



Air Ride Seat Suspension Kit

Groundsmaster® 4000-D, 4100-D & 580-D

Model No. 30621

Form No. 3352-449 Rev C

Installation Instructions

Instructions for Groundsmaster 4000 series only. Refer to page 3 for Groundsmaster 580-D installation instructions.

1. Position the machine on a level surface, lower the cutting unit, stop the engine, engage the parking brake and remove the key from the ignition.
2. Disconnect the negative battery cable from the battery.
3. If the machine is currently equipped with a seat, proceed as follows:
 - Disconnect the seat switch wire from the traction unit harness.
 - Remove the fasteners securing the seat to the seat base.
 - Remove the seat from the seat base.
4. Remove the seat base from the machine (Fig. 1).

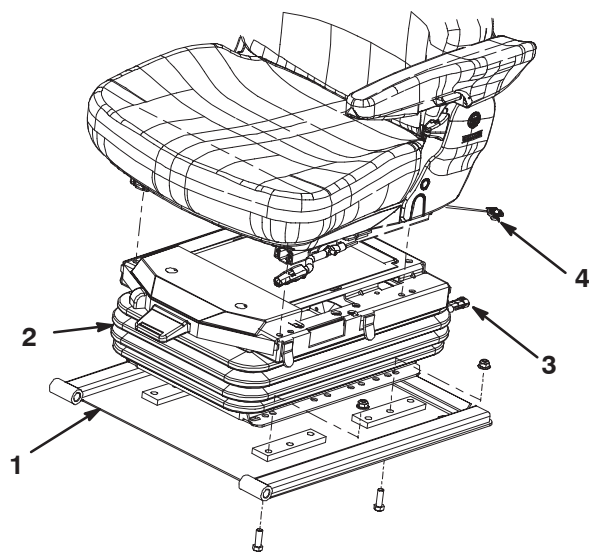


Figure 1

- | | |
|--------------------|-------------------------|
| 1. Seat base | 3. Seat suspension wire |
| 2. Seat suspension | 4. Seat switch wire |

5. Mount the air ride seat suspension to the seat base with (4) 3/8 x 1-1/8 in. capscrews and flange nuts using the holes shown in figure 1
6. Re-install the seat base w/ seat suspension to the traction unit with the fasteners previously removed (Fig. 1).

7. Mount the seat to the seat suspension per the installation instructions included with the seat kit.
8. Remove the control panel cover (Fig. 2) to gain access to the fuse block area.

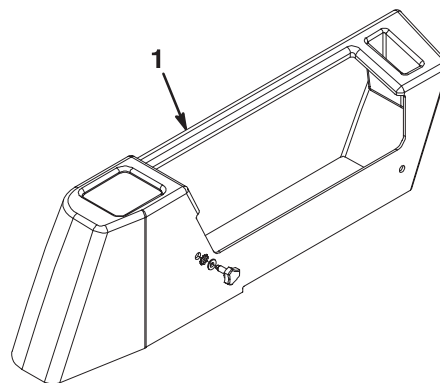


Figure 2

1. Control panel cover

Note: Do not install the new fuse block if a third fuse block has been previously installed.

9. Mount the new fuse block below the existing fuse block with a #10 x 3/4 in. screw and locknut (Fig. 3).

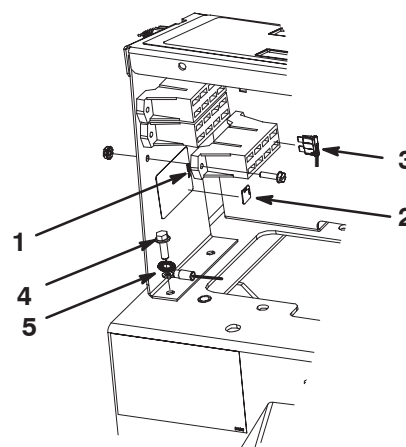


Figure 3

- | | |
|---------------|-------------------|
| 1. Fuse block | 4. Grounding bolt |
| 2. Fuse decal | 5. Grounding bolt |
| 3. Fuse | |

10. Insert the female connector from the existing fuse block into the male connector on the new fuse block.

11. Connect the air ride wire harness to the traction unit (Fig. 5) as follows:

- Plug the air ride harness connector into the air ride seat suspension wire connector.

Note: When routing the harness, do not pull it across sharp edges which may damage the wires.

- Plug the seat switch connector into the seat switch connector on the traction unit console wiring harness.
- Insert the other end of the air ride harness thru the opening in the seat plate and route it to the fuse block.
- Secure the ground wire ring terminal, from the harness, to the grounding bolt (Fig. 3 & 5). Use the star washer included when making the connection
- Plug the air ride harness spade terminal into the innermost spade terminal of the fuse block (Fig. 5). Insert a 10 amp. fuse into the corresponding fuse slot.

Note: If an accessory wiring kit has been previously installed, insert the spade terminal and fuse into the outermost spade terminal and affix the the included decal to the corresponding location.

Note: Make sure the fuse is installed in the corresponding slot that has the wire connected to the harness. The remaining fuse block wires are not used at this time.

12. Affix the fuse decal to the corresponding location on the fuse block decal (Fig. 3). Make sure the decal surface is clean an dry before affixing the new decal.

13. Re-install the control panel cover.

14. Connect the negative battery cable to the battery.

Important Secure the wire harness with wire ties. Make sure wires do not contact any hot or moving parts.

15. Slide the seat completely forward and backward to ensure proper operation and that the seat wires and connectors are not pinched or do no contact any moving parts.

Note: If a Premium Seat, Model 30622 is to be installed, the manual tube must be mounted to the back of the seat, using the R-clamps and 1/4 in. thread forming screws.

Operation

- Weight Adjusting Lever—Adjust for operator weight (Fig. 4)
- Weight gauge—Indicates when the seat is adjusted to the weight of the operator (Fig. 4). Proper adjustment is attained when the gauge is in the green region. Height adjustment is made by positioning the suspension toward the lower or upper range of the green region.

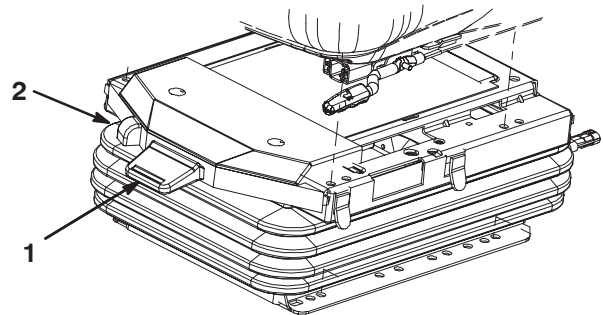


Figure 4

1. Weight adjusting lever 2. Weight gauge

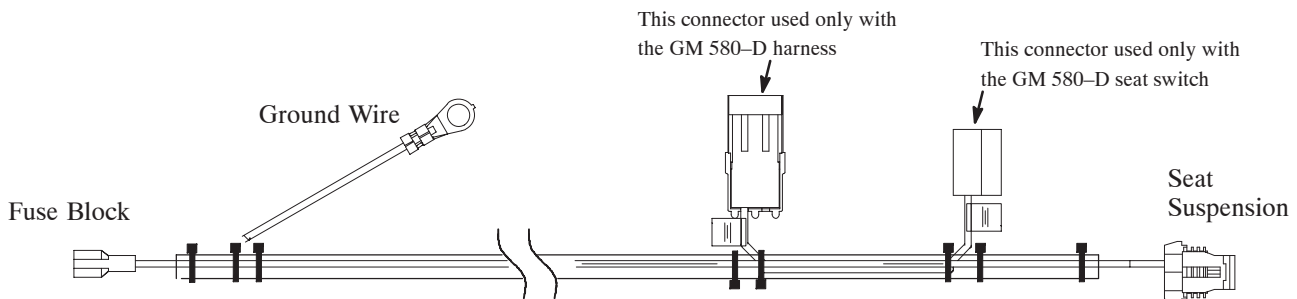


Figure 5

Groundsmaster 580-D installation instructions

1. Position the machine on a level surface, lower the cutting unit, stop the engine, engage the parking brake and remove the key from the ignition.
2. Disconnect the negative battery cable from the battery.
3. If the machine is currently equipped with a seat, proceed as follows:
 - Disconnect the seat switch wire from the traction unit harness.
 - Remove the fasteners securing the seat to the seat base.
 - Remove the seat from the seat base.
4. Remove the seat base from the machine (Fig. 6).

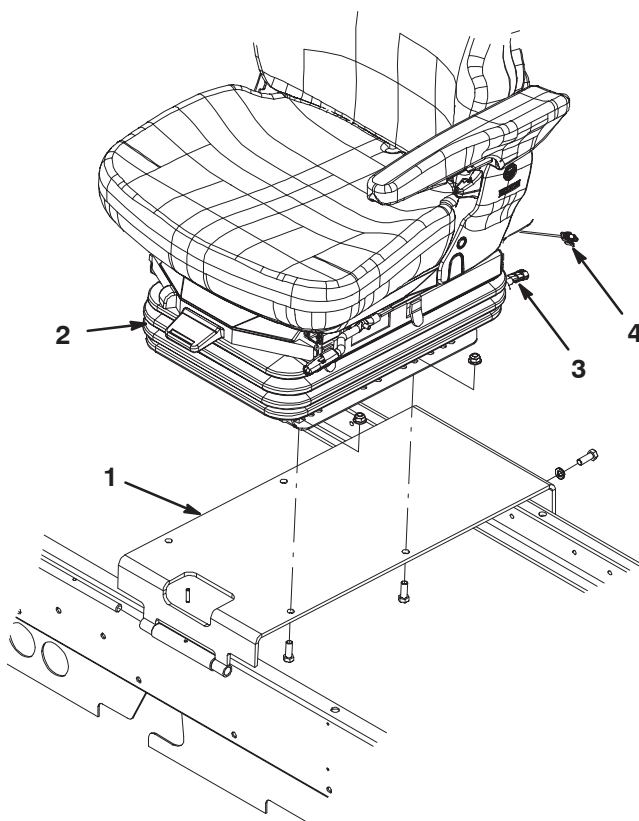


Figure 6

- | | |
|--------------------|-------------------------|
| 1. Seat base | 3. Seat suspension wire |
| 2. Seat suspension | 4. Seat switch wire |
-
5. Mount the air ride seat suspension to the seat base with (4) 3/8 x 1-1/8 in. capscrews and flange nuts using the holes shown in figure 6.
 6. Re-install the seat base w/ seat suspension to the traction unit with the fasteners previously removed (Fig. 6).
 7. Mount the seat to the seat suspension per the installation instructions included with the seat kit.

8. Remove the cup holder (Fig. 7) to gain access to the fuse block area.

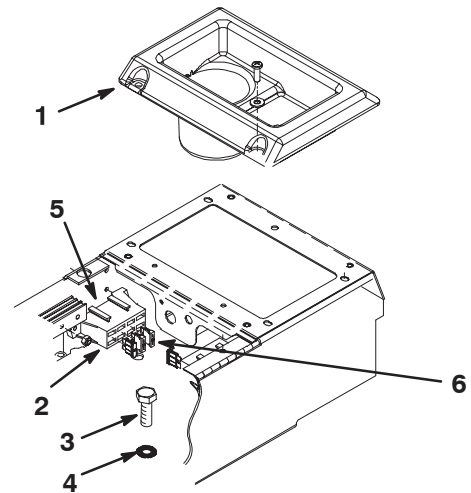


Figure 7

- | | |
|-------------------|----------------------------|
| 1. Cup holder | 4. Star washer |
| 2. Fuse block | 5. New fuse block location |
| 3. Grounding bolt | 6. Fuse |

9. Do not install the new fuse block if the Model Number of the GM 580-D is 30582.
10. Mount the new fuse block above the existing right fuse block with a #10 x 3/4 in. screw and locknut (Fig. 7).
11. Insert the female connector from the existing fuse block into the male connector on the new fuse block.
12. Connect the air ride wire harness to the traction unit (Fig. 9) as follows:
 - Plug the air ride harness connector into the air ride seat suspension wire connector (Fig. 9).

Note: When routing the harness, do not pull it across sharp edges which may damage the wires.

- Plug the air ride harness connector labeled "580-D seat switch" into the seat switch wire connector (Fig. 9).
- Plug the traction unit harness connector into the air ride harness connector, labeled "580-D harness" (Fig. 9).
- Insert the other end of the air ride harness thru the opening in the seat plate and route it to the fuse block (Fig. 7).
- Secure the ground wire (ring terminal) from the harness to the grounding bolt (Fig. 7 & 9). Use the star washer included when making the connection
- On machines prior to Model 30582, plug the air ride harness spade terminal into the innermost spade terminal of the new fuse block (Fig. 9).

- Insert a 10 amp. fuse into the corresponding fuse slot.
- Insert a 40 amp. fuse into the empty slot in the existing fuse block

Note: On model 30582 insert a 10 amp. fuse into the empty slot in the existing fuse block

Note: Make sure the fuse is installed in the corresponding slot that has the wire connected to the harness. The remaining fuse block wires are not used at this time.

13. Affix the fuse decal next to the existing fuse block decal to correspond with the connection and fuse block previously installed. Make sure the decal surface is clean and dry before affixing the new decal.
14. Re-install the cup holder.
15. Connect the negative battery cable to the battery.
- Important** Secure the wire harness with wire ties. Make sure wires do not contact any hot or moving parts.
16. Slide the seat completely forward and backward to ensure proper operation and that the seat wires and connectors are not pinched or do no contact any moving parts.

Operation

- Weight Adjusting Lever—Adjust for operator weight (Fig. 8).
- Weight gauge—Indicates when the seat is adjusted to the weight of the operator (Fig. 8). Proper adjustment is attained when the gauge is in the green region. Height adjustment is made by positioning the suspension toward the lower or upper range of the green region.

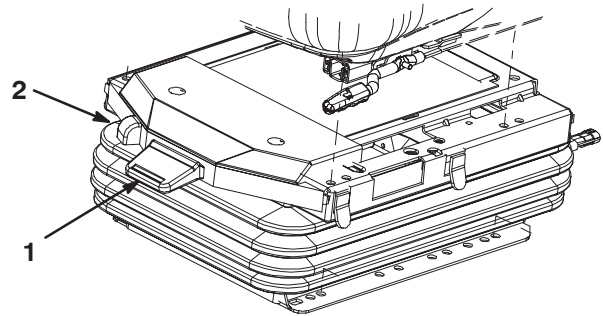


Figure 8

1. Weight adjusting lever
2. Weight gauge

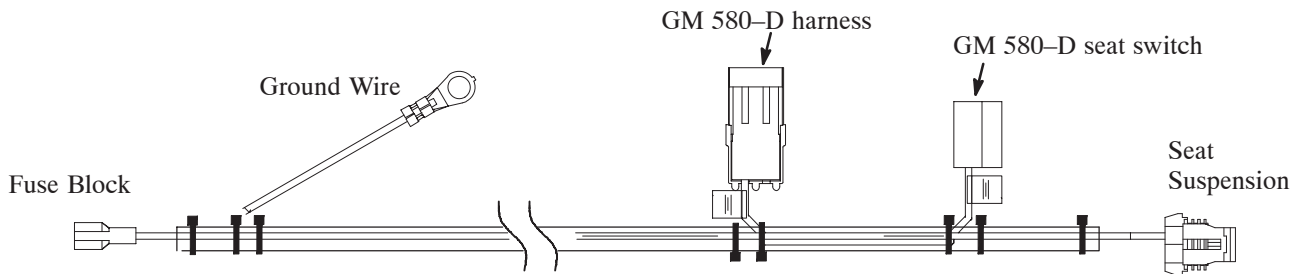


Figure 9