

JODALE - PERRY

**Parts List
&
Mounting Instructions**

***223D Toro
Groundmaster***

223D Toro Mounting Instructions

Parts List:

- 01 - Front mounting bracket
 - 02 - Rear mounting brackets (L & R)
 - 03 - HST pedal boxing
 - 04 - Control panel boxing
 - 05 - Rear shield
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Bolt List:

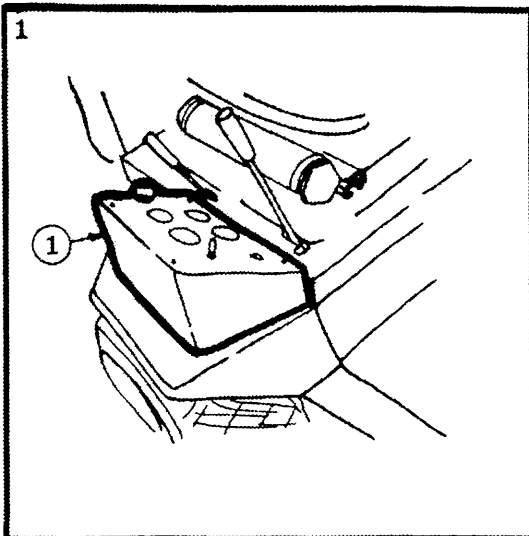
- 4 - ¼" Self-tap screws
 - 8 - ¼" x ¾" Bolts, nuts, washers
 - 4 - 3/8" x 1 ½" Bolts, washers, flat washers
 - 4 - ½" x 2 ½" Bolts, nuts, washers
 - 4 - ½" x 3" Bolts, nuts, washer
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Miscellaneous:

- 4 - Rubber Mounts
- 6 - Ludwig clips
- 1 - 6' 180 degree O-rubber
- 1 - 9 ½' 90 degree O-rubber
- 1 - 7 ¼" x 23 ½" Floormat
- 1 - 9" x 23" Floormat
- 1 - 14 ½" x 21" Floormat
- 1 - 17 ½" x 17 ½" Mylar

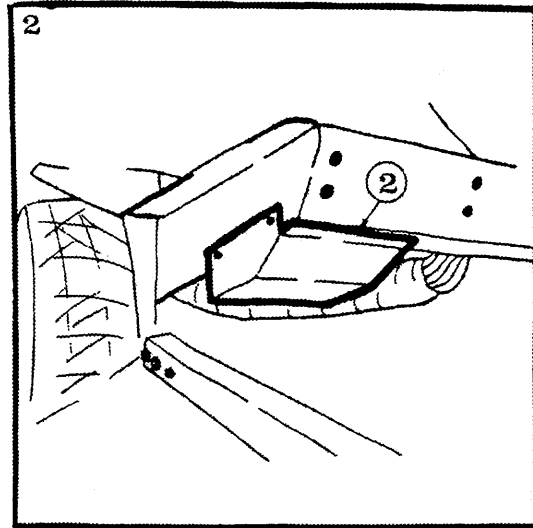
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1. Remove the ROPS, tool box, and deck-to-tractor weight transfer system from the unit. In addition, remove the control panel from the factory control panel boxing. Then remove the control panel boxing from the right fender while keeping the control panel wiring connected to the unit.
2. Take the control panel boxing (1) supplied and position it in the same manner as the factory boxing. Remember to slide the control panel through the boxing before bolting the boxing to the fender. Hold the boxing snugly against the seat plate and drill four 5/16" dia. Holes through the bottom lip of the boxing and right fender. Finally, bolt the boxing to the fender using the 1/4" x 3/4" bolts, nuts, and washers provided. (See diagram #1)
3. Next take the control panel and center it on top of the control panel boxing (1). Once the panel is in position, fasten it to the boxing using the 1/4" self-tap screws provided. (See diagram #1)



4. Take the HST pedal boxing (2) and position it underneath the platform of the unit

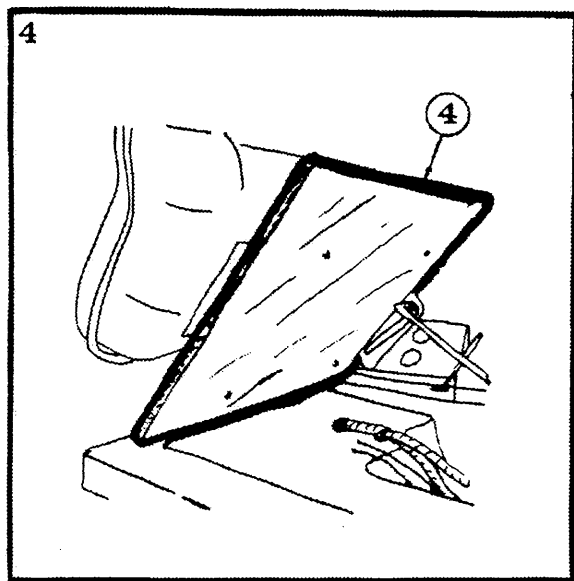
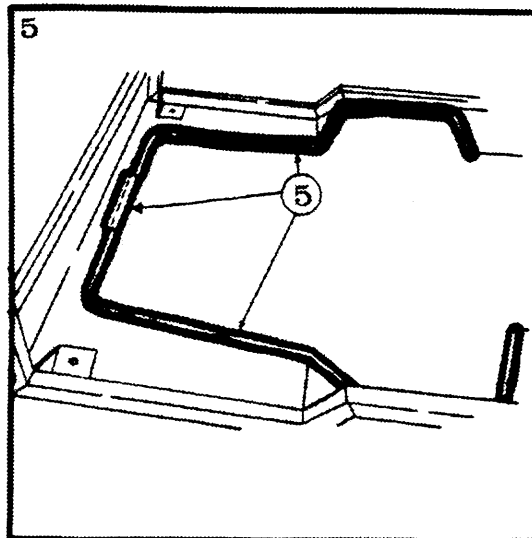
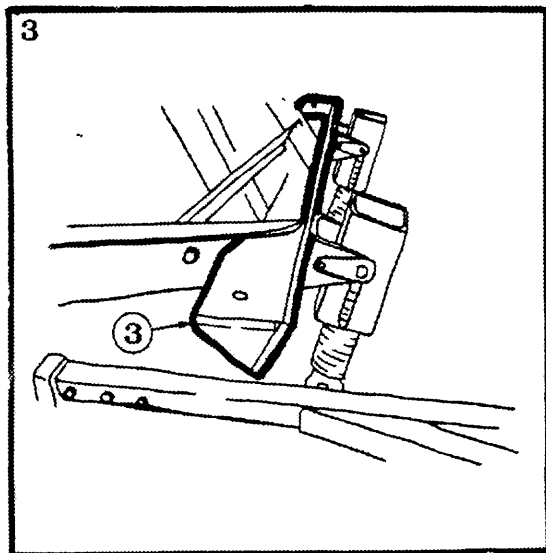
directly below the hst pedal opening. Hold the boxing firmly against the bottom and right side of the platform while drilling two 5/16" dia. Holes through the left and two more through the right side lip of the boxing and platform. (Ensure that the boxing does not interfere with the normal operation of the HST pedal, then bolt the boxing to the unit using the 1/4" x 3/4" bolts, nuts, and washers supplied. (See diagram #2)



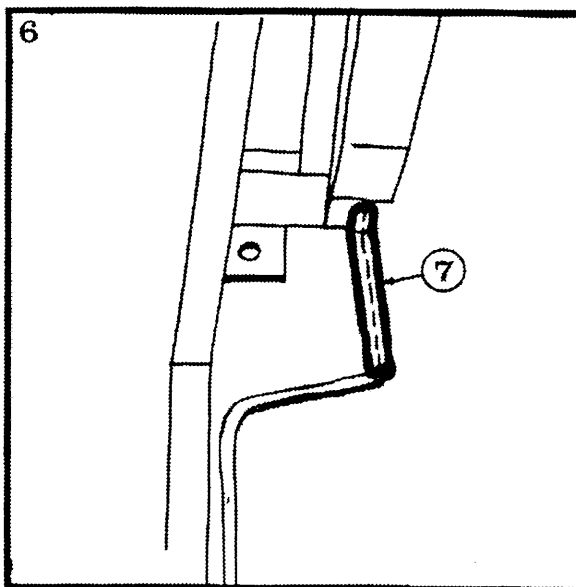
5. Take the mounting bracket (3) and position it against the front of the platform so that the holes line up with those already in the platform. Attach the deck-to-tractor weight transfer system to the front of the platform through the mounting bracket using the 3/8" x 1 1/2" bolts, flatwashers, and lock washers supplied and ensure that the mounting bracket is level. (See diagram #3)
6. Tilt the seat forward. Take the 17 1/2" x 17 1/2" piece of mylar (4) and position it under the seat plate with the silver side toward the fuel tank. Cut any openings or slits necessary for wiring, controls, or levers. Trim the mylar to fit so that normal operation of the seat and seat sensors exists. Then, glue the mylar into place. (See diagram #4)

Note: All references to left and right will be taken from the operator's point of view, when he/she is sitting in the seat.

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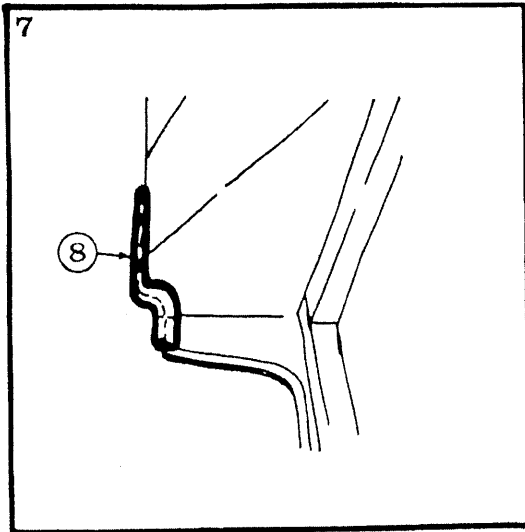
8. Take the 180 degree O-rubber (7) and slide it on to the inside lip of the fender extension panel in the bottom, right, rear corner of the cab. Begin at the front corner and work your way to the rear panel. (See diagram #6)



7. Move to the cab. Take the 90 degree O-rubber (5) and place it onto the inside edge of the front platform extension with the bulb down. Begin near the rear of the cab on the left side (front inside edge of the fuel spout boxing) and work your way out to the side of the cab, then forward until you reach the notch at the front of the cab and work your way back along this same way on the right side. (See diagram # 5)

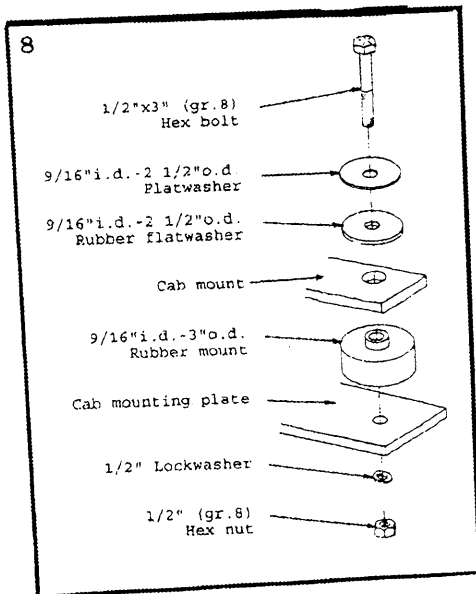
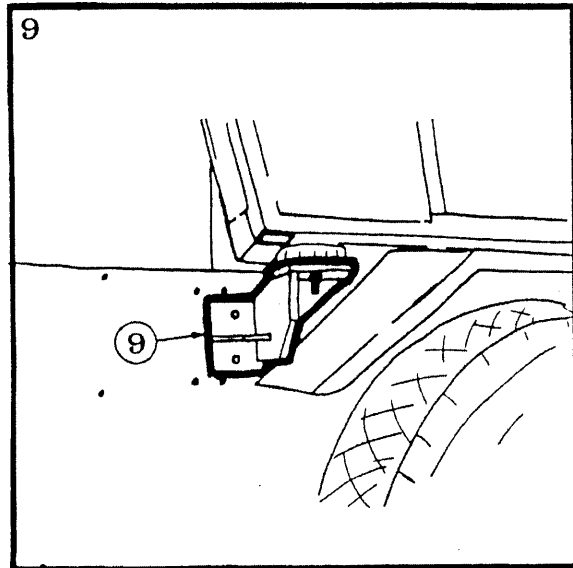
9. Take the 180 degree O-rubber (8) and slide it onto the inside, bottom lip of the fuel spout boxing. Begin at the front corner and work your way up and back to the rear panel. (See diagram #7)

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bolt them to the rear mounting tabs of the cab as shown in diagram #8. Ensure the brackets are level, then using the bracket holes as a guide drill two 9/16" dia. Holes into each side of the unit **WARNING:** Before drilling check to see that no electrical wires, hydraulic or cooling system hoses will be damaged by drilling through the frame. Then bolt the brackets to the unit using the 1/2" x 2 1/2" bolts, nuts, and washers provided. (See diagram #9)

10. ONLY NOW ARE YOU READY TO MOUNT THE CAB. Place rubber mounts onto each of the mounting tabs of the front mounting bracket. Then lift the cab directly above the unit, and slowly lower until the cab rests solidly on the rubber mounts and fenders. Loosely bolt the cab to the front mounting bracket using the 1/2" x 3" bolts, nuts, and washers. (See diagram #8)



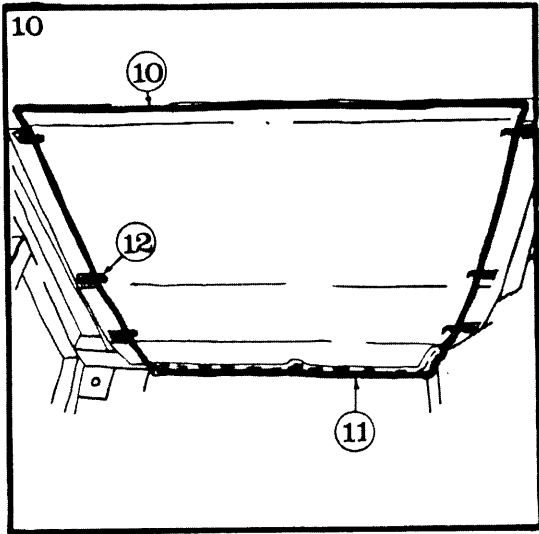
11. Lift the rear of the cab approximately 1/8". Then take the rear mounting brackets (9) and

12. Take the rear shield (10) and slide 180 degree O-rubber (11) along the bottom edge. Then position the shield over the opening at the rear of the cab. Screw the Ludwig clips (12) supplied to the rear panel of the cab using the #8 x 1/2" provided, so that the rear shield can be clipped into place. (See diagram #10)

13. Take the 9" x 23" piece of floormat (13) and position it onto the left side of the platform. Trim the floormat to fit around all controls and openings. (See diagram # 11)

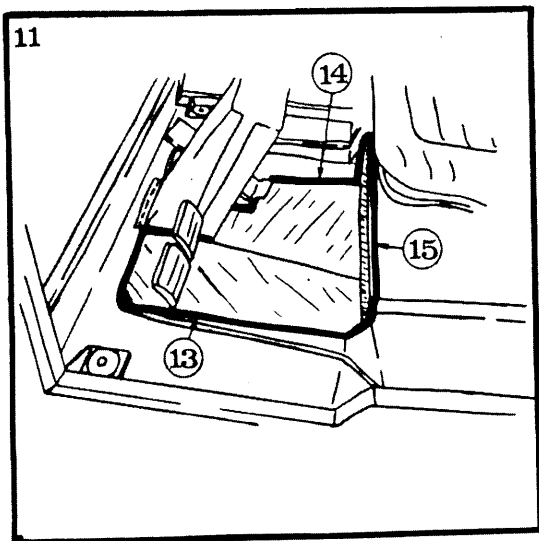
14. Take the 14 1/2" x 21" piece of floormat (14) and position it onto the right side of the

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platform. Trim the floormat to faround all controls and openings. (See diagram # 11)

15. Take the 7 ¼" x 23 ½" piece of floormat (15) and position it onto the panel at the rear of the platform. Trim to fit. (See diagram #11)



16. To ensure maximum sound and moisture protection urethane around all pieces of floormatting to fill any small openings or cracks.
17. Connect the electrical to a 12-volt source using the 30 amp. In-line fuse supplied.

223D Toro Heater Instructions

HARDWARE:

- 2 - 3/8"NPT-3/8"barb 180° Fittings
- 2 - MH-6 Hose clamps
- 2 - HS-20 Hose clamps

MISCELLANEOUS:

- 1 - 25' 3/8"i.d. Heater hose
- 1 - Sensor Adapter, 16mm
- 1 - 1 1/4" Splitter

223D Toro Heater Instructions

1. Proceed with the following **AFTER** the cab has been mounted.
2. Drain the antifreeze in the unit.
3. Remove the two 5/16"x1 1/2" bolts fastening the roof to the front cab frame. Open the roof, using the roof prop to secure the roof.
4. Locate the temperature sending unit on the thermostat housing, and remove the temperature sender and the washer. Take the sensor adapter and screw the fitting into the thermostat housing where the temperature sender was previously located with the original washer. *REMEMBER* to use a water sealant material around the threads of the fitting. Take the 3/8"NPT-3/8" barb 180° fitting and screw it into the sensor adapter. Re-install the temperature sender into the end of the sensor adapter.
5. Locate the lower radiator hose and cut the hose as shown in Figure 2. Screw the 3/8"NPT-3/8" barb 180° fitting into the splicer. *REMEMBER* to use a water sealant material around the threads of the fitting. Connect each end of the splicer to one end of the hose using the HS-20 hose clamps provided.
6. Locate the 3/8"i.d. heater hose at the base of a rear, corner of the cab frame. Identify which side of the hose connects to the water valve of the fan/heater assembly. Route the hose to the pressure fitting on the sensor adapter. Tie down the hose as required to ensure it does not interfere with any controls, levers, or accessories of the unit. Measure off the distance to the fitting and cut the hose (allow for some excess). Connect the hose to the fitting, using the MH-6 hose clamp provided.
7. Take the remaining heater hose and route it to the suction fitting on the splicer. Tie down the hose as required to ensure it does not interfere with any controls, levers, or accessories of the unit. Measure off the distance to the fitting and cut the hose (allow for some excess). Connect the hose to the fitting, using the MH-6 hose clamp provided.
8. Ensure all connections are tight, lower the roof, and fill antifreeze.
9. Open the water valve, using the rotary control cable in the switch-plate of the cab, approximately halfway and turn on the fan. Start the unit and run at PTO rpm for 5 minutes. Once the heater begins to heat, open the water valve completely. Stop the unit, check for leaks and add antifreeze as required.
10. Start the unit again and drive at PTO rpm for a few minutes to remove any air trapped in the heater hose. Stop the unit again, check the antifreeze and add as required. If the heater still does not heat, your unit will probably require an auxiliary water pump to help in water circulation.
11. Re-bolt the roof to the cab frame.