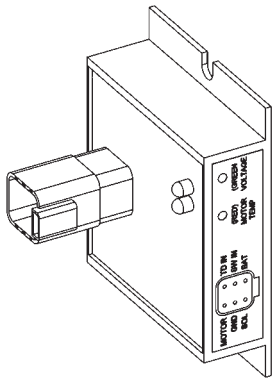
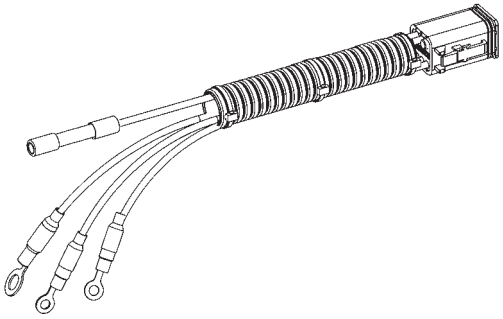
INSTRUCTION, LVS (LOW VOLTAGE SWITCH) KIT FOR DMD LIFTGATES

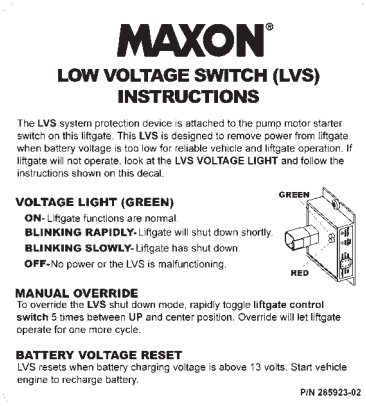
KIT P/N 286690-01



LOW VOLTAGE THERMAL SWITCH (LVTS)
P/N 906530-01
QTY. 1



HARNESS, LVS, DMD
267924-03
QTY. 1



MAXON®

LOW VOLTAGE SWITCH (LVS) INSTRUCTIONS

The **LVS** system protection device is attached to the pump motor starter switch on this liftgate. This **LVS** is designed to remove power from liftgate when battery voltage is too low for reliable vehicle and liftgate operation. If liftgate will not operate, look at the **LVS VOLTAGE LIGHT** and follow the instructions shown on this decal.

VOLTAGE LIGHT (GREEN)
ON- Liftgate functions are normal.
BLINKING RAPIDLY- Liftgate will shut down shortly.
BLINKING SLOWLY- Liftgate has shut down.
OFF- No power or the LVS is malfunctioning.

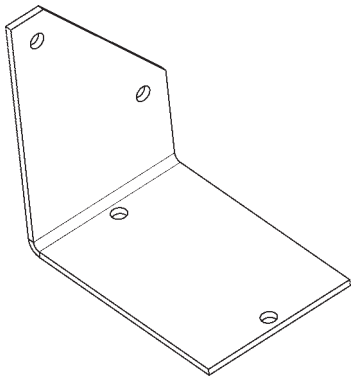
GREEN
RED

MANUAL OVERRIDE
To override the **LVS** shut down mode, rapidly toggle **liftgate control switch** 5 times between **UP** and center position. Override will let liftgate operate for one more cycle.

BATTERY VOLTAGE RESET
LVS resets when battery charging voltage is above 13 volts. Start vehicle engine to recharge battery.

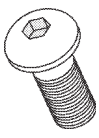
P/N 265923-02

DECAL LVS INSTRUCTION
P/N 265923-02
QTY. 1

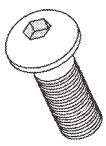


LVS MOUNT BRACKET
P/N 286693-01
QTY. 1

FLAT WASHER, 1/4”, STAINLESS STEEL
P/N 903412-01
QTY. 4



BUTTON SCREW, 1/4”-20 X 3/4” LG.
P/N 900719-05
QTY. 2



BUTTON SCREW, 1/4”-20 X 7/8” LG.
P/N 900719-06
QTY. 2

LOCK NUT, 1/4”-20, NYLON & STAINLESS STEEL
P/N 903137-01
QTY. 4

⚠ WARNING

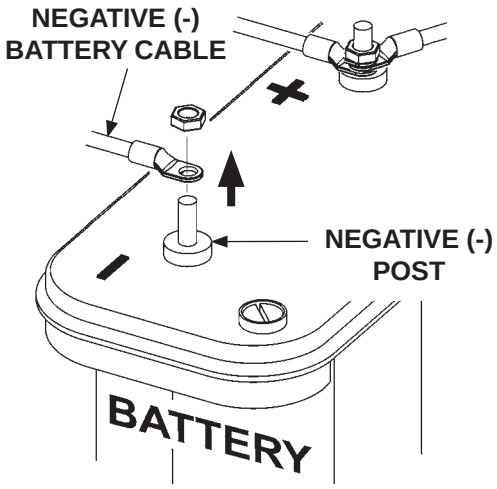
Remove all rings, watches and jewelry before doing any electrical work.

⚠ WARNING

To prevent accidental personal injury and equipment damage, make sure power is disconnected from Liftgate while installing parts.

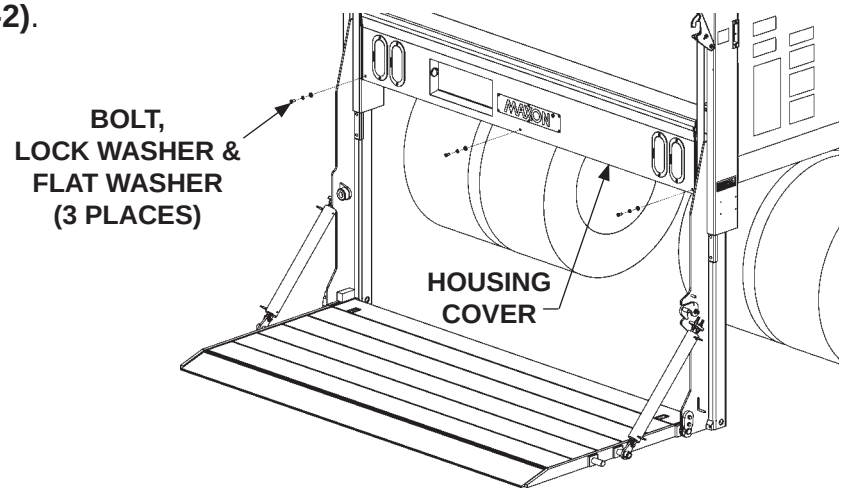
1. Unfold and lower platform to the ground **(FIG. 2-2)**. Refer to DMD **OPERATING INSTRUCTIONS** decal on vehicle and **DMD Operation Manua**l.

2. Disconnect power from Liftgate by disconnecting negative **(-)** battery cable from negative **(-)** battery post **(FIG. 2-1)**.



DISCONNECTING BATTERY
FIG. 2-1

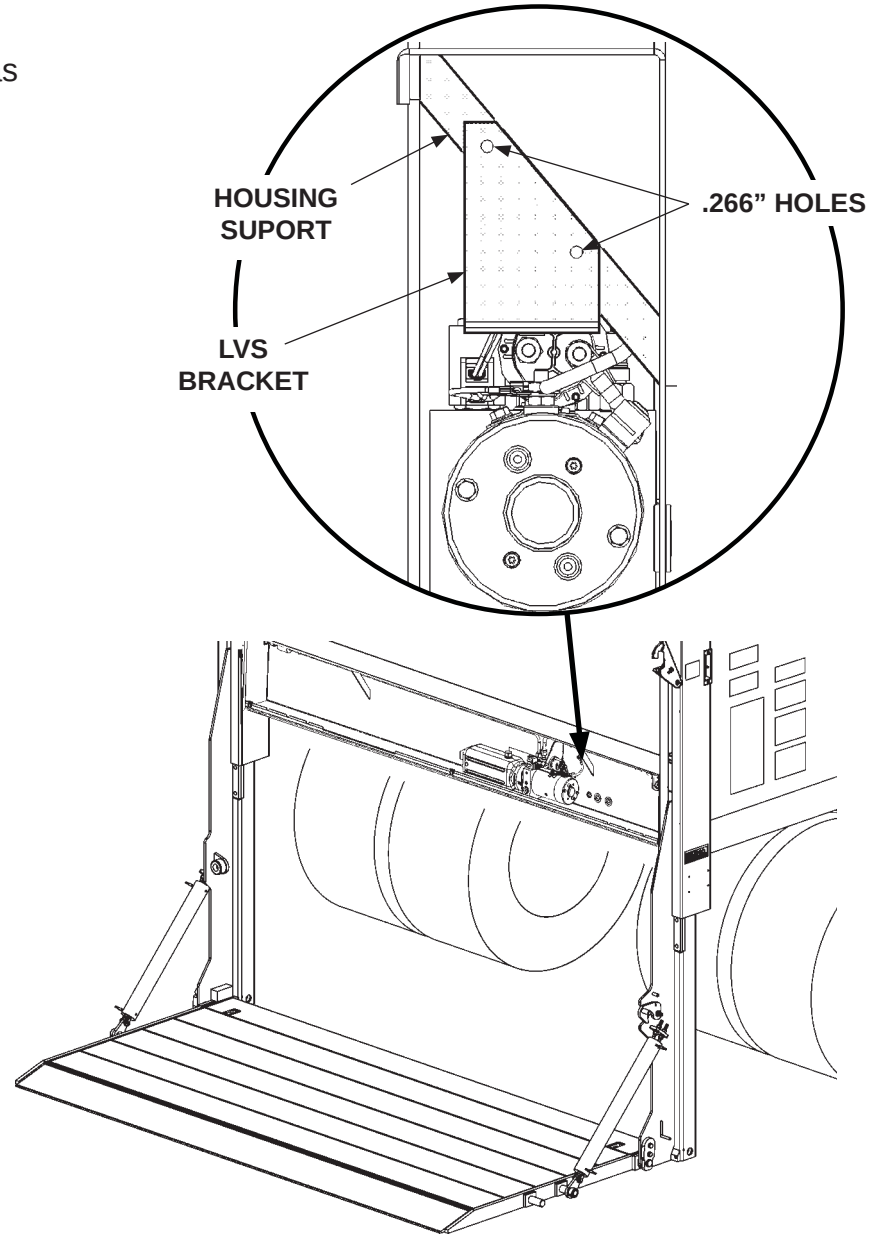
3. Unbolt housing cover and remove from Liftgate **(FIG. 2-2)**.



UNBOLTING COVER FOR REMOVAL
(PLATFORM UNFOLDED ON THE GROUND)
FIG. 2-2

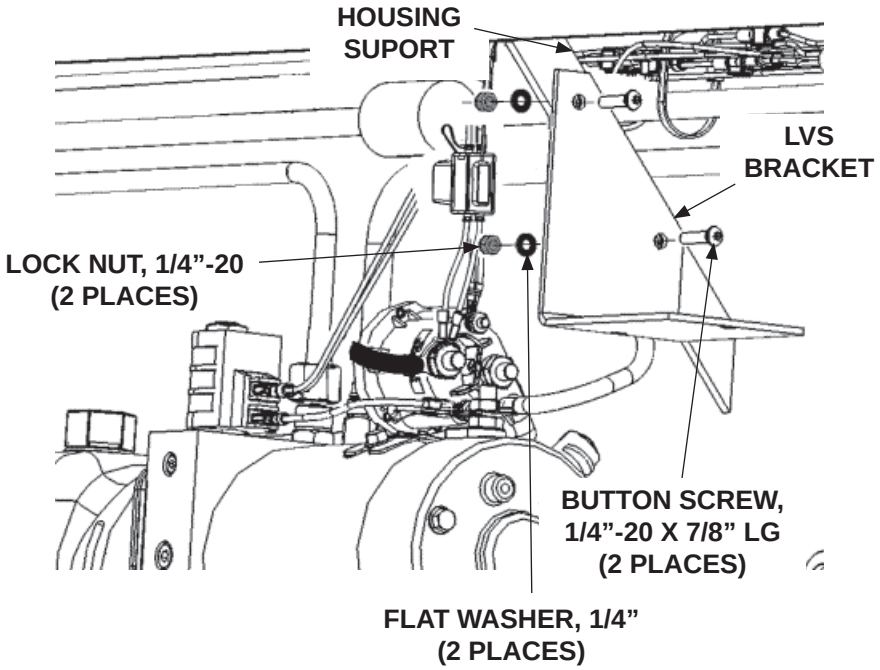
4. Position LVS mount bracket on the RH housing support as shown in **FIG. 3-1**.

5. Mark position, of 2 bracket holes, on the housing support **(FIG. 3-1)**. Then, use .266” bit to drill the 2 holes.



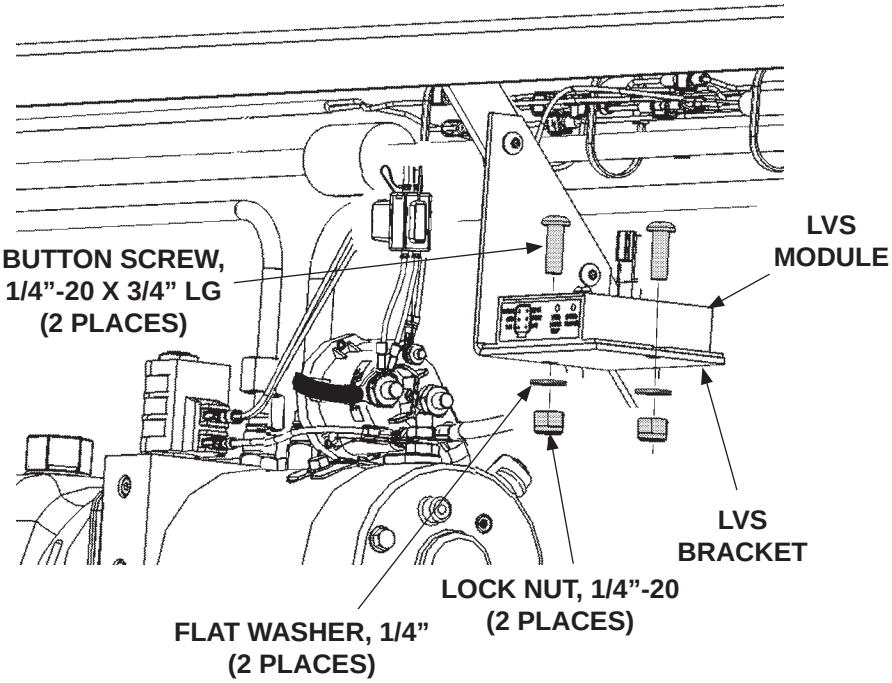
POSITIONING BRACKET ON HOUSING SUPPORT
FIG. 3-1

6. Bolt the LVS bracket (Kit item) to housing support as shown in **FIG. 4-1**. Tighten screws, flat washers, and lock nuts (Kit items) securely, but do not over-tighten.



BOLTING BRACKET TO HOUSING SUPPORT
FIG. 4-1

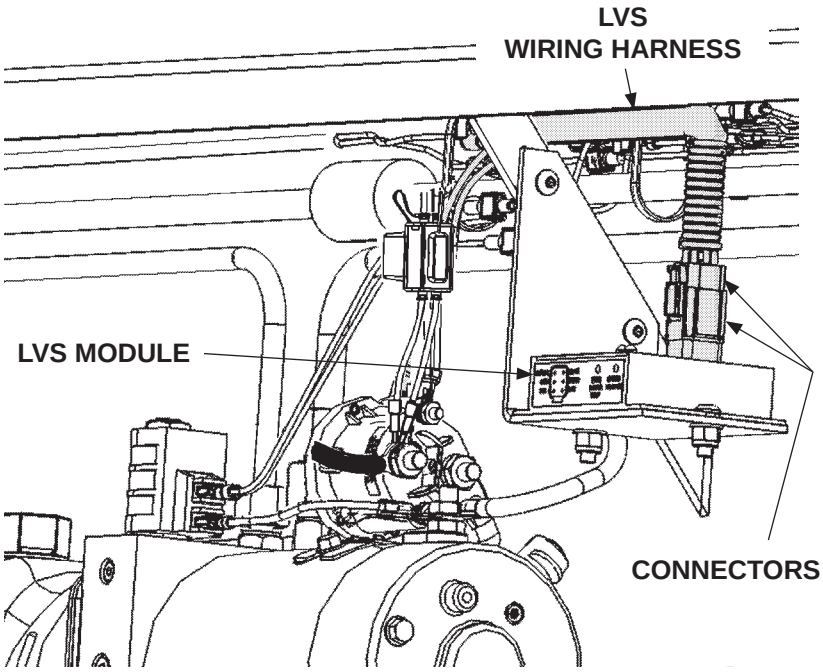
7. Place LVS module (Kit item) in position on bracket **(FIG. 4-2)**.



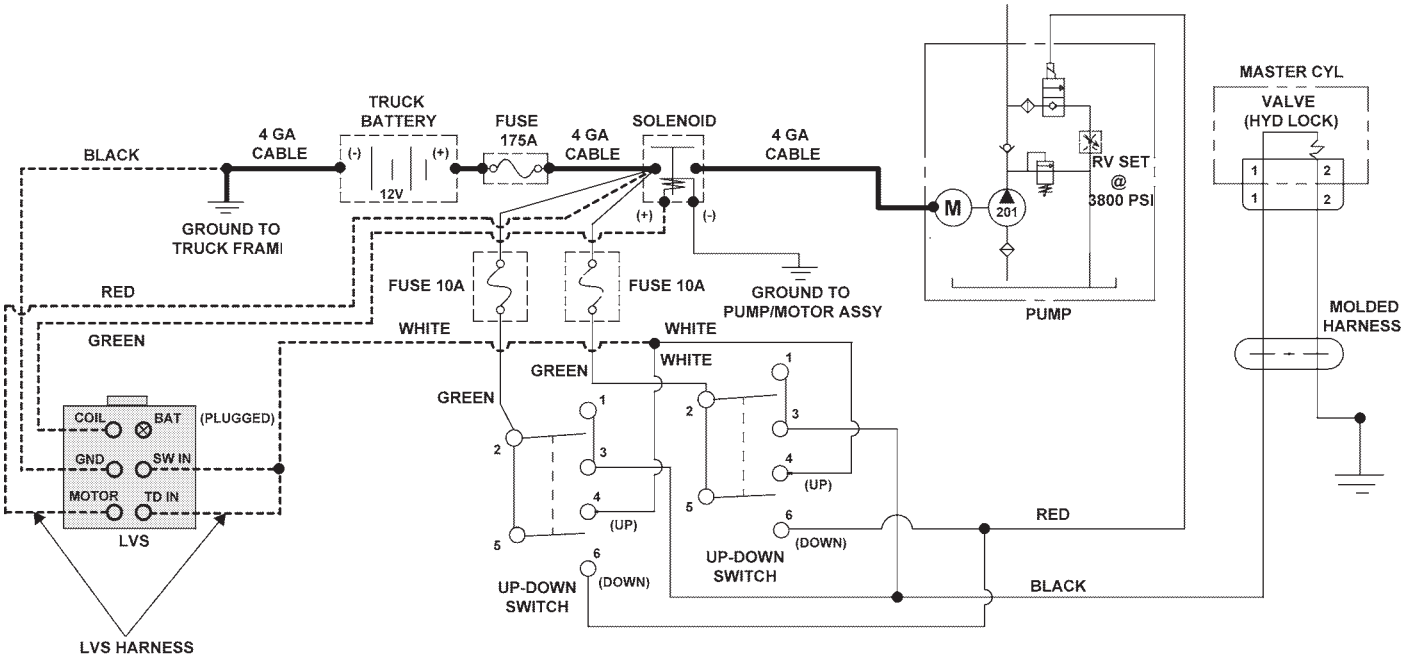
BOLTING LVS MODULE TO BRACKET
FIG. 4-2

8. Bolt the LVS module to bracket **(FIG. 4-2)**. Tighten screws, flat washers, and lock nuts (Kit items) securely, but do not over-tighten.

9. Connect LVS wiring harness (Kit item) to connector on LVS module as shown in **FIG. 5-1**.

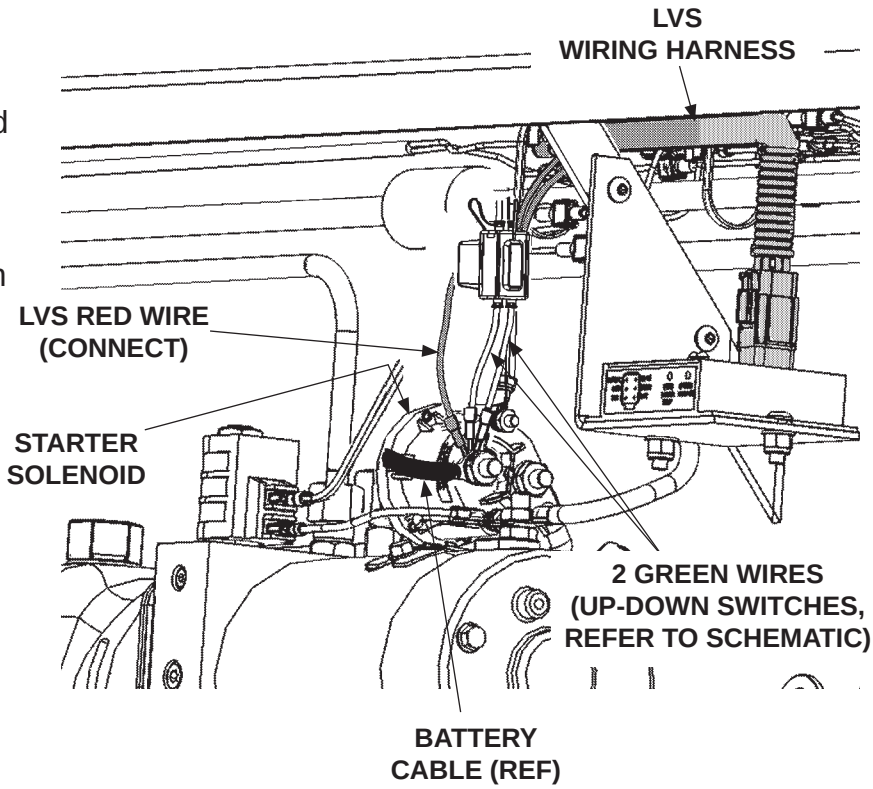


CONNECTING WIRING HARNESS TO LVS MODULE FIG. 5-1



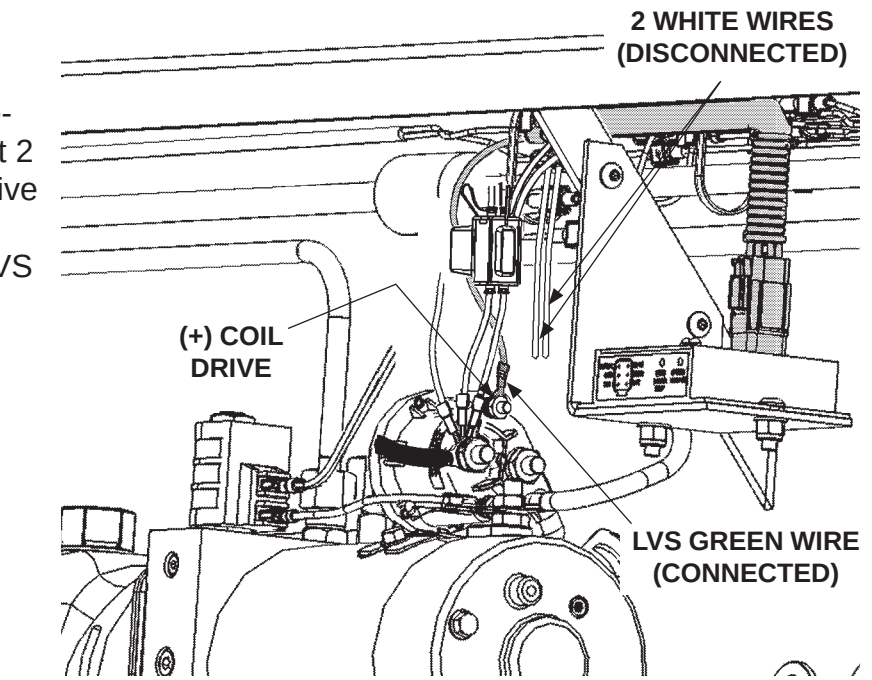
DMD ELECTRICAL SCHEMATIC WITH LVS MODULE & WIRING HARNESS FIG. 5-2

10. Remove hex nut and lock washer from battery cable terminal on starter solenoid **(FIG. 6-1)**. Then, connect red wire from LVS wiring harness to battery cable terminal **(FIG. 6-1)**. Tighten hex nut and lock washer securely.



CONNECTING RED LVS WIRE TO STARTER SOLENOID FIG. 6-1

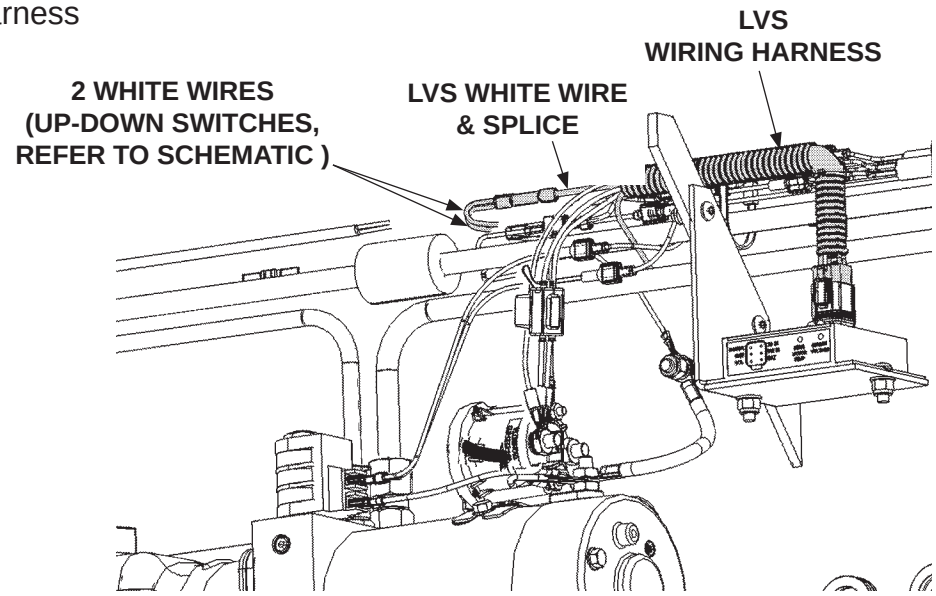
11. Remove hex nut and lock washer from **(+)** coil drive terminal on the starter solenoid **(FIG. 6-2)**. Disconnect 2 white wires from **(+)** coil drive terminal **(FIG. 6-2)**. Then, connect green wire from LVS wiring harness to **(+)** coil drive terminal **(FIG. 6-2)**



12. Cut ring terminals from 2 white wires disconnected in step 10 **(FIG. 6-2)**. Discard the ring terminals.

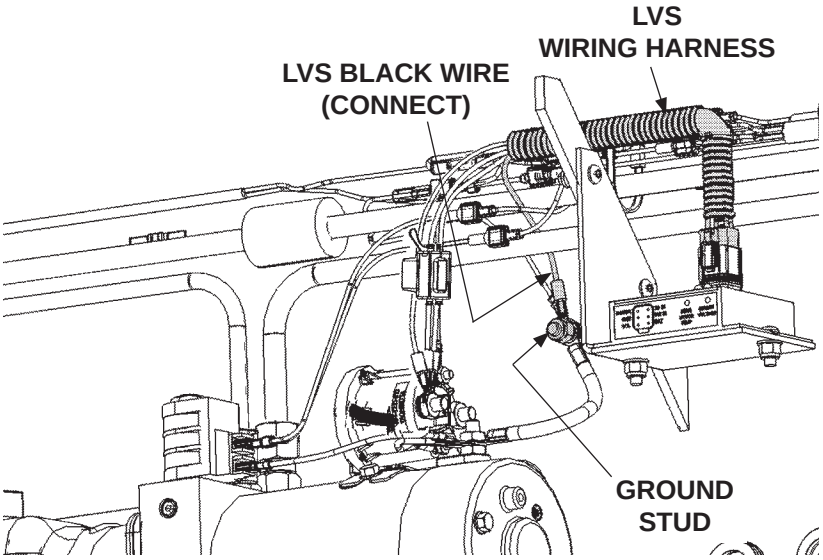
CONNECTING LVS GREEN WIRE TO STARTER SOLENOID FIG. 6-2

13. Splice 2 white wires, disconnected in step 10, to white wire on LVS wiring harness **(FIG. 7-1)**.



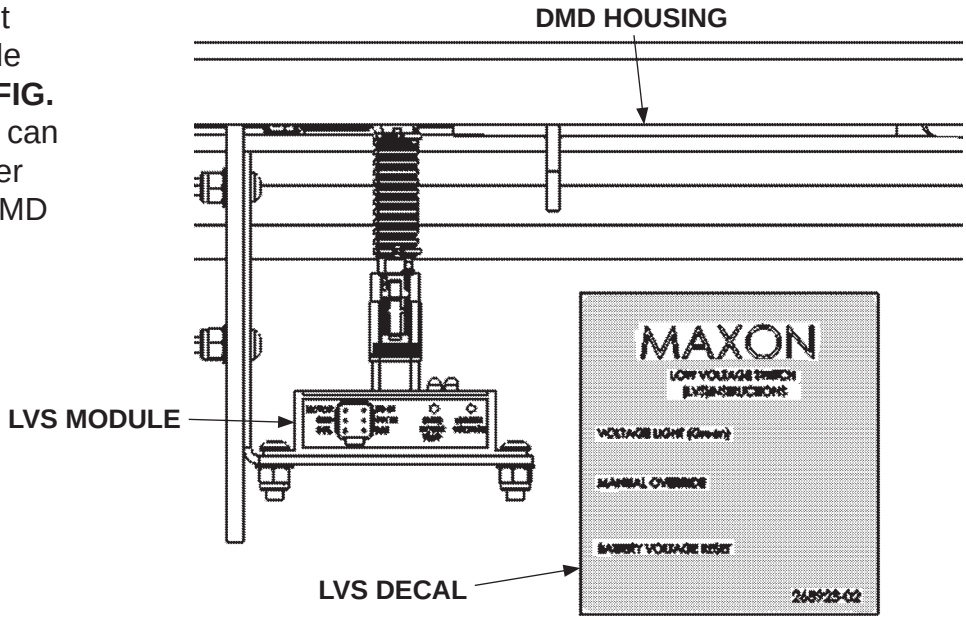
SPLICING DISCONNECTED WHITE WIRES TO LVS WHITE WIRE
FIG. 7-1

14. Remove hex nut and lock washer from ground stud on the Liftgate housing **(FIG. 7-2)**. Connect black wire from LVS wiring harness to ground stud on the Liftgate housing **(FIG. 7-2)**.



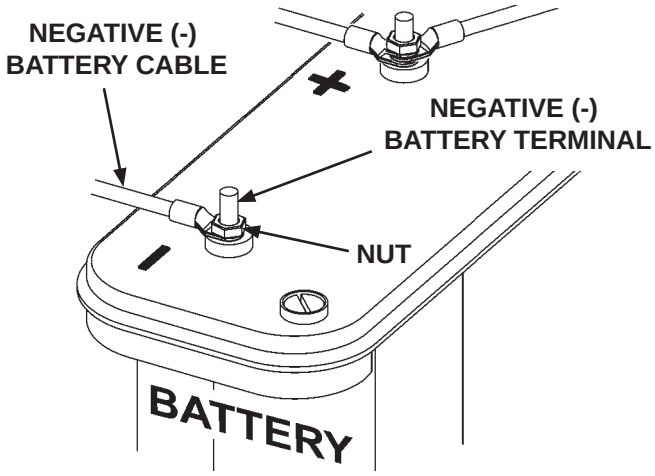
CONNECTING LVS BLACK WIRE TO GROUND STUD
FIG. 7-2

15. Stick LVS decal (Kit item) on back inside wall, next to LVS **(FIG. 8-1)**. Ensure decal can be seen when cover is removed from DMD housing.



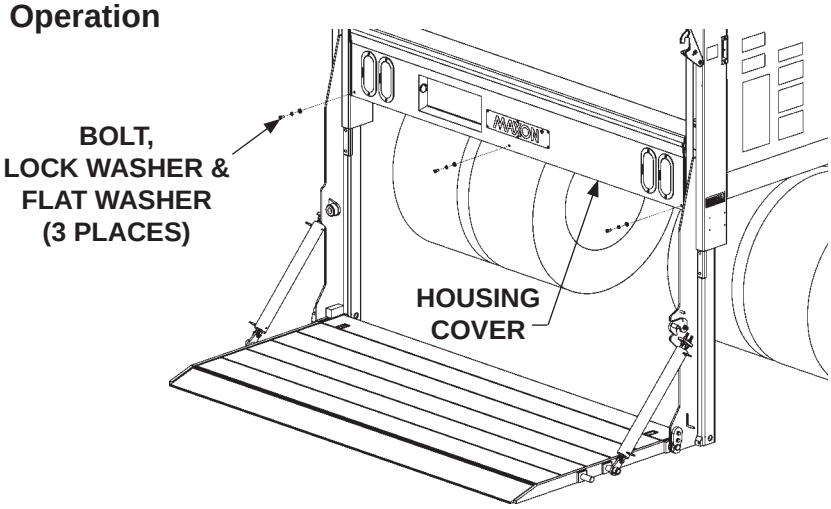
STICKING DECAL IN DMD HOUSING
FIG. 8-1

16. Remove nut from negative **(-)** battery terminal. Reconnect the negative **(-)** battery cable to negative **(-)** battery terminal **(FIG. 8-2)**. Reinstall and tighten nut.



RECONNECTING POWER
FIG. 8-2

17. Raise and lower platform to ensure Liftgate operates correctly. Refer to DMD **OPERATING INSTRUCTIONS** decal on vehicle and **DMD Operation Manua**l.



BOLTING COVER ON HOUSING
FIG. 9-1

18. Bolt on the main housing cover as shown in **FIG. 9-1**. Torque the 5/16”-18 cover bolts from **10 to 14 lb-ft**.