



A/C ROOF KIT: 1ACBX80TLRFK (Fits BX80TL)

Must be installed with factory cab P/N: BX4070
 Must be installed with Curtis Air Conditioner 1ACUNIT-G1
 Must be installed with Curtis A/C Drive Kit 1ACBX2380DRK

Approximate Installation Time *

Experienced Dealer Technician – 45 Minutes
Average Dealer Technician – 1 Hour
Do-It-Yourself – 1.5 Hours

(* = Not including cab & other accessories)

Approximate Product Specifications

Floorboard to Top of Air Conditioner: 63.25 inches
Weight: 21 lbs. (not including 1ACUNIT-G1)

The contents of this envelope are the property of the owner.

Leave with the owner when installation is complete.

Rev. B, 05/18/2018

p/n: IM-1ACBX80TLRFK

TABLE OF CONTENTS

WARNINGS, TIPS, & REQUIRED TOOLS3

REQUIRED ACCESSORIES.....3

VEHICLE PREPARATION 4-5

PRE-ASSEMBLY 6-7

INSTALLATION.....8-11

FINISHING TOUCHES12


CARE AND MAINTENANCE12

SERVICE PARTS13





WARNINGS, TIPS, & REQUIRED TOOLS

Curtis accessories 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 this A/C Roof Kit.

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

 NOTICE
<p>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.</p>

⚠ 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

 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 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.

TOOLS REQUIRED

- Set of Standard Sockets (3/8" Drive)
- 3/8" Drive Ratchet and Extension
- #2 and #3 Phillips Head Screwdriver
- Set of Standard Open-End Wrenches
- Silicone Sealant
- Allen Wrenches
- Cordless Drill
- #2 Phillips Head Driver Bit
- 1/4" and 1/2" Drill Bit
- Scissors
- Clamps
- Anti Seize

ACCESSORIES REQUIRED

- Cab BX4070
- Ballast in excess of 100 lb.
(refer to Section 1.7 for additional details)
- Air Conditioner Drive Kit 1ACBX2380DRK
- Air Conditioner Unit 1ACUNIT-G1

CAB INSTALLATION

STEP 1: (VEHICLE PREP)

- 1.1 Remove the clevis pins from the ROPS and fold down. Save these components.

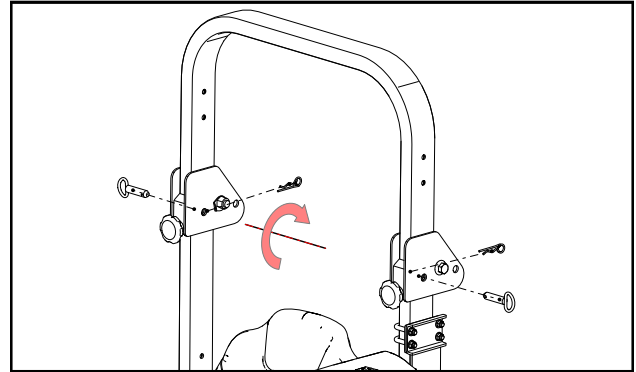


Fig. 1.1 (Fold ROPS)

- 1.2 Remove plastic roof. If installation of the air conditioner is being installed at the same time as the cab, do not install the roof or its brackets to complete the cab.

The roof will not be reused.

Tools

3/16" Allen wrench
1/2" wrench or socket

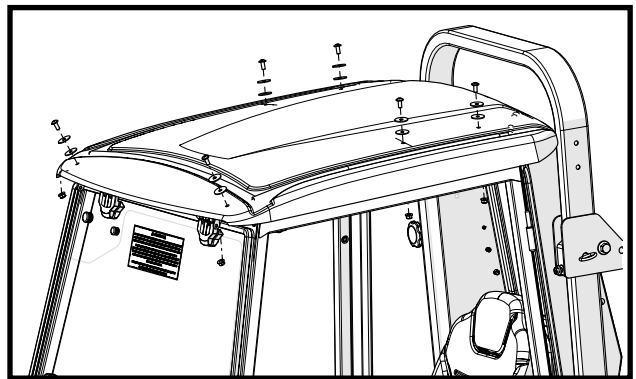


Fig. 1.2 (Remove Plastic Roof)

- 1.3 Remove the roof brackets from both side frames.

These brackets will not be reused.

Tools

3/16" Allen wrench
1/2" wrench or socket

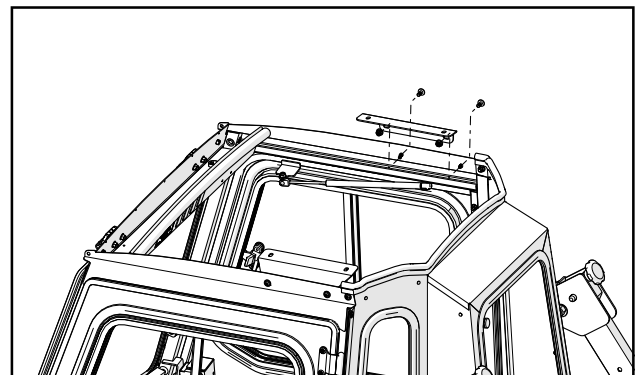


Fig. 1.3 (Remove Roof Brackets)

- 1.4 If the vehicle is not equipped with LED lights, skip this step.

If the vehicle is equipped with LED lights, remove the LED light brackets by removing and saving the bolts connecting it to the cab's side frame and the LED lights. Disconnect wiring and set aside.

Tools

5/32" Allen wrench
7/16" wrench or socket

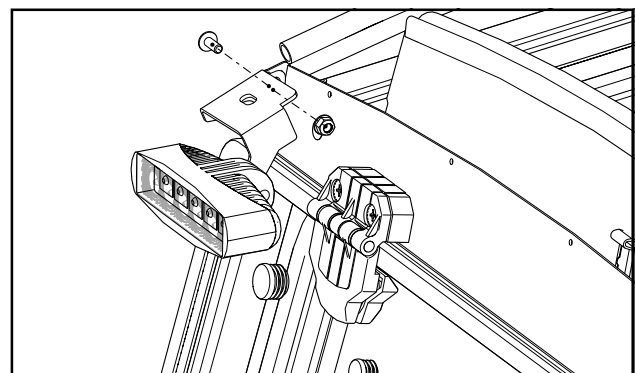


Fig. 1.4 (Remove LED Lights)

CAB INSTALLATION

STEP 1: (VEHICLE PREP)

- 1.5** Remove the bulb rubber from the windshield header and side frames. This will expose 5 holes to be used in Step 3.1.

If there are no holes in the windshield support, they will need to be drilled in Step 3.1

- 1.6** Referring to Figure 1.5, cut the bulb rubber at the corners indicated with arrows. Discard the small pieces and leave the remainder on the cab.
- 1.7** For vehicle stability, add a minimum of 100 lb. (45 kg) of weight as close to the ground as possible. Tire ballast, such as liquid filled tires, is the recommended method of adding this weight.

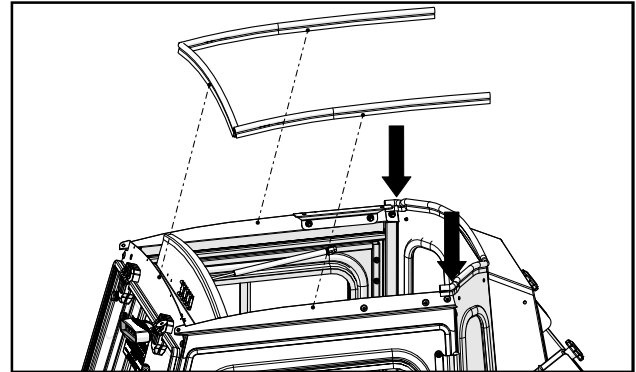


Fig. 1.5 (Rubber Seal Modification)

CAB INSTALLATION

STEP 2: (PRE-ASSEMBLY)

CAUTION: Never turn the air conditioner upside down or on its side. Doing so will drain the compressor of its oil and will void the warranty .

- 2.1 Place the roof on a sturdy table. Elevate the roof at least 4 inches from the table. Take care not to scratch the paint.

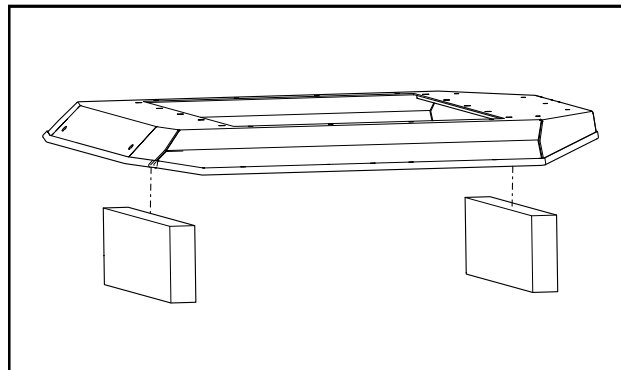


Fig. 2.1 (Roof Preparation)

- 2.2 Apply a bead of silicone along the perimeter of the roof (the top, exterior surface). The bead shall be inside of the fastener holes as illustrated with the dashed lines in the enlarged view of Figure 2.2.

Tools

Silicone

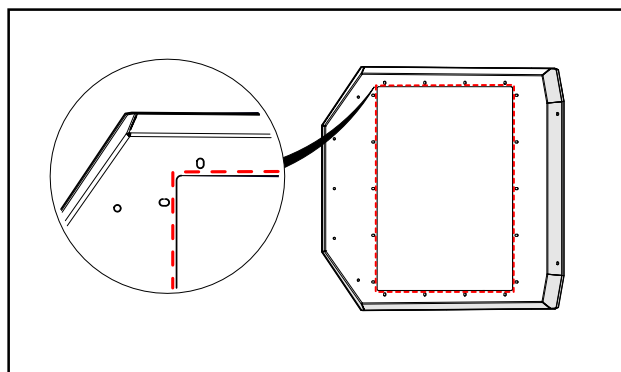


Fig. 2.2 (Apply Silicone)

- 2.3 Place the air conditioner unit onto the roof, center it inside of the roof's square hole. Wipe away any excess silicone from inside and outside of the roof assembly.

Note: Orient the unit as shown when installing.

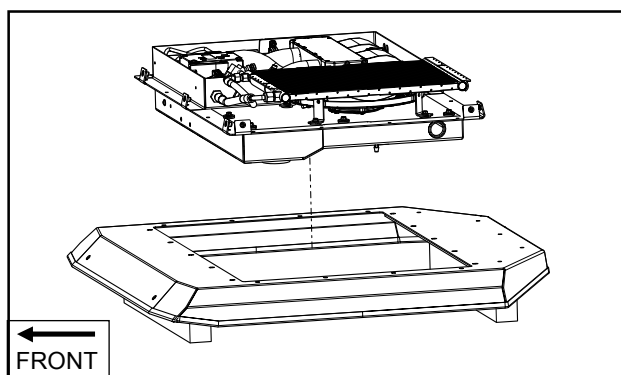


Fig. 2.3 (Insert A/C Unit)

- 2.4 Install the rear filler panel to the underside of the roof and air conditioner. Fasten only hand tight.

Hardware Used

	Qty
1/4-20 x 3/4" flange bolt	5
1/4-20 flanged lock nut	5
1/4" plastic washer	5

Tools

Apply anti seize to bolt threads

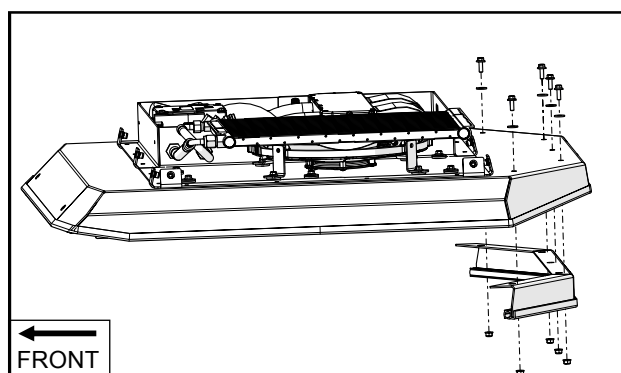


Fig. 2.4 (Install Rear Filler)

CAB INSTALLATION

STEP 2: (PRE-ASSEMBLY)

- 2.5 Install the side braces to the underside of the roof and air conditioner. Fasten only hand tight.

Hardware Used

	<u>Qty</u>
1/4-20 x 3/4" flange bolt	8
1/4-20 flanged lock nut	8
1/4" plastic washer	8

Tools

3/8" wrench or socket
7/16" wrench or socket
Apply anti seize to bolt threads

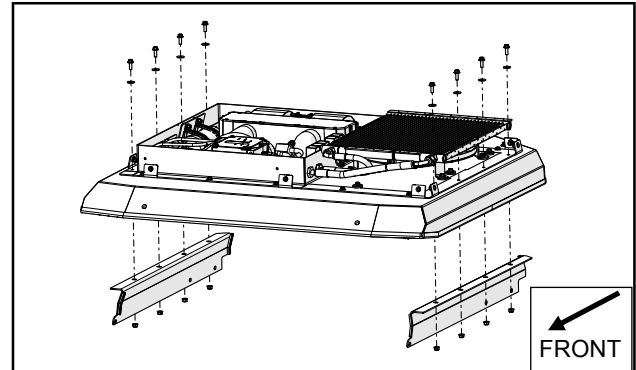


Fig. 2.5 (Side Brace Fasteners)

- 2.6 Install fasteners to the roof and air conditioner along the front and rear of the air conditioner. After all of these fasteners are in place, fully tighten just the 10 fasteners used in this step.

Note: the fasteners from Steps 2.4 & 2.5 shall remain hand tight only.

Hardware Used

	<u>Qty</u>
1/4-20 x 3/4" flange bolt	10
1/4-20 flanged lock nut	10
1/4" plastic washer	10

Tools

3/8" wrench or socket
7/16" wrench or socket
Apply anti seize to bolt threads

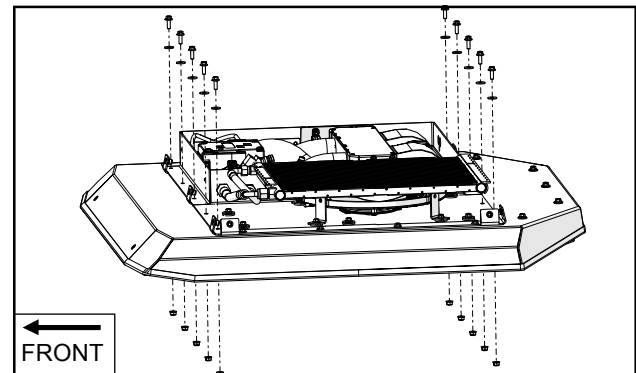


Fig. 2.6 (A/C to Roof Fasteners)

CAB INSTALLATION

STEP 3: INSTALLATION

- 3.1** If the windshield header is equipped with 5 holes that correspond to the holes of the front filler panel, skip this step.

Align the front filler panel with the windshield header. The filler panel will sit between the side frames. Align the front filler panel vertically by aligning the edges at the lower corner. Clamp the front filler panel in place.

Verify that the holes of the front filler panel are 1/4" - 3/8" below the top edge of the header. Once this is confirmed, use the front filler panel as a template to drill through the header with a 1/4" drill bit.

Tools

Clamps

Drill

1/4" drill bit

- 3.2** Install front filler panel with supplied hardware.

Hardware Used

#10-32 x 5/8" machine screw

#10-32 flanged lock nut

Qty

5

5

Tools

#2 Phillips screwdriver

3/8" wrench or socket

- 3.3** With assistance, lower the roof assembly onto the top of the installed cab. The side panels and rear panel of the roof must be on the outside of the cab's frame.

- 3.4** Adjust the position of the roof such that the rubber of the cab's rear panel of the roof is in contact with the rear panel of the roof for proper sealing. Install hardware through the side panels of the roof and the side frame of the cab, the location is shown with circles in Figure 3.4.

Hardware Used

1/4-20 x 3/4" flange bolt

1/4-20 flanged lock nut

Qty

6

6

Tools

3/8" wrench or socket

7/16" wrench or socket

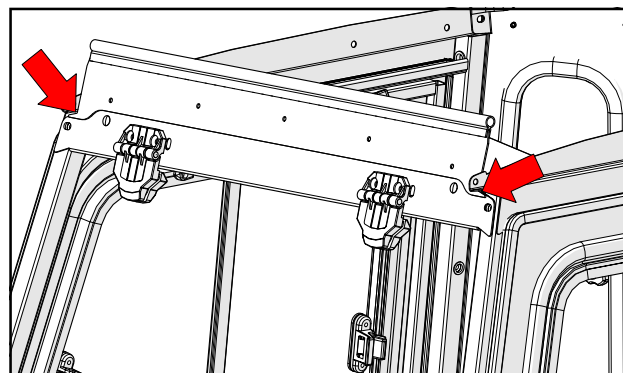


Fig. 3.1 (Clamp & Drill Front Filler Panel)

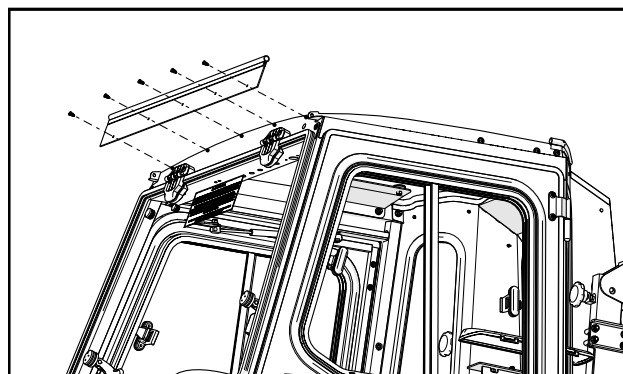


Fig. 3.2 (Install Front Filler Panel)

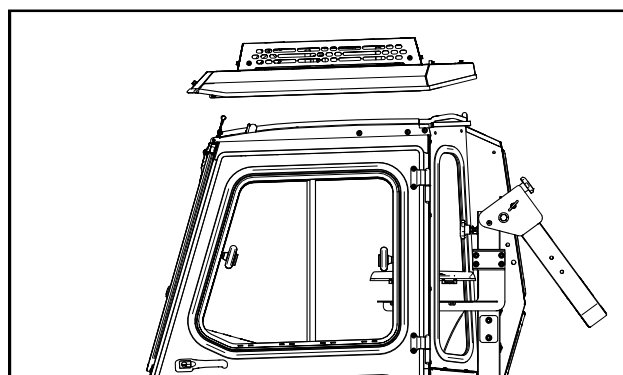


Fig. 3.3 (Install Roof)

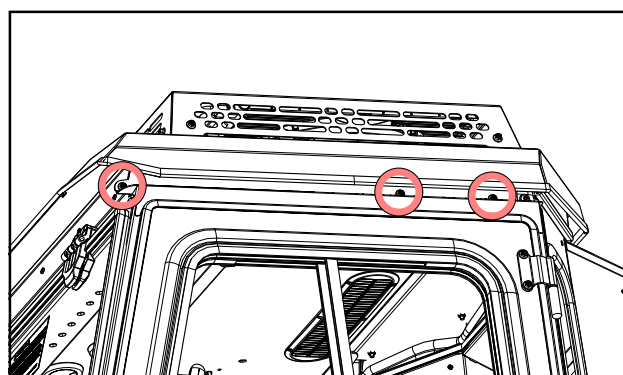


Fig. 3.4 (Fasten Side Frame)

CAB INSTALLATION

STEP 3: INSTALLATION

3.5 Tighten all remaining roof bolts.

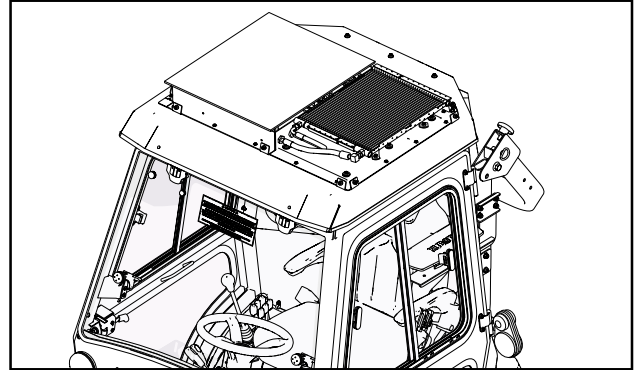


Fig. 3.5 (Tighten Roof Bolts)

3.6 If front LED lights were installed, remove plastic plugs from the front of the roof.

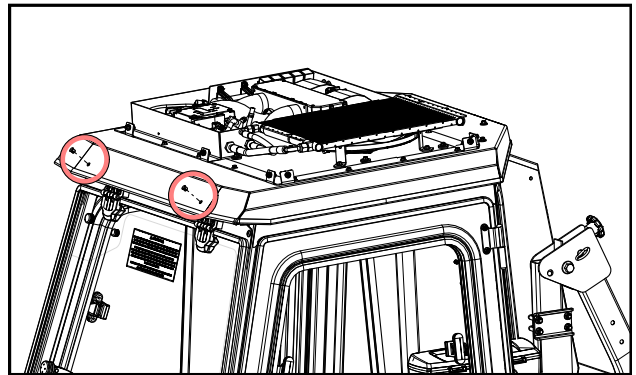


Fig. 3.6 (LED Plug Removal)

3.7 Reverse the positions of the LED light brackets from left to right and install LEDs with brackets to their new position underneath the roof as shown.

Hardware Used

5/16-18 x 3/4" button head
5/16-18 flanged lock nut

Qty

2
2

Tools

3/16" Allen wrench
1/2" wrench or socket

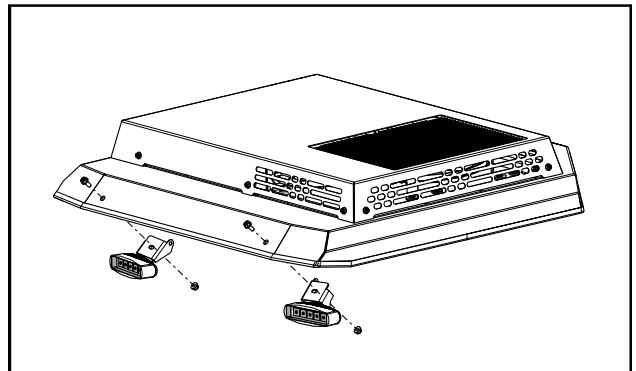


Fig. 3.7 (LED Installation)

3.8 Attach drain tube to the underside of the air conditioner on the driver's side and the passenger's side. Be careful not to push the nipple back up into the air conditioner. Passenger's side shown in Figure 3.8.

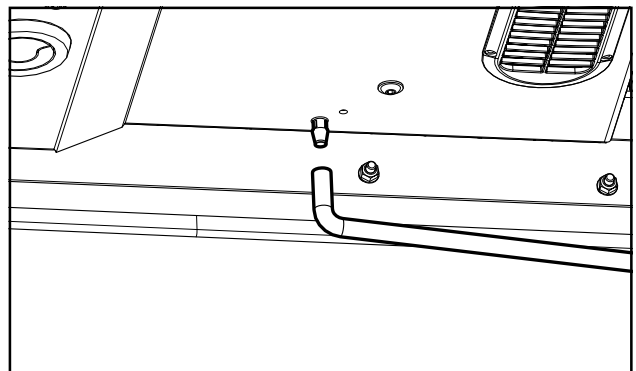


Fig. 3.8 (Attach Drain Tubes)

CAB INSTALLATION

STEP 3: INSTALLATION

- 3.9** Drill 1/2" hole in the cab's plastic wall and route drain hose through wall.

Figure 3.9a shows the driver's side of the vehicle.
Figure 3.9b shows the passenger's side of the vehicle.

Tools

Drill

1/2" drill bit

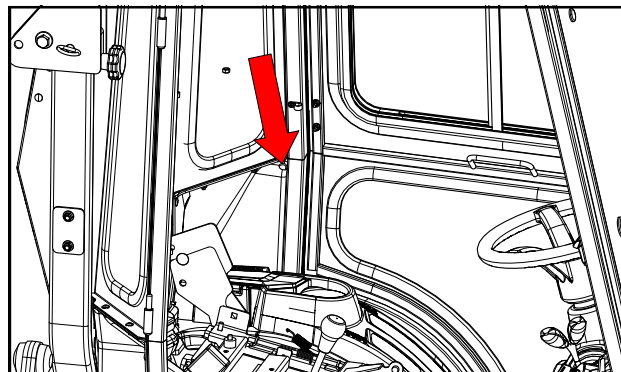


Fig. 3.9a (Drill Driver's Side)

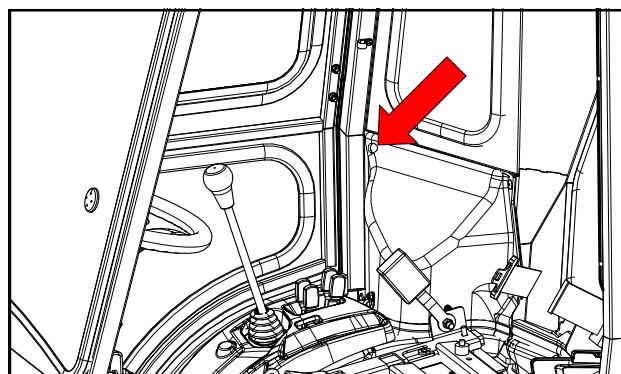


Fig. 3.9b (Drill Passenger's Side)

- 3.10** Route the drain tube from Step 3.8 through the holes from Step 3.9.

Install p-clamps to the drain hose. Fasten p-clamps to the cab along the door frame of the cab. Space three p-clamps on each side of the cab, approximately 12" apart.

Refer to the heavy black lines in the illustrations.

Hardware Used

#10 x 1/2" self-drilling screw

P-clamp, 1/2" ID

Qty

6

6

Tools

Drill

#2 Phillips head driver bit

Figure 3.10a shows the interior of the vehicle from the driver's side with passenger's side door removed.
Figure 3.10b shows the interior of the vehicle from the passenger's side with driver's side door removed.

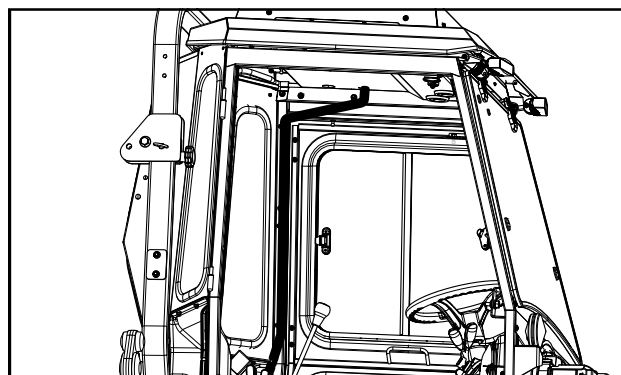


Fig. 3.10a (P-Clamps, Driver's Side)

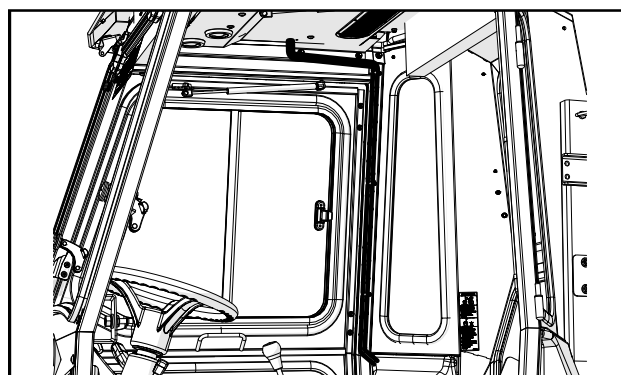


Fig. 3.10b (P-Clamps, Passenger's Side)

CAB INSTALLATION

STEP 3: INSTALLATION

3.11 Install p-clamps to the drain hose. Fasten p-clamps to the frame on the outside of the cab.

Trim drain tubing on both sides of the vehicle so that the tube is long enough to hang over the edge of the vehicle in order to prevent pooling of water on the vehicle.

Hardware Used

#10 x 1/2" self-drilling screw
P-clamp, 1/2" ID

Qty

2
2

Tools

Drill
#2 Phillips head driver bit
Scissors

Figure 3.11a shows the driver's side of the vehicle.
Figure 3.11b shows the passenger's side of the vehicle.

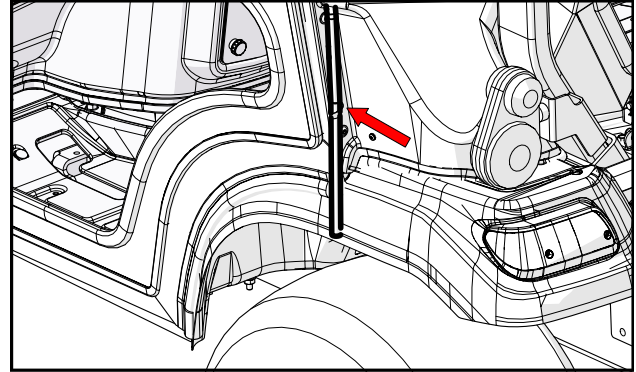


Fig. 3.11a (P-Clamps, Driver's Side)

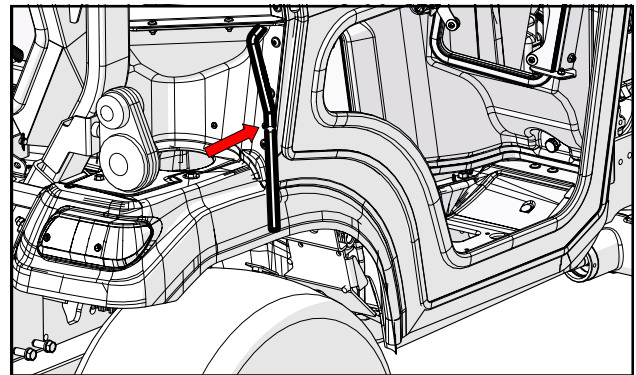


Fig. 3.11b (P-Clamps, Passenger's Side)

CAB INSTALLATION

STEP 4: FINISHING TOUCHES

- 4.1 For the electrical connection of the Air Conditioner to the A/C Drive Kit, refer to the A/C Drive Kit Installation Manual that is specific to the corresponding vehicle and test operation.
- 4.2 Install cover to air conditioner. Tighten bolts.

Hardware Used

	<u>Qty</u>
1/4-20 x 3/4" flange bolt	10
M6X1 X 16mm truss head screw	1
M6 Rubber Washer	1

Tools

3/8" wrench or socket
 #3 Phillips Head Screwdriver
 Apply anti seize to bolt threads

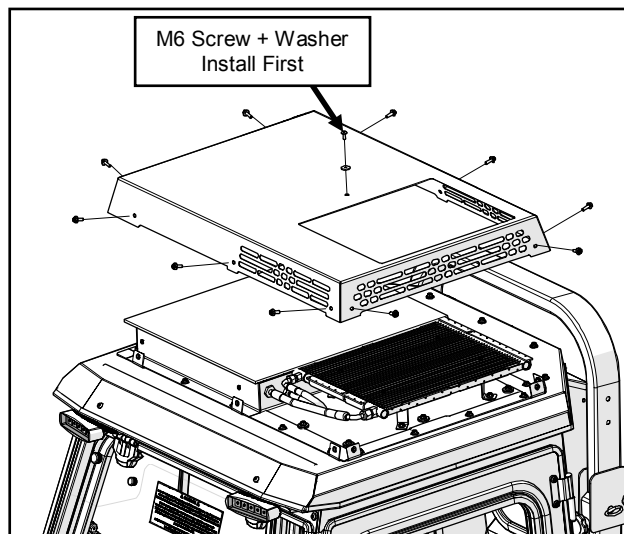


Fig. 4.2 (A/C Cover Fasteners)

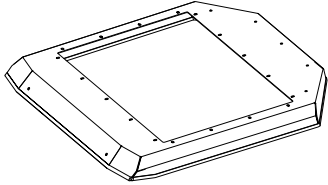
- 4.3 Return ROPS to its upright position (Refer to step 1.1).

CARE AND MAINTENANCE

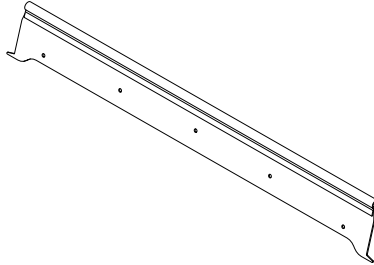
- Check and tighten hardware after 40 hours of operation. Periodically inspect and tighten hardware for the remainder of the unit's life.
- Wash the painted surfaces of the cab with commercial automotive cleaning products.

SERVICE PARTS

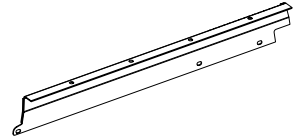
ROOF PANEL ASSEMBLY
P/N: 8SV-101-00017



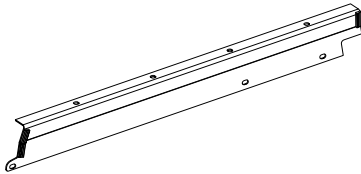
FILLER PANEL, FRONT ROOF
P/N: 8SV-113-00057



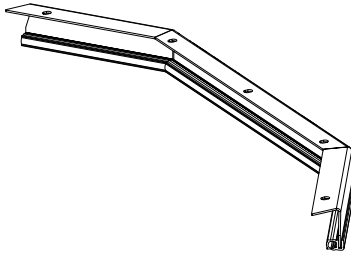
SIDE BRACE ASSEMBLY, LEFT
P/N: 8SV-113-00058-L



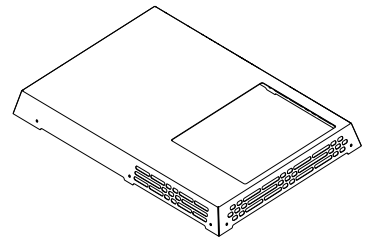
SIDE BRACE ASSEMBLY, RIGHT
P/N: 8SV-113-00058-R





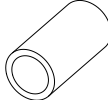


PANEL, REAR ROOF FILLER
P/N: 8SV-113-00067



COVER ASSEMBLY, A/C, W/ CUT-OUTS,
DARK GRAY; P/N: 8SV-303-00001KG



TRIM LOK, STD, 1/16" - 1/8" GRIP	5/8" STD BULB, 1/16" GRIP	1/2" WEATHERSEAL	5/8" STD BULB, 1/16" GRIP	3/8" PVC HOSE, BLACK, 1/2" OD
				
9SV-PRO1-20	9SV-PRO2-15	9SV-PR20-10	9SV-PR17-20	9SV-AC-00019-15