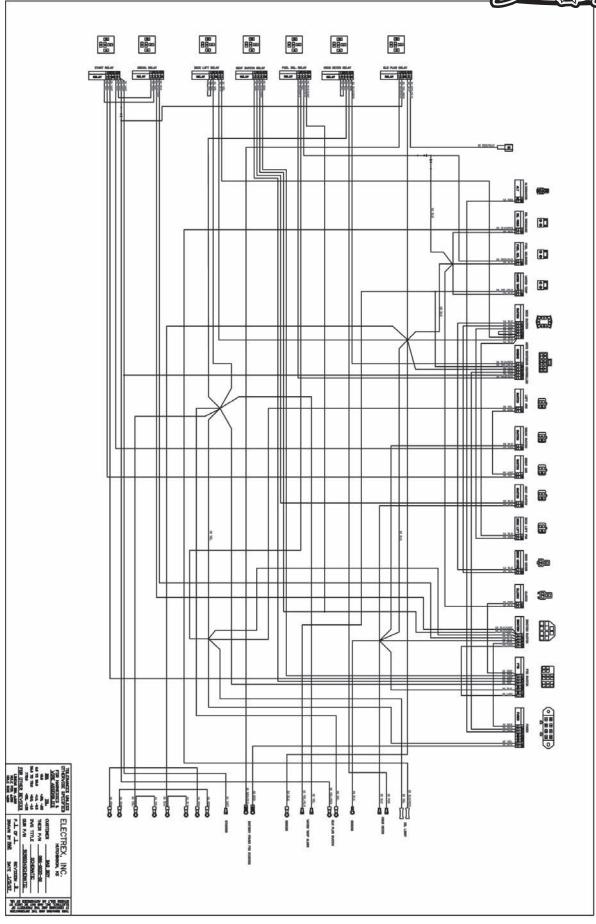
Check the condition and connection of the relays located under the seat. Ensure that they are clean and connected. Make sure that wire terminal ends have not been pushed out of the relay block.



On most models, the red wire coming out of the engine is the charging wire from the alternator. Check for 13.6—14.2 volts DC at this wire with engine at full throttle.







#### **SECTION 5: FRAME**

For non-suspension models, torque front fork castle nut to 40 ft.lbs. Be sure to spin the fork while torquing the nut to ensure that no bearing damage is done. The torque for suspension forks should be 50 ft. lbs.



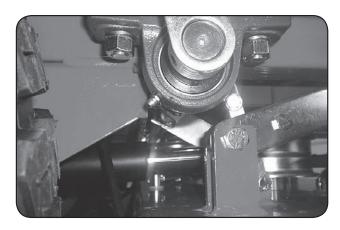
Torque rear wheel lugs to 65-75 ft. lbs. Re-torque at every oil change.



There is one grease fitting in each front wheel and one in each front caster bearing housing. Grease at every engine oil change.



There is one grease fitting on each of the actuator bar pillow blocks located under the fuel tanks. Grease twice a season.





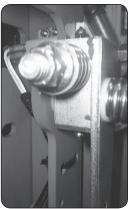
The pump belt tensioner is located under the engine and has a grease fitting at its pivot point. Grease at every engine oil change.



The deck belt tensioner is located at the rear of the deck and has a grease fitting on its pivot point. Grease at every engine oil change.

The control arm blocks have grease fittings located on the top and bottom of each block. Grease one time a year.





#### **SECTION 6: CUTTING DECK**

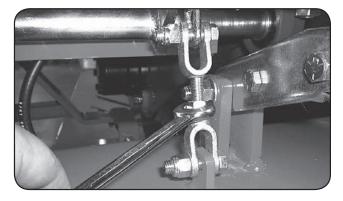
To remove the deck belt, lift up on the belt while rotating the pulley to roll the belt up and off of the pulley. (be sure not to get your fingers between belt and pulley).

To check the level of the deck, start on a flat surface and set the air pressure in all four tires. Raise the deck up, and measure all four corners of the deck to see if it is level from left to right and front to back. All decks should be level from left to right and have a 1/8" pitch down in the front.

If deck adjustments are necessary, start with the chain length adjusters. These adjusters affect the overall height of the deck and the level from left to right.







The large turn buckles on the front of the deck only affect the pitch of the deck or the level from front to back.



The deck spring tension is critical. If the tension is too much, it will cause the spring to break. If too loose, the belt can jump off or slip on the pulleys and cause a cut quality issue. With the deck up, the spring coil gap should be about .025" - .030" (about the thickness of a credit card). Spring tension adjustments can be made by sliding the bolt shown above forward or backward in the slot of the deck.



The condition of the blades can drastically affect the cut quality of the mower deck. Replace as necessary. These blades were used considerably too long. Resharpening is recommended by professionals only to determine when the blade needs to be replaced and because of the need for rebalancing.



To change blades, it may be easier to use a piece of wood to keep the blade from turning so that the bolt can be loosened. Re-torque the blade bolts to 90-110 lbs.

The blade spindles contain a sealed ball bearing in the top



and bottom of the spindle. The bearings are replaceable for a more cost effective repair.

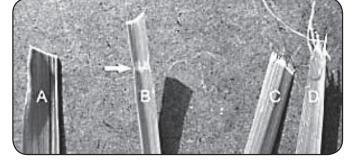




#### **MOWING TIPS:**

- Mow header strips at the ends of the lawn and around flower beds first. Make them wide enough that you can turn the mower around in the already mown section. Then mow back and forth between these header strips overlapping each lap by about 1/8 the width of the mower's deck.
- Don't cut your grass too short, particular for cool season grasses. Higher heights usually provide for a deeper root system, looks better, and is less likely to have weeds invading, particularly crabgrass.
- Don't remove any more than one third of the grass leaf at any one cutting. If circumstances arise that a lawn gets too tall and you just have to lop off a bunch to get caught up, bite the bullet and break it down into several mowings to get caught up with 3 or so days between cuttings.
- **NEVER SCALP YOUR LAWN.** Scalping severely damages the root system to such a degree that it may die.
- Avoid mowing when the grass is wet or when it's dark
- Avoid throwing grass clippings into the street and driveway where they can be washed into the sewer system. After mowing, clean up driveway and walkways.
- When mowing remove only a third with each cutting (except for the first mowing of the season when it's ok to remove more). You can safely leave clippings that will quickly decompose and add nutrients back into the soil. Contrary to popular opinion, grass clippings do not add to thatch buildup. Grass blades are made up of about 75% water.
- Mow your lawn in a different direction with each mowing, especially with lawns of shorter grass types. Altering the direction ensures a more even cut since grass blades will grow more erect and less likely to develop into a set pattern.
- Keep your mower's blade sharp, which means having it sharpened several times during the mowing season. Keep several blades around so you'll always have a sharp one on hand. Sharp blades cut the grass cleanly and help mulch clippings into small pieces which break down quickly.
- Don't forget to change your mower's oil at least once during the mowing season. For brand new mowers, change the oil after about 5 hours of operation during the initial break-in period.
- At the end of the mowing season use a fuel stabilizer in the remaining gasoline
- In the spring, don't use that old gas unless you properly used a fuel stabilizer, it can cause a number of problems. Better to use fresh gasoline to begin the new mowing season.
- Leaf blade A demonstrates what a leaf blade should look like after mowing with a sharp blade.
- Leaf blade B demonstrates a leaf blade that was injured by a dull mower blade.
- Leaf blade C was cut by the mower but indicates that the mower blade is not sharp enough. The shredded white tissue protruding from the leaf blades C and D is the vascular tissue of the plant.



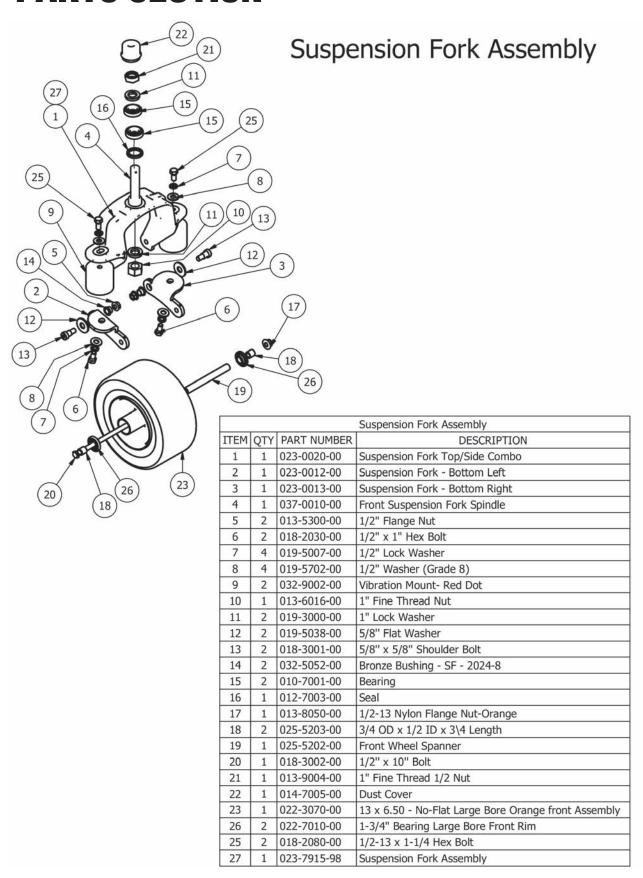


#### To bag or mulch?

Grass clippings do not contribute to thatch buildup or increase the chances of disease. If you mow your lawn at the right height, without removing any more than 1/3 of it's total height, clippings will quickly breakdown without a trace. These clippings contribute additional nitrogen and other nutrients to the soil and supply it with additional organic materials. Clippings from a 1000 sq. ft. lawn can add as much as 1 - 2 pounds of nitrogen back into the soil.

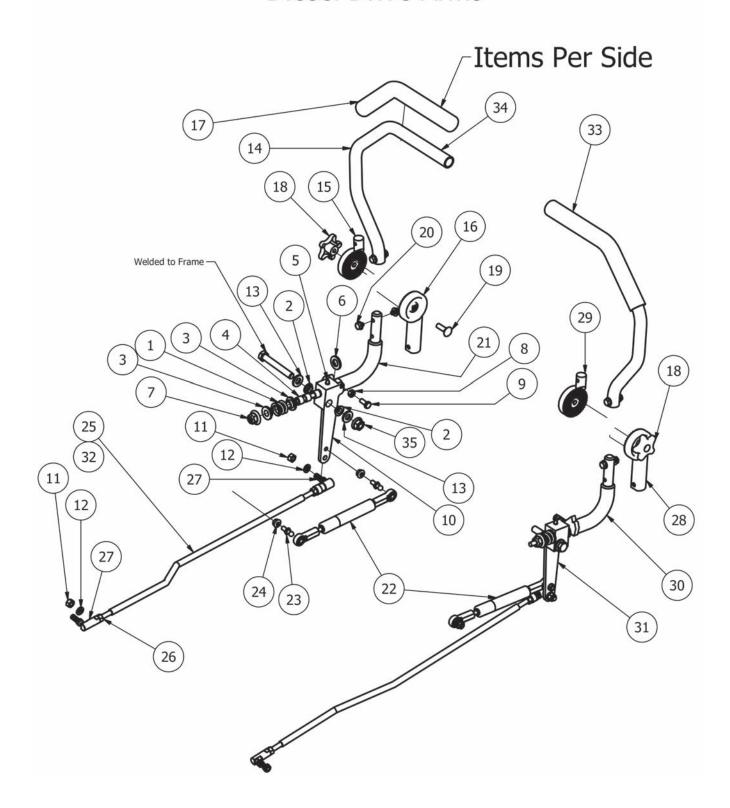
If you have a compost pile, then you may want to bag your clippings occasionally to add much needed green-matter to the compost pile. Make sure it is mixed thoroughly with brown matter to avoid a strong ammonia odor. **DO NOT COMPOST CLIPPINGS** after applying any weed control or weed-feed type product. Before adding clippings to the compost pile wait at least 3 mowings after these products have been applied.

# **PARTS SECTION**



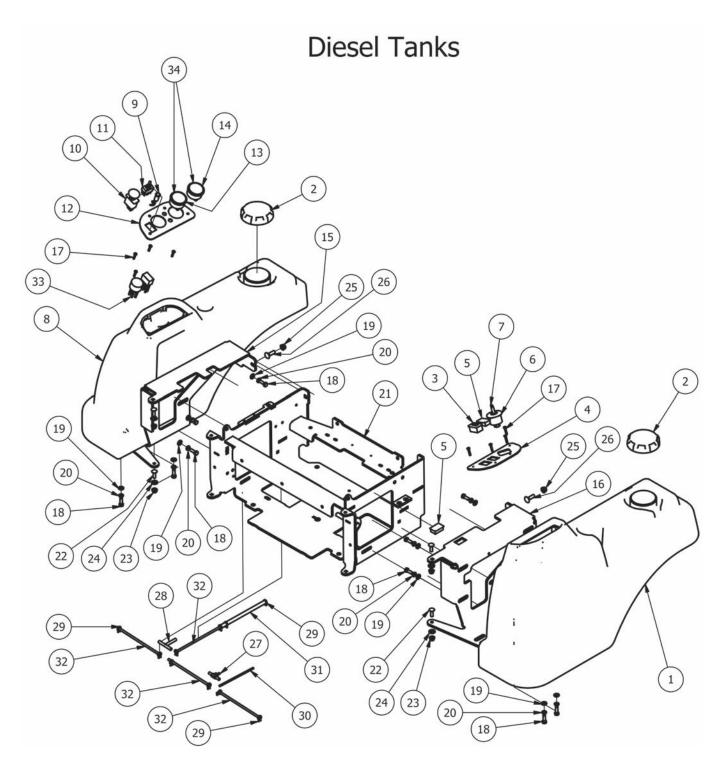


# Diesel Drive Arms



	Diesel Drive arms				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	034-8025-00	Drive Lever Spring		
2	2	032-5055-00	Bushing for 2012 Drive Arms		
3	2	019-8027-00	.515 ID Nylon Shoulder Washer		
4	3	032-8024-00	.507 ID Nylon Bushing		
5	2	024-6034-00	1/4" Drive in Grease Fitting		
6	1	019-6017-00	.635 ID Plastic Washer		
7	1	013-8050-00	1/2-13 Nylon Flange Nut-Orange		
8	1	013-8043-00	5/16" Nut		
9	1	018-8063-00	5/16" x 3/4" Hex Bolt		
10	1	027-8819-00	Drive Arm Lever Housing (Left)		
11	2	013-6051-00	3/8" Fine Threaded Jam Nut		
12	2	019-5037-00	3/8" Lock Washer		
13	2	019-7000-00	.505x1x .125 Oil Impregnated washer		
14	1	031-9010-00	Upper Tube-Adjustable Steering		
15	1	031-9017-00	Upper adjuster-Steering Arm- Left		
16	1	031-9014-00	Lower Adjuster - Steering Arm- Left		
17	1	069-4010-00	Black Steering Grip		
18	2	045-5000-00	Black Knob for Adjustable Steering Arm		
19	1	018-5043-00	3/8" x 1 1/4" Carriage Bolt		
20	4	018-2020-00	5/16-18 1/2 HWH Bolt-Steering		
21	1	031-9020-00	Steering Arm Elbow - Left		
22	2	087-8080-00	Damper		
23	2	018-2050-00	10mm Damper Ball Stud-Steering		
24	2	013-9002-00	5/16" Flange Nut		
25	1	035-6060-00	Streering Push Rod - 28Hp Diesel Push Rod		
26	2	013-6051-00	3/8" Fine Threaded Jam Nut		
27	2	099-6046-00	3/8-24 Ball Joint		
28	1	031-9015-00	Lower Adjuster - Steering Arm- Right		
29	1	031-9016-00	Upper Adjust Steering Arm- Right		
30	1	031-9025-00	Steering Arm Elbow - Right		
31	1	027-8820-00	Drive Arm Lever Housing Right		
32	1	035-6050-00	Steering Push Rod - 35HP Diesel		
33	1	031-9050-00	Adjustable Steering Arm-Right Assembly-Componets 14,17,18,19,20,28,29		
34	1	031-9000-00	Adjustable Steering Arm-Left Assembly-Componets 14,15,16,17,18,19,20		
35	1	013-0085-00	1/2-13 Hex Flange (GR.G) ZC		

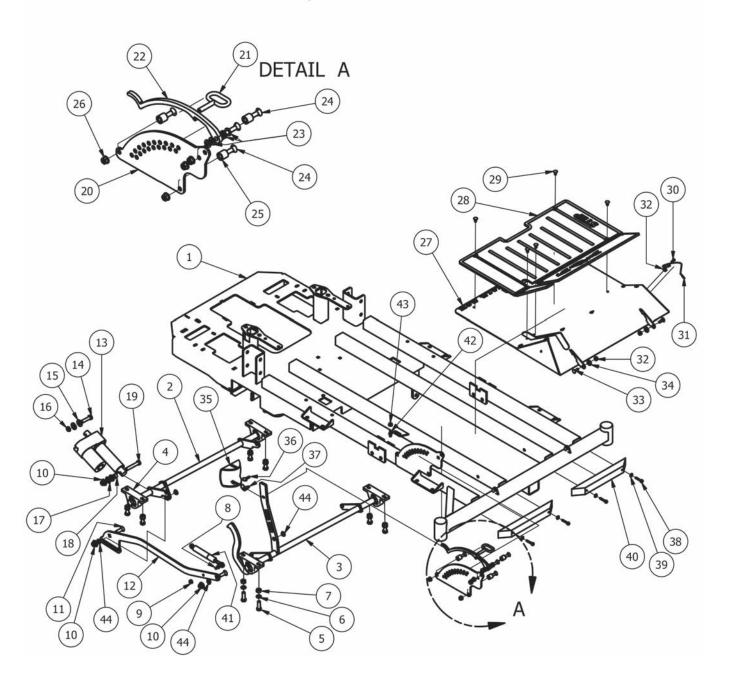




	Diesel Tanks Assembly				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	067-3000-00	Left Fuel Tank with Fender		
2	2	066-8090-00	Diesel Fuel Cap -3.5 inch Neck		
3	1	083-4014-00	Hour Meter		
4	1	079-3402-00	Control Panel (Left)		
5	2	018-1040-00	Light Plug		
6	1	077-8076-00	Ignition Switch		
7	1	042-9000-00	Ignition Key		
8	1	067-3001-00	Right Fuel Tank with Fender		
9	1	089-1000-00	Oil Light		
10	1	056-8058-00	PTO Engager		
11	1	078-8077-00	Deck Lift Joystick		
12	1	079-3405-00	Diesel Control Panel Right 2012		
13	1	086-7001-00	2" Water Temperature Gauge		
14	1	086-7000-00	2" Oil Pressure Gauge		
15	1	031-2010-00	Left Tank Support AOS		
16	1	031-2011-00	Right Tank Aupport AOS		
17	8	018-2015-00	10-32 x 1 Button Head Bolt		
18	10	018-2007-00	5/16" x 1" Bolt		
19	10	019-8044-00	5/16" Flat Washer		
20	10	019-8051-00	5/16" Lock Washer		
21	1	080-7000-00	Diesel Seat Frame		
22	4	018-8065-00	5/16" x 1" Carriage Bolt		
23	4	013-9002-00	5/16" Flange Nut		
24	4	019-6042-00	.360 ID Plastic Washer		
25	2	013-5202-00	3/8" Nylock Flange Nut		
26	2	018-5043-00	3/8" x 1 1/4" Carriage Bolt		
27	1	073-2000-00	Brass fuel line T		
28	1	073-8068-00	fuel line T		
29	11	072-8069-00	1/4 fuel clamp		
30	1	051-8068-00	3/16 Fuel Line		
31	1	051-8075-00	5/16" fuel line hose		
32	4	051-8067-00	1/4" fuel line hose		
33	1	086-0035-00	Wiring Harness -35 & 28 Diesel		
34	2	086-7002-00	Pigtail-2" Faria Gauge -2012 & up (Used For the water and Oil Gauges)		

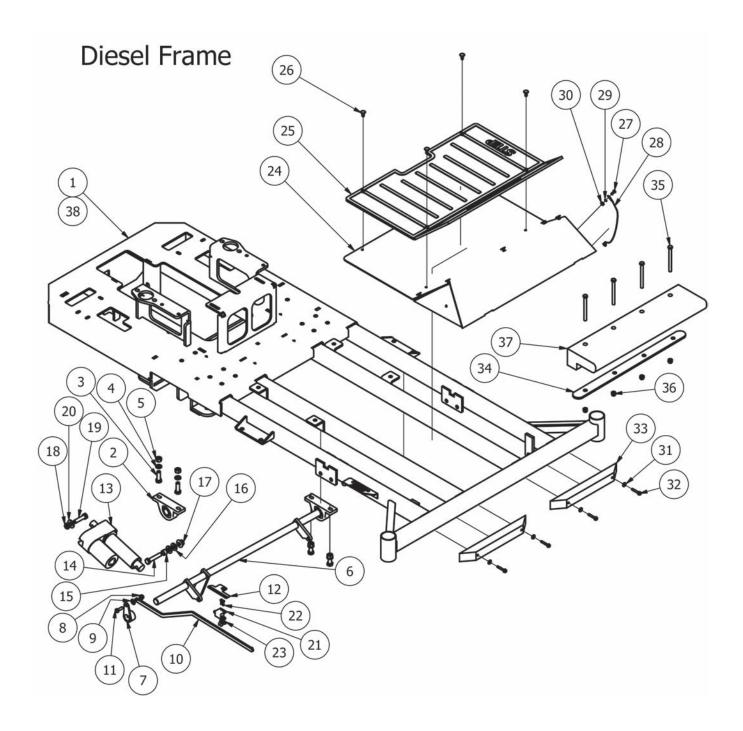


# Outlaw Compact Diesel Frame



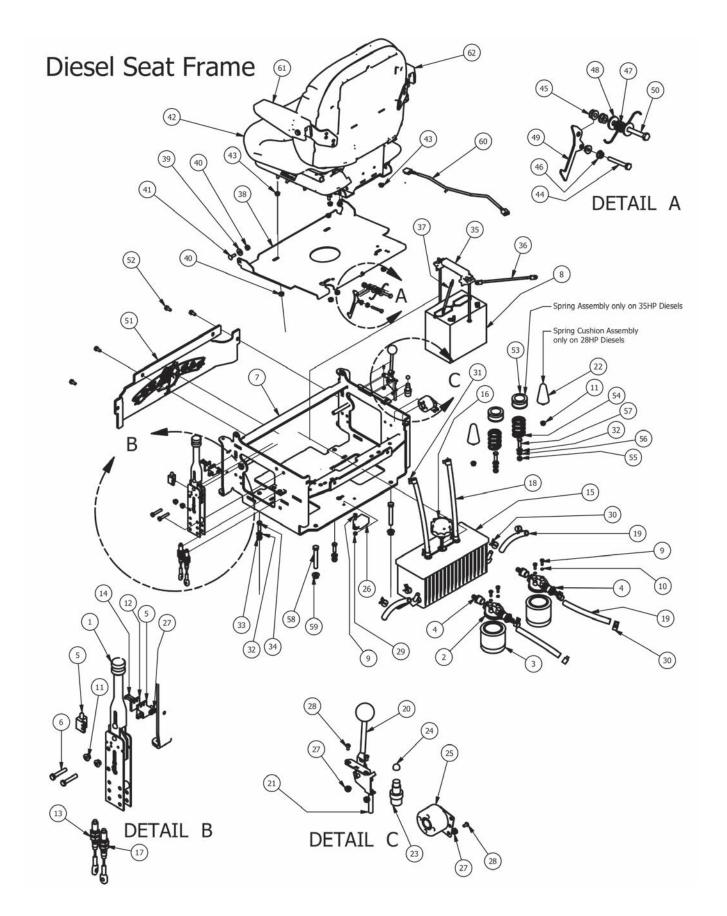
Outlaw Diesel Frame, Actuator, Floor Board, and Height Indicator					
ITEM	QTY				
1	1	070-5570-00	Outlaw Diesel Frame 2012		
2	1	028-6020-00	Outlaw Actuator Bar (Rear)		
3	1	028-6010-00	Outlaw Front Actuator Bar Assembly		
4	4	017-7008-00	pillow block 2bolt sealmaster		
5	8 018-5006-00		1/2" x 1 1/2" Hex Bolt		
6	8	019-5007-00	1/2" Lock Washer		
7	8	013-7018-00	1/2" Hex Nut		
8	1	018-2050-00	10mm Damper Ball Stud-Steering		
9	1	013-9002-00	5/16" Flange Nut		
10	3	013-8050-00	1/2-13 Nylon Flange Nut-Orange		
11	2	018-0008-00	1/2 x 1-1/2 Carriage Bolt		
12	1	028-6055-00	Outlaw Susp Frame Linkage Bar		
13	1	035-7033-00	Actuator		
14	1	018-5049-00	1/2-13x2 GR 5 Hex Bolt		
15	2	019-5702-00	1/2" Washer (Grade 8)		
16	1	018-4010-00	1/2" Nylcock Nut (1/2 Jam)		
17	2	019-6017-00	.635 ID Plastic Washer		
18	1	025-7036-00	1/2 x 1/2 Spacer		
19	1	018-7016-00	1/2-13 x GR 5 Hex Bolt Zinc		
20	1	026-2100-00	Outlaw Height Indicator Plate (Outer)		
21	1	040-4000-00	Deck height lever pin		
22	1	031-0100-00	Outlaw Deck Lever Lock		
23	5	019-2003-00	.390 x .750 x .062 Nylon Washer		
24	4	018-0009-00	3/8 x 1 3/4 Carriage Bolt		
25	3	025-5203-00	3/4 OD x 1/2 ID x 3\4 Length		
26	4	013-5202-00	3/8" Nylock Flange Nut		
27	1	079-3200-00	Outlaw Diesel Floor Panel		
28	1	081-2008-00	Foot Assist Floor Mat		
29		040-6080-00	Ratchet Fastener		
30	1	018-8064-00	1/4" x 5/8" BS C/S 18-8 SS		
31	1	064-2006-00	Floor board Cable W/ Swivel Ends		
32	3	013-8049-00	5/16-18 Nylon Flange Nut		
33	2	018-8065-00	5/16" x 1" Carriage Bolt		
34	2	019-6042-00	.360 ID Plastic Washer		
35	1	026-0013-00	Outlaw Deck Lift Pedal		
36	1	030-0010-00	5/16-18 x1 Thumb Screw Zinc		
37	1	040-5000-00	Pull Pin		
38	4	030-7039-00	1/4" x 1 1/2" Self Tapping Screw		
39	4	019-7040-00	1/4" Flat Washer		
40	2	029-7037-00	14" Rubber Bumper		
41	1	087-6100-00	250lb Gas Spring - 61" Deck		
42	1	018-2050-00	10mm Damper Ball Stud-Steering		
43	1	013-9002-00	5/16" Flange Nut		
44	4	032-3000-00	Actuator Bar Bushing-SF-1620-4		





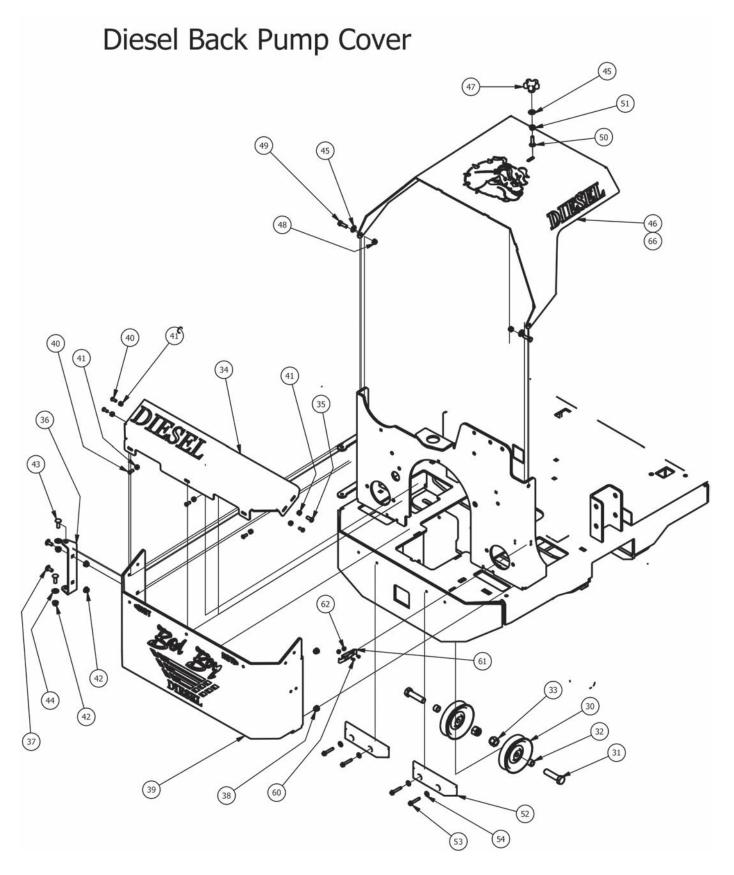
Diesel Frame, Actuator, Floor Board, and Height Indicator				
ITEM	QTY	PART NUMBER		
1	1	070-5550-00	Diesel 4cyl 72" Frame	
2	2	017-7008-00	pillow block 2bolt sealmaster	
3	4	018-5006-00	1/2" x 1 1/2" Hex Bolt	
4	4	019-5007-00	1/2" Lock Washer	
5	4	013-7018-00	1/2" Hex Nut	
6	1	028-7920-00	Actuator Bar	
7	1	031-7000-00	Height Indicator Lever	
8	1	013-9002-00	5/16" Flange Nut	
9	1	019-6042-00	.360 ID Plastic Washer	
10	1	028-5203-00	Height Indicator Bar	
11	1	018-2007-00	5/16" x 1" Bolt	
12	1	039-2008-00	Deck Stop Bracket 2008	
13	1	035-7033-00	Actuator	
14	1	018-6036-00	1/2" x 2 1/2" Hex Bolt	
15	1	025-7036-00	1/2 x 1/2 Spacer	
16	2	019-8054-00	.505 Nylon Spacer	
17	1	013-8050-00	1/2-13 Nylon Flange Nut-Orange	
18	1	018-4010-00	1/2" Nylcock Nut (1/2 Jam)	
19	1	018-5049-00	1/2" x 2" Hex Bolt	
20	1	019-5702-00	1/2" Washer (Grade 8)	
21	1	077-5300-00	Deck Stop Switch	
22	2	018-8056-00	1024 x 1" Allenhead Bolt	
23	2	013-2000-00	M6x1.0x20MM 8.8 Hex Bolts Zinc	
24	1	079-6000-00	Floor Panel	
25	1	081-2007-00	AOS Floor Mat	
26	9	040-6080-00	Ratchet Fastener-Floorboard	
27	1	018-8064-00	1/4" x 5/8" Buttonhead Bolt	
28	1	064-2006-00	Floor board Cable W/ Swivel Ends	
29	1	019-4008-00	1/4" Lock Washer	
30	1	013-8039-00	1/4" Hex Nut	
31	4	019-7040-00	1/4" Flat Washer	
32	4	030-7039-00	1/4" x 1 1/2" Self Tapping Screw	
33	2	029-7037-00	14" Rubber Bumper	
34	1	028-1000-00	Diesel Weight Bar Bracket	
35	4	018-2005-00	3/8" x 4 1/2" Bolt	
36	4	013-5041-00	3/8 Nylock Nut	
37	1	088-2000-00	58lb Diesel Weight	
38	1	070-5520-00	Diesel 4cyl 61" Frame Suspension	

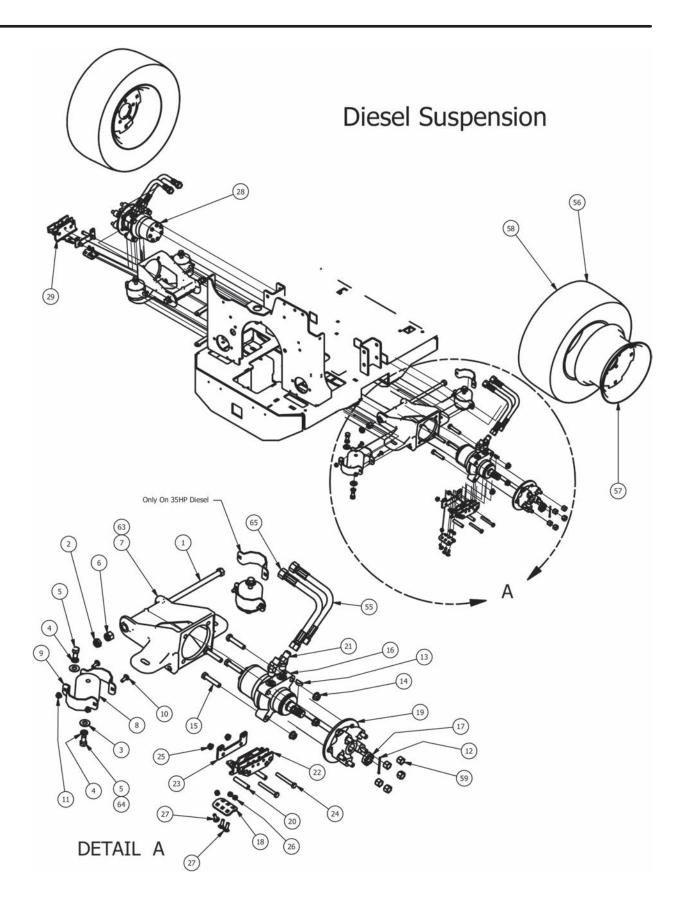




ITEM	QTY	PART NUMBER	Diesel Seat Frame  DESCRIPTION
1	1	069-8054-00	Hand Brake Assembly
2	2	062-8013-00	Filter Head
3	2	063-8014-00	Hydraulic filter
4	4	024-5050-00	Filter Head Fitting
5	3	77-8073-00	Switch
6	2	018-8059-00	5/16" x 1 3/4" Hex Bolt
7	1	080-7000-00	2007 Diesel Seat Frame
8	1	068-8050-00	Battery - Diesel Models - I51
9	5	018-8052-00	1/4" x 3/4" Hex Bolt
10	5	019-4008-00	1/4" Lock Washer
11	4	013-9002-00	5/16" Flange Nut
12	2	025-6041-00	Switch Block Plastic
13	1	064-8055-00	Short Brake Cable
14	4	018-8056-00	1024 x 1" Allenhead Bolt
15	1	067-2010-00	Aluminum Hydraulic Tank
16	1	066-8050-00	Hydraulic Tank Cap
17	1	064-8056-00	Long Brake Cable
18	2	051-8063-00	3/8" x 32" Clear Hose
19	4	051-8064-00	1/2" x 9 1/4" Braided Hose
20	1	055-2012-00	Universal Throttle Head - 2012
21	1	055-8018-75	Diesel Throttle Cable Only
22	2		,
		034-1000-00	Spring Cushion
23	1	077-6000-00	Momentary Start Switch
24	1	014-6000-00	Start Switch Boot - Diesel
25	1	021-8059-00	Heat Warning Piezo Buzzer
26	1	015-0015-00	Auto Shut Down for Cat Diesels
27	7	013-5019-00	#10 Nylock Nut
28	3	018-5200-00	1024 X 5/8" Buttonhead Bolt
29	1	013-8039-00	1/4" Hex Nut
30	8	072-8066-00	1/2 Hose Clamp
31	4	072-8065-00	3/8 hose clamp
32	4	019-5029-00	3/8" Flat Washer
33	2	013-5201-00	3/8" Flange Nut
34	2	018-5040-00	3/8" x 1 1/4" Hex Bolt
35	1	043-8929-00	Battery Hold Down
36	1	064-4001-00	Black Battery Cable - Diesel
37	1	064-4000-00	Red Battery Cable - Diesel
38	1	026-2006-00	2006 Seat Plate
39	2	019-6042-00	.360 ID Plastic Washer
40	6	013-8049-00	5/16-18 Nylon Flange Nut
41	2	018-8065-00	5/16" x 1" Carriage Bolt
42	1	071-4050-00	Grammer Suspension Seat
43	4	013-9002-00	5/16" Flange Nut
44	1	018-0011-00	1/4-20 x 2 Hex Bolt
45	2	013-8049-00	5/16-18 Nylon Flange Nut
46	2	013-9001-00	1/4-20 Hex Flange Nuts Zinc w/Serrations
47	1	034-1075-00	Torsion Spring for Seat latch
48	2	019-6042-00	.360 ID Plastic Washer
49	1	031-0200-00	Seat Latch Lever
50	1	018-0012-00	5/16-18 X 2 Hex C/S (GR.5) ZC
51	1	014-2009-00	Cooler Cover
52	4	030-7042-00	5/16 x 3/4 washer head type F screw
53	2		
ວວ		014-8047-00	Seat Spring Cap Cover
Γ4	2	034-8045-00	Seat Spring
54	2	013-6014-00	3/8" Hex Nut
55		019-5037-00	3/8" Lock Washer
55 56	2		
55 56 57	2	018-6012-00	3/8" x 1 1/2" Hex Bolt
55 56 57 58	2	018-6012-00 018-2018-00	1/2 x 3 1/2 Flange Bolt Grade 8
55 56 57 58 59	2 2 2	018-6012-00 018-2018-00 013-5300-00	1/2 x 3 1/2 Flange Bolt Grade 8 1/2" Flange Nut
55 56 57 58	2	018-6012-00 018-2018-00	1/2 x 3 1/2 Flange Bolt Grade 8

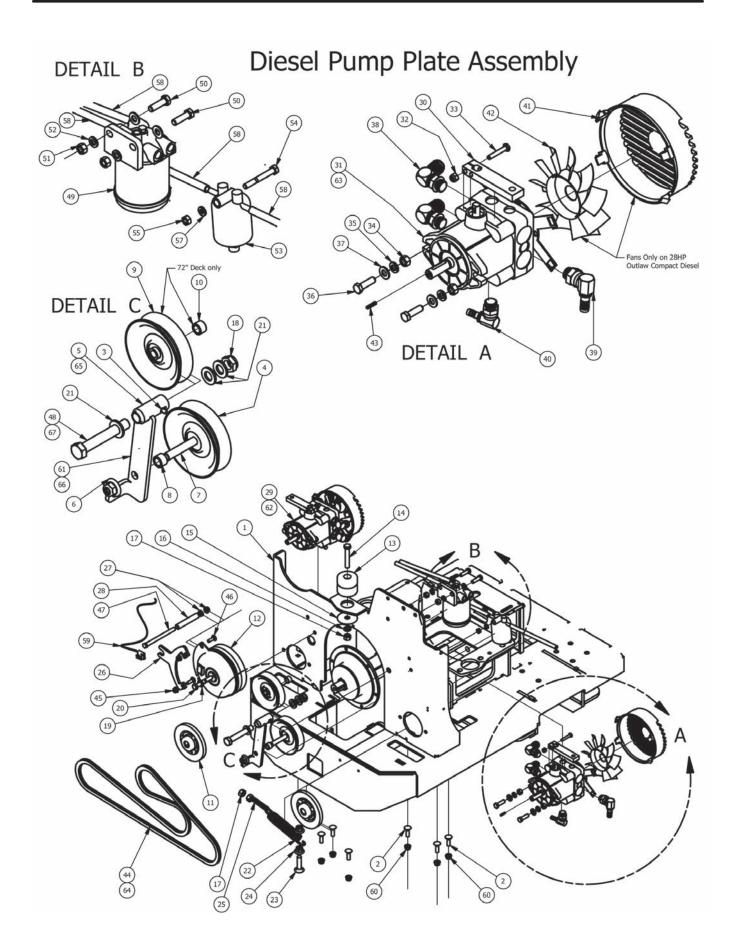








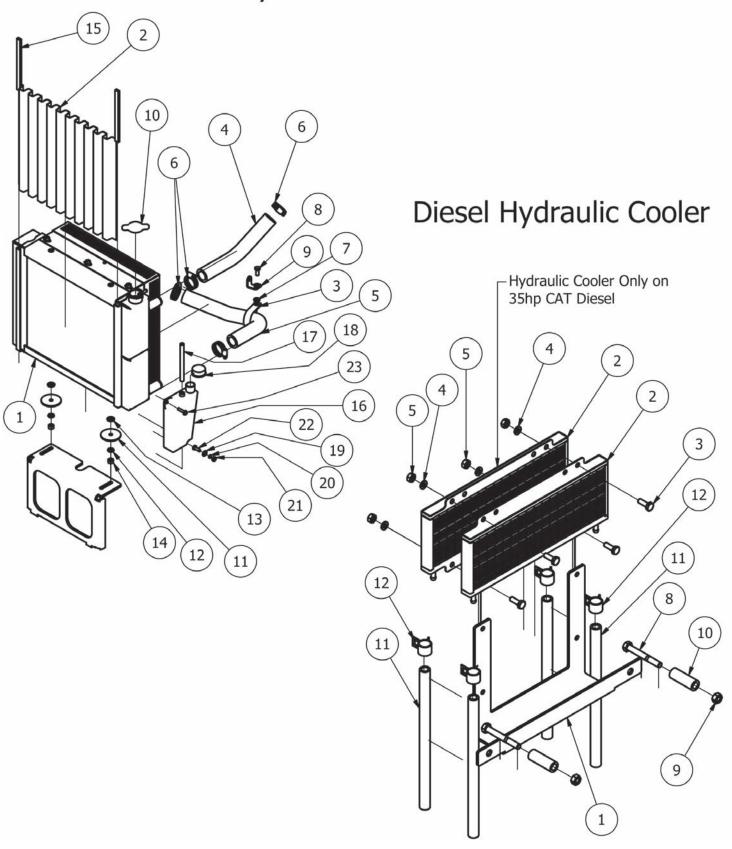
		Diesel Suspensi	on & Back Pump Cover Assembly
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	018-2051-00	5/8"x10" Hex Bolt (Grade8)
2	1	013-5301-00	5/8" Nylock (1/2 Jam)
3	4	019-5702-00	1/2" Washer (Grade 8)
4	4	019-5007-00	1/2" Lock Washer
5	4	018-2030-00	1/2" x 1" Hex Bolt
6	1	013-7021-00	5/8 Std NC Nylock Nut
7	1	070-8000-00	60" Suspension Kit Wheel Motor
8	2	032-8999-00	Vibration Mount- Blue Dot
9	2	072-1000-00	Isolator Band Clamp
10	2	018-8065-00	5/16" x 1" Carriage Bolt
11	2	013-8049-00 020-7022-00	5/16" Nylock Flange Nut 1/8x2-1/4 cotter pin Zinc
13	1	042-7041-00	Woodruff Key
14	4	013-5300-00	1/2" Flange Nut
15	4	018-6036-00	1/2" x 2 1/2" Hex Bolt
16	1	015-4600-00	18cc Parker Wheel Motor- Right
17	1	013-7050-00	1" Castle Nut for Wheel Motor
18	1	039-2141-00	Ausco Brake Clable Bracket
19	1	092-1075-00	Drum Brake Hub & Rotor Assembly
20	2	025-0006-00	Ausco Brake Spacer
21	2	024-0050-00	45 Degree Fitting 31704-10-10
22	1	092-1000-00	Right Brake Caliper
23	1	039-2140-00	Ausco Caliper Mounting Bracket
24	2	018-4700-00	3/8-16x3 grade 5 hex bolt
25	2	013-5201-00	3/8" Flange Nut
26	3	013-8047-00	3/8 Std NC Nylock Nut
27	3	018-8065-00	5/16" x 1" Carriage Bolt
28	1	015-4601-00	18cc Parker Wheel Motor- Left
29	1	092-1050-00	Left Brake Caliper
30	2	033-7025-00	5 V Idler Pulley - BCVI- 81
31	2	018-6059-00 025-7020-00	5/8" x 2 1/2" Hex Bolt 5/8" x 1/" Collar Spacer
33	2	013-7021-00	5/8 Std NC Nylock Nut
34	1	014-5921-00	Diesel Back Pump Cover 2008 and up
35	1	018-5007-00	5/16" x 3/4" Button Head Bolt
36	1	039-0070-00	Pump Cover Hinge
37	2	018-8062-00	5/16-18 x 3/4 Carriage Bolt
38	3	014-3010-00	5/8 Round Insert
39	1	014-5920-00	Diesel Back Pump Cover 2008
40	6	018-8064-00	1/4" x 5/8" Buttonhead Bolt
41	7	013-8073-00	1/4" Nylock Nut
42	4	013-9002-00	5/16" Flange Nut
43	2	018-8065-00	5/16" x 1" Carriage Bolt
44	2	019-6042-00	.360 ID Plastic Washer
45	3	019-6042-00	.360 ID Plastic Washer
46	1	059-8020-00	Diesel Hood 3 Cyl
47	2	045-6043-00	5/16" Knob
48	2	013-8047-00 018-2007-00	5/16-18 Nylon Insert Locknut 5/16" x 1" Bolt
50	1	018-2007-00	5/16" x 1 1/4" Carriage Bolt
51	1	013-9002-00	5/16" Flange Nut
52	2	029-7038-00	8" Rubber Bumper
53	4	030-7039-00	1/4" x 1 1/2" Self Tapping Screw
54	4	019-7040-00	1/4" Flat Washer
55	4	051-2080-00	26" Hose Assembly with Adaptors
56	2	022-7031-00	26 x 12.00 - 12 Tire and Orange Wheel Assembly
57	1	022-7034-00	12 x 10.5 Wheel AOS Rear
58	1	022-7032-00	26 x 12.00 - 12 Tire
59	10	013-3000-00	Acorn Lug Nut
60	2	018-5200-00	1024 X 5/8" Buttonhead Bolt
61	1	052-3000-00	Steel Pump Cover Latch
62	2	013-5019-00	#10 Nylock Nut
63	2	070-8001-00	72" Suspension Kit Wheel Motor
64	4	018-2080-00	1/2-13 1-1/4 Hex Bolt Only On 60" Suspension Kit wheel Motor
65	1	051-6085-00	26" Hose Only
66	1	059-8010-00	Diesel Hoood 4cyl





		D	iesel Pump Plate Assembly
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	026-8030-00	Pump Plate Diesel
2	6	018-5043-00	3/8" x 1 1/4" Carriage Bolt
3	1	024-6034-00	1/4" Drive in Grease Fitting
4	1	033-6001-00	4 3/4" Idler Pulley
5	1	039-5950-00	Pump Idler Bracket only for 61" Deck
6	1	013-8050-00	1/2-13 Nylon Flange Nut-Orange
7	1	018-7016-00	1/2" x 3" Hex Bolt
8	1	025-7036-00	1/2 x 1/2 Spacer
_	1		
9		033-4050-00	5" Idler Pulley only for 72" Deck Diesel
10	1	025-7020-00	5/8" x 1/" Collar Spacer only for 72" Deck Diesel
11	2	033-5011-00	5" Pump Pulley
12	1	070-5040-00	Clutch Assembly for Diesel
13	1	032-4000-00	Armor Plated Mount-Rear Mount
14	1	018-7016-00	1/2" x 3" Hex Bolt
15	1	032-4051-00	Snubbing Washer
16	1	019-5007-00	1/2" Lock Washer
17	3	013-7018-00	1/2" Hex Nut
18	1	013-5301-00	5/8" Nylock (1/2 Jam)
19	1	019-8053-00	7/16" Lock Washer
20	1	018-5401-00	7/16" x 2 3/4" Fine Thread Bolt
21	3	019-6017-00	.630 ID x 1.122 OD x .142 THK Plastic Washer
22	1	034-2009-00	Deck Idler Spring
23	1	018-1050-00	1/2 x 2" Carriage Bolt
24	2	013-8050-00	1/2-13 Nylon Flange Nut-Orange
25	1	018-2004-00	1/2-13 x 2-1/2 All Thd Stud
26	1	057-5910-00	Diesel PTO Engager Holder
27	2	013-5201-00	3/8" Flange Nut
28	1	051-8076-00	3/8 hose 4" long
29	1	050-5500-00	PR Pump W/Fan Left -28Hp Diesel
30	1	031-5923-00	Pump Arm
31	1	050-5501-00	PR Pump with Fan and Cover Right - 28Hp Diesel
32	1	013-8073-00	1/4" Nylock Nut
33	1	018-5005-00	1/4" x 1 1/2" Bolt
34	2	013-6014-00	3/8" Hex Nut
	2		
35		019-5037-00	3/8" Lock Washer
36	2	018-6012-00	3/8" x 1 1/2" Hex Bolt
37	2	019-5029-00	3/8" Flat Washer
38	2	024-2060-00	6801-LL-8-8 Fitting - Compact Diesel
39	1	024-5002-00	90 Degree Fitting 1/2" x 3/4" 4601-8-8
40	1	024-5206-00	90 Degree Fitting 3/8" X 9/16"- 4601-6-6
41	1	014-5500-00	Fan Guard for 10A
42	1	015-9999-00	Hydraulic Fan
43	1	042-5012-00	5mm x 1.25" Key
44	1	041-5048-00	Pump Belt 28Hp Diesel
45	2	013-9002-00	5/16" Flange Nut
46	2	018-8065-00	5/16" x 1" Carriage Bolt
47	1	018-7055-00	3/8-16 x 5 Hex Bolt - Grade 5
48	1	018-5311-00	5/8" x 4" Hex Bolt 61" Deck only
49	1	063-2011-00	Fuel Filter
50	2	018-5040-00	3/8" x 1 1/4" Hex Bolt
51	2	013-6014-00	3/8" Hex Nut
52	2	019-5037-00	3/8" Lock Washer
53	1	015-0007-00	Caterpillar Fuel Bowl Kit
54	1	018-5344-00	5/16" x 2 1/2" Bolt
55	1	013-8043-00	5/16" Nut
56	2	019-8044-00	5/16" Flat Washer
57	1		
	4	019-8051-00	5/16" Lock Washer
58		051-8075-00	5/16" fuel line hose
59	1	070-2000-00	Clutch Pigtail
60	6	013-5202-00	3/8" Nylock Flange Nut
61	1	039-5946-98	Pump Idler Assembly Components 3,4,5,6,7,8, only for 61" Deck
62	1	050-5308-00	Left Pump 16cc - AOS Diesel 35Hp Diesel
63	1	050-5407-00	Right Pump 16cc - AOS Diesel 35Hp Diesel
64	1	041-8411-00	Pump belt for 35HP Diesel
		020 5045 00	Discal Rump Idler only on 72" Dock
65	1	039-5945-00	Diesel Pump Idler only on 72" Deck
65 66	1	039-5945-98	Diesel Pump Idler Only On 72 Deck  Diesel Pump Idler Assembly Components 3,4,5,6,7,8,9,10 only for 72" Deck

# Radiator Assembly

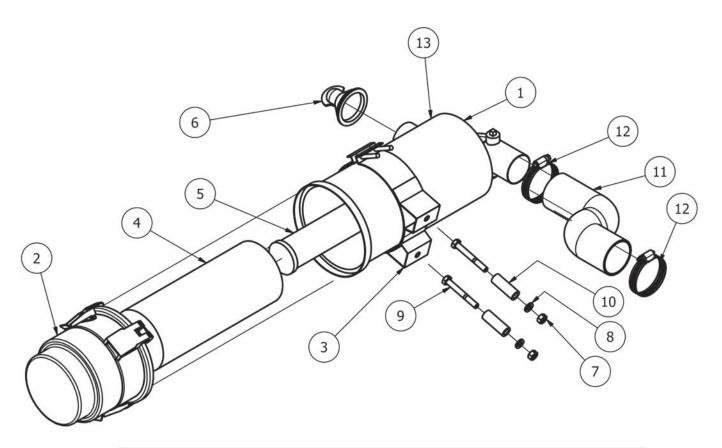




	Radiator Assembly				
ITEM	EM QTY PART NUMBER DESCRIPTION		DESCRIPTION		
1	1	061-5000-00	Radiator- Diesel		
2	1	094-5088-00	Radiator Screen-Diesel		
3	1	072-8090-00	Diesel Clamp 1 3/4" Vinyl		
4	1	051-3000-00	Top Radiator Hose for Diesel		
5	1	051-3001-00	Bottom Radiator Hose for Diesel		
6	4	072-2003-00	1 1/8" Hose Clamp		
7	1	013-8049-00	5/16" Nylock Flange Nut		
8	1	018-6083-00	5/16" x 3/4" Hex Bolt		
9	1	039-1015-00	Diesel Radiator Hose Clamp Bracket		
10	1	015-0104-00	Radiator cap		
11	2	019-5050-00	3/8 x 2-1/4 OD Fibre Washer		
12	2	019-5037-00	3/8" Lock Washer		
13	2	019-5029-00	3/8" Flat Washer		
14	2	013-6014-00	3/8" Hex Nut		
15	2	084-4015-00	Rubber Trim		
16	1	015-0111-00	overflow Reservoir- 28/35Hp Diesel		
17	1	051-8069-00	5/16 Clear Hose		
18	1	066-8075-00	Reservoir Tank Cap-Overflow		
19	1	019-7040-00	1/4" Flat Washer		
20	1	019-4008-00	1/4" Lock Washer		
21	1	013-8039-00	1/4" Hex Nut		
22	1	018-8052-00	1/4" x 3/4" Hex Bolt		
23	1	030-7040-00	1/4 x 1 Hex Head tek screw		

	Diesel Hydraulic Cooler Only on 35Hhp Diesel				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	057-5950-00	Cooler Holder		
2	2	061-8012-00	Hydraulic Cooler		
3	4	018-8052-00	1/4" x 3/4" Hex Bolt		
4	4	019-4008-00	1/4" Lock Washer		
5	4	013-8039-00	1/4" Hex Nut		
8	2	018-5344-00	5/16" x 2 1/2" Bolt		
9	2	013-8043-00	5/16" Nut		
10	2	025-8000-00	.378 x .625x 1.750 Spacer Zinc		
11	4	051-8063-00	3/8 clear hose price per foot		
12	4	072-8065-00	3/8 hose clamp		

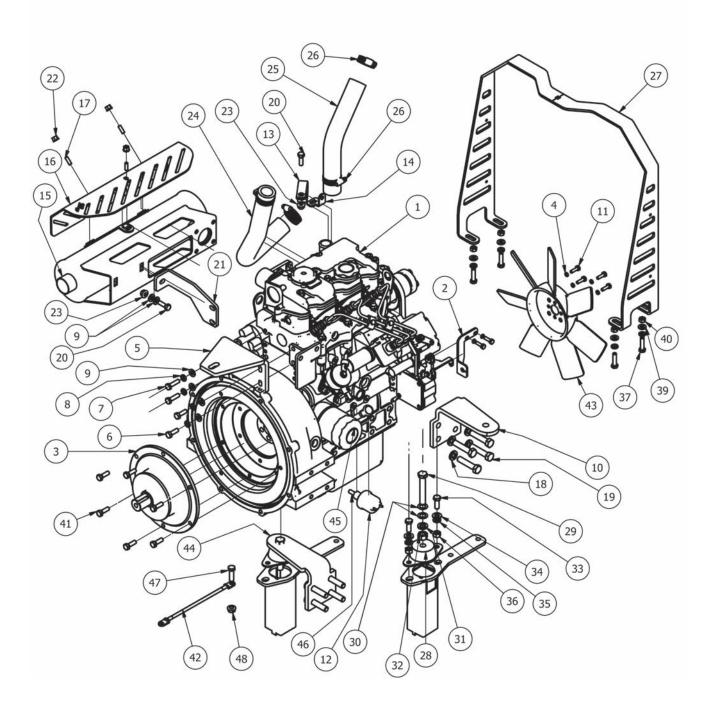
# Diesel Air filter Assembly



	Diesel Air Filter Assembly				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	088-1018-00	Canister for All Diesel Models		
2	1	088-1017-00	Enginaire Air canister cap		
3	1	088-1019-00	Mounting Bracket For Diesel Air Filter		
4	1	063-2050-00	Diesel Air Filter- Outer		
5	1	063-2060-00	Diesel Air Filter- Inner		
6	1	088-1020-00	Debris Plug-Enginaire Filter		
7	2	013-8043-00	5/16" Nut		
8	2	019-8051-00	5/16" Lock Washer		
9	2	018-5344-00	5/16" x 2 1/2" Bolt		
10	2	025-8000-00	.378 x .625x 1.750 Spacer Zinc		
11	1	051-3002-00	Air Intake Hose-Diesel Air Filter Canister		
12	2	072-2002-00	2-1/2" Hose Clamp		
13	1	088-1010-50	Enginaire Canister VLR-Complete Assembly		

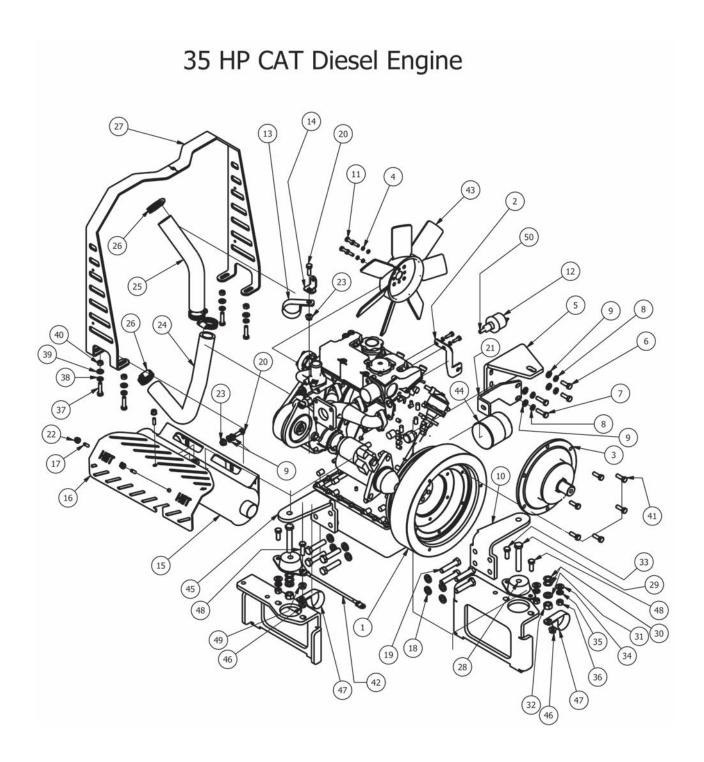


# 28Hp CAT Diesel Engine



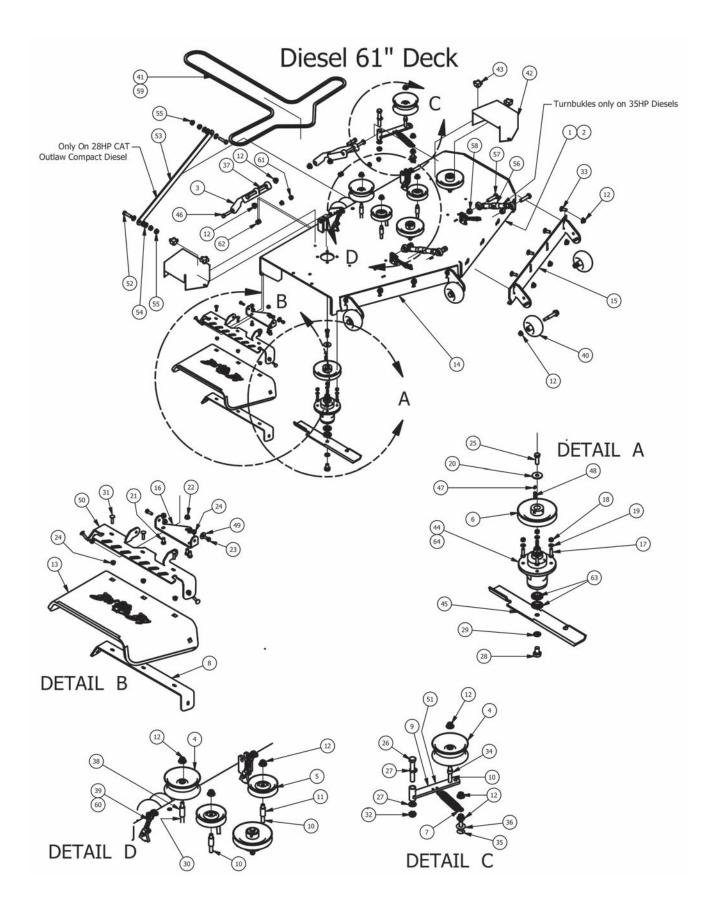
		28	hp CAT Diesel Engine
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	015-0004-00	28hp CAT Diesel Engine
2	1	039-1010-00	Diesel Throttle Bracket (4 Tier)
3	1	017-3000-00	Stub Shaft
4	6	019-4008-00	1/4" Lock Washer
5	1	201-8005-00	Air Cleaner Support Diesel
6	2	018-2001-00	M8 x 1.25 x 25mm Hex Head Bolt
7	2	018-5320-00	M8 x 1.25 x 30mm Hex Head Bolt
8	10	019-8051-00	5/16" Lock Washer
9	6	019-8044-00	5/16" Flat Washer
10	1	201-8008-00	Diesel Motor Side Support Right
11	6	018-2000-00	6mm x 20mm Bolt
12	1	086-7004-00	Pressure sender-2012 Gauge and up
13	1	072-8090-00	Diesel Clamp 1 3/4" Vinyl
14	1	039-1015-00	Diesel Radiator Hose Clamp Bracket
15	1	015-0010-00	28/35hp Caterpillar Muffler
16	1	043-1010-00	Diesel Muffler Guard (28hp)
17	3	030-8000-00	1/4" x 3/4" Set Screw
18	8	019-5007-00	1/2" Lock Washer
19	8	018-6022-00	12mm Bolt- Diesel
20	8	018-2007-00	5/16" x 1" Bolt
21	1	203-8000-00	Muffler Brace Diesel
22	3	013-2050-00	1/4-20 Nylon Insert flange Nut
23	2	013-9002-00	5/16" Flange Nut
24	1	051-3001-00	Bottom Radiator Hose for Diesel
25	1	051-3000-00	Top Radiator Hose for Diesel
26	4	072-2003-00	1 1/8" Hose Clamp
27	1	201-8001-00	Hood Holder Diesel
28	2	032-4050-00	Rubber Isolator
29	2	018-7016-00	1/2" x 3" Hex Bolt
30	4	019-5010-00	1/2" Brass Washer
31	2	019-5007-00	1/2" Lock Washer
32	2	013-7018-00	1/2" Hex Nut
33	2	018-6049-00	3/8" x 1" Hex Bolt
34	3	019-5029-00	3/8" Flat Washer
35	3	019-5037-00	3/8" Lock Washer
36	3	013-6014-00	3/8" Hex Nut
37	4	018-5025-00	5/16" x 1 1/4" Hex Bolt
38	5	019-8051-00	5/16" Lock Washer
39	4	019-8044-00	5/16" Flat Washer
40	4	013-8043-00	5/16" Nut
41	6	018-0016-00	5/16-18 X 1 Button Head Bolt
42	1	086-0004-00	Starer To Chassis Cable - Diesel
43	1	015-6050-00	Engine Fan - Diesel
44	1	201-8009-00	Diesel Side Motor Mount Left
45	1	063-2010-00	CAT Oil Filter
46	1	019-2050-00	Brass Washer For Weld On Hinge
47	2	018-6012-00	3/8" x 1 1/2" Hex Bolt
48	1	013-5201-00	3/8" Flange Nut





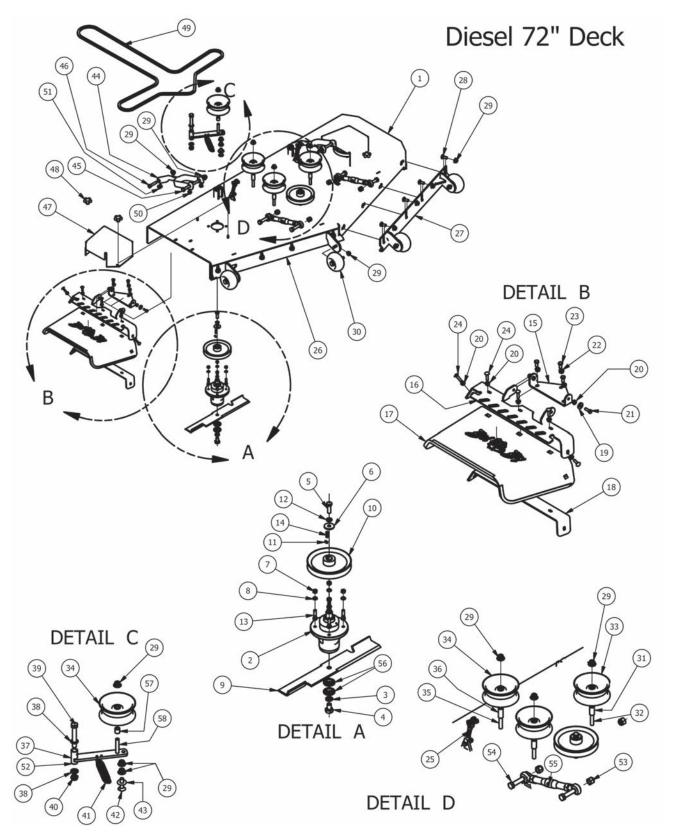
			35HP Diesel Engine
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	015-5600-00	35HP CAT Diesel Engine
2	1	039-1010-00	Diesel Throttle Bracket (4 Tier)
3	1	017-3000-00	Stub Shaft
4	6	019-4008-00	1/4" Lock Washer
5	1	201-8005-00	Air Cleaner Support Diesel
6	2	018-2001-00 M8 x 1.25 x 25mm Hex Head Bolt	
7	2	018-5320-00	M8 x 1.25 x 30mm Hex Head Bolt
8	10	019-8051-00	5/16" Lock Washer
9	6	019-8044-00	5/16" Flat Washer
10	1	201-8008-00	Diesel Motor Side Support Right
11	6	018-2000-00	6mm x 20mm Bolt
12	1	086-7004-00	Pressure Sender-2012 Gauge and Up
13	1	072-8090-00	Diesel Clamp 1 3/4" Vinyl
14	1	039-1015-00	Diesel Radiator Hose Clamp Bracket
15	1	015-0010-00	28/35hp Caterpillar Muffler
16	1	043-1000-00	Diesel Muffler Guard (35Hp)
17	3	030-8000-00	1/4" x 3/4" Set Screw
18	8	019-5007-00	1/2" Lock Washer
19	8	018-6022-00	12mm Bolt- Diesel
20	8	018-2007-00	5/16" x 1" Bolt
21	1	203-8000-00	Muffler Brace Diesel
22	3	013-2050-00	1/4-20 Nylon Insert flange Nut
23	2	013-9002-00	5/16" Flange Nut
24	1	051-3001-00	Bottom Radiator Hose for Diesel
25	1	051-3000-00	Top Radiator Hose for Diesel
26	4	072-2003-00	1 1/8" Hose Clamp
27	1	201-8001-00	Hood Holder Diesel
28	2	032-4050-00	Rubber Isolator
29	2	018-7016-00	1/2" x 3" Hex Bolt
30	4	019-5010-00	1/2" Brass Washer
31	2	019-5007-00	1/2" Lock Washer
32	2	013-7018-00	1/2" Hex Nut
33	3	018-6049-00	3/8" x 1" Hex Bolt
34	3	019-5029-00	3/8" Flat Washer
35	3	019-5037-00	3/8" Lock Washer
36	3	013-6014-00	3/8" Hex Nut
37	4	018-5025-00	5/16" x 1 1/4" Hex Bolt
38	3	019-8051-00	5/16" Lock Washer
39	4	019-8044-00	5/16" Flat Washer
40	4	013-8043-00	5/16" Nut
41	6	018-0016-00	5/16-18 x 1 Button Head Bolt
42	1	086-0005-00	Starter to Chassis Cable - Diesel-35 Hp
43	1	015-6050-00	Engine Fan - Diesel
44	1	063-2010-00	CAT Oil Filter
45	1	201-8009-00	Diesel Side Motor Mount Left
46	1	013-9003-00	3/8 Nylock Jam Nut 1/2 Nut
47	2	072-8090-00	Diesel Clamp 1 3/4" Vinyl
48	2	018-6012-00	3/8" x 1 1/2" Hex Bolt
49	2	013-5201-00	3/8" Flange Nut
50	1	019-2050-00	Brass Washer for Weld-on Hinge





		p.nm	Diesel 61" Deck
ITEM	QTY	PART NUMBER	DESCRIPTION  C1// Outbox Dock Only 201/D Discript
1	1	060-6100-00	61" Outlaw Deck Only 28HP Diesel
2	1	060-6130-00	61" AOS Deck Only 2012 35Hp Diesel
3	2	031-6010-00	Deck Arm Assembly
4	2	033-5001-00	5 3/4 Flat Idler-32FI-92-008 Pulley
5	2	033-6001-00	4 3/4" Idler Pulley
6	3	033-6004-00	6 1/4" Drive Pulley
7	1	034-2009-00	2009 Deck/Pump Idler Spring
8	1	039-4863-00	60" Lower Hanger
9	1	039-6945-00	Deck Idler
10	3	018-2018-00	1/2 x 3 1/2 Flange Bolt Grade 8
11	2	025-5338-00	.502 ID X .75 OD X 1.500 Leng
12	24	013-8050-00	1/2-13 Nylon Insert Flange Nut
13	1	210-6005-00	Rubber Discharge Chute
14	1	060-6220-00	61 Outlaw Adjustable Deck Front (Left)
15	1	060-6210-00	61 Outlaw Adjustable Deck Front (Right)
16	1	206-6017-00	Discharge Chute Hanger (deck mounted)
17	12	018-5040-00	3/8" x 1 1/4" Hex Bolt
18	12	013-6014-00	3/8-16 Hex Nuts Zinc
19	12	019-5037-00	3/8 Lockwasher Zinc
20	3	019-5037-00	1/2 Belleville Washer
20	3	019-6020-00	7
			3/8" x 3/4" Hex Bolt
22	3	013-5201-00	3/8" Flange Nut
23	2	018-2007-00	5/16" x 1" Bolt
24	7	013-9002-00	5/16" Flange Nut Zinc W/Serrations
25	3	018-6019-00	1/2"-20 x 1 1/2 - Grade 5 Fine Thread Bolt
26	1	018-5311-00	5/8" x 4" Hex Bolt
27	2	019-6017-00	.635 ID Plastic Washer
28	3	018-6020-00	5/8" x 1 1/2" Grade 8 Bolt
29	3	019-4807-00	5/8" Lock Washer
30	1	018-5019-00	1/2" x 4" Bolt (Grade 8)
31	5	018-4703-00	5/16" x 1 1/4" Carriage Bolt
32	1	013-5301-00	5/8" Nylock (1/2 Jam)
33	8	018-3003-00	1/2" x 1 1/4 Carriage Bolt
34	1	025-5203-00	Spacer 3/4 OD x 1/2 ID x.75
35	1	018-1050-00	1/2 x 2" Carriage Bolt
36	1	019-2040-00	1/2" Flat Washer
37	2		
		018-1090-00	1/2" x 5 1/2" Bolt
38	1	025-5339-00	1 3/4" Pulley Spacer
39	2	047-4000-00	4 - Link Adjustable Deck Hange 35HP Diesel
40	6	022-1000-00	Deck Wheel
41	1	041-0226-00	B226 Belt For 2012 (61" 28HP Compact Diesel Only)
42	2	014-6010-00	Pulley Cover
43	4	045-6043-00	5/16" Knob
44	3	037-8000-50	Double Bearing Spindle Only on 28hp Diesel
45	3	038-6080-00	61 inch Fusion Blade
46	2	018-6037-00	1/2-13X 2-1/4 GR Hex Bolts
47	3	030-0050-00	5/16 Set Screw
48	3	042-6030-00	1/4" x 1" Key
49	2	019-6042-00	.360 ID Plastic Washer
50	1	039-4864-00	60" Upper Hanger Plate
51	1	039-6945-98	Deck Idler Assembly-parts of Assembly 12,4,34,10,9
52	2	018-5049-00	1/2-13x2 GR 5 Hex Bolt
53	1	028-6060-00	Panhard Linkage Bar
54	6	019-8054-00	-
			.505 Nylon Spacer
55	4	013-5300-00	1/2" Flange Nut
56	2	048-6056-00	Tumbuckle (Top Link)
57	4	018-6059-00	5/8" x 2 1/2" Hex Bolt
58	4	013-7021-00	5/8 Std NC Nylock Nut
59	1	041-0236-00	B236 Belt - Diesel EZ Ride 35Hp (61" Diesel only)
60	4	047-6047-98	3 Link Adjustable Deck Hanger only on 28HP Diesel
61	4	032-5056-00 032-5057-00	Flange Bushing For Deck Arm upper Flange for Lower Deck Arm
63	6	032-5057-00	Double Bearing For Spindle
05	1 0	037-0001-00	bodose bearing (or opinde

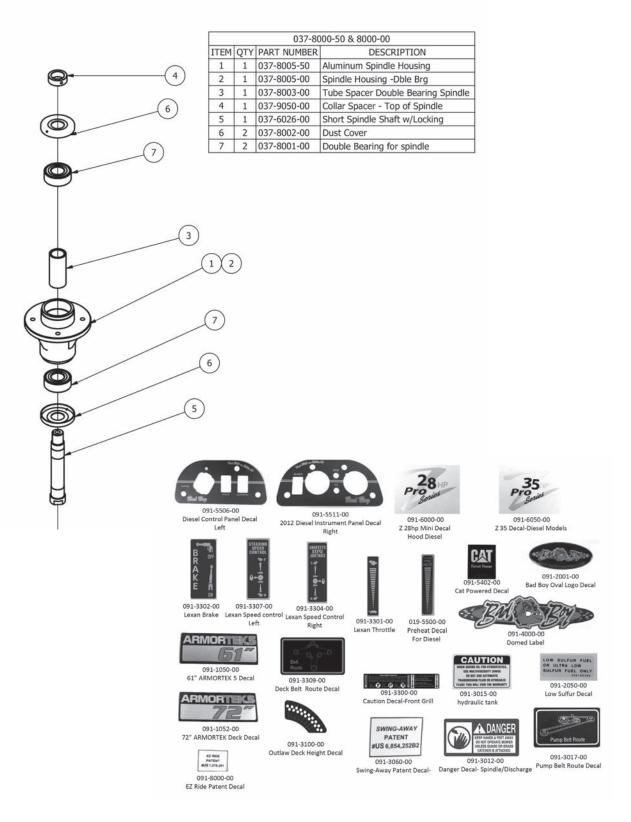




		T	Diesel 72" Deck
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	060-7201-00	72" ( Deck Only)
2	3	037-8000-00	Double Bearing Spindle
3	3	019-4807-00	5/8" Lock Washer
4	3	018-6020-00	5/8" x 1 1/2" Grade 8 Bolt
5	3	018-6019-00	1/2"-20 x 1 1/2 - Grade 5 Fine Thread Bolt
6	3	019-6020-00	1/2 Belleville Washer
7	12	013-6014-00	3/8-16 Hex Nuts Zinc
8	12	019-5037-00	3/8 Lockwasher Zinc
9	3	038-7230-00	72" High Lift Fusion Blade
10	3	033-7203-00	7" Deck Pulley
11	3	030-6029-00	3/8" Set Screw
12	3	019-5007-00	1/2" Lock Washer
13	12	018-6012-00	3/8" x 1 1/2" Hex Bolt
14	3	042-6030-00	1/4" x 1" Key
15	1	206-6017-00	Discharge Chute Hanger (deck mounted)
16	1	039-4864-00	60" Upper Discharge Chute Bracket
17	1	210-6005-00	Rubber Discharge Chute
18 19	2	039-4863-00	60" Lower Discharge Bracket  .360 ID Plastic Washer
20	7	019-6042-00 013-9002-00	5/16" Flange Nut Zinc W/Serrations
21	2	018-2007-00	5/16" x 1" Bolt
22	3	013-5201-00	3/8" Flange Nut
23	3	018-5250-00	3/8" x 3/4" Hex Bolt
24	5	018-4703-00	5/16" x 1 1/4" Carriage Bolt
25	2	047-5000-00	5- Link Adjustable Deck Hange
26	1	060-7211-00	72" Deck Adustable Front (Right)
27	1	060-7210-00	72" Deck Adjustable Front (kight)
28	8	018-3003-00	1/2" x 1 1/4 Carriage Bolt
29	22	013-8050-00	1/2-13 Nylon Insert Flange Nut
30	4	022-1000-00	Deck Wheel
31	2	025-5338-00	.502 ID X .75 OD X 1.500 Leng
32	2	018-2018-00	1/2 x 3 1/2 Flange Bolt Grade 8
33	2	033-7201-00	5 3/4" Deck Idler Pulley
34	2	033-5001-00	5 3/4 Flat Idler-32FI-92-008 Pulley
35	1	018-5019-00	1/2" x 4" Bolt (Grade 8)
36	1	025-5339-00	1 3/4" Pulley Spacer
37	1	039-6945-00	Deck Idler
38	2	019-6017-00	.635 ID Plastic Washer
39	1	018-5311-00	5/8" x 4" Hex Bolt
40	1	013-5301-00	5/8" Nylock (1/2 Jam)
41	1	034-2009-00	2009 Deck/Pump Idler Spring
42	1	018-1050-00	1/2 x 2" Carriage Bolt
43	1	019-2040-00	1/2" Flat Washer
44	2	031-6010-00	Deck Arm Assembly
45	2	018-1090-00	1/2" x 5 1/2" Bolt
46	2	018-6037-00	1/2-13X 2-1/4 GR Hex Bolts
47	2	014-7204-00	72 Spindle Cover
48	4	045-6043-00	5/16" Knob
49	1	041-2525-00	B252-50 Fits 2007 72" Diesel
50	4	032-5056-00	Flange Bushing For Deck Arm upper
51	4	032-5057-00	Flange for Lower Deck Arm
52	1	039-6945-98	Deck Idler Complete Assembly- Componets 29,34,37,57,58
53	4	013-7021-00	5/8 Std NC Nylock Nut
54	4	018-6059-00	5/8" x 2 1/2" Hex Bolt
55	2	048-6056-00	Turnbuckle (Top Link)
56	6	037-8001-00	Double Bearing For Spindle
57	1	025-5203-00	3/4 OD x 1/2 ID x 3\4 Length
58	1	018-7016-00	1/2-13 x GR 5 Hex Bolt Zinc



# 037-8000-50 & 8000-00 Double Bearing Spindle



## **2013 LIMITED WARRANTY**

## FOR

# **BAD BOY COMMERCIAL MOWER SERIES** (CZT ELITE, DIESEL, OUTLAW, OUTLAW EXTREME, OUTLAW STAND ON and OUTLAW XP)

## 1. WHAT THIS WARRANTY COVERS, AND FOR HOW LONG:

Bad Boy, Inc. will, at its option, repair or replace, without charge, any part covered by the warranty which is found to be defective in material and/or workmanship within two (2) years\* after date of sale to the original retail purchaser unless the product is used for rental purposes. in which case this warranty is limited to ninety (90) days.

Labor for all warranted parts will also be covered for 2 years from the date of sale to the original purchaser.

The leading edge of the deck shell will be warranted for the entire lifetime of the machine to the original purchaser against defects in

materials and workmanship. Labor required to repair or replace the leading edge of the deck shell will be covered by Bad Boy, Inc for the first two years and at the unit owner's expense during the balance of the lifetime of the machine.

Belts are warranted for a period of ninety (90) days against materials or workmanship defects.

At Bad Boy, Inc.'s request, the customer will make the defective part available for inspection by Bad Boy, Inc. and/or return the defective part to Bad Boy, Inc., transportation charges prepaid.

#### 2. WHAT THIS WARRANTY DOES NOT COVER:

- This warranty does not cover defects caused by depreciation or damage caused by normal wear, accidents, improper maintenance, improper use or abuse of the product, alterations, or failure to follow the instruction contained in the Owner's Manual for operation and maintenance
- The customer shall pay any charges for making service calls and/or for transporting the mower to and from the place B. where the

inspection and/or warranty work is performed.

Bad Boy Inc will not be responsible for the pickup and delivery of a machine for warranty purposes.

- Engines are warranted separately by their respective manufacturer. The available warranties covering this item are furnished with each mower. Bad Boy, Inc. does not assume any warranty obligation, liability or modification for this item, which is covered exclusively by the stated warranty of the respective manufacturers.
- Tires, blades, deck anti-scalping wheels and hoses are considered to be consumable wear items and are therefore not warranted
- Batteries are warranted for six months (free replacement) from the retail purchase date against materials or workmanship defects. The battery warranty must be obtained through the battery manufacturer.

## 3. HOW TO OBTAIN SERVICE UNDER THIS WARRANTY:

- Warranty service can be arranged by contacting the dealer where you purchased the mower or by contacting Bad Boy, Inc. Proof of the date of purchase may be required to verify warranty coverage.
- Warranty claims will not be reviewed or paid unless the warranty registration is received by Bad Boy. Inc. within 30 days of the retail purchase date.

## 4. WARRANTY LIMITATION:

- THERE IS NO OTHER EXPRESS WARRANTY. ANY WARRANTY THAT MAY BE IMPLIED FROM THIS PURCHASE INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IS HEREBY LIMITED TO THE DURATION OF THIS WARRANTY AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you
- BAD BOY, INC. WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES AND/OR EXPENSES IN CONNECTION WITH THE PURCHASE OR USE OF THE MOWER. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation(s) or exclusion(s) may not apply to you.
- Only the warranty expressed in this limited warranty shall apply and no dealer, distributor, or individual is authorized to amend, modify, or extend this warranty in any way. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by Bad boy, Inc., and should not be relied on.
- This warranty extends only to turf equipment operated under normal conditions and properly serviced and maintained. The warranty expressly does not cover (i) any defects, damage or deterioration due to normal use, wear and tear, or exposure; (ii) normal maintenance services such as oil change, cleaning, lubrication, adjustment; (iii) replacement of services, items, such as oil, lubricants, spark plugs, belts, rubber hoses or other items subject to normal service replacement; (iv) damage or defects arising out of or relating to misuse, neglect, alteration, negligence or accident; (v) repair or replacement arising from operation of or use of the turf equipment which is not in accordance with operating instructions as specified in the operator's manual or other operational instructions provided by Bad Boy Inc.; (vi) repair or replacement arising as a result of any operation from turf equipment that has been altered or modified so as to, indetermination of Bad Boy, Inc., adversely affect the operation, performance or durability of the equipment or that has altered, modified or affected the turf equipment so as to change the intended use of the product; (vii) repair or replacement necessitated by use of parts, accessories or supplies, including gasoline, oil or lubricants, incompatible with the turf equipment or other than as recommended in the operator's manual or other operational instructions provided by Bad Boy, Inc.; (viii) repairs or replacements resulting from parts or accessories which have adversely affected the operation, performance or durability of the turf equipment; or (ix) damage or defects due to or arising out of repair of turf equipment by person or persons other than an authorized Bad Boy, Inc., service dealer or the installation of parts other than genuine Bad Boy, Inc., recommended parts.

As a condition to this warranty, customer shall have read the operator's manual and shall have returned to Bad Boy, Inc., within the prescribed time, the enclosed warranty registration card.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

# **FOR ALL OF YOUR PARTS NEEDS CALL**



**TOLL FREE: 855.888.7278** 

EMAIL: info@badboymowerparts.com