



## Mahindra Max 26XLT Cab with Heater (p/n: 1MA26XLTCA) fits tractor models: Max 26XLT

*While this cab kit was designed to fit on the vehicle(s) listed above, manufacturing tolerances and vehicle assembly may affect cab fitment. It is the responsibility of the cab installer to check all vehicle pedals and levers for full functionality and, as required, adjust the cab fitment to prevent any interference of the cab components with the travel of pedals or levers.*

Shown with front windshield wiper  
(comes standard with cab)



### Available Options:

1. Front LED Work Lights (P/N: 9LEDW4)
2. Rear LED Work Lights (P/N: 9LEDW3)
3. Strobe Light (P/N: 9LEDS2)
4. Dome Light (P/N: 9LEDD14)
5. Side View Mirrors (P/N: 9PM5)
6. Rear View Mirror (P/N: 9PM3)
7. Rear Wiper (P/N: 9PWK8512F9-11A)
8. Seal Kit (P/N: 9SK6)
9. Backhoe Compatible Kit (P/N: 1MA26XLTBK)

### Approximate Installation Time \*

Experienced Dealer Technician – 3.5 Hours
Average Dealer Technician – 4.5 Hours
Do-It-Yourself – 5.5 Hours

(\* = Not including accessories)

### Approximate Product Specifications

Floorboard to Roof Height: 63.625 inches
Weight: 315 lbs.
Cab Width: 44.75 inches

The contents of this envelope are the property of the owner. Leave with the owner when installation is complete.

Rev. C, 11/27/2019

P/N: IM-1MA26XLTCA

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## WARNINGS, TIPS, & REQUIRED TOOLS

*Curtis cabs feature an assembly of parts designed for your vehicle which require adjustment and alignment of components to accommodate vehicle variations and provide proper weather protection. For accurate installation, proper operation, and years of satisfaction, please read and understand the installation and owner's manual fully prior to installing the cab.*

*From all of us at Curtis, we thank you for choosing our product.*

**NOTICE**

**Curtis Cabs, blades and general accessories add additional weight to the base vehicle. All Curtis accessory weights are listed in product brochures. Deduct the accessory's total weight from the vehicle's rated capacity and never exceed the vehicle's rated capacity including driver and passenger.**

**WARNING**

**Exposure to Carbon Monoxide can Cause illness, serious injury or death.** Never operate vehicle if suspicious of Carbon Monoxide. Inspect exhaust system for leaks monthly. Leaks can result from loose connections, corrosion, cracks or other damage to the exhaust manifold. If leaks are found, repair or replace exhaust system. Do not use vehicle until repair or replacement is complete.

**WARNING**

**Serious Injury or Death**

	This cab enclosure does not provide protection from rollover or other accidents.
	This cab enclosure does not provide protection from flying objects including golf balls.
	This cab enclosure does not provide protection from lightning. When lightning threatens take cover and do not operate vehicle.

**California Health and Safety Proposition 65 Warning:** This product may contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

## GENERAL INFORMATION BEFORE YOU START

### HELPFUL HINTS:

- Refer to parts diagram found in the service parts section of this manual to help identify parts during the assembly process.
- To assist with the cab installation, leave all fasteners loose for later adjustment unless otherwise specified.
- Read and understand all instructions before beginning.
- Apply a silicone sealant to seal any minor gaps that may occur due to vehicle variations.
- Use caution to avoid damaging the factory installed threaded inserts or weld nuts. Begin the thread engagement by hand to avoid or correct potential cross threading.
- Make sure the areas where the supplied self-adhesive hook Velcro and seals will be applied are clean, dry and at room temperature for best adhesion.
- Before installing parts with factory installed rubber, make sure the rubber is fully installed onto the parts for proper fit and sealing.

### TOOLS REQUIRED:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Set of Standard and Metric Sockets (3/8" Drive)</li> <li>• 3/8" Drive Ratchet with Extension</li> <li>• Torque Wrench</li> <li>• Set of Standard and Metric Open-End Wrenches</li> <li>• Set of Standard and Metric Allen Wrenches</li> <li>• #2 and #3 Phillips Head Screwdrivers</li> <li>• Flat Head Screw Driver</li> <li>• Body Clip Removal Tool</li> <li>• Pliers</li> <li>• Non-Marring Pick</li> <li>• (2) Quick Grip Clamps</li> <li>• 5/16" Nut Driver</li> <li>• Coolant Drain Pan</li> </ul> | <ul style="list-style-type: none"> <li>• Drill/Driver</li> <li>• #2 and #3 Phillips Head Bit</li> <li>• Utility Knife</li> <li>• Pair of Scissors</li> <li>• Shears</li> <li>• Grease</li> <li>• Silicone Sealant</li> <li>• Teflon Tape</li> <li>• Tape Measure</li> <li>• China Marker or other Non-Permanent Marker</li> <li>• Snips</li> </ul> |
|--|--|

# CAB INSTALLATION

## STEP 1: (VEHICLE PREP)

- 1.1 Remove and position the loader away from the vehicle.
- 1.2 Remove and set aside the nut from the negative battery terminal and remove terminal from battery. Remove and set aside the nut from the positive battery terminal stud. See Figure 1.2.

### Tools required

10mm Socket  
12mm Wrench or Socket

- 1.3 Remove and set aside the ROPS mounted tool box and bracket along with its fasteners, if equipped.

### Tools required

12mm Wrench or Socket

- 1.4 Remove and set aside the SMV sign and its bracket which clamps around the ROPS tube or rear cross brace. See Figures 1.4a & 1.4b.

### Tools required

13mm Wrench and Socket

- 1.5 Remove and discard the (2) plastic keepers retaining the floorboard mat on either side of the vehicle. See Figure 1.5.

### Tools required

Body Clip Removal Tool and Pliers

- 1.6 Remove and set aside the (2) outboard ROPS fasteners on either side of the vehicle as shown in Figure 1.6.

### Tools required

17mm Wrench or Socket

- 1.7 Remove and set aside the loader valve bracket fasteners. Temporarily position loader valve and bracket out of the way as shown in Figure 1.7.

### Tools required

17mm Wrench and Socket



Fig. 1.2 (Battery Terminals)



Fig. 1.4a & 1.4b (SMV Sign Bracket)

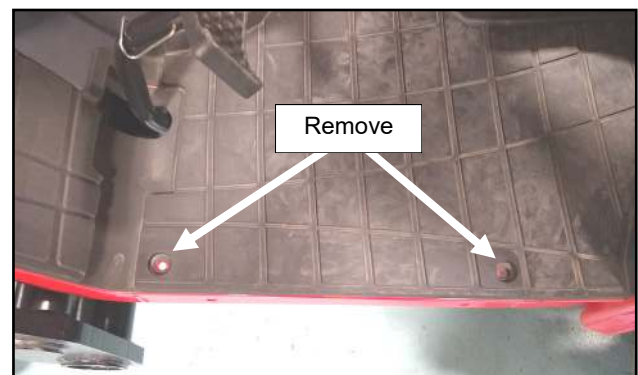


Fig. 1.5 (Floorboard Mat Keepers)



Fig. 1.7 (Loader Valve & Bracket)



Fig. 1.6 (Outboard ROPS Fasteners)



# CAB INSTALLATION

## STEP 1: (VEHICLE PREP CONTINUED)

- 1.8 Remove and set aside the (3) loader valve to bracket fasteners. Discard the loader valve bracket. See Figure 1.8.

### Tools required

(2) 13mm Wrenches

- 1.9 On some loader models, there is a bracket welded to the right side loader arm that will interfere with the cowl. This will need to be cut off as shown in Figure 1.9. Once cut, deburr and paint bare metal edges to prevent corrosion.

- 1.10 Disconnect the turn signal lead from the vehicle's harness. Remove and set aside the turn signals from the rear of the vehicle.

### Tools required

19mm Wrench

- 1.11 Slip the supplied 6" long piece of standard bulb onto the lower edge of the vehicle's cowl. Cut flush with front edge of floorboard. See Figure 1.11 (Left Side Shown).

### Tools required

Snips

- 1.12 Repeat step 1.11 on the right side of vehicle. Discard any left over standard bulb rubber.



Fig. 1.8 (Loader Valve Fasteners)

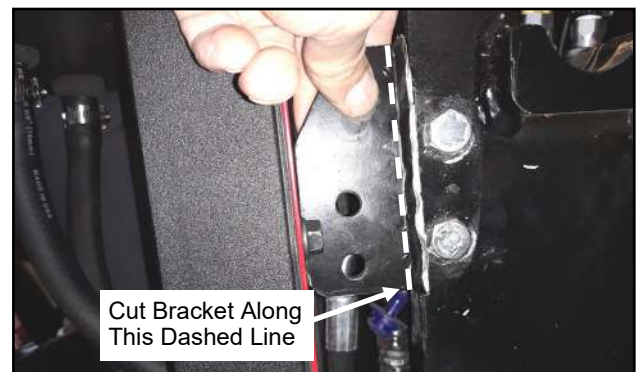


Fig. 1.9 (Cut Welded Loader Bracket)

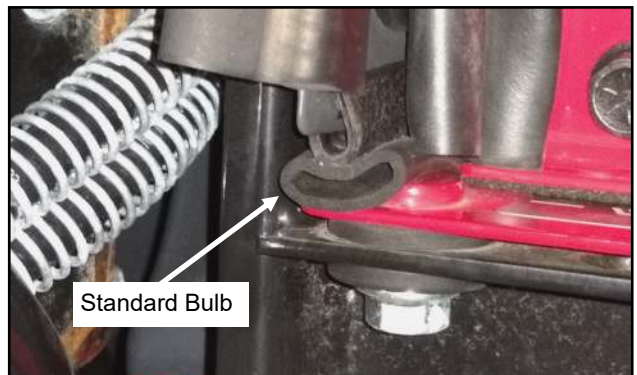


Fig. 1.11 (Standard Bulb's Orientation)

## STEP 2: (LOADER VALVE BRACKET)

- 2.1 Fasten the supplied loader valve bracket to the loader valve using the hardware that was removed during step 1.8. Fully tighten at this time.

### Tools required

13mm Wrench and Socket

- 2.2 Install the loader valve bracket to the vehicle with the hardware removed during step 1.7. See Figure 2.2. Fully tighten at this time.

### Tools required

17mm Wrench and Socket



Fig. 2.2 (Loader Valve Bracket Fasteners)

# CAB INSTALLATION

## STEP 3: (ROPS BRACKETS AND CLAMPS)

- 3.1 Measure up from the base of the ROPS Structure approximately 20". Make a mark using a china marker or other non-permanent marker. See Figure 3.1.
- 3.2 Install the left ROPS and clamp brackets aligning the lower edge with the mark previously made. See Figure 3.2 for orientation.

### Hardware Used

5/16-18 X 5/8" Hex Head Screw

### Qty

4

### Tools required

1/2" Wrench or Socket

- 3.3 Repeat steps 3.1 and 3.2 on the right side of the ROPS.



Fig. 3.1 (Mark ROPS)



Fig. 3.2 (ROPS Brackets)

## STEP 4: (REAR MOUNT BRACKETS)

- 4.1 Using the fasteners that were removed during step 1.6, install the rear mount bracket on the left side of vehicle with the small flange facing up. See Figure 4.1.

### Tools required

17mm Wrench or Socket

- 4.2 Repeat step 4.1 on the right side of the vehicle.

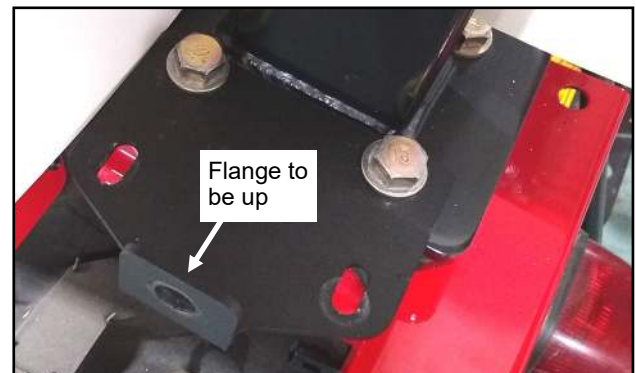


Fig. 4.1 (Rear Mount Bracket Orientation)

## STEP 5: (COWL)

- 5.1 Position the cowl on the vehicle just rearward of the hood and forward of the fuel cap as shown in Figure 5.1. The cowl rubber's flap should face forward toward the hood.
- 5.2 Remove the blue protective film from both cowl windows at this time.



Fig. 5.1 (Cowl)

# CAB INSTALLATION

## STEP 6: (SIDE FRAMES)

6.1 With assistance, remove the pre-assembled left door from the left side frame and set aside. Do not lose the brass washers on the hinge pins.

6.2 Fasten the left side frame to the vehicle's floorboard. See Figure 6.2.

### Hardware Used

	Qty
1/4-20 X 1-1/4 Socket Head Cap Screw	2
1/4-20 Hex Lock Nut	2
1/4" x 1" Flat Washer	2

### Tools Required

7/16" Wrench or Socket  
5/32" Allen Wrench

6.3 Fasten the side frame to the cowl as shown in Figure 6.3.

### Hardware Used

	Qty
5/16-18 X 3/4 Hex Head Screw	6
5/16-18 Hex Nut	4

### Tools required

1/2" Wrench and Socket

6.4 Repeat steps 6.1 thru 6.3 on the right side of the vehicle.

6.5 Make sure both side frames are pushed all the way forward, up against the vehicle's floorboard and tighten the front floorboard fastener on each side of the vehicle at this time.



Fig. 6.2 (Side Frame)

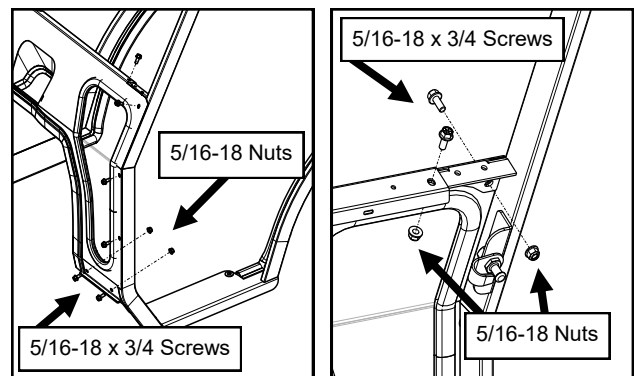


Fig. 6.3 (Side Frame to Cowl Fasteners)

## STEP 7: (WINDSHIELD SUPPORT)

7.1 With assistance, align sides and top of the windshield support with the side frames. Fasten the windshield support in place with a screw and lock nut through the front of each side frame. See Figure 7.1.

### Hardware Used

	Qty
1/4-20 X 3/4 Truss Head Screw	2
1/4-20 Hex Lock Nut	2

### Tools required

7/16" Wrench and Socket  
#3 Phillips Head Screwdriver

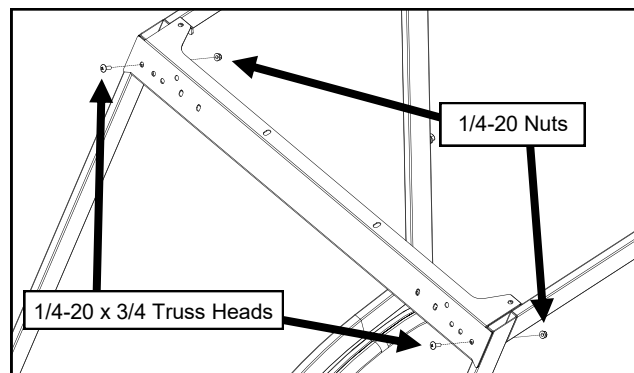


Fig. 7.1 (Windshield Support to Side Frame Fasteners)

## STEP 8: (REAR LEGS)

8.1 Install the left side rear leg to the back of the side frame using the (3) upper most holes as shown in Figure 8.1.

### Hardware Used

	Qty
5/16-18 X 3/4 Hex Head Screw	3

### Tools required

1/2" Wrench or Socket

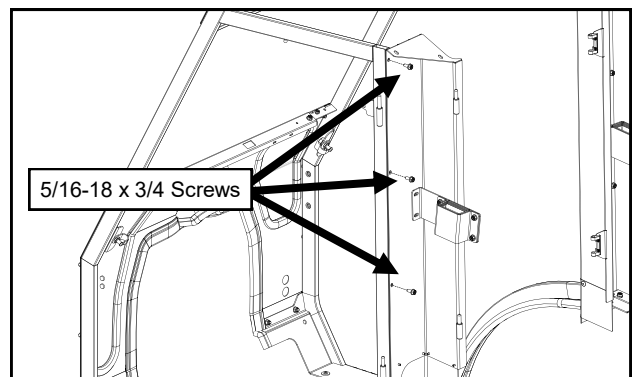


Fig. 8.1 (Rear Leg to Side Frame Fasteners)

# CAB INSTALLATION

## STEP 8: (REAR LEGS CONTINUED)

- 8.2 Fasten the rear leg to the previously installed ROPS brackets. See Figure 8.2.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 X 3/4 Hex Head Screw	2
5/16-18 Hex Lock Nut	2

Tools required  
1/2" Wrench and Socket

- 8.3 Repeat steps 8.1 and 8.2 on the right side of vehicle.

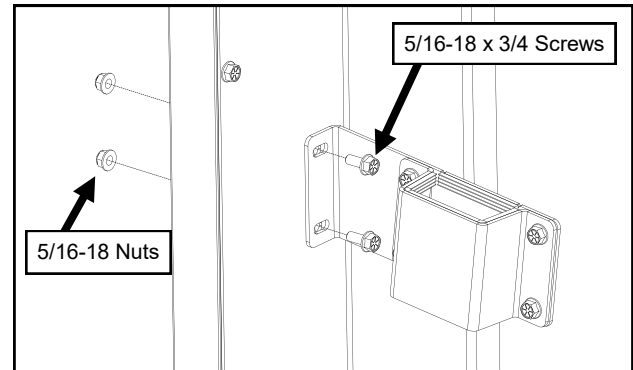


Fig. 8.2 (Rear Leg to ROPS Bracket Fasteners)

## STEP 9: (REAR MOUNTS)

- 9.1 Fasten the rear mount to the left side frame as shown in Figure 9.1.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 X 3/4 Hex Head Screw	1

Tools required  
1/2" Wrench

- 9.2 Secure the rear mount to the rear brackets as shown in Figure 9.2

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 X 3/4 Hex Head Screw	2
5/16-18 Hex Nut	2

- 9.3 Repeat steps 9.1 and 9.2 on the right side of vehicle.

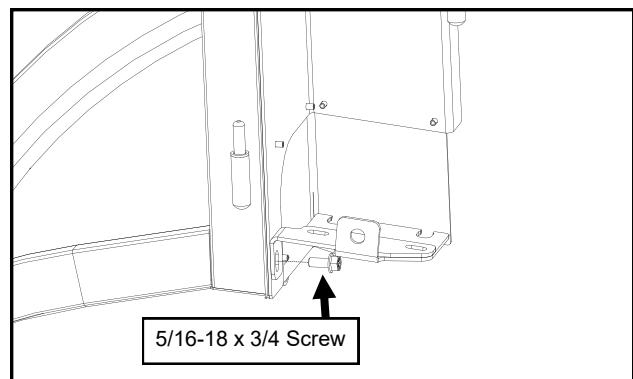


Fig. 9.1 (Rear Mount to Side Frame Fastener)

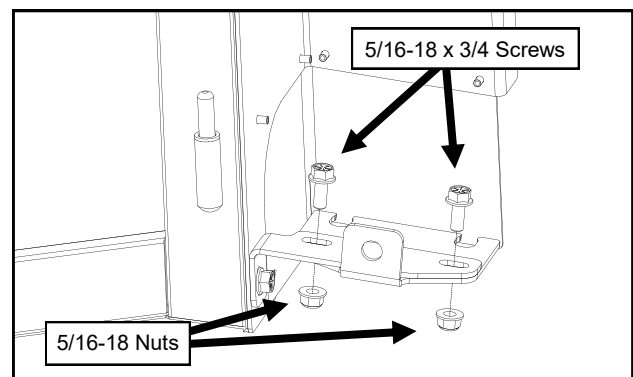


Fig. 9.2 (Rear Mount to Rear Bracket Fasteners)

## STEP 10: (LOWER REAR PANEL)

- 10.1 Fasten the lower rear panel to the rear legs as shown in Figure 10.1.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 X 3/4 Hex Head Screw	2
5/16-18 Hex Nut	2

Tools required  
1/2" Wrench and Socket

- 10.2 Secure the lower rear panel to the vehicle using the fasteners shown in Figure 10.1

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 X 3/4 Hex Head Screw	2
5/16" x 1" Fender Washer	2
5/16-18 Hex Nut	2

Tools required  
1/2" Wrench and Socket

Note: On backhoe equipped vehicles, the lower rear panel will need to be removed to operate the backhoe. It is up to the discretion of the operator whether or not to reinstall.

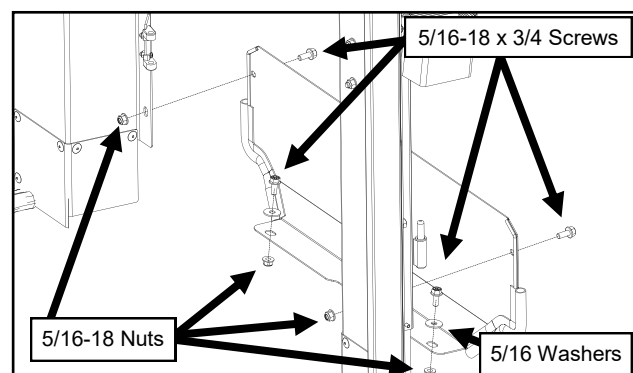


Fig. 10.1 (Lower Rear Panel Fasteners)



# CAB INSTALLATION

## STEP 11: (CAB WIRING)

- 11.1 Attach the main power wire harness to the top of the cowl, about 6" from the end of the windshield wiper motor connector, using a P-clip and hardware. The connector end should be outside the cab with the rest of the harness on the inside. See Figure 11.1.

### Hardware Used

#10-32 x 1/2" Pan Head Screw	Qty 1
#10-32 Hex lock Nut	1

### Tools required

#2 Phillips Screw Driver  
3/8" Wrench or Socket.

- 11.2 Snap in the heater switch and connect the wire harness.
- 11.3 Secure the harness to the under side of the cowl with (2) wire ties. See Figure 11.1.
- 11.4 Run the wire harness over to and down the right side frame through the 1/2" hole in the floorboard. Secure it in (2) places along the side frame using P-clips and self-drilling screws. See Figure 11.4.

### Hardware Used

#10 x 3/4" Pan Head Self-Drill Screw	Qty 2
--------------------------------------	----------

### Tools required

#2 Phillips Bit  
Drill/driver

- 11.5 Run the harness to the battery compartment as shown in Figure 11.5 making sure that wires will not be cut or pinched passing by the radiator.
- 11.6 Locate the fuse harness (WH-GF). Make certain the fuse is installed in the fuse holder. Connect the fuse harness to the main power harness via the bullet connectors. Install the ring terminal found on the fuse harness to the positive battery terminal stud and secure using the nut which was removed in step 1.2. See Figure 11.6.
- 11.7 Install the ring terminal of the main power wire harness to the negative battery terminal and loosely secure with the nut which was removed in step 1.2. **Do not reinstall the negative battery terminal at this time.** Coil the slack in the power harness and secure with a wire tie. See Figure 11.6. Double check that the wires are not pinched or near sharp or hot surfaces.

NOTE: At the installer's discretion, wiring for accessories may also be installed into the engine compartment at this time.

- 11.8 Secure wires (with wire ties provided) away from any hot or moving engine components where it could melt or be pinched.



Fig. 11.1 (Attach Main Harness To Cowl)

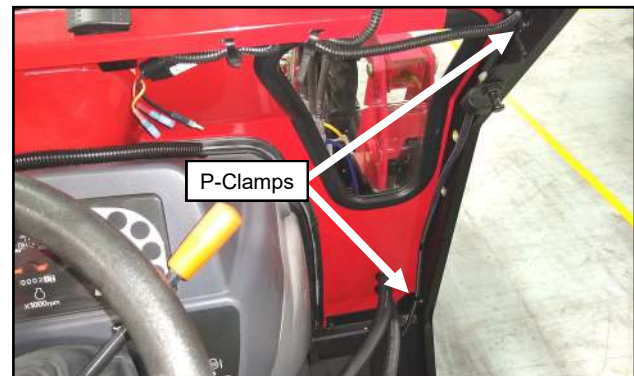


Fig. 11.4 (Secure Harness to Side Frame)

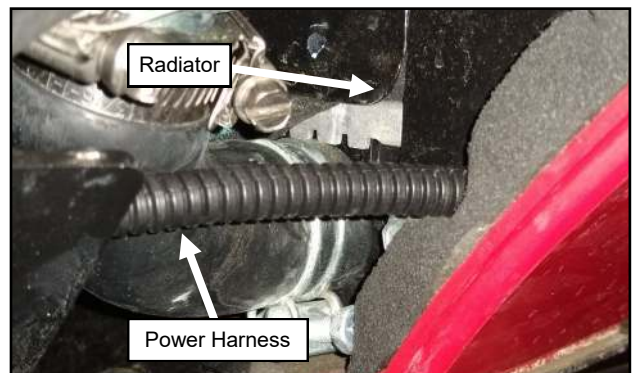


Fig. 11.5 (Harness Routing)



Fig. 11.6 (Power Supply Connections)

# CAB INSTALLATION

## STEP 12: (WINDSHIELD)

- 12.1** With assistance, set the windshield up to the side frames and secure it to the windshield support using the hinge spacers and hardware. See Figure 12.1. Leave hardware loose.

### Hardware Used

5/16-18 x 1.5" Flat Head Screw	Qty 4
5/16-18 Hex Lock Nut	4

### Tools required

#3 Phillips screw driver  
1/2" Wrench or Socket.

- 12.2** Secure the windshield latches to the side frames with the latches open, and tighten latch hardware. See Figure 12.2.

### Hardware Used

1/4-20 x 5/8" Hex Head Screw	Qty 4
1/4-20 Hex Lock Nut	4

### Tools required

3/8" Wrench or Socket  
7/16" Wrench or Socket

- 12.3** Close the windshield while lifting up on the bottom edge. Tighten hinge hardware.

**Caution: The windshield hinges are plastic components. Do not overtighten the flat head screws. Torque to 7 ft.-lbs. max.**

- 12.4** Ensure the windshield latches function properly and the windshield pivots open.

- 12.5** Remove the over tightening caution decal from the top of the windshield.

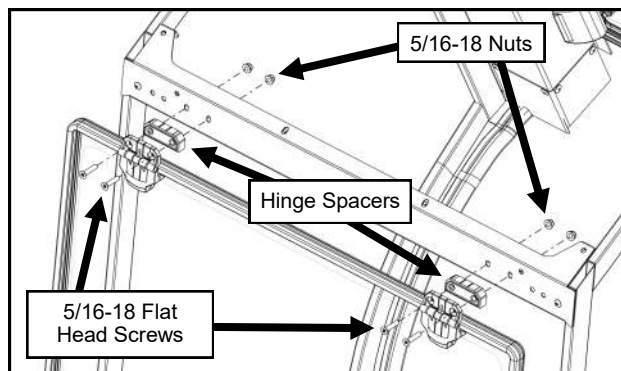


Fig. 12.1 (Windshield)

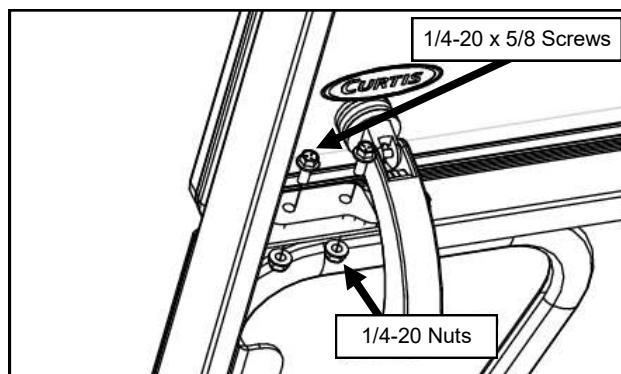


Fig. 12.2 (Secure Windshield Latches)

## STEP 13: (WINDSHIELD WIPER MOTOR)

- 13.1** Mount the wiper motor to the windshield. See Figure 13.1. Make sure the wires are above the wiper motor shaft to prevent pinching the wires when the windshield is opened and closed, then connect to the wire harness.

**NOTE:** Do not install the wiper arm and blade at this time. Once all the wiring is complete and power is restored, it can be turned on and off to ensure that the wiper arm will be parked in the correct position once it is attached at a later step.

- 13.2** Re-check the windshield pop-out function. The wiper motor should easily clear the cowl, but if not, loosen the windshield hinges and raise the windshield to gain some clearance.

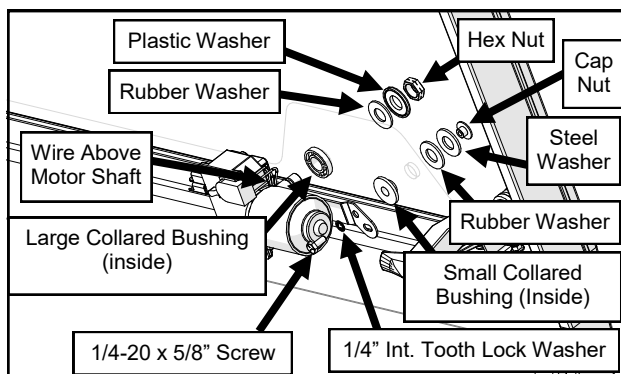


Fig. 13.1 (Windshield Wiper Motor)

# CAB INSTALLATION

## STEP 14: (ROOF)

**NOTE:** If vehicle is equipped with a backhoe, skip this step and proceed with installing the *Backhoe Compatible Kit (P/N: 1MA26XLTBK)*.

- 14.1** Prep the roof for installation by removing the (4) rubber plugs along the front of the roof and the (4) rubber plugs at the rear of the roof as shown in Figure 14.1.

### Tools required

Non-Marring Pick

- 14.2** Pierce the headliner in (8) places where the rubber plugs were previously removed. Use a screwdriver to poke holes through the headliner from the headliner side up through the hole in the roof to avoid having the headliner pull away from its glued surface.
- 14.3** With assistance, set the roof on top of the cab. Loosely secure with fender washers and rubber washers on the (8) screws through the top of the roof into the windshield support and rear legs. See Figure 14.3.

### Hardware Used

	<u>Qty</u>
5/16-18 x 1" Hex Head Screw	8
5/16" x 1.25" Fender Washer	8
5/16" x 1.25" Rubber Washer	8
5/16-18 Hex Nut	8

### Tools required

1/2" Wrenches and/or Sockets

- 14.4** Once all roof fasteners are started, measure the width of the rear legs (outside to outside). Adjust the width if needed to 27-7/8". Measure opening corner to corner for squareness and clamp the rear flange of the roof to each of the rear legs. See Figures 14.4a & 14.4b.

**Note:** Leave the clamps in place until all cab fasteners are tightened during the following steps.

### Tools required

(2) Quick Grip Clamps  
Tape Measure

## STEP 15: (TIGHTEN HARDWARE)

- 15.1** Tighten all hardware at this time, using the torque values found on the last (2) pages of this manual.

**Note:** Prior to tightening any fasteners, align the lower edge of the rear legs to the top edge of the bulb rubber found on the lower rear panel.

**Note:** Each side frame can be pushed inward at the back to close any gaps along the fender contour before tightening hardware.

**Note:** Suggested tightening sequence is as follows:  
Floorboards, cowl, rear mounts, rear legs, lower rear panel, roof and ROPS brackets.

- 15.2** Once all hardware is fully tightened, remove the (2) quick grip clamps from the roof/rear legs.

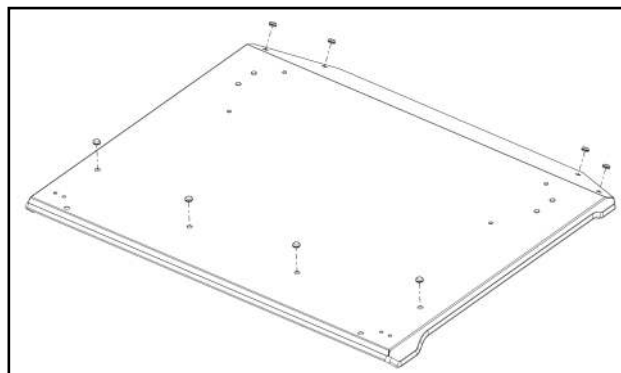


Fig. 14.1 (Roof Preparation)

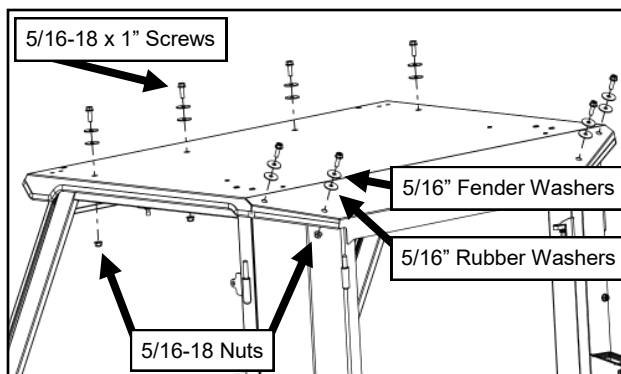


Fig. 14.3 (Roof Fasteners)

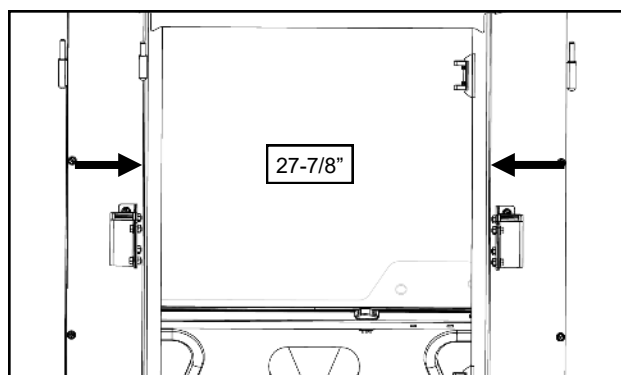


Fig. 14.4a (Squaring of Rear Legs and Roof)

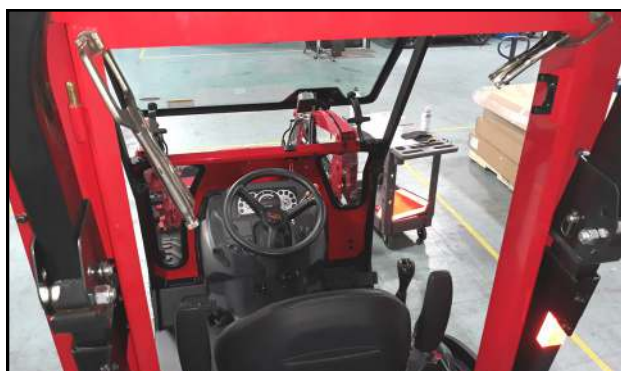


Fig. 14.4b (Clamping of Rear Legs and Roof)



# CAB INSTALLATION

## STEP 16: (REAR WINDOW)

**16.1** Grease the hinge pins found on the left side rear leg and slide on greased brass washers (one washer per pin). See Figure 16.1.

**16.2** Hang the rear window on the hinges.

Note: Loosen rear window hinges if adjustment is needed.

**16.3** Connect the window latches to the right rear leg by depressing the tabs on the latch and inserting into the receivers mounted on the rear leg. Close and check the alignment of the window. If off, check measurements and re-align the rear legs. Tighten the hinge hardware to 7 ft.-lbs. Verify smooth operation of the latches.

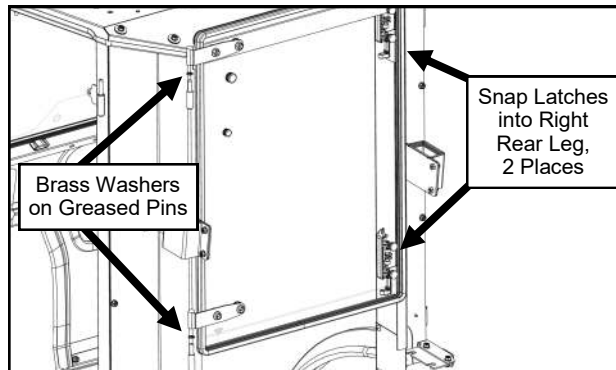


Fig. 16.1 (Hang Rear Window)

## STEP 17: (HEATER)

**17.1** Attach the heater bracket to the right side frame. See Figure 17.1. Fully tighten hardware at this time.

### Hardware Used

5/16-18 x 3/4" Hex Head Screw

### Qty

2

### Tools required

1/2" Socket with Extension

**17.2** Attach the heater to the heater bracket by removing and re-using the screws on the side of the heater. Tighten hardware.

### Tools needed

#2 Phillips Screw driver.

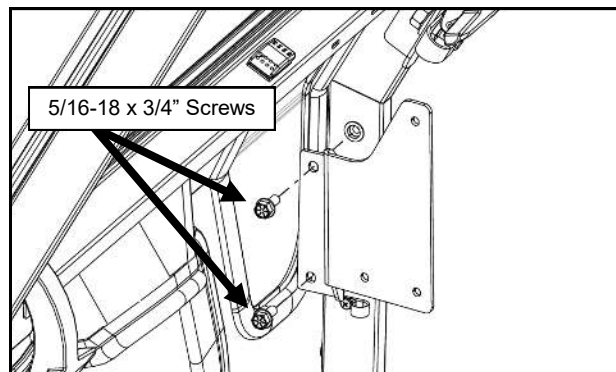


Fig. 17.1 (Install Heater Bracket to Side Frame)

## STEP 18: (HEATER PLUMBING)

**\* CAUTION \*** To avoid injury caused by hot engine coolant, make sure the engine has completely cooled down before beginning plumbing of auxiliary heater.

**18.1** Place a clean coolant drain pan under the lower radiator hose, cut the hose in the middle of the straight section as shown in Figure 18.1, and let the coolant drain into the pan.

**18.2** Slip one of the provided 3/4" snap bushings onto each end of the 5/8" diameter hose. Run the hoses from the engine compartment, behind the loader valve cables between the loader arm and loader valve hydraulic hoses, then thru the large holes found on the right side of the cowl. See Figure 18.2.

**18.3** Place the two 1.5" hose clamps on either side of the cut lower radiator hose and install the T-Fitting provided. See Figure 18.1.

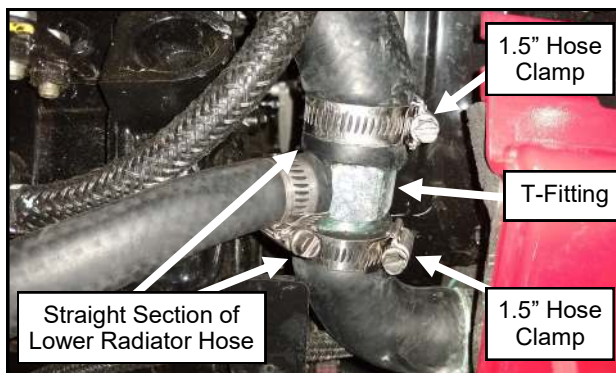


Fig. 18.1 (Lower Radiator Hose)

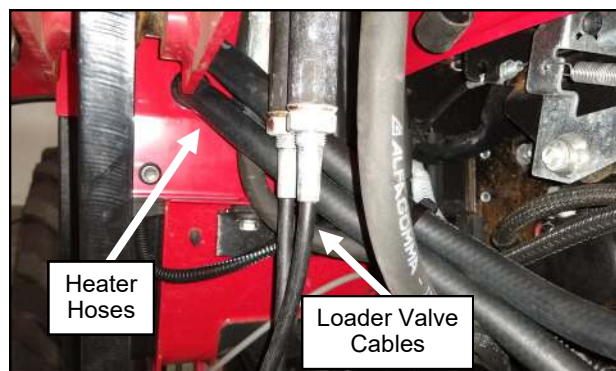


Fig. 18.2 (Heater Hose Routing)



## CAB INSTALLATION

### STEP 18: (HEATER PLUMBING CONTINUED)

- 18.4** Routing the hose to the inside of the cab, connect them to the nipples on the heater, and secure them with 1" hose clamps. Insert the 3/4" snap bushing into the cowl to protect heater hose from abrasion. See Figure 18.4.
- 18.5** Cut and connect a leg of 5/8" hose to the previously installed T-fitting. Make sure the heater hose is not too tight or kinked and secure in place away from the throttle linkage with the supplied ties. See Figure 18.1 on the previous page.
- 18.6** Remove the OEM plug and sealing washer from the left side of the thermostat housing. Install the OEM sealing washer onto the supplied hose barb nipple and tighten. See Figure 18.6.
- 18.7** Run the remaining leg of hose down and then over the front drive shaft along side the steel hydraulic line and continue up to the previously installed threaded hose barb nipple. Cut the hose to length at the hose barb and install it with a hose clamp. See Figures 18.6 and 18.7.
- 18.8** Cut the hose that was run to the hose barb which was installed in the thermostat housing and install the provided shut-off valve with two 1" hose clamps. The location is not critical, but ensure that the shut-off valve's handle clears the hood in the open and closed positions. See Figure 18.8.
- 18.9** Secure all heater hoses from moving parts and excessive heat sources with the supplied wire ties.

**Note:** Turn the wheels all the way to the right and left to ensure adequate clearance between the tires and hoses.



Figure 18.4 (Heater Connections)

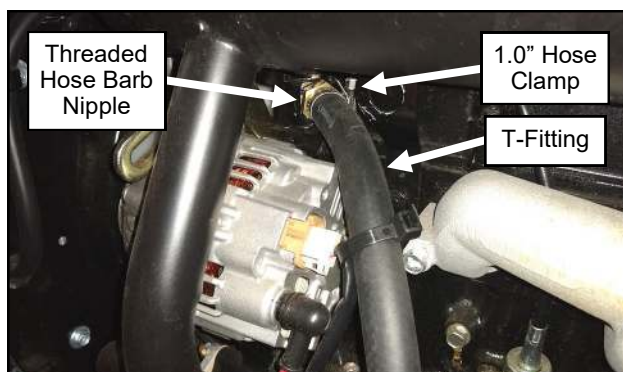


Figure 18.6 (Thermostat Tie In)

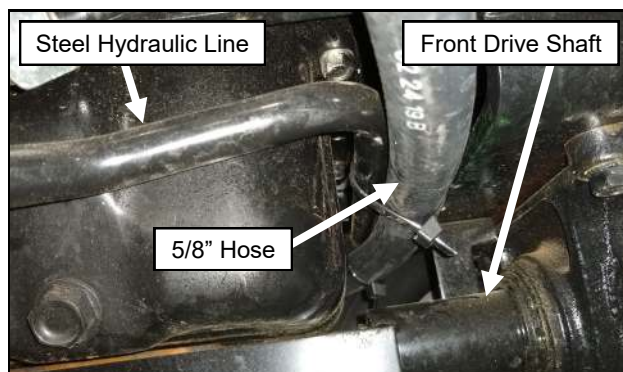


Figure 18.7 (Hose to Threaded Hose Barb Routing)



Figure 18.8 (Install Shut-Off Valve)

# CAB INSTALLATION

## STEP 19: (FINISH HEATER)

- 19.1 Connect the leads found on the heater to the main power wire harness (orange to orange, red to red & black to black). See Figure 19.1.
- 19.2 Install the provided 13" length of 1/2" wire loom to the heater leads.
- 19.3 Re-install the negative battery terminal to the battery.

### Tools required

10mm Socket

- 19.4 Refill the cooling system. Start the tractor and inspect coolant system for leaks.
- 19.5 With the tractor running, check the heater hoses and make sure they get warm. If not, remove the heater from its mount and let hang from the hoses as low as possible. If the heater and hoses still do not get warm, temporarily put a clamp on the upper radiator hose to force coolant through the heater. **Warning:** To avoid engine damage, remove the clamp as soon as heater gets warm. Reattach heater to the bracket. Once complete, let the engine cool, check the coolant level, and top off coolant if required.



Fig. 19.1 (Heater Power Connections)

## STEP 20: (FINISH WIPER)

- 20.1 Turn on the wiper motor briefly, then turn back off. This will ensure the motor shaft is in the correct parked position.
- 20.2 Pre-assemble the wiper arm and wiper blade.
- 20.3 Install the wiper arm onto the wiper motor so that the wiper is horizontal. See Figure 20.3. Tighten the Set Screws.

### Tools required

2.5mm Allen Wrench

- 20.4 Adjust the length of the wiper arm as long as possible while still clearing the outer cap nut for the windshield latches. Turn on the wiper to check proper operation. Reference step 5 of the wiper installation instructions.

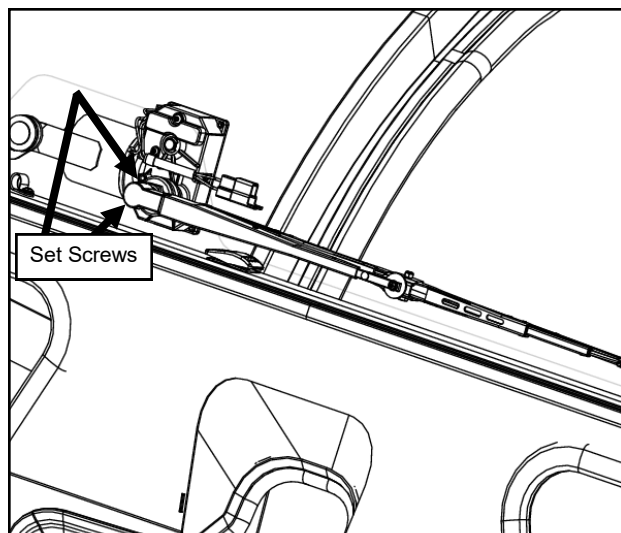


Fig. 20.3 (Wiper Arm and Blade)

## STEP 21: (REAR FLASHERS and SMV Sign)

**NOTE:** If the vehicle will be driven on the road, the rear flashers must be relocated to be visible from the front, and the OEM SMV sign must be relocated per the following.

- 21.1 Mount the left flasher to the new location on the rear bracket. See Figure 21.1.
- 21.2 Reconnect the harness to the flasher.
- 21.3 Secure the flasher's wiring harness as necessary to prevent any damage from moving parts.
- 21.4 Repeat steps 21.1 thru 21.3 on the right side.

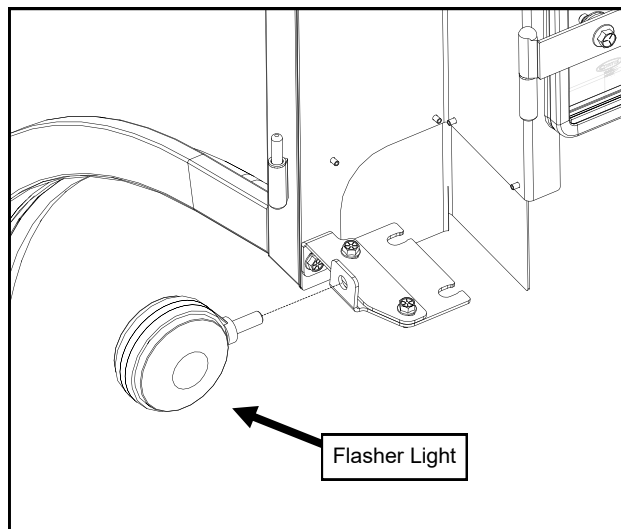


Fig. 21.1 (Relocated Rear Flashers)

# CAB INSTALLATION

## STEP 21: (REAR FLASHERS and SMV Sign CONTINUED)

Note: If the SMV sign was originally installed to the ROPS tube, proceed to step 21.5 and skip step 21.6. If the SMV sign was originally installed to the center of the vehicle's rear cross brace skip step 21.5 and proceed to step 21.6.

- 21.5** Re-install the OEM ROPS mounted SMV sign bracket that was removed in step 1.4. Ensure that when the SMV sign is installed on its bracket that the sign doesn't cover the flasher or interfere with the rear panel when open.

- 21.6** Install the provided SMV sign relocation bracket to the lower rear panel with the rubber strips face away from the panel as shown in Figure 21.6.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 x 3/4" Hex Head Screw	2
5/16-18 Hex Nut	2

Tools required  
1/2" Wrench and Socket

- 21.7** Install the SMV sign and the three link hanger onto the previously installed bracket as shown in Figure 21.7.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 x 3/4" Hex Head Screw	2
5/16-18 Hex Nut	2

Tools required  
1/2" Wrench and Socket

- 21.8** Fully tighten all SMV sign fasteners at this time.

## STEP 22: (Tool Box Relocation)

- 22.1** Secure the supplied tool box relocation bracket to the ROPS with the hardware that was removed during step 1.3. See Figure 22.1.

Tools required  
12mm Wrench or Socket

- 22.2** Fasten the OEM tool box and bracket to the previously installed relocation bracket as shown in Figure 22.2.

<u>Hardware Used</u>	<u>Qty</u>
5/16-18 x 1" Hex Head Screw	2
5/16-18 Hex Nut	2

Tools required  
1/2" Wrench and Socket

- 22.3** Fully tighten all tool box fasteners at this time.

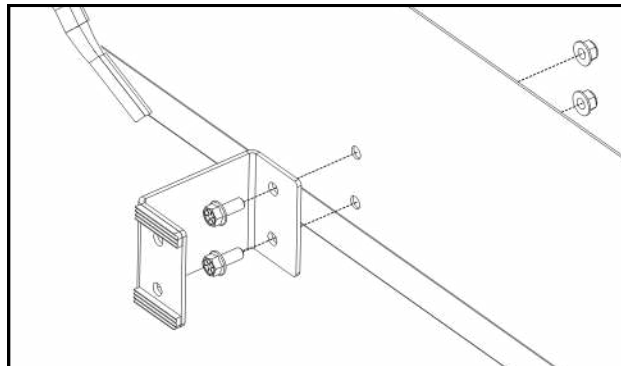


Figure 21.6 (SMV Sign Relocation Bracket)

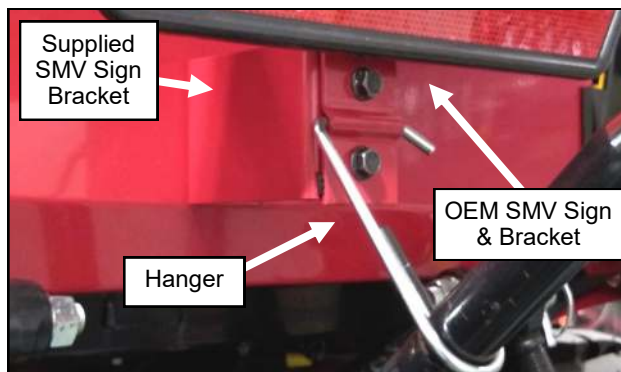


Figure 21.7 (SMV Sign and Link Hanger)



Figure 22.1 (Tool Box Relocation Bracket)



Figure 22.2 (Tool Box)



# CAB INSTALLATION

## STEP 23: (UNDER SEAT FILLER AND SEALING BULB)

**23.1** Install the provided 1" flat bulb on the left side of vehicle by inserting the bulb's grip at the top of the vertical portion of the under seat panel and push the bulb down toward the floor. Once all the way down, continue working the grip onto the horizontal part of the under seat panel filling the void between the vehicle's left fender and under seat panel as shown in Figure 23.1. Remove the grey plastic fender control cover if necessary.

**23.2** Cut the end of the 2.1" flat bulb at the same angle as the vehicle's sheet metal. Install the provided 2.1" flat bulb to the right side of vehicle by working the bulb's grip onto the under seat panel in a similar fashion as the previous step. See Figure 23.2.

**23.3** Pre-install the supplied Velcro to the under seat filler. Leave the release tape on until the filler is in place.

**23.4** Tip the seat forward and set the filler in place. The shorter of the two sides of the filler belongs on the left side of vehicle. Do not cover the information decals around the seat.

**23.5** The back of the filler goes across the top of the lower rear panel. There are sewn in corners on the filler that will nest into the flanges of either rear leg. See Figure 23.5.

Note: On backhoe equipped vehicles, the lower rear panel will need to be removed to operate the backhoe. It is up to the discretion of the operator whether or not to reinstall.

Note: When the lower rear panel is removed, the Velcro may be adhered across the bottom of the rear window to secure the back of the under seat filler.

**23.6** Follow the upper contour of plastic control covers and adhere. See Figures 23.6a and 23.6b.

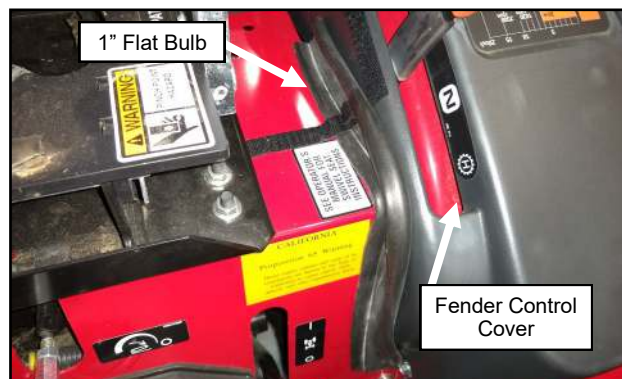


Fig. 23.1 (1" Flat Bulb Orientation)

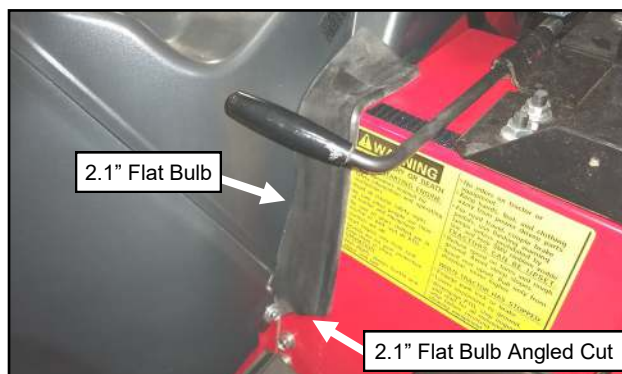


Fig. 23.2 (2.1" Flat Bulb Orientation)



Fig. 23.5 (Install Under Seat Filler - Rear)



Fig. 23.6a (Install Under Seat Filler - Left Side)



Fig. 23.6b (Install Under Seat Filler - Right Side)



# CAB INSTALLATION

## STEP 24: (DOORS)

**24.1** Check to make sure that the brass washers are still installed on the left side hinge pins and then apply grease to the pins.

**24.2** Hang the left door on the hinge pins.

Note: If necessary, adjust the door as outlined in steps 24.3 thru 24.5.

**24.3** Loosen the door hinges to allow for adjustment later. While lifting up and forward on the door handle, line up the door latch with the striker pin and carefully attempt to latch. You should be able to hear 2 clicks as you slowly engage the latch on the pin. If the latch is too far forward or back to latch on the pin, adjust as shown. See Figures 24.3a through 24.3c. Then retighten and latch.

**24.4** Stand back and examine the alignment of the door with the roof and the A-pillar. You can adjust this by moving the striker pin up or down as shown to help with alignment. *TIP: In the final step, the front of the door will drop a small amount the first time you open it. Set the front of the door a little bit higher so it aligns properly.* Adjust as necessary until you are happy with the alignment. Have an assistant sit inside the cab and once more carefully close the door like you did in step 24.3. Work with the assistant and tighten the hinge bracket bolts.

**24.5** Open the door and check for smooth operation of the latch. As noted in step 24.4, the door will likely drop a little bit at the front and the striker pin will need to be adjusted down accordingly. Also make sure the door seal is making contact along the perimeter of the door and the latch clicks twice when closing. If necessary, adjust the striker in or out to achieve this.

**24.6** With the door open, attach a gas strut to the ball studs on the side frame and door. Make sure the quick release end is on the side frame so that the gas strut stays with the door if removed for ventilation.

**24.7** Repeat steps 24.1 through 24.6 for the right door.

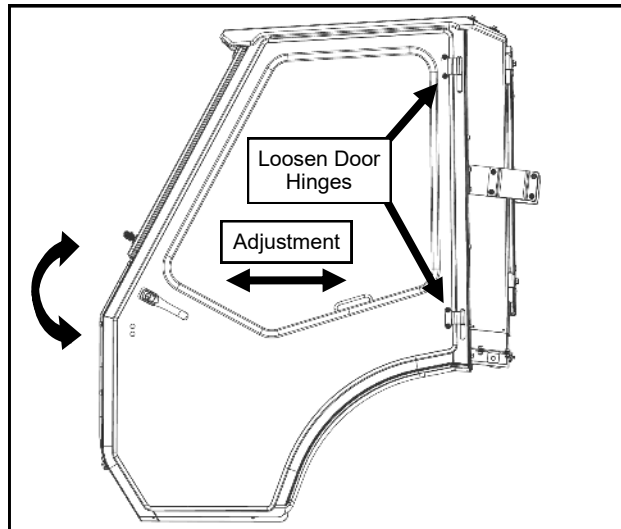


Fig. 24.3a (Door Hinge Adjustment)

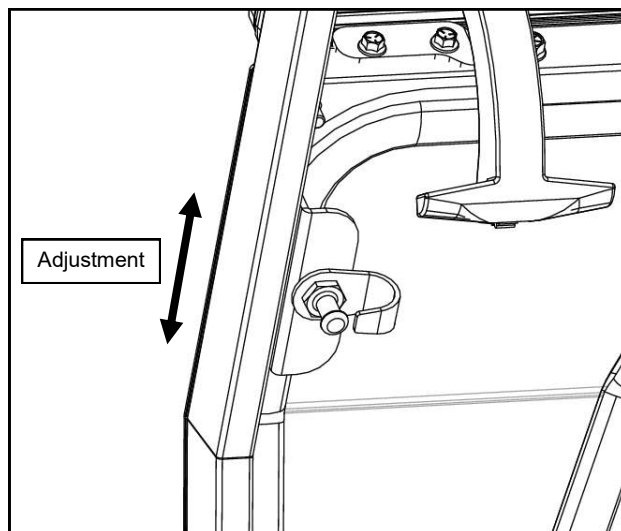


Fig. 24.3b (Striker Pin Adjustment)

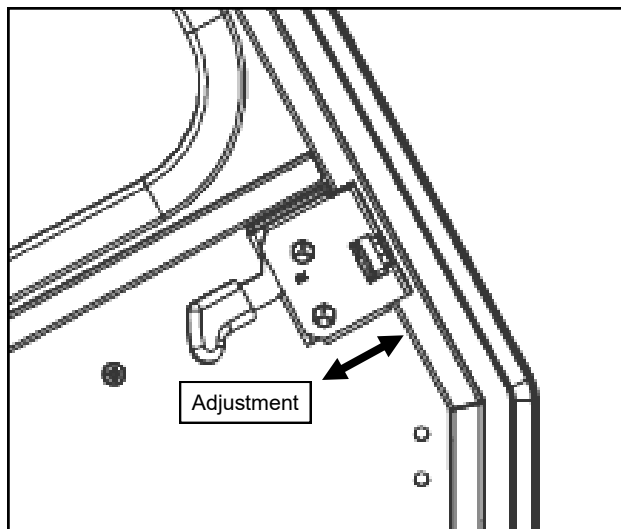


Fig. 24.3c (Door Latch Adjustment)

# CAB INSTALLATION

## STEP 25: (ACCESSORIES/PLUGS)

**25.1** If installing accessories, please do so now. If not, use the supplied plugs to fill any exposed holes. *The roof assembly has been hidden for clarity.* See Figures 25.1a, 25.1b and 25.1c.

### 25.2 Optional Rear Wiper Note:

For easier wiper motor harness disconnection, cut the main wiring harness connector off a few inches from the end and create a jumper harness with it using bullet connectors. **Do not cut the connector off the wiper motor.**

Strip all the wires, crimp a male bullet connector onto the ground (black) wire of the main wire harness and a female bullet connector on the positive (red) wire.

Reverse the male and female bullet connectors on the new jumper wire harness so that the male bullet connector is on the positive (red) wire and the female bullet connector is on the ground (black) wire.

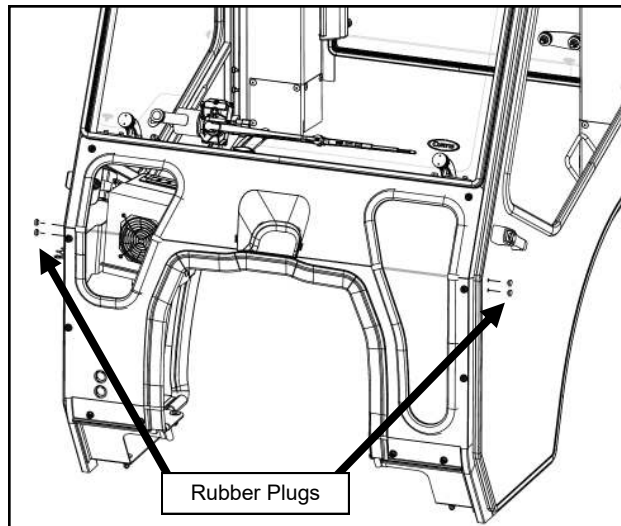


Fig. 25.1a (Install Plugs)

## STEP 26: (FINISHING TOUCHES)

**26.1** Due to the nature of the packaging materials used for shipping this product, the components of the cab system may have dust on their surfaces upon removal from the packaging. It is recommended that after completion of the cab installation, the cab and vehicle are washed thoroughly to eliminate any dust or contaminants. See the Care and Maintenance section at the back of this manual for critical information on cleaning the cab.

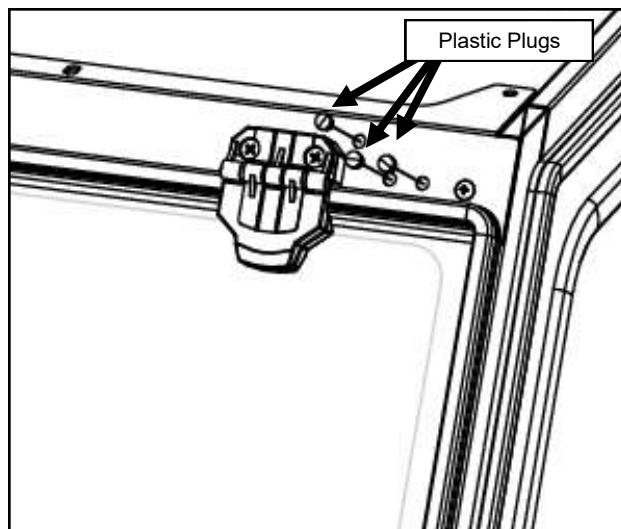


Fig. 25.1b (Install Plugs)

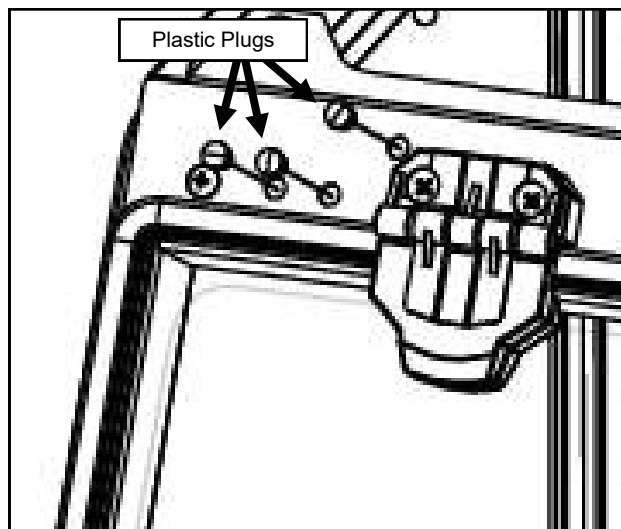
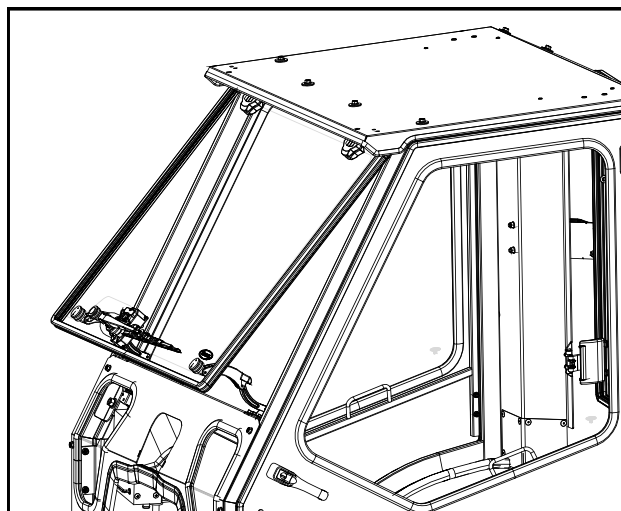


Fig. 25.1c (Install Plugs)

## CAB FEATURES & OPERATION

### POP-OUT WINDSHIELD

Your Max 26XLT cab comes equipped with a pop-out windshield for ventilation. To open the windshield, simply lift up on both of the pop-out latches and rotate until the latches rest in the over-center position.



Pop-Out Windshield

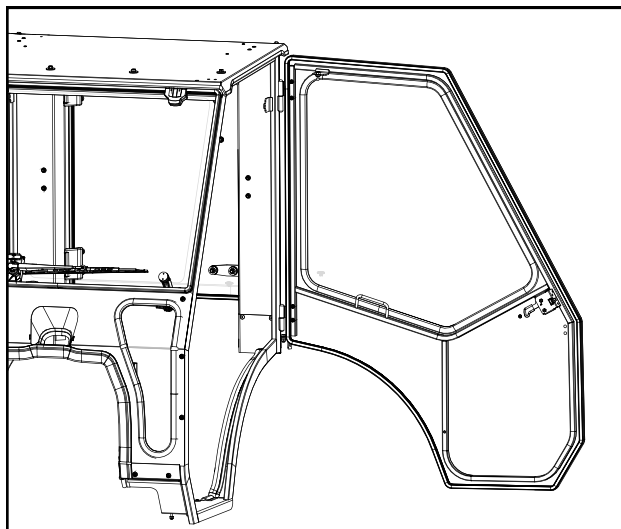
### LIFT-OFF DOORS

For added ventilation, the doors on the Max 26XLT cab lift off in seconds without tools.

To lift off:

1. Disconnect the gas strut from the side frame by sliding the quick release lever and pulling the strut down.
2. Rotate the doors 90° to the cab and lift. Also, remove the hinge washers and store in a plastic bag.

*Store the doors in a safe location to prevent damage.*



Lift-Off Doors

### REMOVABLE REAR WINDOW

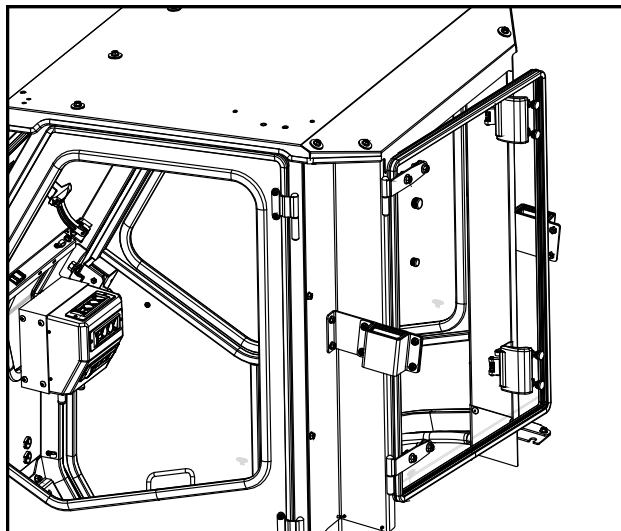
The rear window can also be removed for added ventilation.

To remove the rear window:

1. Open both window latches and disconnect from right rear leg with tabs on latch. Open the window taking care not to let the window open into the ROPS or damage may occur.
2. From outside of the cab, lift up on the rear window and slide off the hinges. Remove the hinge washers and store in a plastic bag.

*Store the rear window in a safe location to prevent damage.*

To reinstall the rear window, reinstall the hinge washers, align the hinges with the pins and drop into place. Re-attach the latches to the rear leg.



Venting/Removable Rear Window

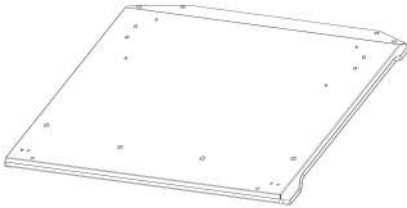
## CARE AND MAINTENANCE

- Re-apply lubrication (preferably grease) periodically as needed to the door striker pins, door latch assemblies, and the door hinges.
- Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- Wash the painted surfaces of the cab with commercial automotive cleaning products.
- Clean glass windows with glass cleaner. *Note: Some windows on the cab are acrylic. **DO NOT** clean acrylic windows with harsh chemicals. It will damage the plastic. Mild soap and water should be used on all acrylic windows.*
- Vinyl components should be washed with a mild solution of warm soapy water.



# MAHINDRA MAX 26XLT CAB SERVICE PARTS

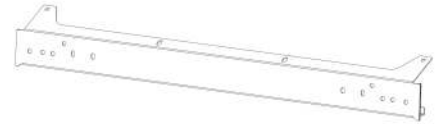
ROOF ASSEMBLY  
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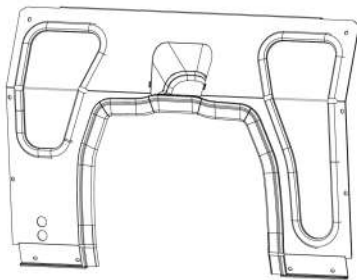
WINDSHIELD ASSEMBLY, 40" X 31.19"  
P/N: 8SV-102-00023



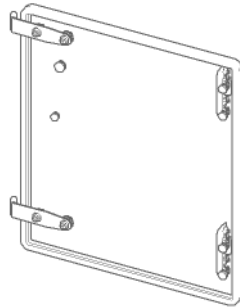
WINDSHIELD SUPPORT  
P/N: 8SV-103-00015



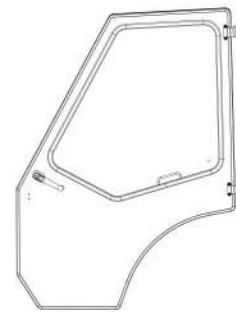
COWL ASSEMBLY  
P/N: 8SV-105-00022



GLASS REAR PANEL LIFT OFF  
P/N: 8SV-106-00021



DOOR ASSEMBLY, LEFT  
P/N: 8SV-107-00036-L



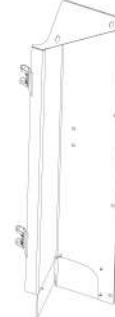
DOOR ASSEMBLY, RIGHT  
P/N: 8SV-107-00036-R



REAR LEG ASSEMBLY, LEFT  
P/N: 8SV-108-00019-L



REAR LEG ASSEMBLY, RIGHT  
P/N: 8SV-108-00019-R



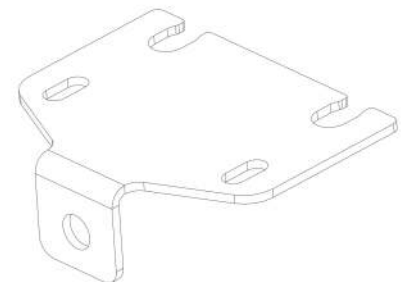
SIDE FRAME ASSEMBLY, LEFT  
P/N: 8SV-109-00016-L



SIDE FRAME ASSEMBLY, RIGHT  
P/N: 8SV-109-00016-R

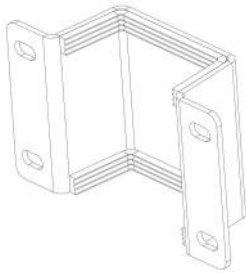


BRACKET, LOWER, REAR MOUNT  
P/N: 8SV-SM-01343



# MAHINDRA MAX 26XLT CAB SERVICE PARTS

ROPS CLAMP ASSEMBLY  
P/N: 8SV-110-00062



LEFT WINDOW COWL W/RUBBER  
P/N: 8SV-P-00102-L



RIGHT WINDOW COWL W/RUBBER  
P/N: 8SV-P-00102-R



DOOR WINDOW WITH RUBBER  
P/N: 8SV-9GL-00056



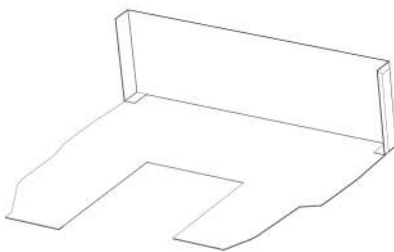
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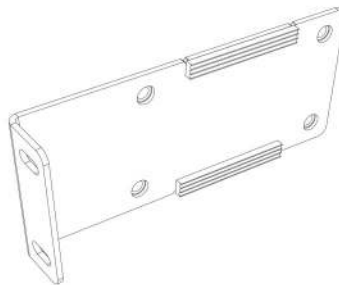
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P/N: 8SV-SM-01342-R



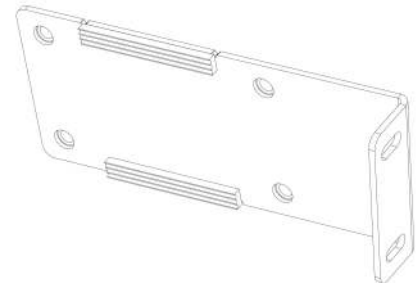
CURTAIN FILLER PACKAGE  
P/N: 8SV-CFP-00019



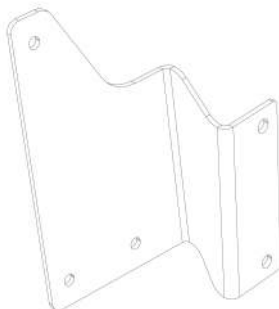
BRACKET, ROPS, ASSEMBLY, LEFT  
P/N: 8SV-110-00061-L



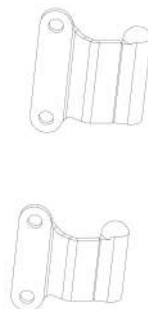
BRACKET, ROPS, ASSEMBLY, RIGHT  
P/N: 8SV-110-00061-R



HEATER BRACKET  
P/N: 8SV-SM-01306



HINGE KIT, TOP & BOT, LEFT  
P/N: 8SV-HKWTB-L

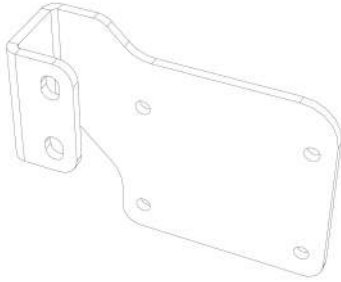


HINGE KIT, TOP & BOT, RIGHT  
P/N: 8SV-HKWTB-R

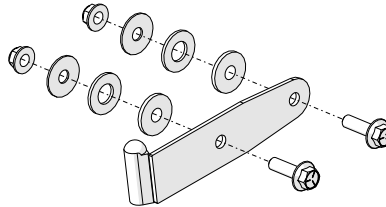


## MAHINDRA MAX 26XLT CAB SERVICE PARTS

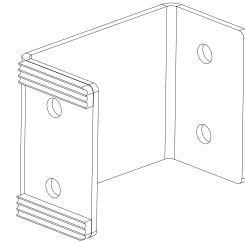
BRACKET, LOADER VALVE, RELO  
P/N: 8SV-SM-01341



GLASS HINGE SLEEVE WITH MOUNTING  
HARDWARE  
P/N: 8SV-PL-00021

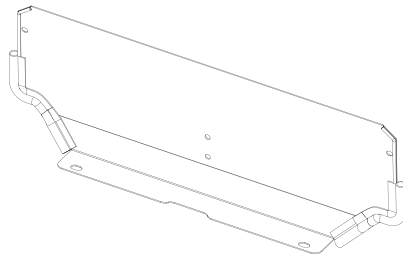


SMV RELOCATION BRACKET  
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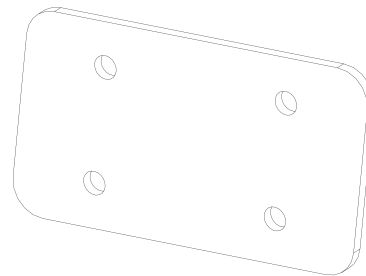


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LOWER REAR PANEL ASSEMBLY  
P/N: 8SV-106-00030



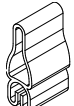



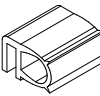

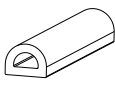




TOOLBOX RELOCATION BRACKET  
P/N: 8SV-SM-01478



## ADDITIONAL SERVICE PARTS

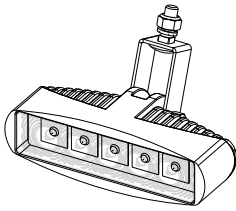
PART NUMBER	DESCRIPTION
9SV-DL173	DECAL, HEARING PROTECTION
9SV-HWS	WINDSHIELD HINGE KIT
9SV-9PWM110	WIPER MOTOR, 110 DEGREE
9PWB20-FB	WIPER BLADE, 20", FLEX
9SV-9PWA14-16	WIPER ARM, ADJUSTABLE LENGTH (11" - 16")
9SV-PWKHB	GLASS MOUNTING KIT FOR WIPER SYSTEMS
9SV-GS02Q	GAS SPRINGS, 12-3/8 EXT, QUICK DISCONNECT ENDS (SET OF 2)
9SV-DSTRH	DOOR STRIKER KIT - INCLUDES CASE HARDENED STRIKER BOLT
9SV-IHRL	INSIDE HANDLE ROTARY LATCH KIT (INCL. L & R)
9SV-OHRL	OUTSIDE HANDLE ROTARY LATCH KIT (SET OF 2)
9SV-9PHW010-W	HINGE WASHER, KIT (SET OF 4) OD .635, ID .41, THK .08
9SV-GS02A	BALL STUDS, 10MM (BAG OF 10)
9PI01	POLY INSERT 1", 14-20 GA BLK MATTE, INSERT FINS .94/.95 (QTY.: 1)
9PI02	POLY INSERT 3/4", 14-20 GA BLK MATTE FINISH, INSERT FINS 0.69 (QTY.: 1)
9SV-WL1	WINDSHIELD LATCH KIT 1, POPS OPEN W/S FOR VENTING ONLY
8SV-WL3	WINDSHIELD LATCH & BRKT ASS'Y. SGL POST (SET OF L&R)
9SV-9DPSB	SNAP BUSHING, .750" X 1.093" (QTY.: 2)
9SV-9HR-0005	TEE FITTING, 1-1/8" x 1-1/8" x 5/8"
9SV-9HR0099	3/8 X 5/8 HOSE BARB, M16X1.5 THREAD
9SV-9HR00601.0	HOSE CLAMPS #10 (1") (QTY.: 6)
9SV-9HR00601.5	HOSE CLAMPS #16 (1.5") (QTY.: 2)
9SV-9HR-00025	IN-LINE MANUAL SHUT-OFF VALVE, 3/4", NSF 14
9SV-9HR0048	ROCKER SWITCH (HI-OFF-LOW)
9SV-9HR-L	REPLACEMENT LOUVER-15,000 & 20,000 BTU HEATER
8SV-9PH20WG	TUCK-AWAY HEATER WITH WIRED GROUND
9SV-HRH61-20	HEATER HOSE (5/8" I.D.)-20 FT
9SV-TBP12920	HARNESS (SPIRAL) WRAP, CUT 20"
9SV-WH-00072	WIRING HARNESS POWER
8SV-WH-GF	WIRE HARNESS, GLASS FUSE
9DL01H	KEYS, SET OF 2 ON A RING, FOR HANDLE 1096-1, KEY CODE C40

TRIM LOK, STD, 1/16" - 1/8" GRIP	5/8" STD BULB, 1/16" GRIP	1" FLAT BULB, 1/16" GRIP	RUBBER FOAM, 1/2" X 9/16"	WINDOW RUBBER	1" ROUND BULB, 1/16" GRIP	3/4" SIDE BULB, 1/16" GRIP	3/4" SIDE BULB, 1/4" GRIP	ARCH PSA .2 X .15
								
9SV-PRO1-20	9SV-PRO2-15	9SV-PRO5-10	9SV-PR43-4	9SV-PR10-10	9SV-PR19-10	9SV-PR17-20	9SV-PR38-15	9SV-PR53-15
				1/2" WEATHERSEAL	2.1" FLAT RUBBER, 1/16" GRIP			
								
				9SV-PR20-10	9SV-PR54-5			

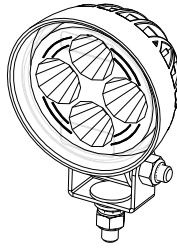


## OPTIONAL ACCESSORIES FOR MAHINDRA MAX 26XLT CAB

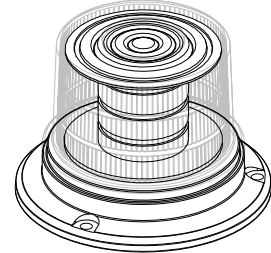
FRONT LED WORK LIGHTS (P/N: 9LEDW4)



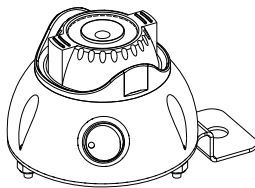
REAR LED WORK LIGHTS (P/N: 9LEDW3)



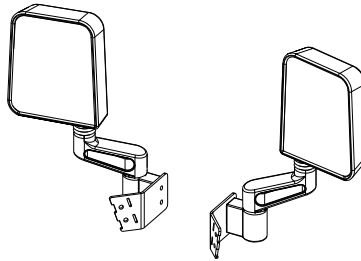
STROBE LIGHT (P/N: 9LEDS2)



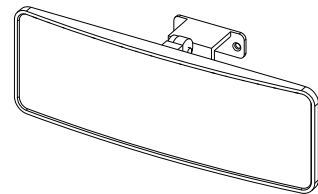
DOME LIGHT (P/N: 9LEDD14)



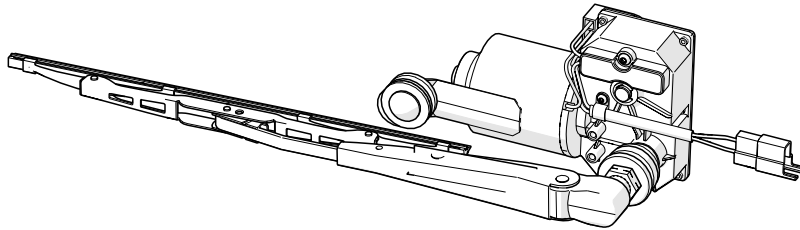
SIDE VIEW MIRRORS (P/N: 9PM5)



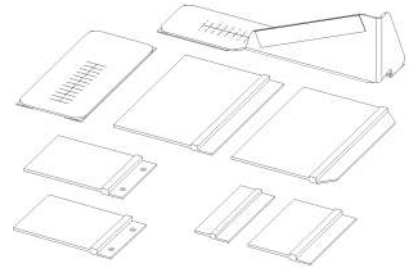
REAR VIEW MIRROR (P/N: 9PM3)



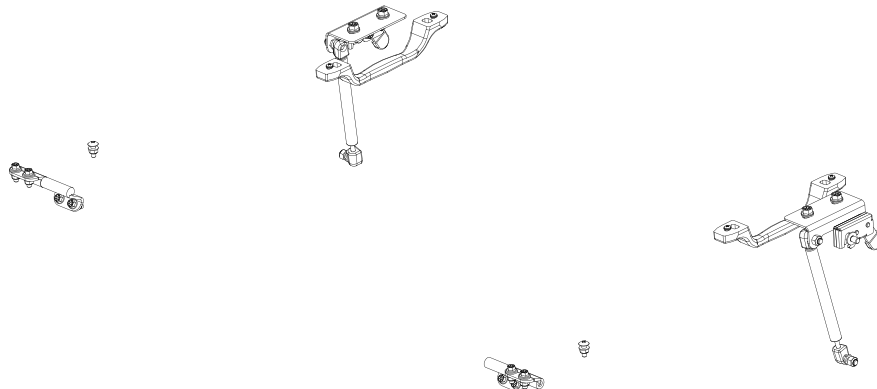
REAR WIPER KIT, 85 DEG W/ 12" FLEX BLADE (P/N: 9PWK8512F9-11A)



SEAL KIT (P/N: 9SK6)



Backhoe Compatible Kit (P/N: 1MA26XLTBK)



## Tightening of Non-Structural Bolts

For light or medium duty fastening, Curtis recommends using a general industry standard of tightening until snug and then giving an additional one quarter turn of the tool as deemed reasonable for the application (i.e.: at the installer's discretion).

If torque values are required, the examples listed below are intended as a reasonable reference for use in the majority of non-structural fastener applications such as: small diameter fasteners; bolts passing thru tubing, glass, plastic, nylon or rubber washers, threaded inserts, etc.

If more than one application below applies, use the lower torque value.

FASTENER SIZE:	FASTENER TYPE:	WASHER MATERIAL:	APPLICATION:	TORQUE (INCH-POUNDS) (±5)
#10	Machine Screws	-	in Nylon P-Clamps	20
#10	Machine Screws	-	Strobe Light (plastic base)	35
M5	Set Screws	-	Wiper Arm	20
1/4"	Cap Nut	-	Windshield Wiper	20
1/4"	Bolts	-	Tubing (5/8" to 3/4" wide)	132
1/4"	Bolts	Rubber	-	60
1/4"	Bolts	Nylon / Plastic	-	72
1/4"	Bolts	-	Factory Installed Threaded Inserts	132
5/16"	Bolts	-	Tubing (1" or wider)	60
5/16"	Flat Head Bolts	-	Plastic Windshield Hinge	79
5/16"	Bolts	Rubber	-	120
5/16"	Bolts	Nylon / Plastic	-	150
5/16"	Ball Studs	-	-	150
5/16"	Bolts	-	Factory Installed Threaded Inserts	240
3/8"	Bolts	-	Tubing	120
M12	Door Striker Pins	-	-	120








## Torque Specs. for Structural Bolts

This page is for use primarily when dealing with high-strength vehicle fasteners such as ROPS hardware that hold the structure together for safety. This page can also be used for other solid metal-to-metal joints. **Do not** use these high torque values on any of the following applications involving: tubing, plastic, nylon or rubber washers, threaded inserts, etc.. See previous page regarding less critical fasteners.

The values below apply to fasteners that are dry or lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

Remember to always use the same grade or property class when replacing bolts.

**IMPORTANT: on all PLATED GRADE 8 bolts, reduce torque 15% from listed bolt torque specification.**

SAE Grade No.		2				5				8*			
Bolt head identification mark as per grade. NOTE: Manufacturing Marks Will Vary						  				  			
Bolt Size		TORQUE				TORQUE				TORQUE			
Inches	Millimeters	Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	7	8	9	11	12	15	12	15	16	20
5/16	7.94	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	9.53	20	23	27	31	35	42	48	57	45	54	61	73
7/16	11.11	30	35	41	47	54	64	73	87	70	84	95	114
1/2	12.70	45	52	61	70	80	96	109	130	110	132	149	179
9/16	14.29	65	75	88	102	110	132	149	179	160	192	217	260
5/8	15.88	95	105	129	142	150	180	203	244	220	264	298	358
3/4	19.05	150	185	203	251	270	324	366	439	380	456	515	618
7/8	22.23	160	200	217	271	400	480	542	651	600	720	814	976
1	25.40	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8	25.58	-	-	-	-	800	880	1085	1193	1280	1440	1736	1953
1-1/4	31.75	-	-	-	-	1120	1240	1519	1681	1820	2000	2468	2712
1-3/8	34.93	-	-	-	-	1460	1680	1980	2278	2380	2720	3227	3688
1-1/2	38.10	-	-	-	-	1940	2200	2631	2983	3160	3560	4285	4827

\*Thick Nuts must be used with Grade 8 bolts

## METRIC BOLT TORQUE SPECIFICATIONS



Size of Screw	Property Class	Course Thread			Fine Thread		
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	5.6	1.0	3.6-5.8	4.9-7.9	-	-	-
	8.8		5.8-9.4	7.9-12.7		-	-
	10.9		7.2-10	9.8-13.6		-	-
M8	5.6	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23
	8.8		17-22	23-29.8		19-27	25.7-36.6
	10.9		20-26	27.1-35.2		22-31	29.8-42
M10	5.6	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3
	8.8		34-40	46.1-54.2		35-47	47.4-63.7
	10.9		38-46	51.5-62.3		40-52	54.2-70.5
M12	5.6	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6
	8.8		51-59	69.1-79.9		55-68	75.9-92.1
	10.9		57-66	77.2-89.4		62-75	84-101.6
M14	5.6	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7
	8.8		81-93	109.8-126		90-106	122-143.6
	10.9		96-109	130.1-147.7		107-124	145-168
M16	5.6	2.0	67-77	90.8-104.3	1.5	69-83	93.6-112.5
	8.8		116-130	157.2-176.2		120-138	162.6-187
	10.9		129-145	174.8-196.5		140-158	189.7-214.1
M18	5.6	2.0	88-100	119.2-136	1.5	100-117	136-158.5
	8.8		150-168	203.3-227.6		177-199	239.8-269.6
	10.9		175-194	237.1-262.9		202-231	273.7-313
M20	5.6	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3
	8.8		186-205	252-277.8		206-242	279.1-327.9
	10.9		213-249	288.6-337.4		246-289	333.3-391.6