






John Deere TLB 110 Parts List & Mounting Instructions



-  **CAUTION:** Read and follow all safety statements and assembly Instructions, before attempting to mount cab/ sunshade.
-  **CAUTION:** The resulting noise levels when using this product will exceed OSHA standards for an 8 hours work day, Hearing protection with Noise Reduction Rating (NRR) of 22 or higher is required.
-  **CAUTION:** This unit is heavy and should be mounted with a minimum of two personnel and a hoist.
-  **INSTALLER:** Leave these instructions with end user, If Manual is lost or damaged please contact your Dealer or Distributor for replacement.
-  **END USER:** Keep this manual for future reference.

This cab is manufactured for
John Deere by
Jodale Perry corp.

TO THE PURCHASER

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. Read and understand this manual before installation or operation.

This manual has been prepared to assist the owner and operators in the safe installation, and suitable maintenance of this cab. The information is applicable to products at the time of manufacture and does not include modifications made afterwards.

Read and understand mounting instructions before attempting to mount cab. Familiarize yourself with the operating instructions and all safety recommendations contained in this manual, and on the tractor. Follow the safety recommendations and make sure that those with whom you work follow them.

DIRECTION REFERENCE

All references to right and left, forward or rearward, are from the operator's seat, facing the steering wheel

To assist your dealer in handling your needs, Please record hereafter the model number and serial number of your cab and tractor. It is also advisable to supply them to your insurance company, it will be helpful in the event that your cab or tractor is lost or stolen.

TRACTOR CAB: _____

MODEL: _____

SERIAL NUMBER: _____

DATE OF PURCHASE: _____

DEALER NAME: _____

Jodale Perry Corporation
204-822-9100
www.jodaleperry.com

customercare@jodaleperry.com

1.0 Introduction

We at Jodale Perry are pleased that you have chosen a BOXER ROPS cab for your Deere TLB Utility Vehicle. The BOXER cab has evolved through ideas and suggestions submitted to us by customers such as yourself.

We ask that you study this manual and adopt the practices outlined in it.

We ask that for practices and operations not outlined in this manual, you follow the instructions given in the operator's manual supplied with the tractor. Before putting the tractor in service, become familiar with all the information described in both manuals.

Tractor in this manual is defined as the vehicle mounted with BOXER cab (i.e. tractor, mower, etc.)

2.0 Safety

Carefully review the procedures given in this manual and the tractor operator's manual with all operators annually. It is important that all operators be familiar with, and follow, safety precautions. Operating instructions must be given to everyone using the tractor before operation and at least once yearly thereafter in compliance with OSHA Regulations 1928.57 (United States).

2.1 General Safety

- 2.1.1. Never let an unqualified or untrained driver operator operate the tractor.
- 2.1.2. Keep a fire extinguisher, with ABC rating securely fastened in the cab. Maintain it and be familiar with its use.
- 2.1.3. Never carry passengers.
- 2.1.4. Never operator the tractor in a closed building. Provide adequate ventilation. Engine exhaust fumes are poisonous and can kill.
- 2.1.5. Always keep sleeves, jackets, or other clothing relatively tight, and belted. Loose clothing may catch in moving parts, and result in personal injury or death.
- 2.1.6. Provide a first-aid kit, securely attached in the cab for use in case of accident.
- 2.1.7. Never jump from the tractor. There is a danger of catching clothing on protruding parts.
- 2.1.8. Use steps and handholds when mounting and dismounting the tractor, or for servicing components too high to reach from the ground.
- 2.1.9. Do not use the cab fender as a step.
- 2.1.10. Fasten seat belt before starting the engine. If the tractor is not equipped with seat belts, purchase approved seat belts from the tractor manufacturer or Jodale Perry prior to operating the tractor.
- 2.1.11. Safety devices and shields are intended to protect operators from injury or death. Under no circumstances should they be disabled or removed.

2.2 Operating Safety

- 2.2.1. Always operate the tractor controls while sitting in the operator's seat.
- 2.2.2. Lock seat in position and buckle seat belt before operating the tractor. If the tractor is not equipped with seat belts, purchase approved seat belts from the tractor manufacturer or Jodale Perry prior to operating the tractor.
- 2.2.3. Avoid abrupt turns, starts, or stops, especially at high speeds.
- 2.2.4. Keep all shields in place when operating the tractor.
- 2.2.5. Do not operate the tractor when you are tired, sick, or impaired.
- 2.2.6. Never operate the tractor in confined areas; visibility next to the tractor is reduced. Injury to bystanders, or damage to the cab or equipment may result.

2.3 Safe Operation in Rough Terrain

- 2.3.1. Drive the tractor slowly on hillsides and curves to eliminate the danger of tipping. Avoid slopes which are too steep for safe operation. Avoid sharp uphill turns.
- 2.3.2. Always drive slowly over rough ground or obstructions. Drive at speeds slow enough to ensure your safety.
- 2.3.3. When driving out of a ditch, gully, or up a steep hillside, engage the clutch slowly. Avoid sharp uphill turns.
- 2.3.4. When descending steep grades, select a sufficiently low gear to maintain control with minimum braking.
- 2.3.5. Use caution when driving near the edge of a ditch or gully. It may cave in, causing the tractor to roll over.
- 2.3.6. Be especially alert when operating near trees, slopes, and around obstructions.

2.4 Maintenance Safety

- 2.4.1. Ensure all hose connections are tight, and lines and hoses undamaged. Before disconnecting heater or air conditioner lines, relieve all pressure.
- 2.4.2. Remove mud, crop residue, chains, and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from tractor.
- 2.4.3. When servicing components are too high to reach from the ground use steps and handholds. Do not use fenders or shields that are not designed as steps.

2.5 Safe Highway Operation

- 2.5.1. Before operating tractor on, or near, public roadways, check with authorities for local regulations.
- 2.5.2. Equip towed implements with slow moving vehicle (SMV) signs when traveling on public roads.
- 2.5.3. Install additional lights on implement rear to safeguard against rear end collisions.
- 2.5.4. Use hazard warning flashers as required by law when transporting or driven on public roads. If the tractor warning flashers were removed when mounting the cab they must be replaced prior to operation on public roads.
- 2.5.5. Keep to the right, yielding right-of-way traffic, especially when pulling implements. Pull off the road and stop to allow motorists to pass. Drive on the road shoulder, if permitted by law.

- 2.5.6. Use extreme caution when pulling heavy loads at road speeds. Avoid hard application of the tractor brakes at high speed.
- 2.5.7. Always drive slowly near curbs, approaches, or ditches.
- 2.5.8. Ensure headlights are aligned so they will not blind the operator's of oncoming vehicles. If the tractor is not equipped with turn signals, and law requires them, install them prior to operating on or near public roads.
- 2.5.9. Use your turn signals, checking for traffic well in advance of turning. If the tractor is not equipped with turn signals, and law requires them, install them prior to operating on or near public roads.

2.6 Safety decals

- 2.6.1. Keep decals clean. Remove dirt with a wet clean cloth when necessary.
- 2.6.2. Replace safety decals if destroyed, missing, painted over, or unreadable. IF the tractor safety decals are covered, or obscured when the cab is mounted, purchase replacement decals from the tractor manufacturer. Mount them in a readable location at, or near, their original location before operating the tractor.
- 2.6.3. New BOXER cab decals and tractor decals are available from your tractor dealer.

2.7 ROPS Cab Safety

- 2.7.1. Install the ROPS in accordance with Jodale Perry mounting instructions. Failure to do so may affect the cab's ability to withstand a roll over.
- 2.7.2. If the ROPS cab is subjected to alteration, structural damage, or involved in an over turn accident, the entire structure must be replaced. Failure to do so may result in injury or death in the event of a roll over.
- 2.7.3. If the tractor is not equipped with seat belts, purchase approved seat belts from the tractor manufacturer prior to operating the tractor.
- 2.7.4. Always fasten seat belts prior to operating the tractor.
- 2.7.5. Always operate the tractor from the operator's seat.
- 2.7.6. Remove mud, crop residue, chains, and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from the tractor.
- 2.7.7. Remove all loose chains, tools, and equipment from the cab. Failure to do so may cause injury or death in the event of a roll over.
- 2.7.8. Do not install the cab on a tractor model that the cab is not designated for (tractor designation is printed on the cab serial number plate). Installing the cab on a non-designated tractor may result in injury or death.

2.8 Emergency Exits

The this BOXER cab has two exits which may be used in an emergency: left side door, and right side door.

3.0 Operating Instructions

IMPORTANT

The following section locates, identifies, and briefly describes the functions of all cab controls. All operators should familiarize themselves with control location and function prior to operating the tractor. Failure to do so may result in unsafe operation of the tractor and possible injury or death to operators and bystanders.

3.1 Left Switch plate Controls

The left switch plate is located on the headliner console left which directly faces the operator.

Type	OPT	STD	ON	OFF	LOW	MEDIUM	HIGH
Front work light	X		HIGH	LOW			
Rear work light	X		HIGH	LOW			
Front washer		X	HIGH	CENTER	LOW		
Rear wiper	X		HIGH	CENTER	LOW		
Heater (Rotating) Switch	X			SET			
Fan (Rotating) Switch	X			SET	FIRST	SECOND	THIRD
A/C (Rotating) Switch	X			SET	FIRST	SECOND	THIRD
Aux Heater Pump (Push button)	X		IN	OUT			

3.2 Right Switch plate Controls:

The right switch plate is located on the headliner right side of the console which faces the operator at an angle

Type	OPT	STD	ON	OFF	Left	Right	
Hazard/Beacon switch	X		HIGH	LOW			
Turn signal lever	X				Left	Right	

3.3 Other Controls

1. Dome light (standard)

The dome light is located in the right rear corner of the headliner console. It is adjustable to direct light where required.

Rocker switch: Low position: Off High position: On

2. Louvers (optional)

The louvers are located on the lower fascia of the headliner console. They are adjustable to direct air flow where required.

4.0 Post-Mounting Instructions

Before starting a tractor equipped with a BOXER cab:

1. Clear the cab and tractor of all tools. Tools left in or around the cab and tractor can cause operator interference which could lead to bodily injury and/or damage to the machine.
2. Inspect the cab and tractor to ensure all bolts, screws, and heater connections are tight.
3. Ensure that all pedals, levers, and controls have adequate clearance for normal operation.
4. Ensure that all electrical components of both the cab and tractor operates normally.

Start the tractor and run standing at idle for a few minutes. Operate all pedals, levers, and controls checking for adequate cab clearance. Then run standing at PTO rpm speed for approximately five minutes and stop the tractor.

1. Inspect the heaters connections for leaks. Tighten as required.
2. Ensure that the water level in the tractor is to the required specification.

5.0 Trouble Shooting

In the following section, Jodale Perry has listed many of the problems, main causes, and practical solutions to the problems you may encounter. If you encounter a problem that is difficult to solve, contact your Jodale Perry dealer.

Problem Cause Solution

1. Poor air circulation Plugged air filter Clean or replace air filter
2. Too little heat Air lock in system Bleed air out of system
3. Poor motor circulation Install auxiliary pump
4. Poor wiper coverage Wipe angle too narrow Increase wipe angle on motor
5. Wiper blade contacts Wipe angle too wide Decrease wiper angle on cab frame motor

MAINTENANCE:

ALWAYS USE GENUINE PARTS WHEN REPLACEMENT PARTS ARE REQUIRED.

1. Keep the tractor and cab properly maintained.
2. Park the tractor/cab on level ground, place the transmission in neutral, set the parking brake, disengage the PTO, lower all tractor attachments to the ground, place all control levers in neutral, shut off the engine and remove the ignition key and allow all moving parts to stop before making any tractor cab adjustments.
3. To avoid injury, do not adjust, unblock the driving system, or service the cab with the tractor engine running. Make all moving parts have completely stopped before leaving the operator seat.
4. Keep the tractor/cab clean. Snow, dirt, or ice build-up can lead to malfunction or personal injury from thawing and refreezing in the garage.
5. Always wear eye protection when cleaning or servicing the cab.
6. DO NOT service the tractor while the engine is running or hot, or if the unit is in motion.

7. Always lower tractor attachments to the ground. If necessary to service attachments in raised position, securely support with stands or suitable blocking before working underneath.
8. Do not rely on hydraulically supported devices for your safety. They can settle suddenly, leak down, or be accidentally lowered.
9. Do not attempt to service machine, clear obstructions, or unclog drive system with the engine running. Always shut off engine and allow all motion to cease.
10. The manufacturer will not claim responsibility for fitment of unapproved parts and/or accessories and any damages as a result of their use.
11. Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
11. Do not modify or alter cab or any of its components or operating functions. If you have any questions concerning modifications, consult with your dealer.
12. Do not operate a cab that is defective or has missing parts. Make sure all
13. Recommended maintenance procedures are completed before operating cab.
14. Check all controls regularly and adjust where necessary. Make sure that the brakes are evenly adjusted.
15. Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts.
16. To avoid serious personal injury: Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
17. Stop engine and relieve pressure before connecting or disconnecting hydraulic hoses. Tighten all connections before starting engine or pressurizing hoses.
18. Ensure cab hinges are properly lubricated. If hinges are closing hard, or partially seized, lubrication is required. Remove door/escape window/side vent windows to grease each part of the hinge separately. This should occur semi-annually.

John Deere TLB 110

Standard Parts list

Item	Part Number	Description	Qty	Checked
1	801999	Behind Seat Shield (Upholstered)	1	
2	103149	Backhoe Center Platform	1	
3	802000	Cab Step Assembly	1	
4	802001	Left Front bracket	1	
5	802002	Right Front Bracket	1	
6	802003	Left Rear Bracket	1	
7	802004	Right Rear Bracket	1	
8	801967	LH Pedal Shield	1	
9	802005	Rear Cab Shield Assembly	1	
10	102224	RH Under Hood Shield	1	
11	103155	LH Under Hood Shield	1	
12.	103156	LH Pedal Shield	1	
13	103158	Rear Lift Bracket	2	
14	103159	Backhoe Cab Retainer	2	
15	103160	Rear Center Shield Mount	1	
16	103148	LH Pedal Floormat	1	
17	103150	Under Seat Upholstery	1	
18	103151	Cab Floormat	1	

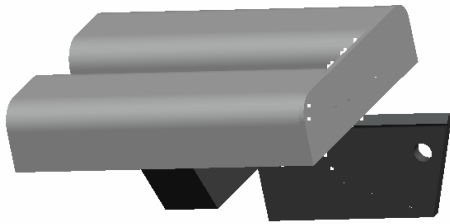


801999

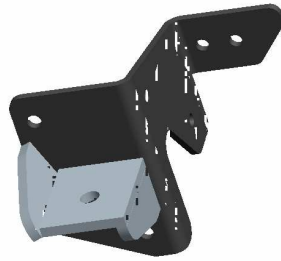


103149

Standard Parts list



802000



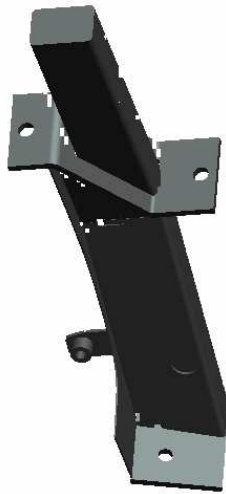
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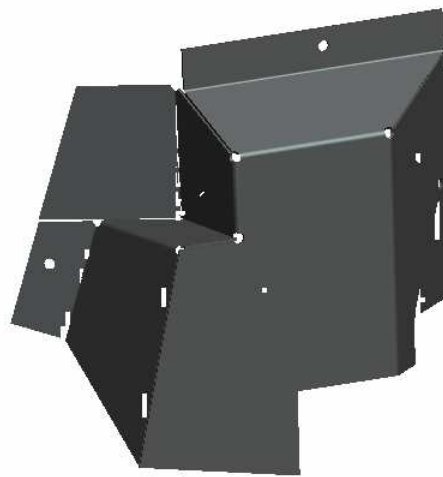
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802003



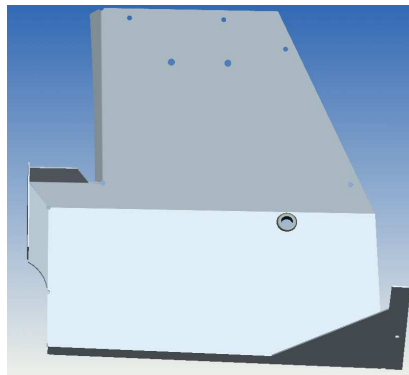
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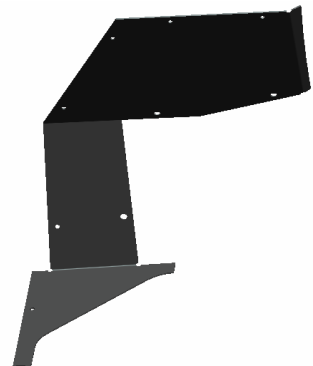
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802005

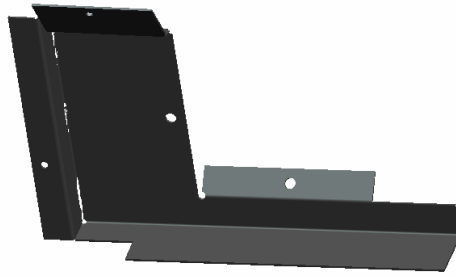


102224



103155

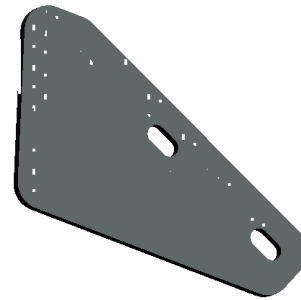
Standard Parts list



103156



103158



103159



103160



103151



103150



103148

Standard Parts list

Parts List:

Item	Part Number	Description	Qty	Checked
1	100114	Bolt, Hex, 5/8" x 3", NC, Grade 8	4	
2	100050	Nut, Hex, 5/8", NC, YD, grade 8	4	
3	100115	washer, 2 1/2"od x 11/16"id x 1/8" YD	4	
4	100046	Bushing, Step, 325D, 2 1/2"OD x 3/4"	4	
5	100047	Washer, Flat, 3/4" x 2 1/2", rubber	4	
6	101427	Bolt, Whiz, 1/4" x 3/4", Gr 5, ZP	20	
7	100223	Nut, flange, 1/4", NC, Macro Black	20	
8	100056	Bolt, Hex, 1/2" x 2"	4	
9	102802	Nut, Flange, Lock, Nylon, NC, YD, 1/2", Gr 5	4	
10	100668	Bolt, flange, 3/8" x 3/4" NC, YD, gr 5	6	
11	102737	Nut, Flange, YD, 3/8"	4	
12	102058	Knob, 4-Lobe, screw thumb black 1/4" x 1"	4	
13	100042	Nut, panel, 1/4"-20, retainer, Extruded	4	
14	100478	Plug, Hole, 3/8"ID x .125	2	
15	101334	Cab Lift Brackets, 2" Tube	2	
16		O-Rubber, Clip-on, 180°, 1/16" Throat (single)	37 LF	
17		NDAX, 1" x 1"	3LF	
18		O-rubber, Clip-on , 90° , 1/16" Throat (Single)	6 LF	

Optional Parts Lists

Electrical Connectors List:

Item	Part Number	Description	Qty	Checked
1	102205	Ring, Terminal, 12-10 GA, 1/4" Stud	2	
2	102206	Ring, Terminal, 12-10 GA, 1/2" Stud	1	
3	102668	Terminal, Ring 10-12 GA.. 3/8"Stud	1	
4	102204	Connector, Splicer, 18-14 GA, Self Stripping	1	

Optional Parts Lists

A/C parts

Item	Part number	Description	QTY	Checked
1	103161	Compressor Bracket	1	
2	103162	Belt Tightener Mount	1	
3	102722	Compressor belt , Belt , 31/64" x 47-7/8"	1	
4	103152	Alternator belt , 31/64" x 45-3/8"	1	
5	103165	Belt Tightner	1	
6	103166	Alternator Spacer with A/C	1	
7	101632	Bolt, Hex Cap, M10 x 35mm yd	3	
8	100020	Nut, Flange, M10 x 1.5, YD	3	
9	103154	Bolt, M10 x 50 x 1.5, Gr 10.9 , flange YD	1	
10	102095	Fan, Extension	1	
11	100007	Bolt, Flange, M6 x 25 x 1, yd	4	
12	101859	Pump, Compressor, Air Conditioning, top port	1	



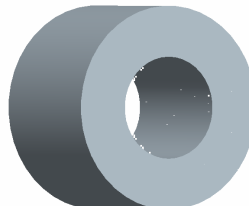
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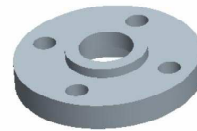
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103165



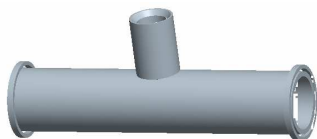
103166



102095

Heater Parts

Item	Part Number	Description	Qty	Checked
1	103157	Radiator Hose Splicer	1	
2	102736	Fitting, 3/8"MPT,x 5/8" HB 45 Degree	1	
3	101200	Clamp, Hose, 3/8"-7/16" (#6)	2	
4	101199	Clamp, Hose, HS20	2	
5	101489	Elbow, 3/8"MPT x 5/8"HB	1	



103157

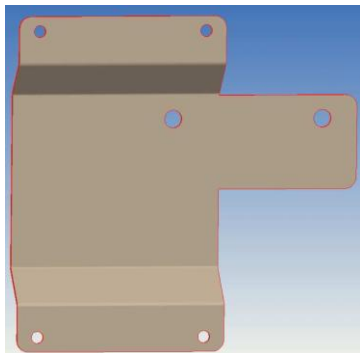
Optional Parts Lists

Front Washer Tank

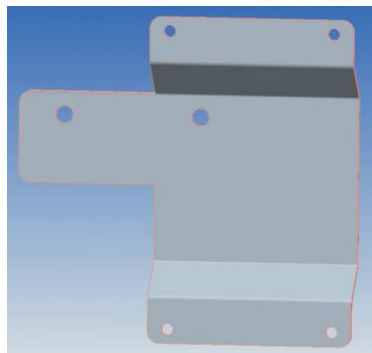
Item	Part Number	Description	Qty
1	102621	Disconnect,Quick,16-14 Ga	2
2	100220	Washer, Tank,Small W/Pump	1
3	100278	Bolt Flange,1/4" x 1/2"	4
4	100223	Nut,Flange,1/4"	4
5	103050	Washer Tank Front	1
6	100207	Bolt Flange , 3/8" x 1"	2
7	102737	Nut,Flange,YD,3/8"	2

Rear Washer Tank

Item	Part Number	Description	Qty
1	102621	Disconnect,Quick,16-14 Ga	2
2	100220	Washer, Tank,Small W/Pump	1
3	100278	Bolt Flange,1/4" x 1/2"	4
4	100223	Nut,Flange,1/4"	4
5	103214	Washer Tank rear	1
6	100207	Bolt Flange , 3/8" x 1"	2
7	102737	Nut,Flange,YD,3/8"	2

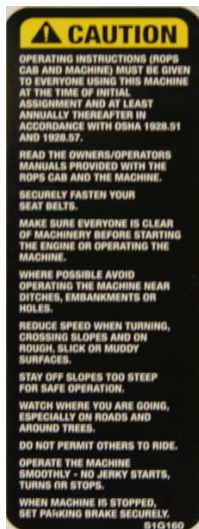


103050



103214

Replace decals immediately if damaged or missing.



Part No. SIG 160
Located on right C-post



Part No. SIG 161
Located on left C-post

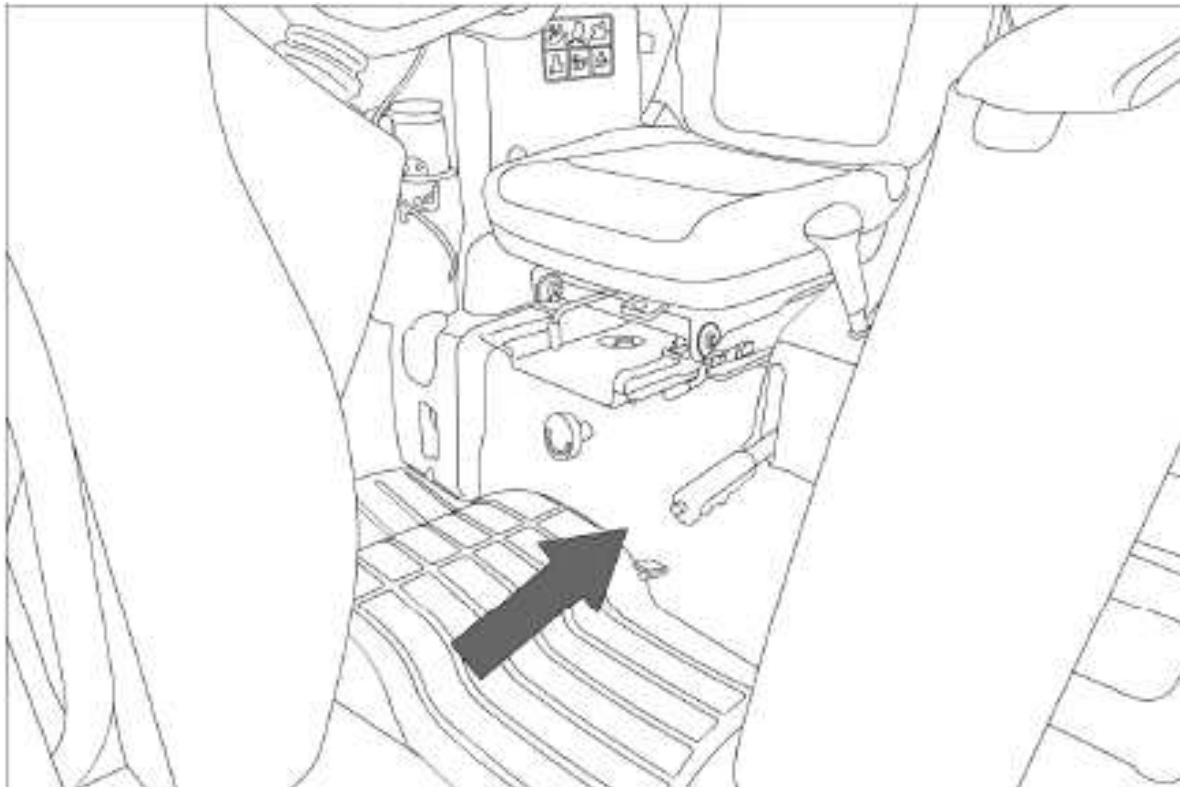


Part No: SIG 148
Located on left B-post

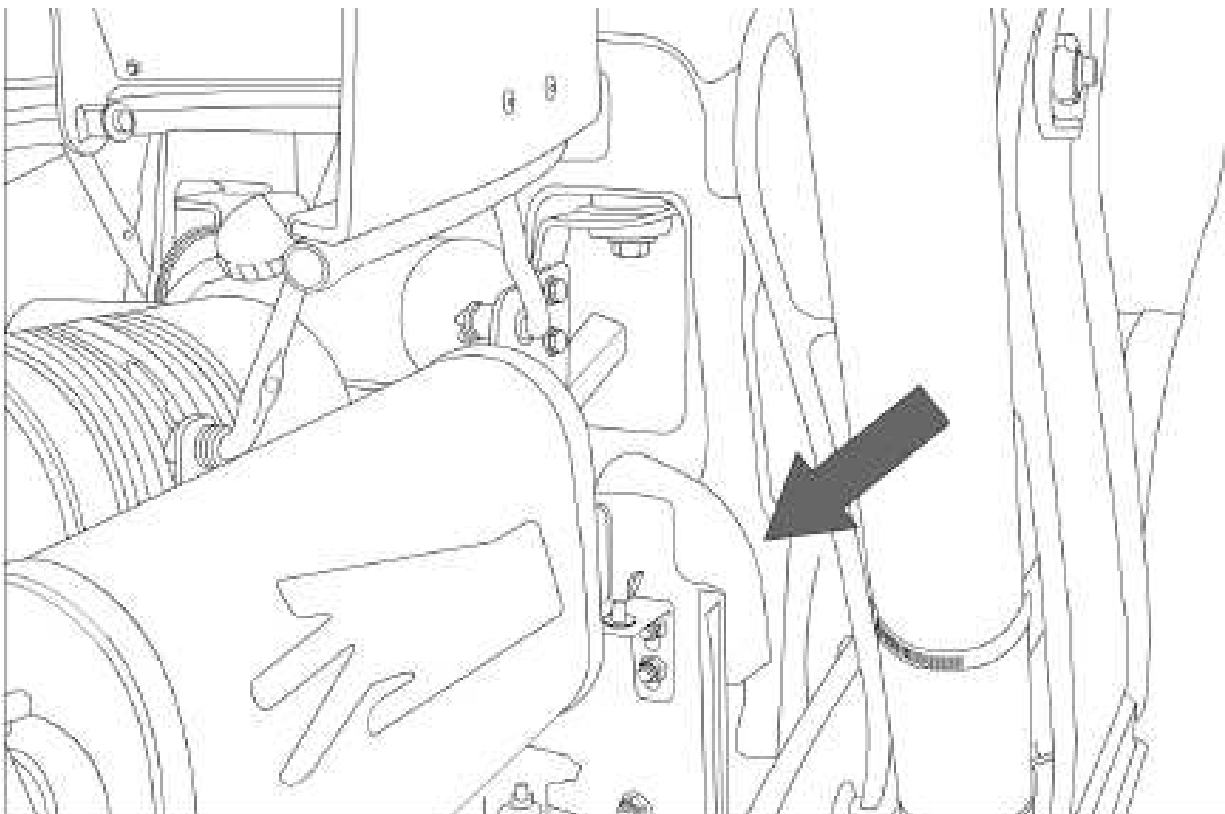
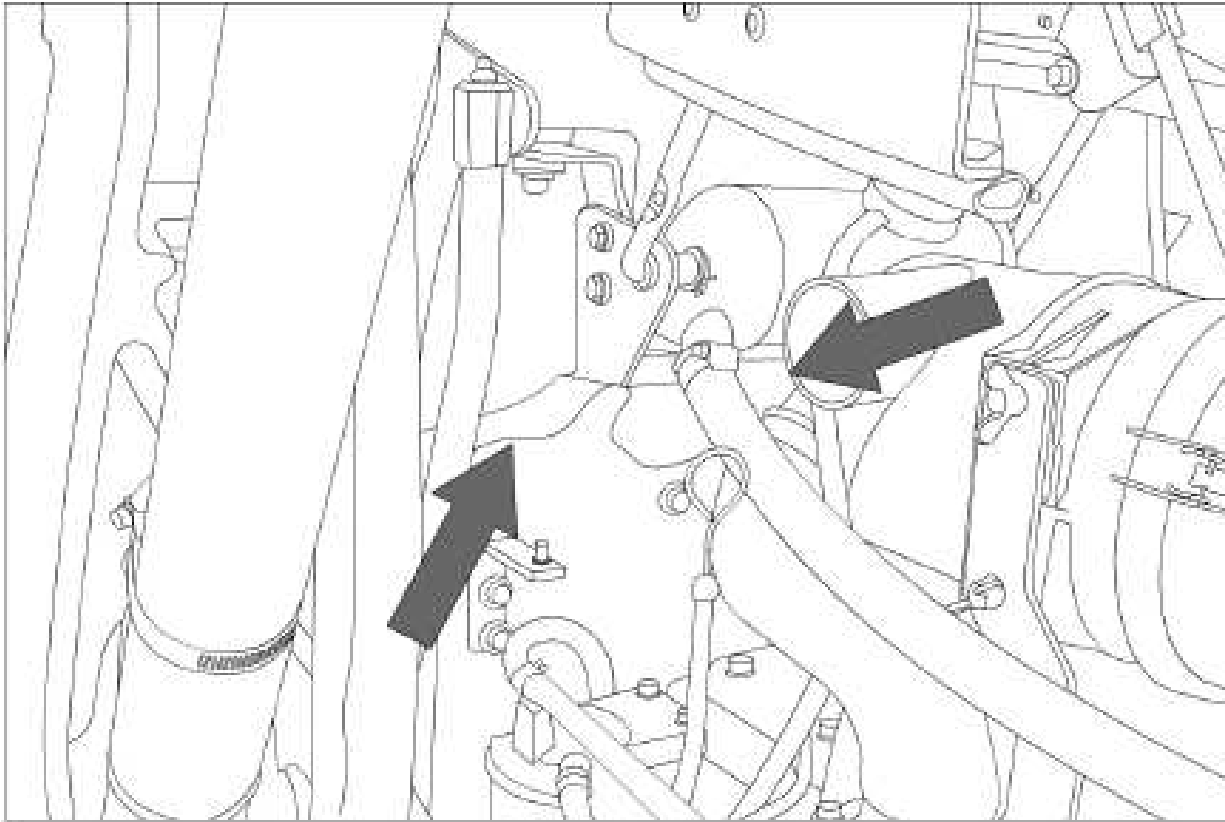
CAB MOUNTING INSTRUCTIONS

Step 1. Ensure back hoe is lowered and loader is lowered. Remove the factory 4 -post ROPS and roof assembly from the tractor and disconnect the wiring harness for the lights. Remove the seat and seat tracks from operator

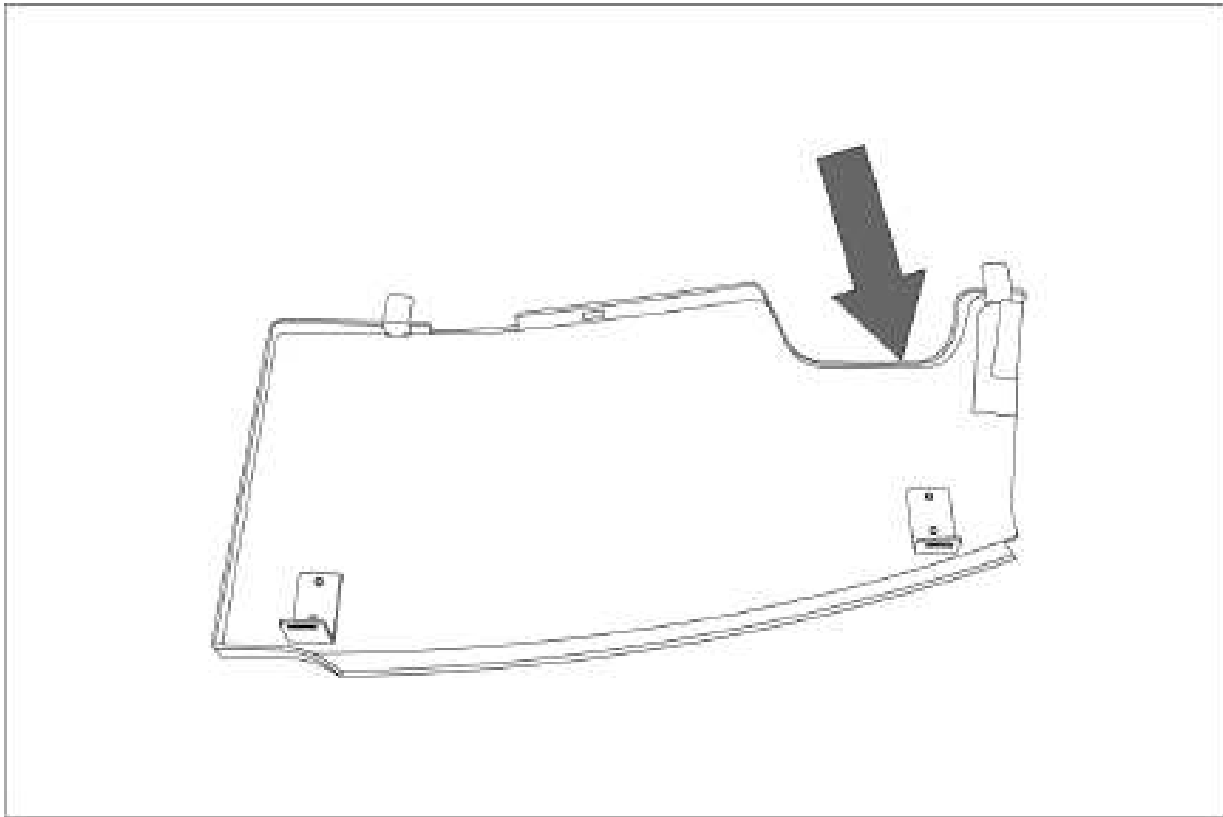
Step 2. Take the under-seat upholstery and place onto the seat plate. Glue into place. Re -install seat and seat tracks.



Step 3. Take the provided 1" NDAX and seal the holes under the fuel tank

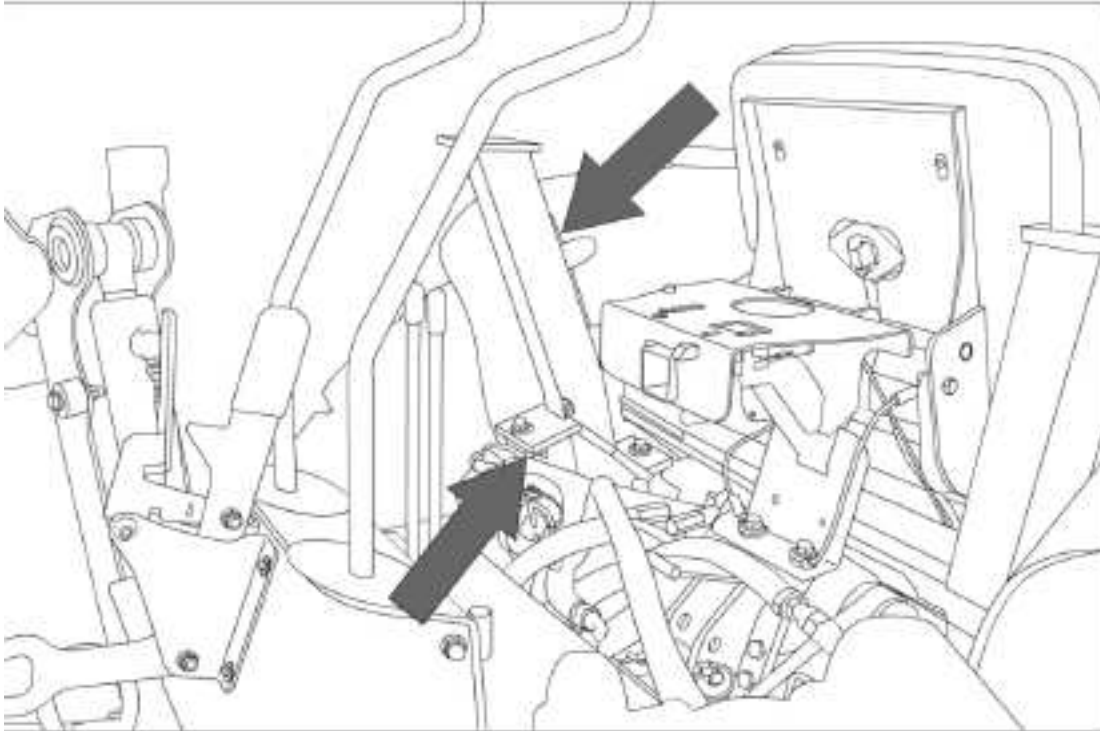


Step 4. If cab is equipped with air conditioner option, is necessary to modify the right engine cover slightly. Notch the opening slightly more.

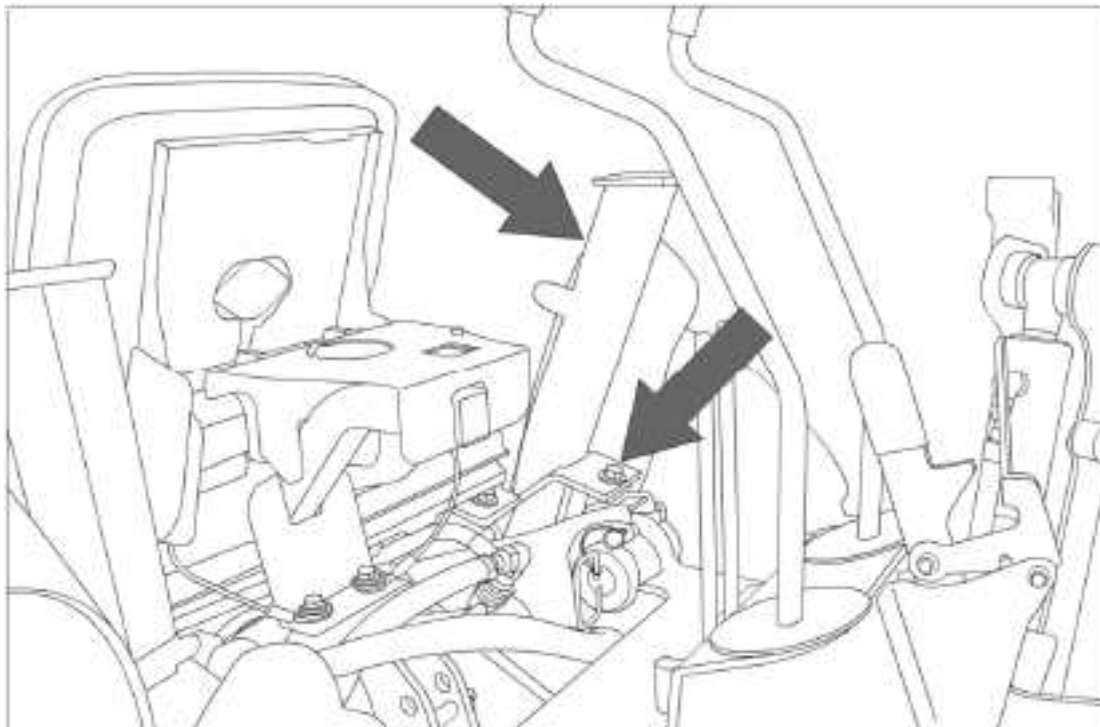


Step 5. Loosen the support brace between the rear ROPS fasteners on the tractor in order to install the cab rear brackets.

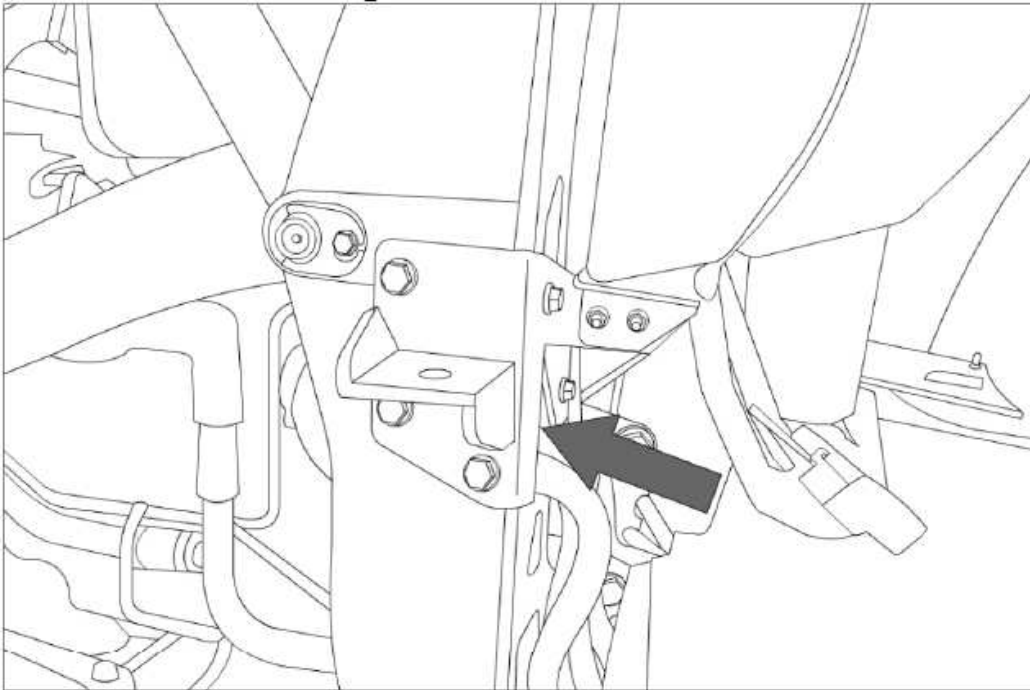
Step 6. Take the left rear bracket and install O-rubber on the inside sheet metal edge. Slide the rear bracket into the left rear ROPS mount and fasten into place with the factory fasteners. Do not tighten.



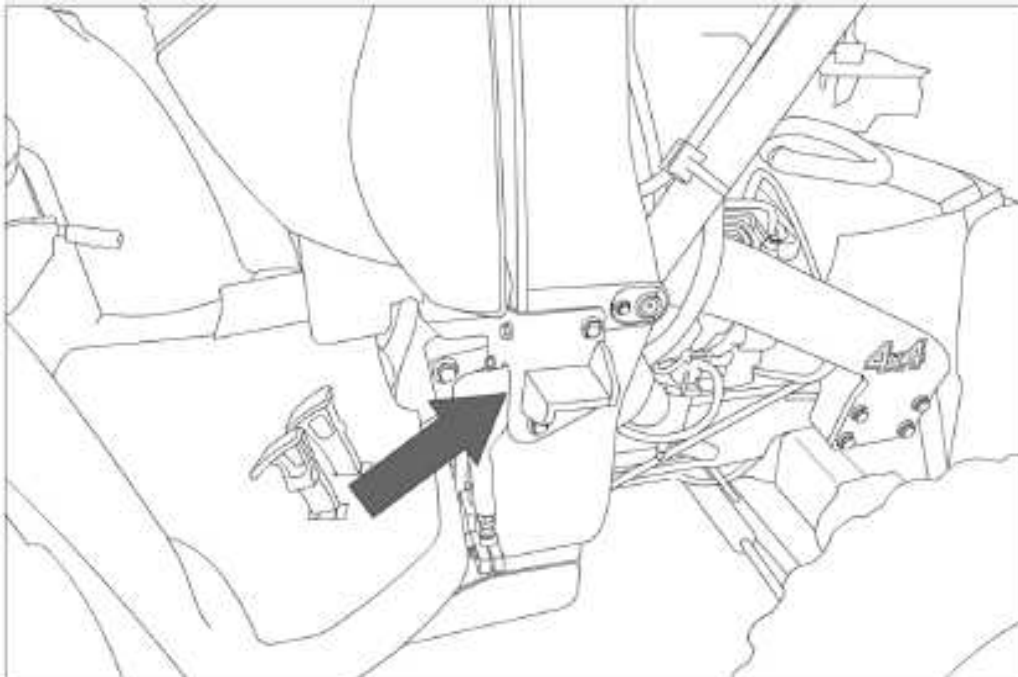
Step 7. Repeat step 3 for the right rear bracket.



Step 8. Support the fuel tank and remove the left ROPS mount off of the loader pedestal. Take the front left cab bracket and bolt into place with the ROPS fasteners. Do not tighten.

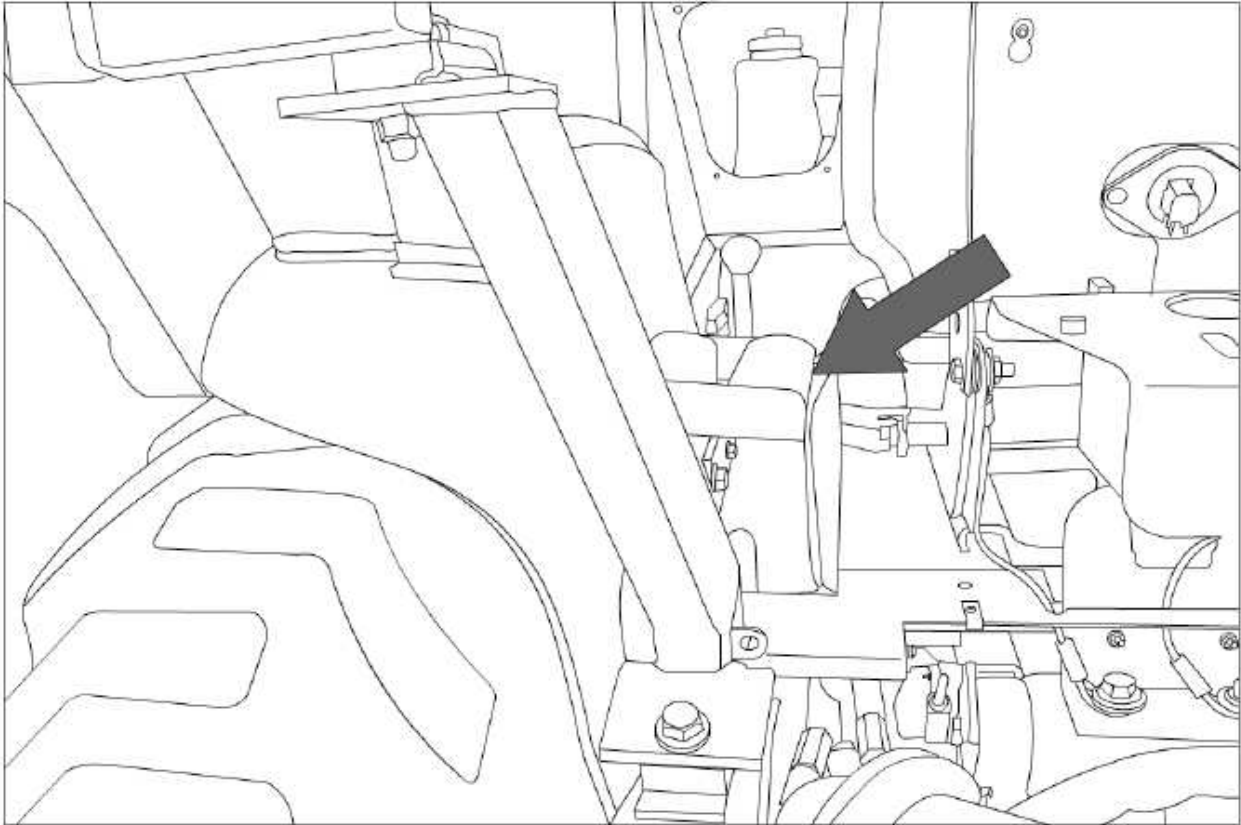


Step 9. Repeat step 5 for the right front bracket.

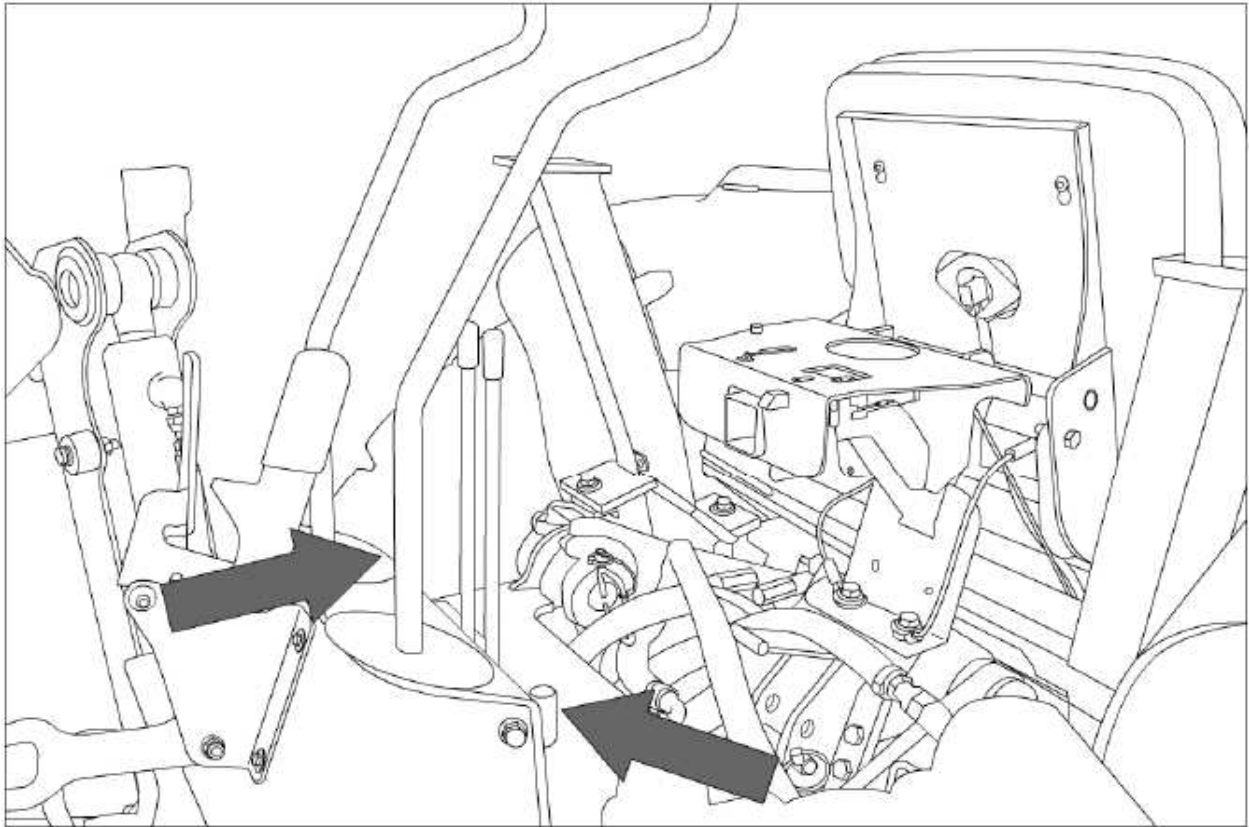


Step 10. Remove the canopy from the 4-post ROPS carefully. Take the cab roof support from off of the cab frame and install the roof on the cab roof support. Then install the roof onto the cab.

Step 11. Take the interior cab step bracket and bolt it onto the left rear cab bracket with the provided $\frac{3}{8}$ " x $\frac{3}{4}$ " flange bolts.



Step 12. Using a saw, cut off the rail on the back hoe controls.



Step 13. Take the roof mounting bracket off the top of the cab, fasteners will be re-used.

Step 14. Take the factory 4-post ROPS roof and take the roof mounting bracket and fasten to each other with the ROPS original fasteners except for the middle two.

Step 15. Locate the two roof lifting brackets and attach to the middle roof mounts.

Step 16. Using a chain or lifting strap attached to the lift brackets raise the roof over the cab and fasten into place the bolts provided.

Step 17. Route the electrical harness for the roof lighting through the cab rear right C-post.

Step 18. Remove the cab door, escape window, lower right window, and rear window if installed. Remove the condenser assembly off of the mounting brackets and cover the hose temporarily if equipped.

Step 19. Take the cab lifting brackets provided and attach to the cab through the holes in the upper A-C crossmember. Attach a lifting strap or chain to the brackets and lift cab off of shipping pallet.

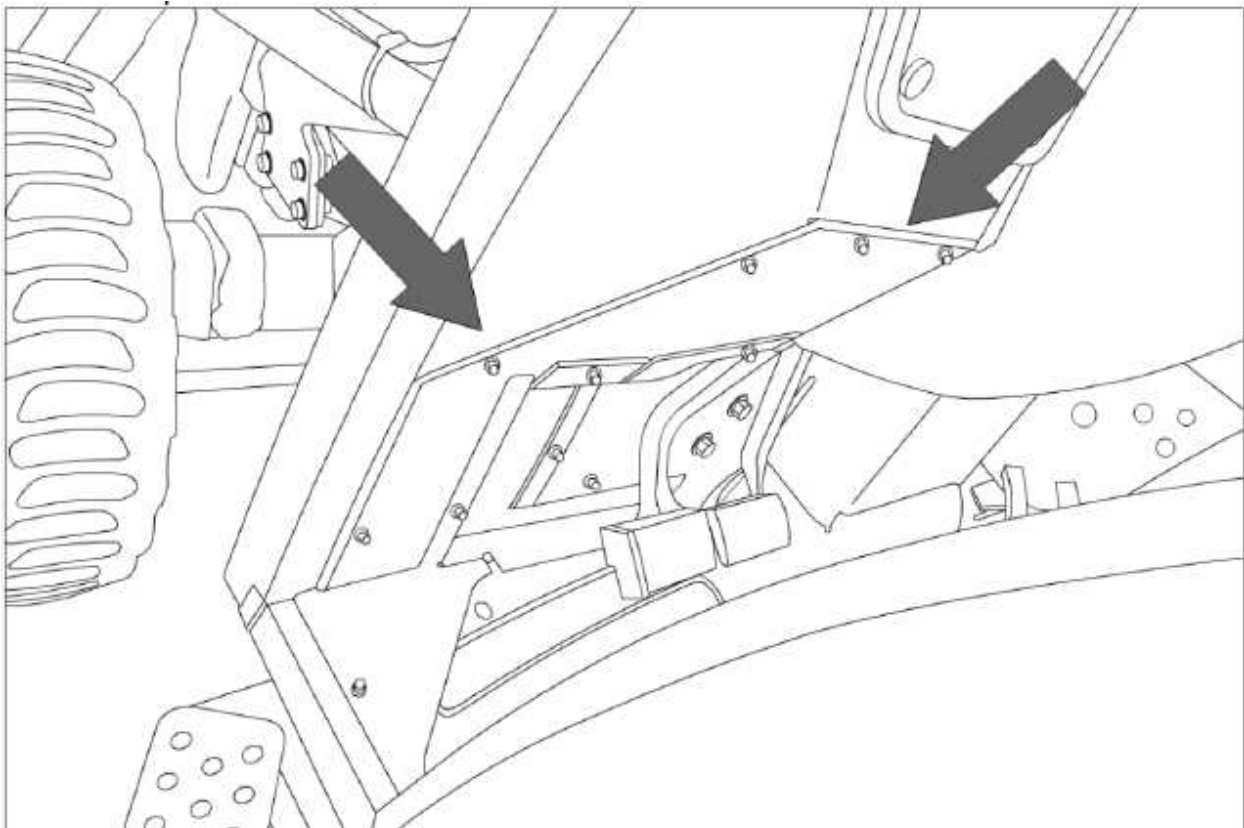
Step 20. Raise the cab slightly in order to install the cab weather stripping as shown in the attached drawing. Remove the left and right cab sheet-metal composite mount panels.

Step 21. Place one rubber isolator onto each bracket mount plate. Lift cab straight over tractor and slowly lower down onto cab mounts.

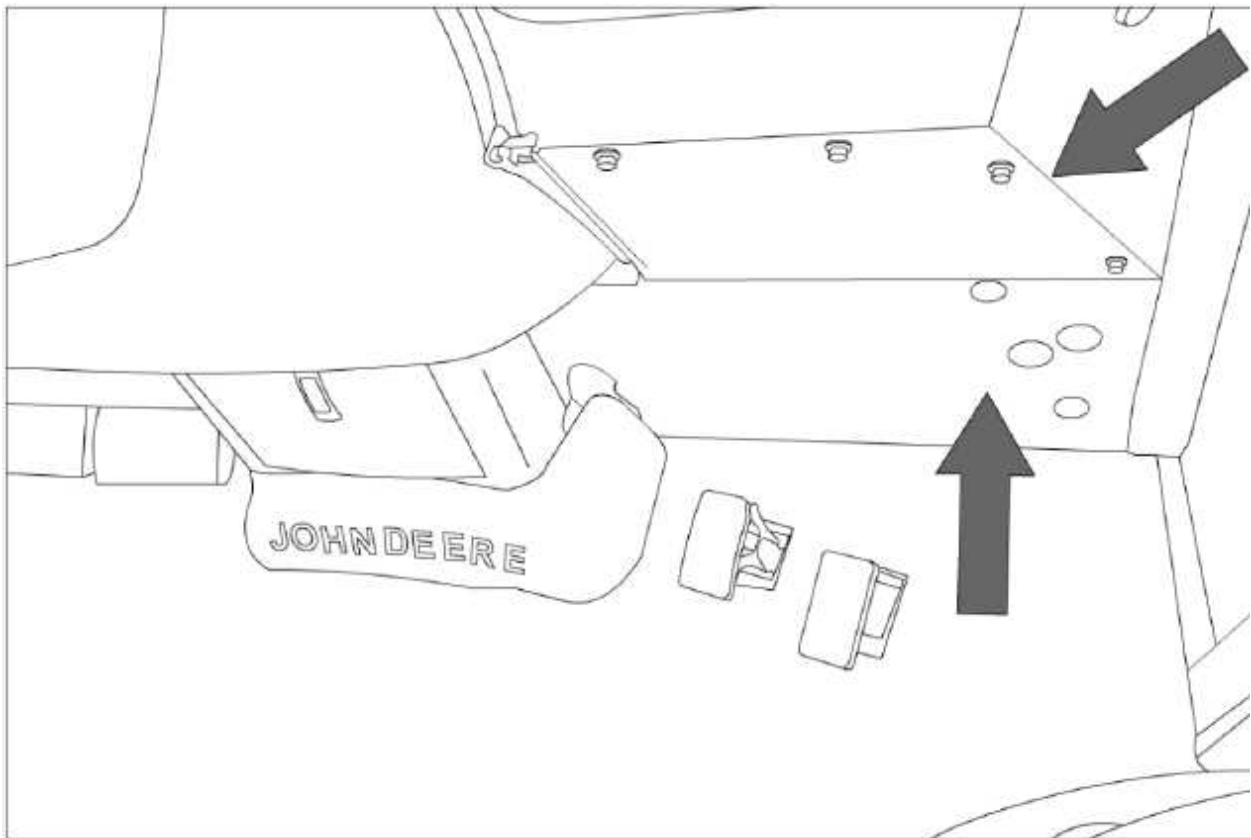
Step 22. Use the bolt alignment schematic to get the fasteners started. Once all fasteners are started, torque the mounts until there is a 7/8" space between the steel mount plates.

Step 23. Torque the cab brackets to specification. (see last page)

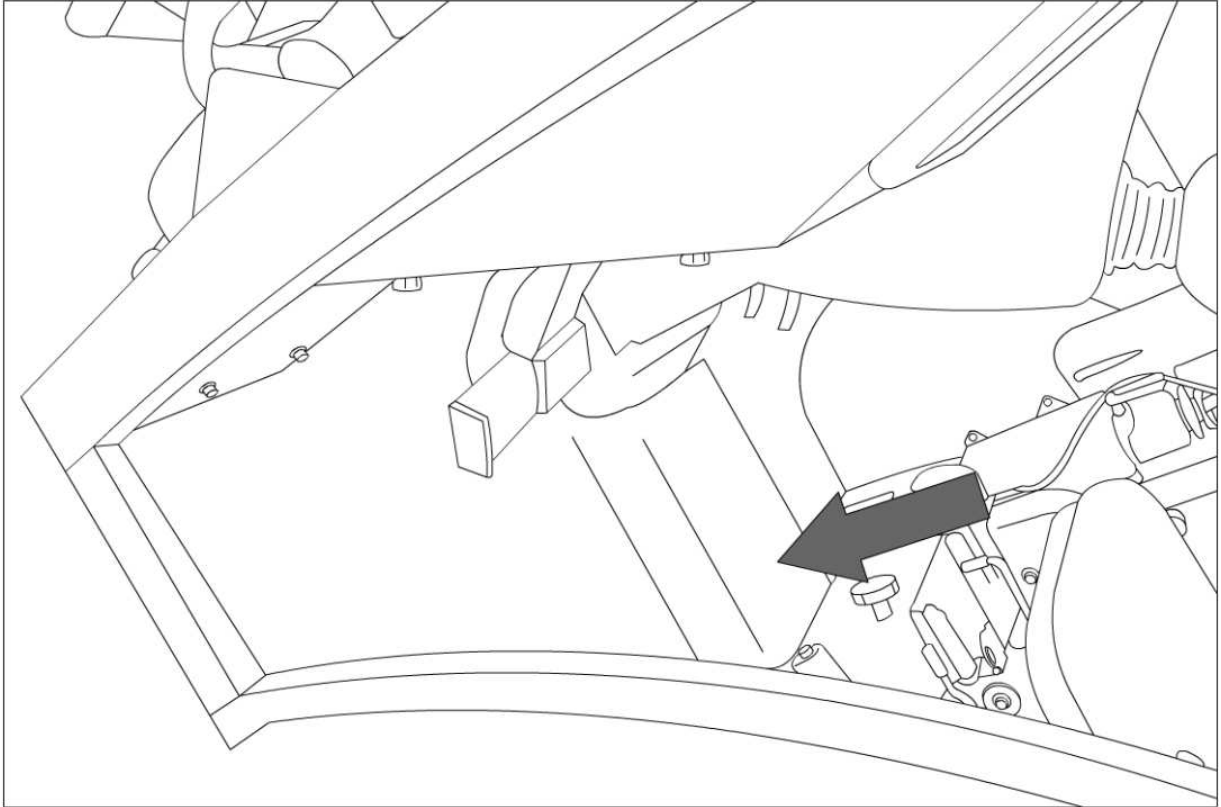
Step 24. Take the three lower left front shields and install onto cab with fasteners provided.



Step 25. Take the lower right front shield and bolt onto cab with fasteners provided.



Step 26. Take the cab floormat and position on the operator platform. Glue into place.



Step 27. Locate the red, black and orange wire at the bottom of the right Apost. Connect the red wire to constant 12V, the black wire to tractor ground, and the orange wire to a switched source on the tractor.

Step 28. Re-install the left and right cab sheet-metal composite mount

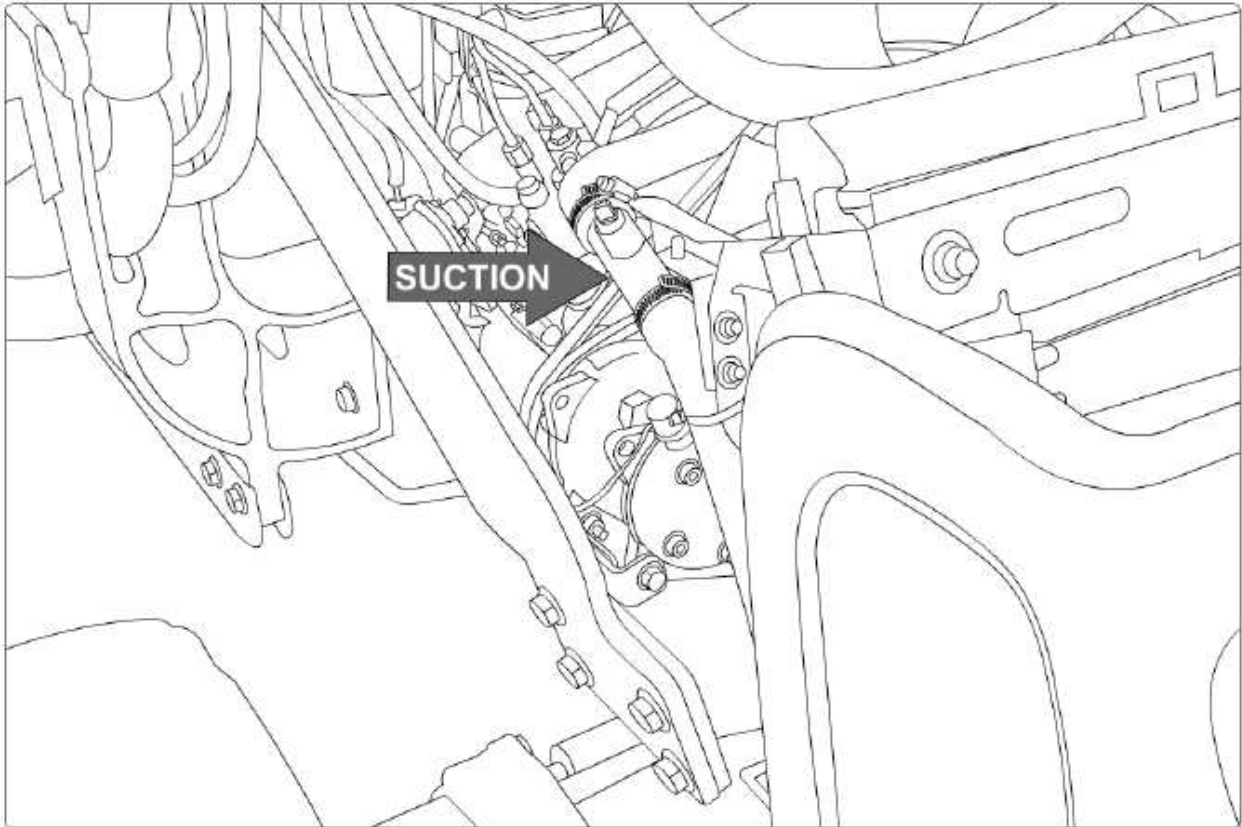
Step 29. Re-connect the roof lighting harness to the tractor.

Step 30. Re-install the lower right window and the condenser if equipped.

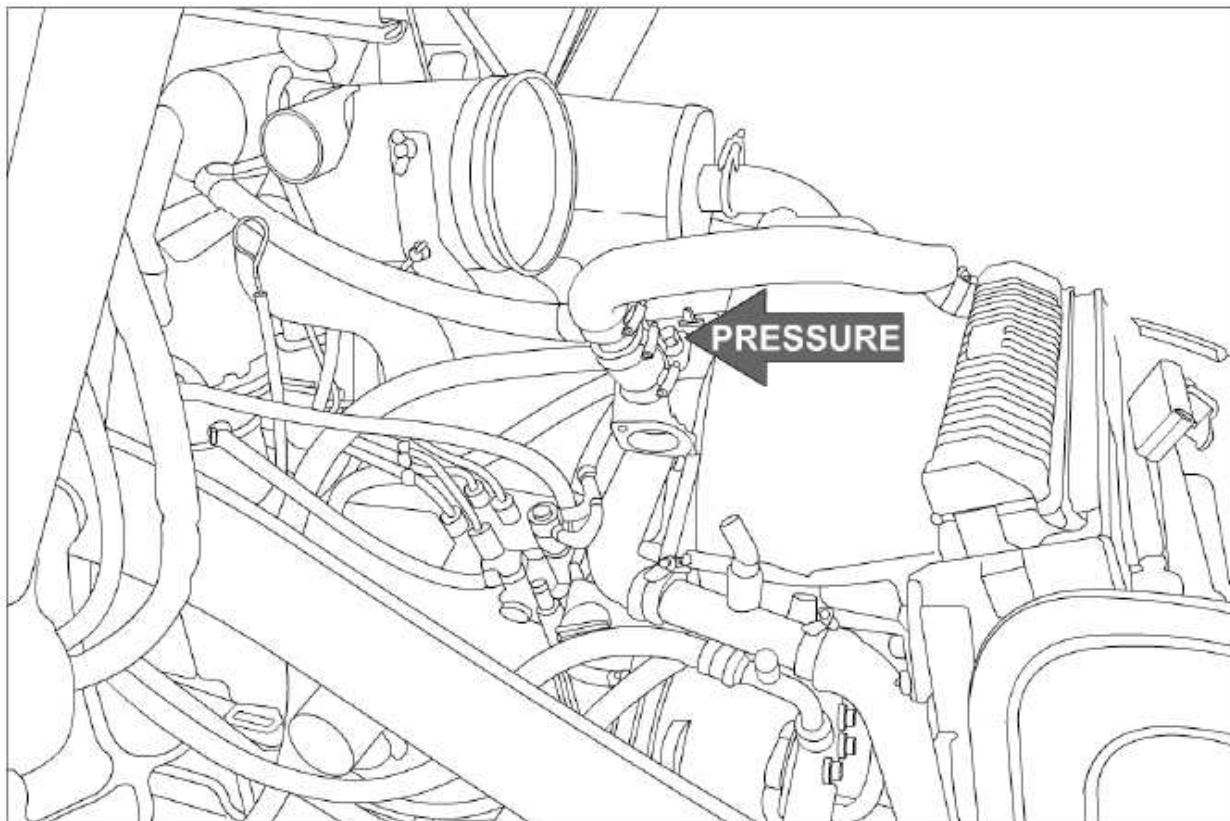
HEATER/AC INSTALLATION

Step 31. Drain engine coolant.

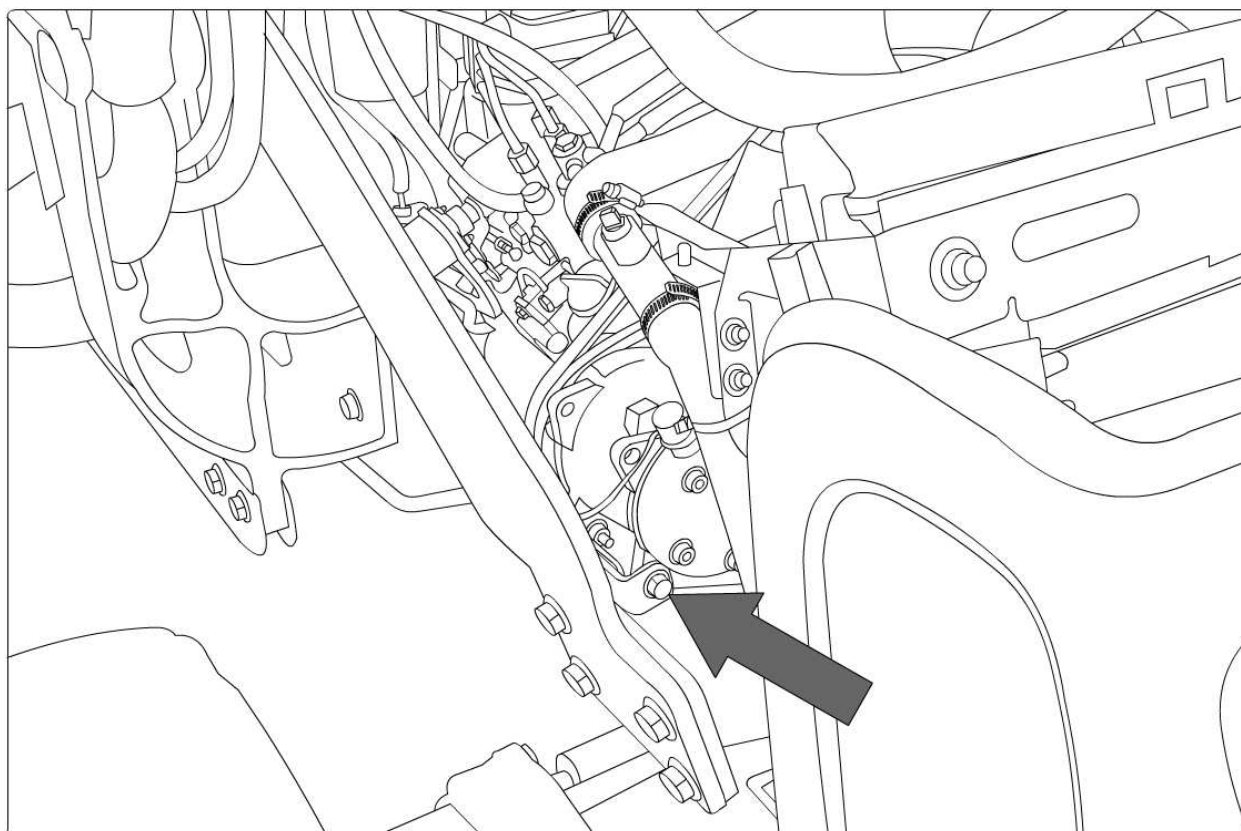
Step 32. Locate the lower radiator hose and cut it in the area shown in order to install the long tee along with a 3/8NPT x 135 degree 5/8" barb fitting for the SUCTION heater connection.



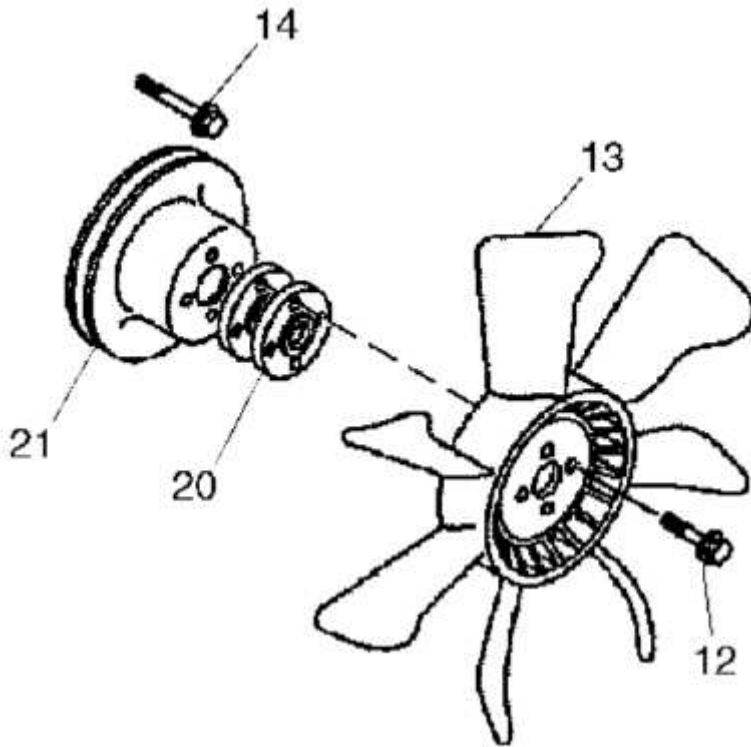
Step 33. Locate the plug on the right side of the thermostat housing and install a 3/8NPT x 5/8" Barb elbow fitting. This is the PRESSURE fitting.



Step 34. Take the compressor bracket and mount it onto the right loader support bracket.



Step 35. Remove the fan from the engine. Take the supplied fan spacer and add it to the existing fan spacer and then reinstall the fan with the provided M6 x 25mm Flange bolts.



Step 36. Remove the main drive belt.

Step 37. Remove the alternator and then remove mounting stud.

Step 38. Use provided spacer and 11/16 tube bracer and M10 X 50mm flange bolt and install alternator in original location.

Step 39. Take the compressor and fasten onto mounting bracket with provided M10 X 35mm flange bolts and nuts.

Step 40. Install the compressor tighter onto the compressor mounting bracket.

Step 41. Route the two new belts and install.

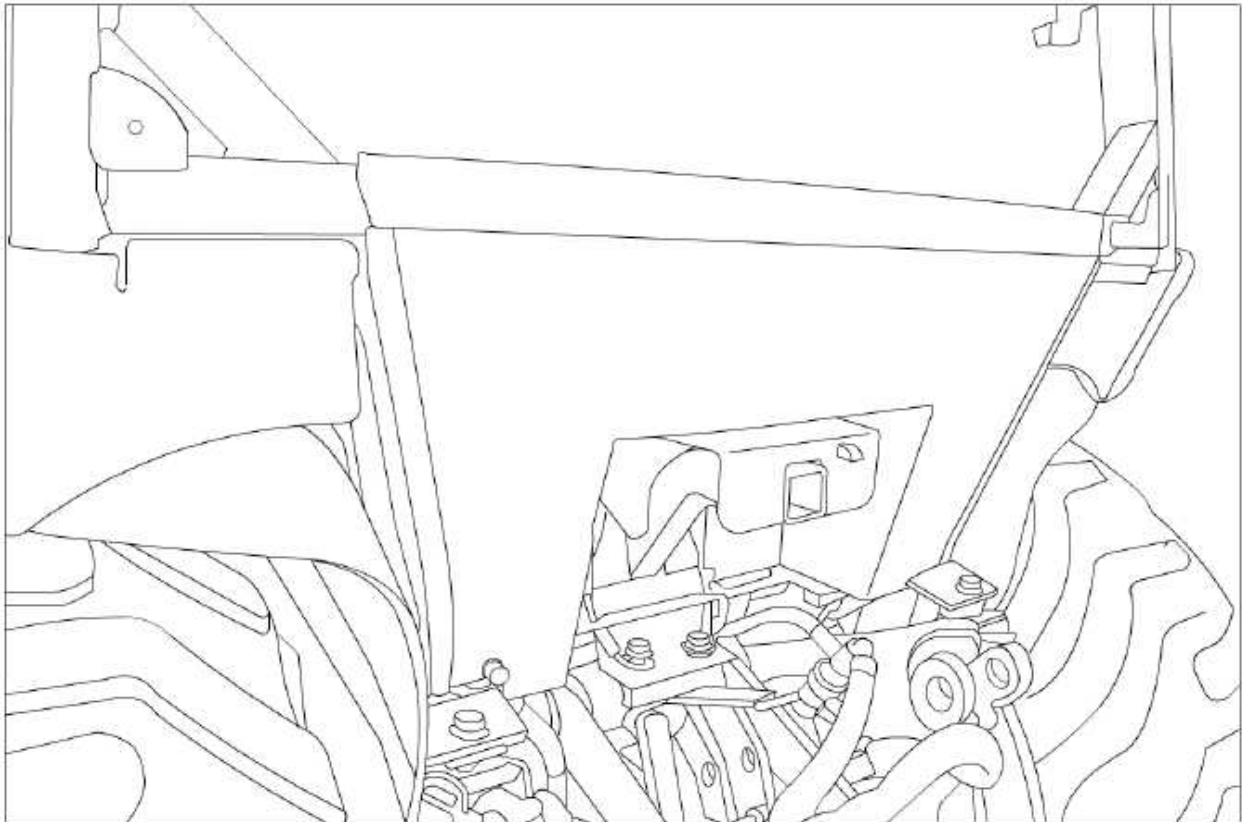
Step 42. Connect the compressor to the hoses provided at base of C-post on right side.

Step 43. Fill engine antifreeze and prepare to charge heater.

Step 44. Open the radiator cap and place a funnel with engine coolant over radiator. Run the engine at high RPM so that the thermostat opens a few times in order to completely pressurize the heater. The heater should provide HOT air once the air has been purged from the system.

***NOTE - If the backhoe is not installed, follow steps 45 and 46 to provide sealed base cab.**

Step 45. Take the large rear shield and position over the rear cab crossmembers and over back-hoe seat. Install O-rubber onto the outer sides where it will seal over the rear cab brackets. Fasten into place with provided fasteners.



Step 46. Take the rear cab window and install onto the window mounts with the provided fasteners.

***NOTE - If the backhoe is not installed, follow steps 47 to 56 to provide sealed provide a sealed 'double-cab'.**

Step 47. Ensure the backhoe is connected to the tractor during the first installation.

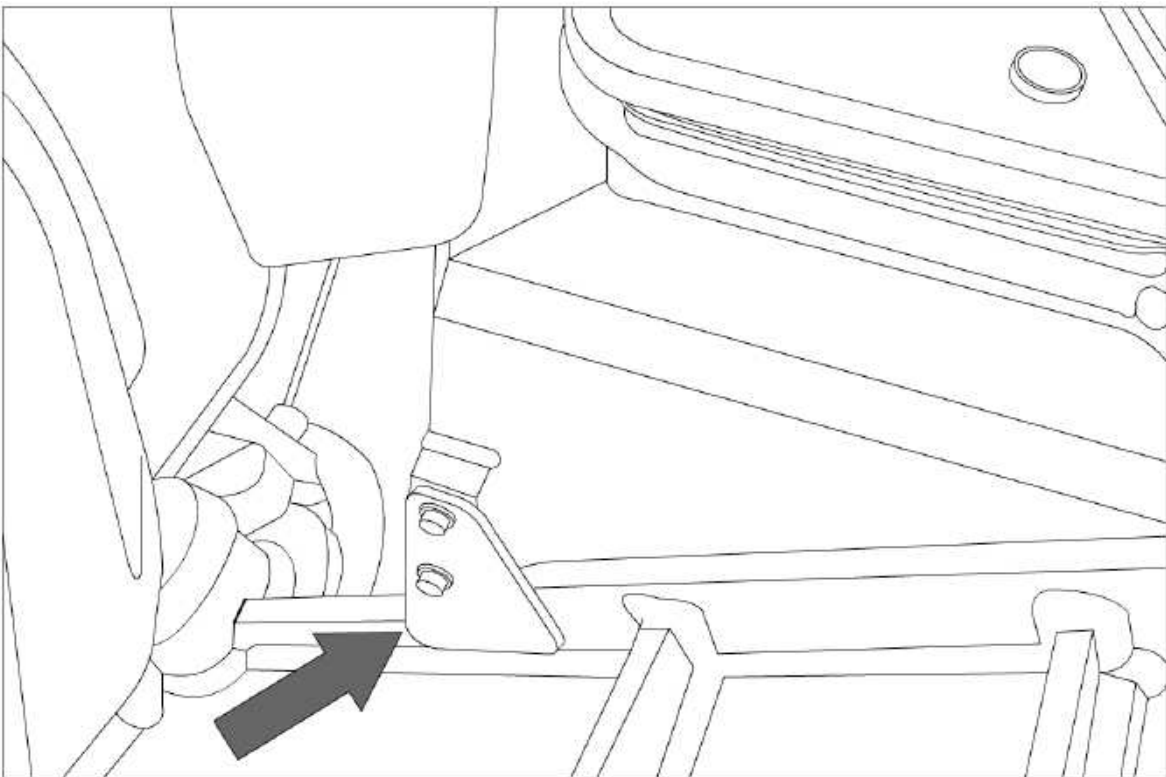
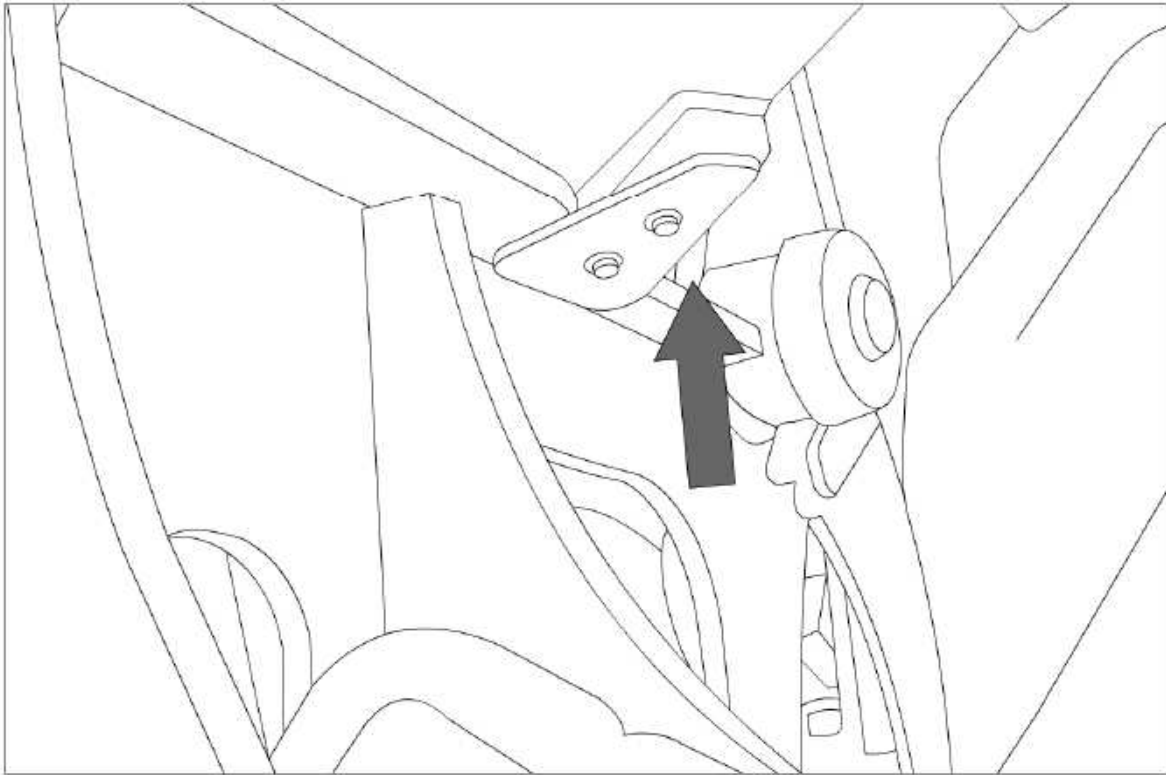
Step 48. Lift the back hoe cab off of the shipping pallet.

Step 49. Install o-rubber onto the frame as shown in the attached page.

Step 50. Position the back hoe cab over the back hoe platform and slowly lower down. It is necessary to tuck the cab underneath the cab during the installation so proceed slowly with precaution.

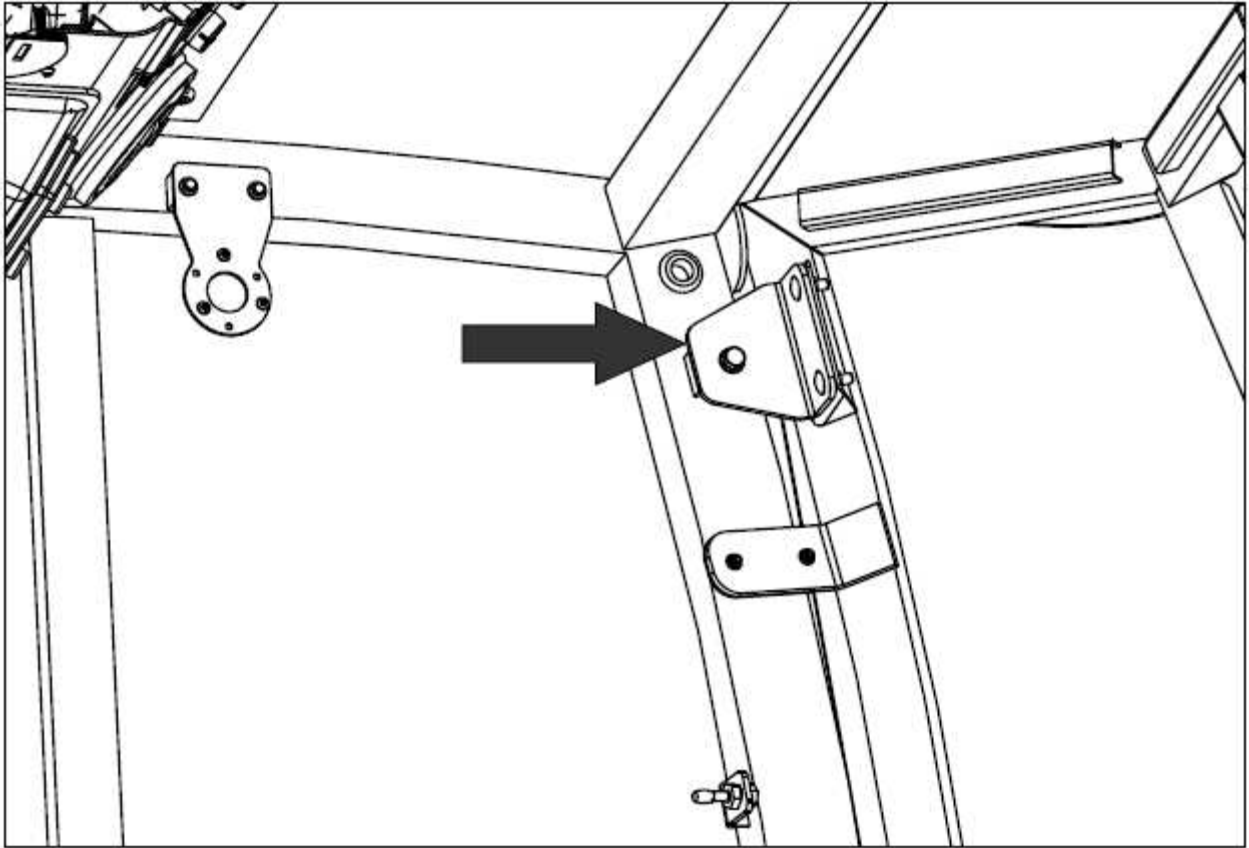
Step 51. Once the cab is lowered onto the platform, ensure that is slid all the way against the tractor cab.

Step 52. Take the provided mount plates and fasteners and fasten the backhoe cab to the backhoe platform.



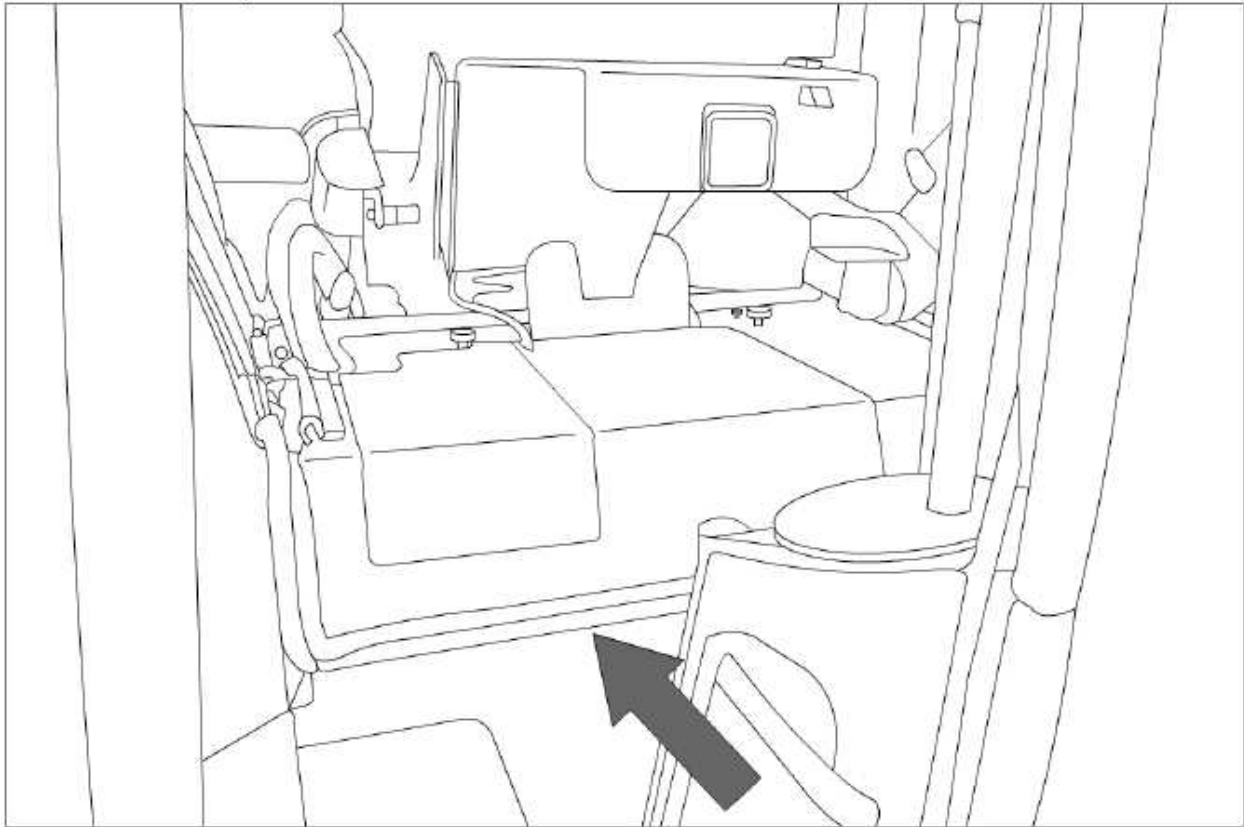
Step 53. Fasten the rear of the cab down through the holes in the platform near the centre controls.

Step 54. Attach backhoe assembly to the main cab, with the hardware provided.

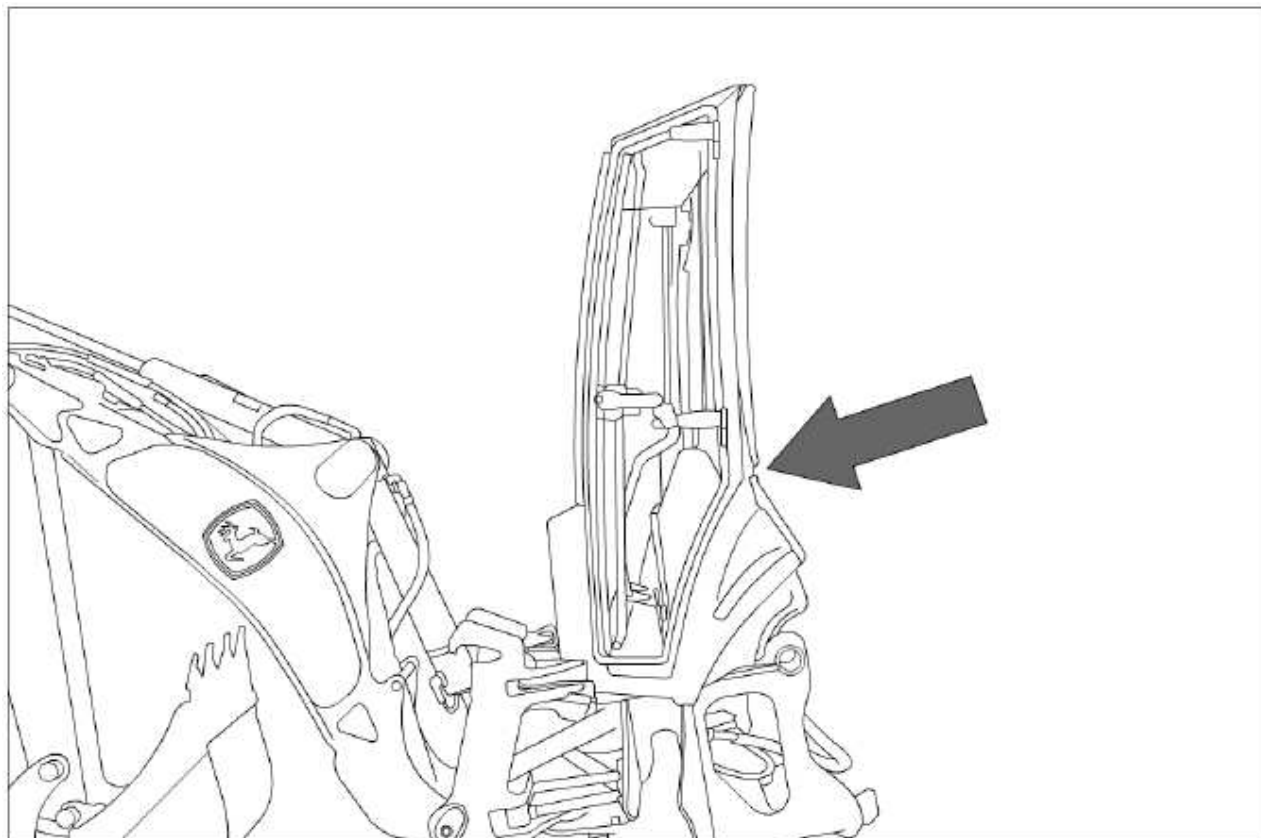


Step 55. Take the centre sealing panel and position it over the controls and fasten into place with the $\frac{1}{4}$ " x $\frac{3}{4}$ " flange bolts and nuts provided.

Step 56. Take the under backhoe seat shield and position under the seat and fasten into place.

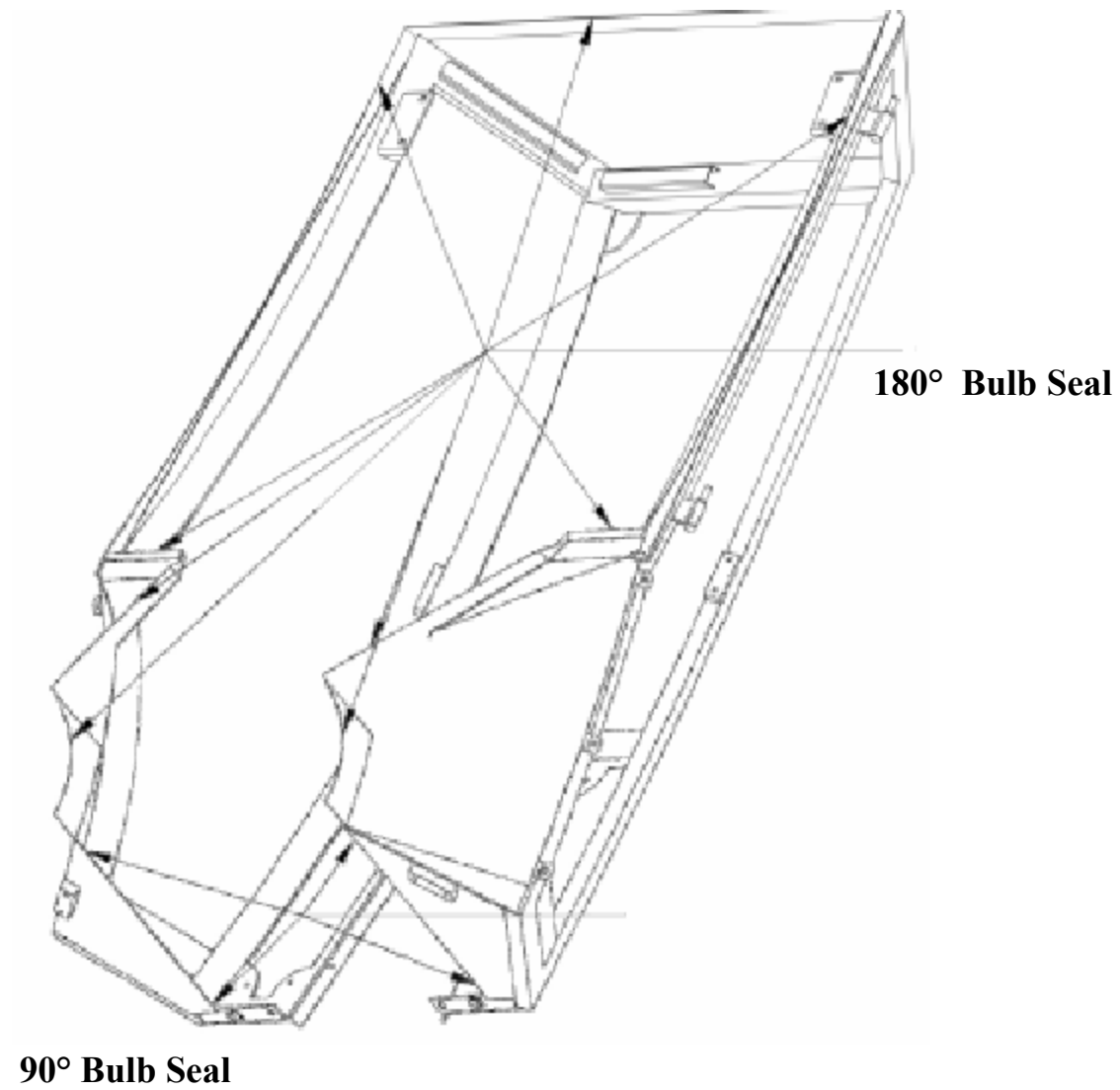


***NOTE - In order to switch between cab configurations, the backhoe cab stays fastened to the backhoe platform. Remove the bottom shield in order to access backhoe removal pins, and then slowly remove backhoe from tractor and then install base cab shields.**



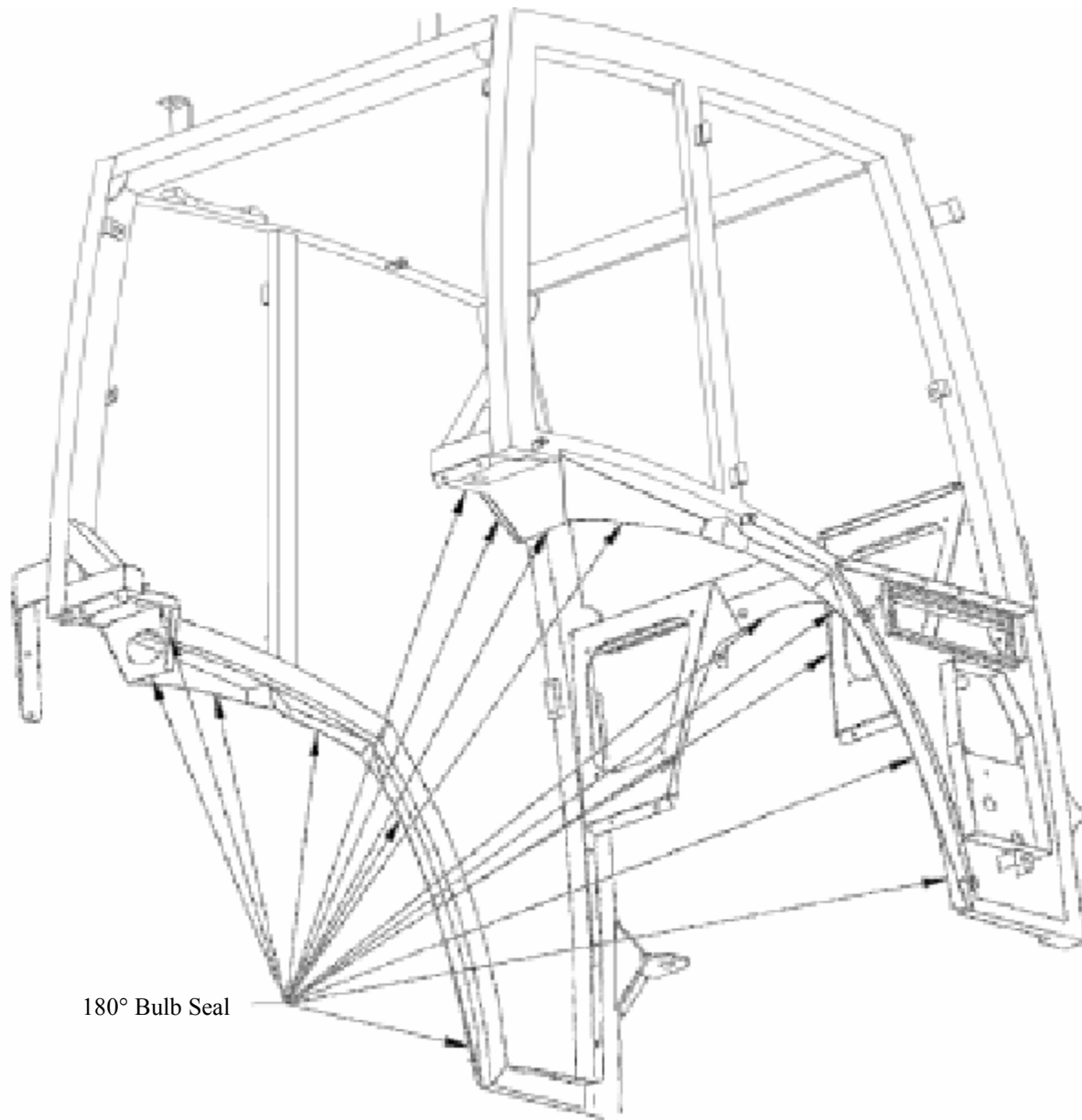
BULB SEAL SCHEMATICS

Backhoe Bulb Seal Assembly



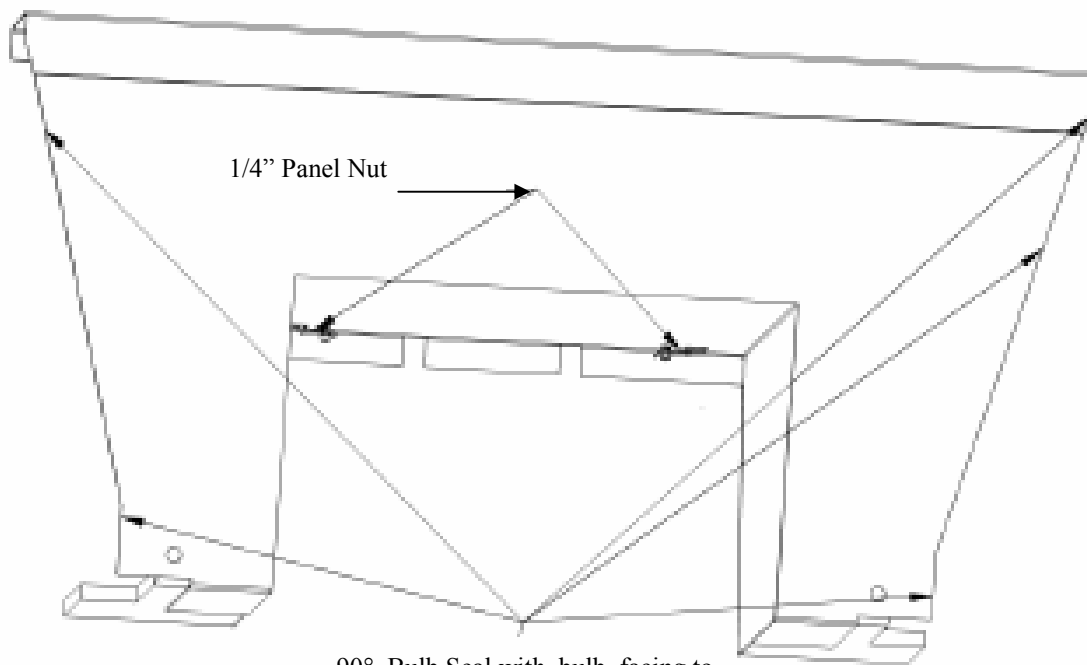
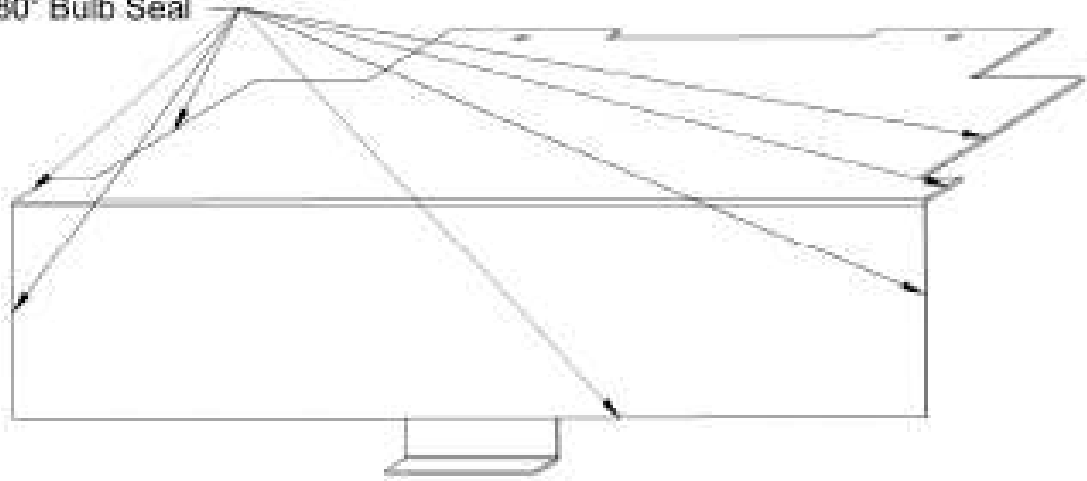
BULB SEAL SCHEMATICS

Cab Bulb Seal Assembly



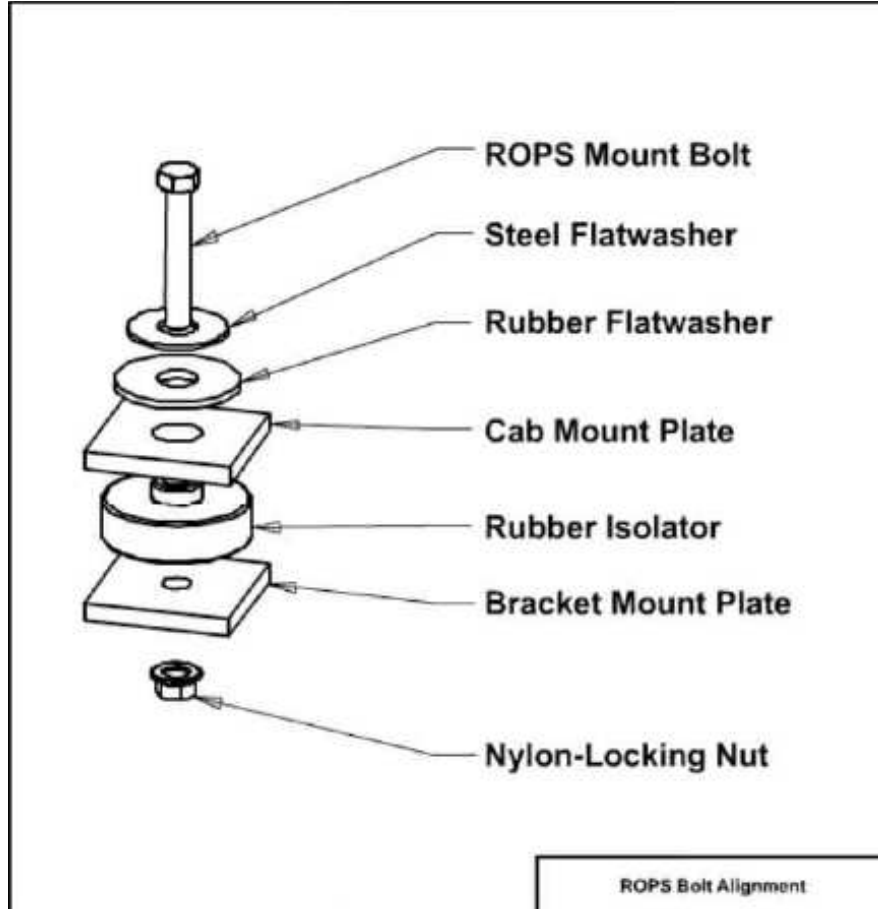
103149

180° Bulb Seal



90° Bulb Seal with bulb facing to other side

Bolt Hole Alignment Schematic



Size	SAE Grade 8 Gold
*1/4"	*157 (18)
*5/16"	*324 (37)
3/8"	48 (65)
7/16"	77 (104)
1/2"	117 (159)
9/16"	169 (2290)
5/8"	233 (316)
3/4"	413 (560)
7/8"	667 (904)
Size	Grade 8 Metric Hardware and Locknuts
M10	58 (79)
M12	102 (138)
M16	254 (344)

Note: Torque values shown with * are inch-pounds

CAB OPERATING INSTRUCTIONS

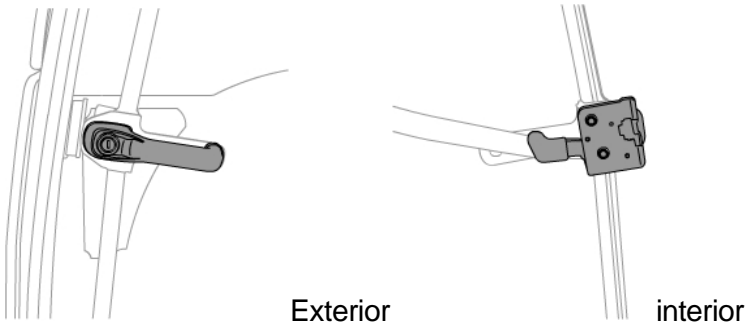
DOORS AND WINDOWS

Locking and Un-locking the Door

From the outside: Insert key into the door lock. Turn key clockwise to unlock the door. Turn key counter-clockwise to lock the door. When the key is in the vertical position, it can be removed from the lock. The cab door is not lockable from the inside of the cab.

Opening the Door

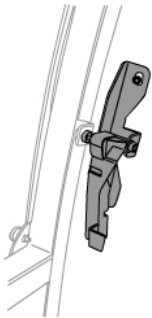
From the outside: Unlock the door and push the round button. From the inside: Push the door latch handle down and push open the door so that the gas shock opens the door.



Opening Escape Window

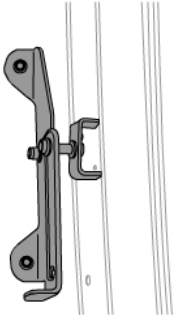
For ventilation: Grab the handle and pull out and away from window so that latch slides on the pin. Slide on the pin until it reaches the end of travel on the handle and then secure onto pin by pushing down on the handle.

For escape: Grab the handle and pull out and then slide latch down until the end of travel. Pull handle away from pin and window is free from latch. Open window fully for escape.



Opening Side Window (Optional)

Pull the side window latch up to release from the pin, and push out to open window. Push down on latch to secure open for ventilation.

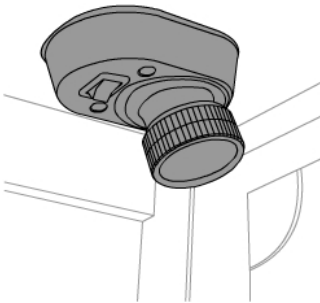


Opening Rear Window (Optional)

Pull the rear window latch up to release from the pin, and push out to open window. Push down on latch to secure open for ventilation.

DOME LIGHT

The rocker switch on the domelight activates the light. Push switch down to turn on domelight and to turn off downlight.



IMPORTANT: The cab is wired such that the ignition switch turns on all cab electrical features.

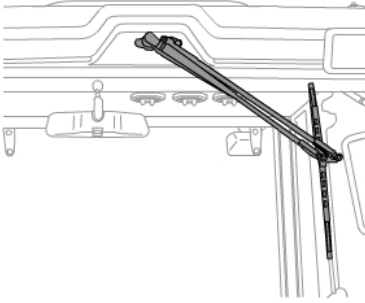
CAB SWITCHPLATE

IMPORTANT: Do not activate the wipers when the windows are dry as the glass may get scratched.

Front Wiper/Washer Switch (Washer Optional)

When the top portion of the wiper switch is pressed down, the wiper is activated and stays on. If the cab is equipped with the optional Washer Kit , then the bottom portion of the rocker switch will activate the washer stream as well as the wiper motor in a momentary state. Hold down the switch to continue a stream of washer fluid. If the cab is

not equipped with washer kit, then the bottom portion of the switch is a momentary wiper motor speed.



Rear Wiper Switch (Optional)

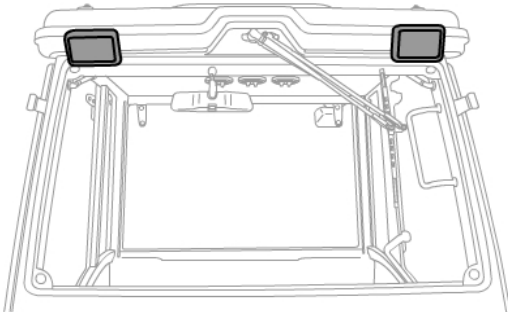
When the top portion of the wiper switch is pressed down, the wiper is activated and stays on. When the bottom portion of the switch is pressed down, the wiper is activated at a second speed.

Using the Wipers in Winter

1. While not used in winter, keep the blades off the windshield to prevent them from being stuck with ice.
 2. If the windshield is covered with snow, scrape it off before using the wipers.
 3. If the wiper blade is stuck to the windshield with ice and does not move, switch wiper to the OFF position, and remove the ice from the wiper blade.
-

Front Work Lights

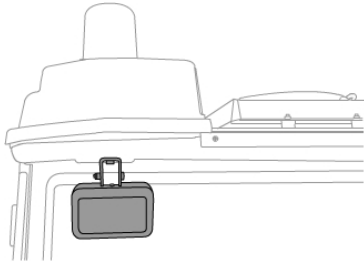
Ensure that the ignition switch is on and press the top portion of the front work light switch. The work lights will turn on.



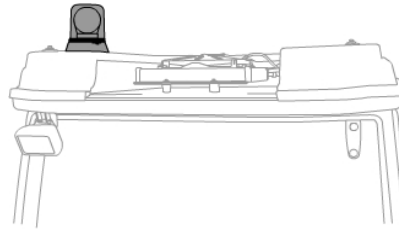
Rear Work Light (Optional)

Ensure that the ignition switch is on and press the top portion of the rear work light switch. The work light will turn on if equipped.

Ensure that the ignition switch is on and press the top portion of the hazard switch. The beacon will turn on if equipped.



rear light



beacon

HEATER/PRESSURIZING FAN

⚠ CAUTION To avoid personal injury: Have the tractor repaired immediately if any of the following defects are discovered. Such defects may cause burns or injuries. They may also cause engine seizure or other serious failure.

Daily Inspection:

1. Check for scratches, cracks, or swelling in the water hoses.
2. Check for leakage at water hose joints.
3. Check for loose mounting bolts and damaged brackets.

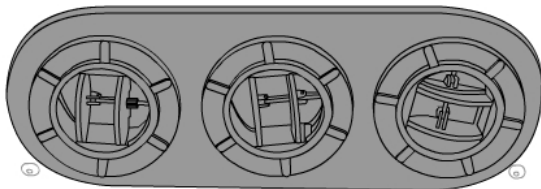
Do not touch the water hoses and the heater with your hand. You may get burned.

Airflow Direction

Air in the cab is drawn through the filter in the rear of the cab and then is discharged inside the cab through the three vents in the headliner.

Air Control Louvers

The front three louvers can be adjusted individually as required. For windshield defrost, rotate the louvers to face towards the windshield.



HEATER CONTROLS ON SWITCH PLATE

Fan Control

The fan has three speeds and on off position. Turn the knob clockwise to increase fan speed and maximum air flow output. If the windows fail to defrost in extreme conditions or become cloudy when dehumidifying the cab, wipe off moisture with a soft cloth.

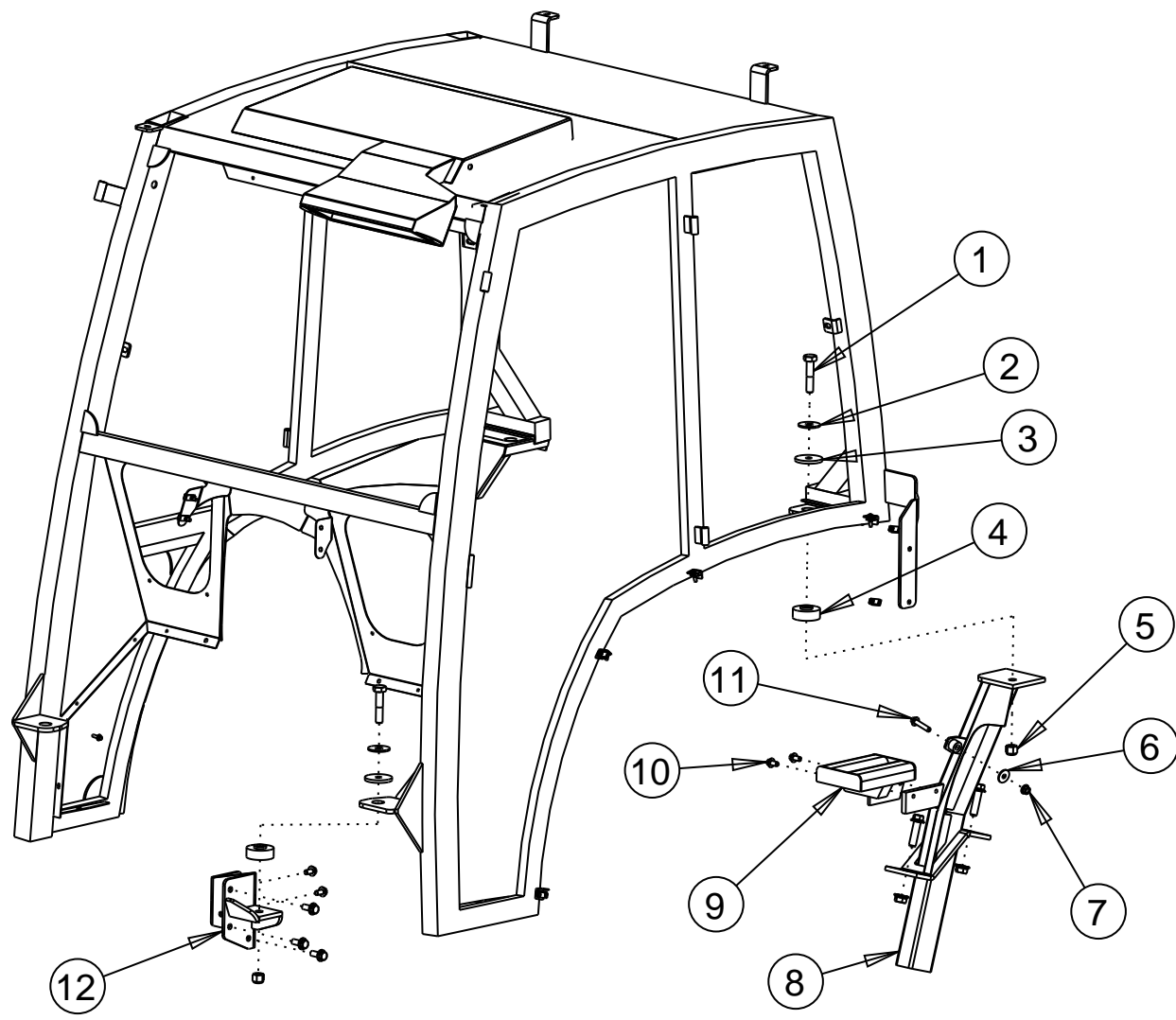
Temperature Control

The heater control knob turns counter clockwise to open a water valve for more heat. To reduce the level of heat, turn the knob clockwise to close the valve.

AUDIO

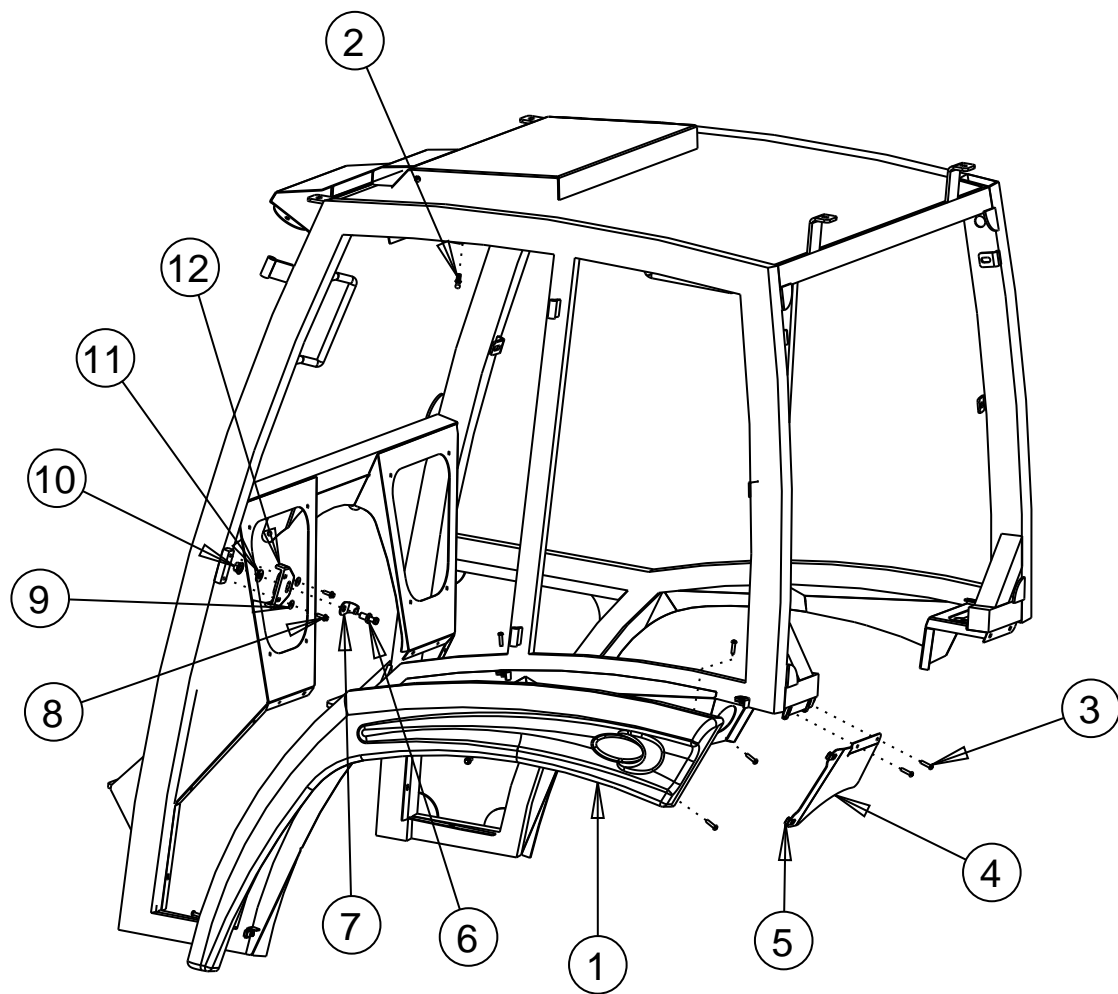
AM/FM Stereo with CD Player/Cassette (Optional)

ROPS Mounting Assembly



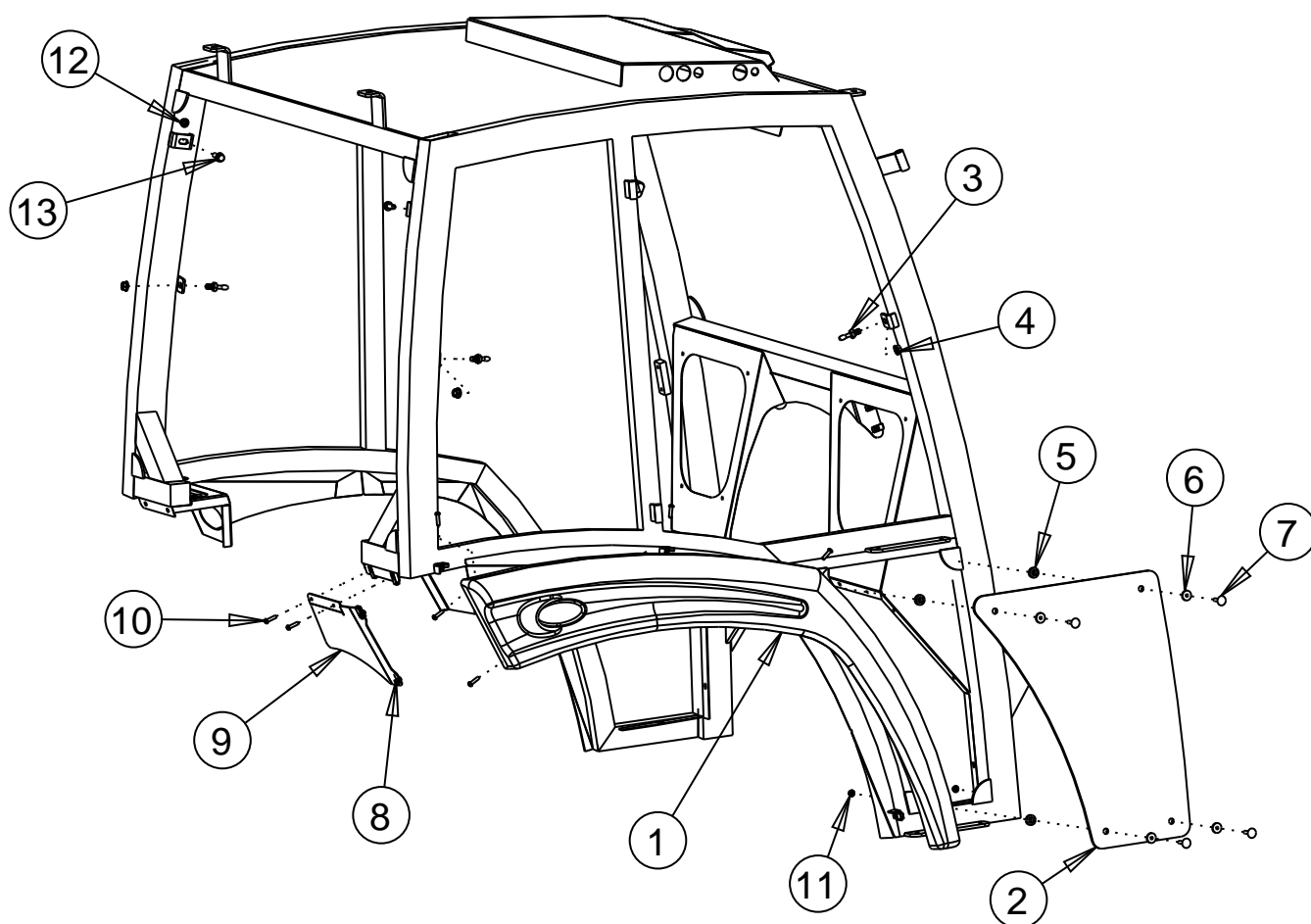
ROPS Mounting Assembly							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Bolt, Hex, 5/8" x 3", Gr. 8, YD	4	100114	8	Left Rear Bracket	1	101758
2	Washer, Flat, Steel 11/16" x 2 1/2" YD	4	100115	n/a	Right Rear Bracket,	1	101759
3	Washer, Flat, Rubber 1/2" x 2 1/2"	4	100047	9	Step Bracket	1	101760
4	Isolator, Rubber, 11/16" x 2 1/2"	4	100046	10	Bolt, Flange, 3/8" x 3/4", Gr. 8, YD	2	100668
5	Nut, Nylon, Locking, 5/8" Gr. 8 YD	4	100050	11	Bolt, Flange, 10MM x 50MM, x 1.5 Gr. 8, YD	2	101633
6	Washer, Flat, 7/16" Fender	2	100885	12	Left Front Bracket	1	101755
7	Nut, Flange, M10 x 1.5	2	100020	n/a	Right Front Bracket	1	101756

Left Composites & Hardware



Left Composites & Hardware							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Left Composite Side Panel	1	101797	7	Striker Pin Guard	1	101646
2	Gas Shock Ball Stud	1	100366	8	Bolt, Flange, 1/4" x 1/2", YD	2	100278
n/a	Gas Shock Clip	1	100367	9	Washer, Flat, 1/4", YD	2	100380
3	Button Head Screw, 1/4" x 1", MB	8	100441	10	Striker Pin Nut	1	100014
4	Left Rear Side Panel	1	101799	11	Washer, Flat, 1/2"	1	101225
5	Nut, Extruded Panel, 1/4"	8	100042	12	Striker Mounting Plate, Rubber	1	101711
6	Striker Pin	1	100013	n/a	Button, Plug, 3/8" Diam	2	100478

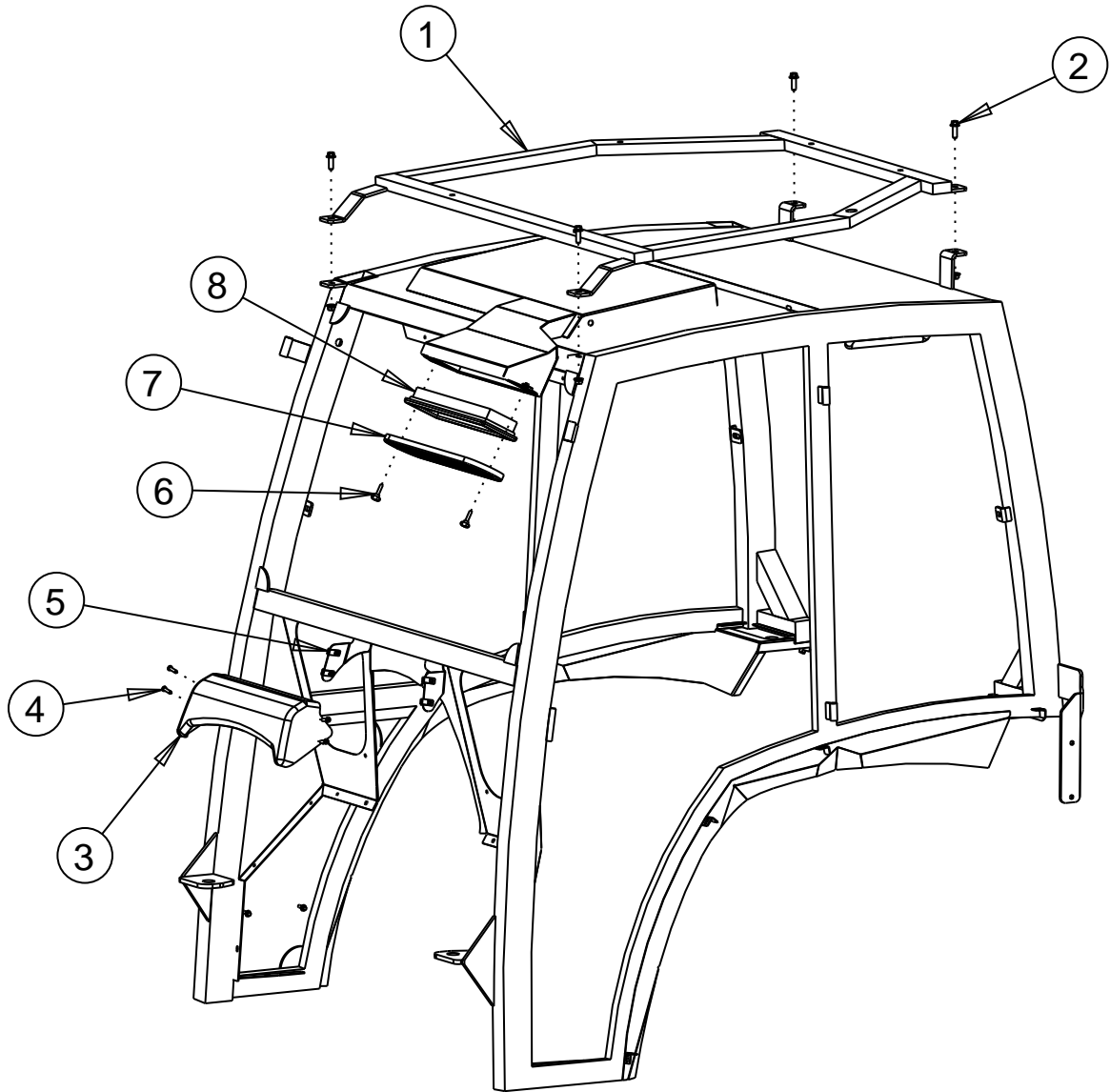
Right Composites/Hardware



Right Composites & Hardware

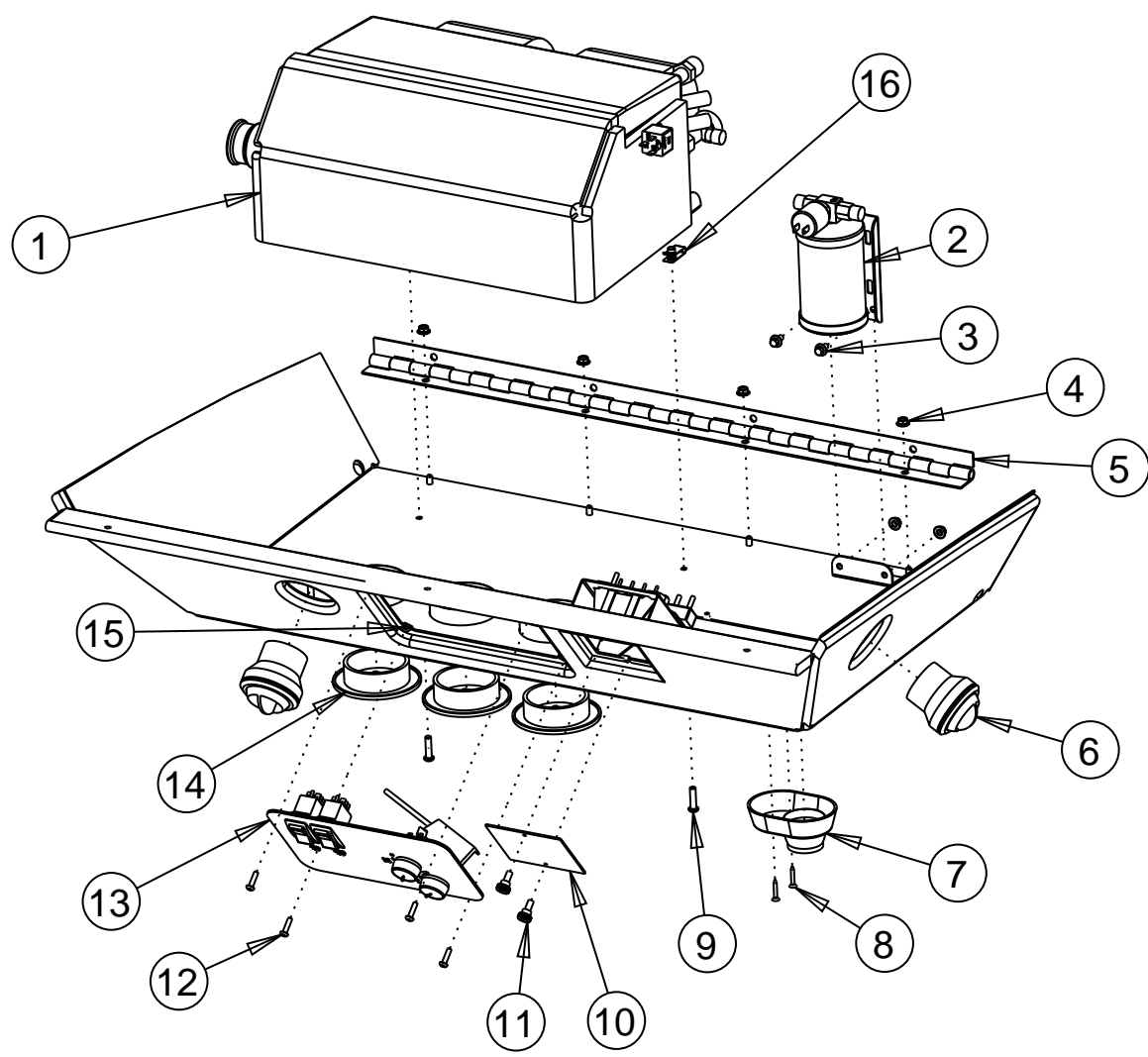
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Right Composite Side Panel	1	101798	7	Bolt, Step, 1/4" x 1 1/4", Macro-black	4	100003
2	Lower Right Side Window	1	101801	8	Nut, Extruded Panel, 1/4"	8	100042
n/a	Front Window Weatherstripping (7LF)	1	100358	9	Right Rear Side Panel	1	101800
3	Window Arm Pin	5	100019	10	Button Head Screw, 1/4" x 1", MB	8	100441
4	Nut, Flange, M10x1.5	5	100020	11	Nut, Flange, 1/4", Macro-black	4	100223
5	Bushing, Neoprene, 8MM, Black	4	100381	12	Bolt, Flange, 3/8 x 1, YD	2	100207
6	Bushing, Neoprene, 5MM, Black	4	100382	13	Nut, Flange, 3/8" YD	2	100206

Roof Rack & Filter



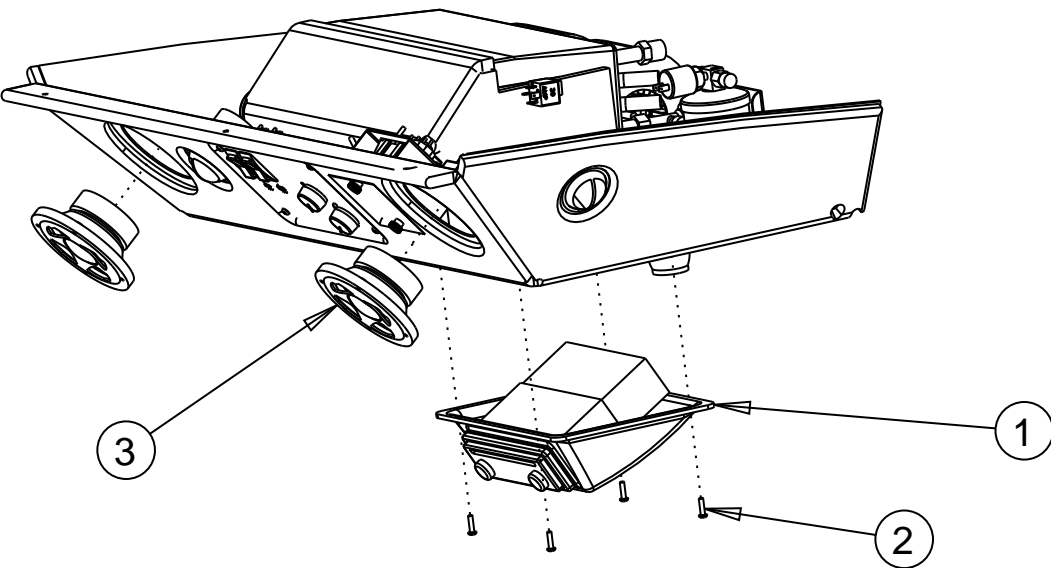
Roof Rack & Filter			
Item #	Description	Qty.	JDP P/N
1	Roof Rack	1	101820
2	Bolt, Flange, 3/8" x 1"	4	100207
3	Composite, Hood Facia	1	101821
4	Button Head Screw, 1/4" x 1", MB	4	100441
5	Nut, Extruded Panel, 1/4"	4	100042
6	Knob, 4-Lobe, 1/4" x 1"	2	100130
7	Air Filter Retainer Plastic,	1	101451
8	Air Filter,	1	101452

Roof Liner



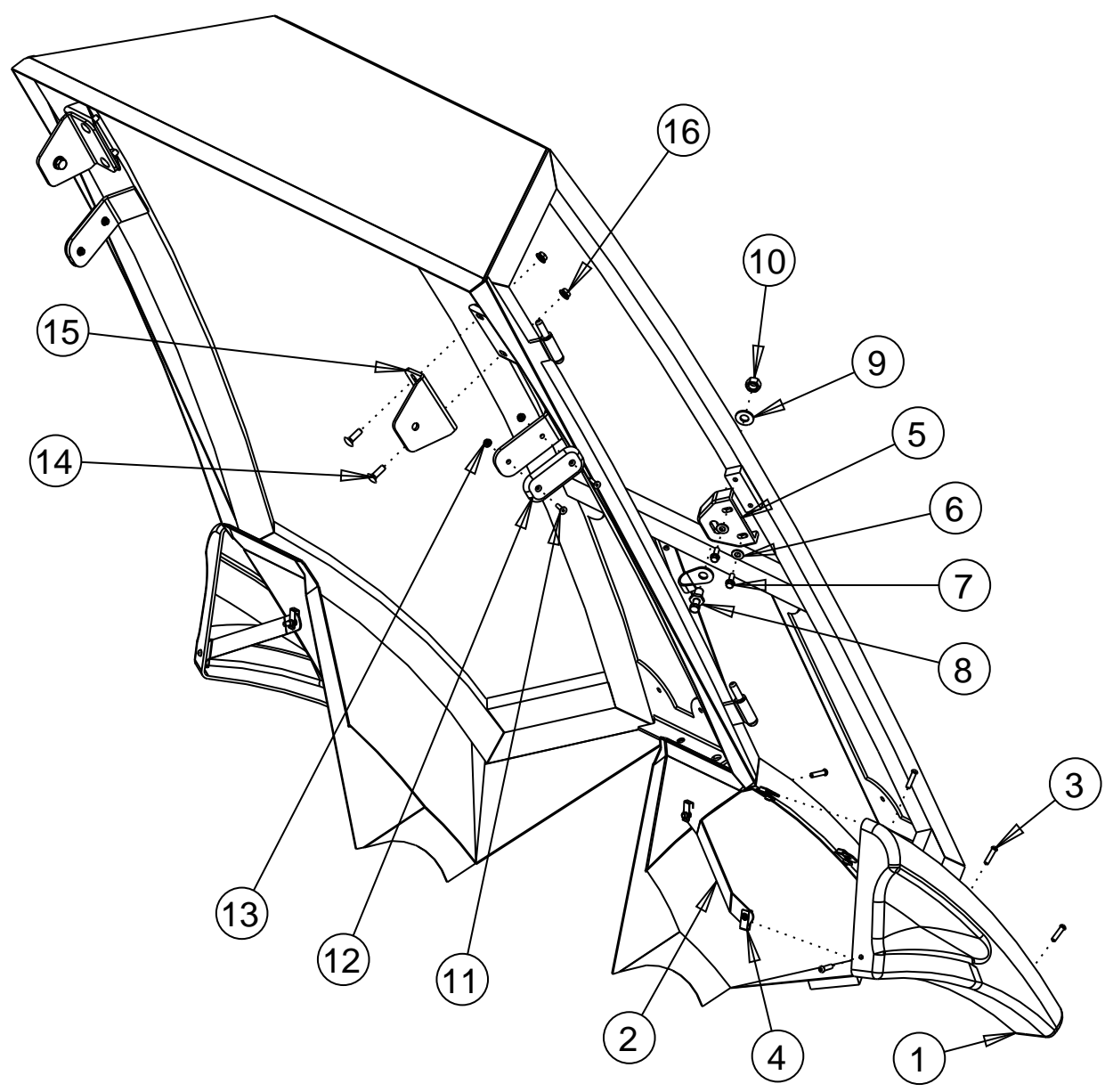
Roof Liner							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Heater Assembly, Nov. 2006 Revision	1	101822	9	Button Head Screw, 1/4" x 1", MB	4	100441
2	Receiver/Drier	1	101638	10	Fuse Block Access Panel, Plastic	1	100476
3	Bolt, Flange, 1/4" x 1/2", Yellow Dichrome	2	100384	11	Knob, 4-Lobe, 1/4" x 1"	2	100130
4	Nut, Flange, 1/4", Macro-black	6	100223	12	Screw, Button Head, 10-24 x 3/4", Macro-black	4	100477
5	Piano Hinge	1	101823	13	Switchplate Assembly	1	101824
6	Louver, Round, 2"	2	101319	14	Louvre Assembly	3	100405
7	Domelight	1	100402	15	Nut, Panel, 10-24	6	100475
8	Screw, #8 x 1 1/4", Macro-black	2	101055	16	Nut, Extruded Panel, 1/4"	4	100042

Stereo Option



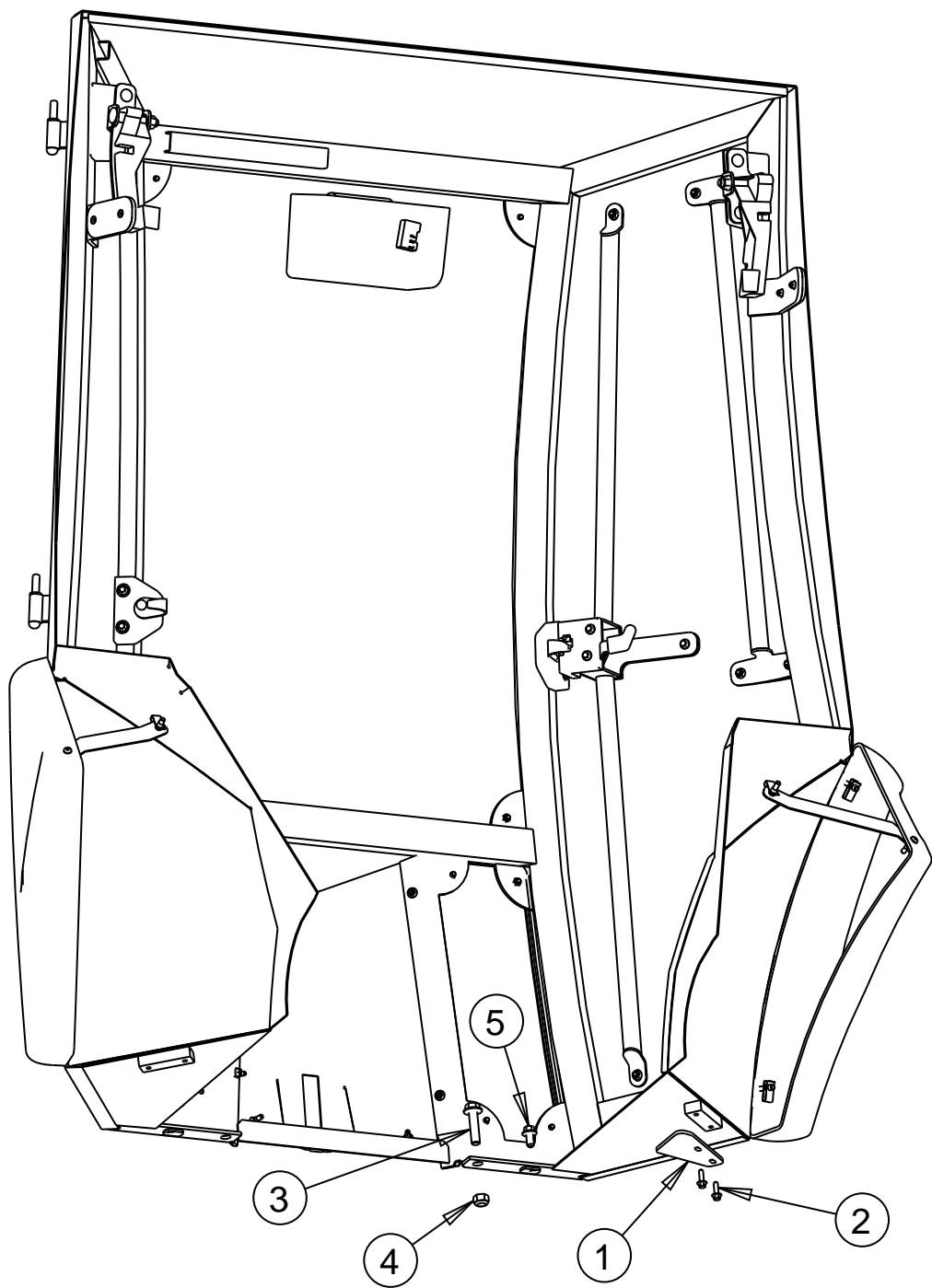
Stereo Option			
Item #	Description	Qty.	JDP P/N
1	Stereo Mounting Bracket	1	101825
2	Screw, Button Head, 10-24 x 3/4", Macro-black	4	100477
3	Speaker, 4", Pair	2	101035

Backhoe Hardware & Fender Assembly



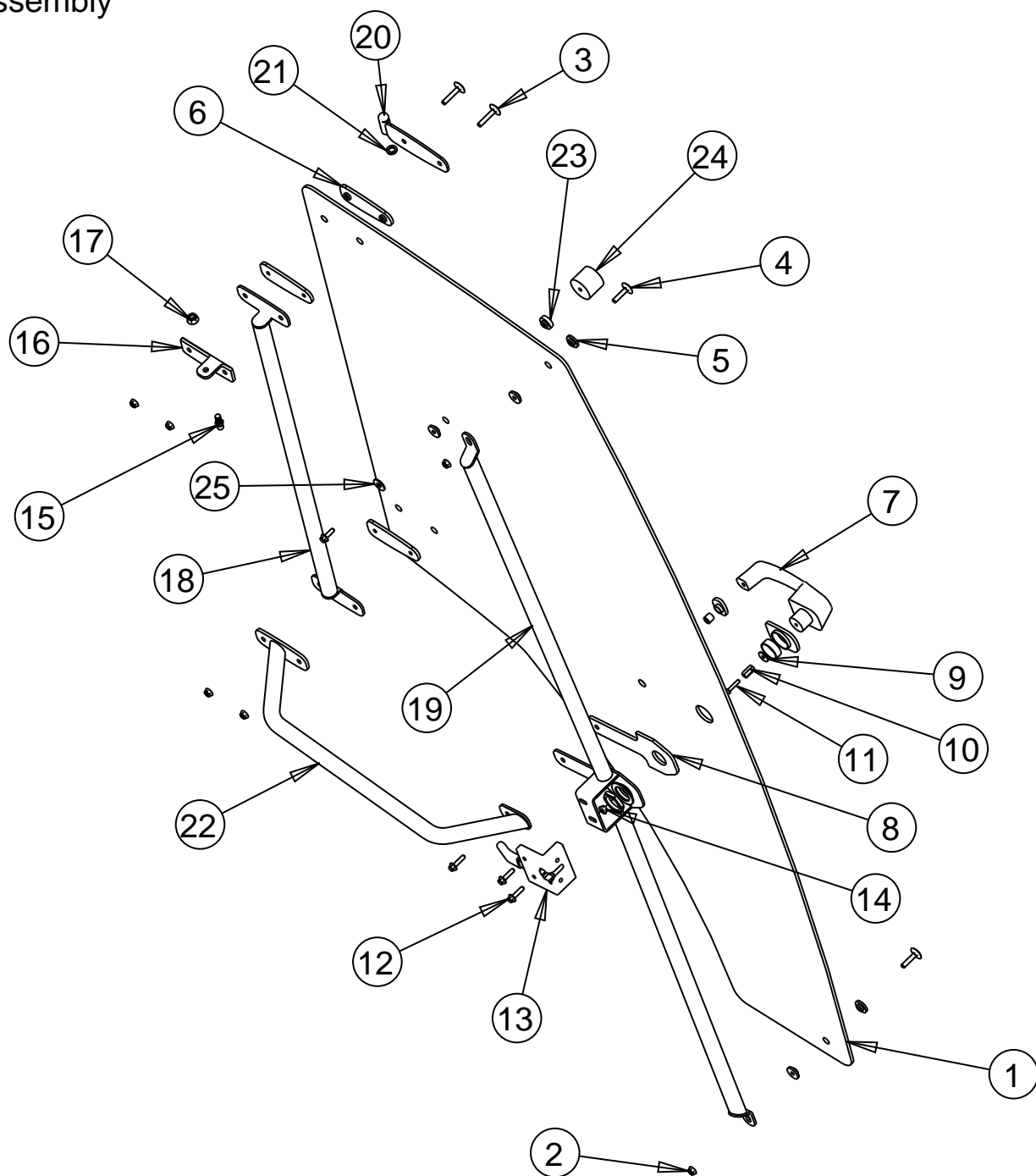
Backhoe Hardware & Fender Assembly							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Left Fender	1	101829	8	Striker, Pin	2	100013
N/A	Right Fender	1	101830	9	Washer, Flat, 1/2"	2	101225
2	Left Fender Support	1	101831	10	Striker, Pin, Nut	2	100014
N/A	Right Fender Support	1	101832	11	Bolt, Stove, 10-24 x 3/4"	4	100257
3	Screw , Button-Head, 1/4" x 1" Macro-Black	10	100441	12	Guide, Plastic	2	101828
4	Nut, Extruded, 1/4"	10	100042	13	Nut, Flange, 10-24	4	100253
5	Rubber Striker Pin Mount Plate	2	101711	14	Bolt, Carriage, 5/16" x 1", YD	4	100374
6	Washer, Flat, 1/4", Large	4	100380	15	Back Sub Assembly Attatch Bracket	2	101886
7	Bolt, Flange, 1/4: x 1/2", YD	4	100278	16	Nut, Flange, 5/16" YD	4	100005

Backhoe Brackets & Mounting Hardware



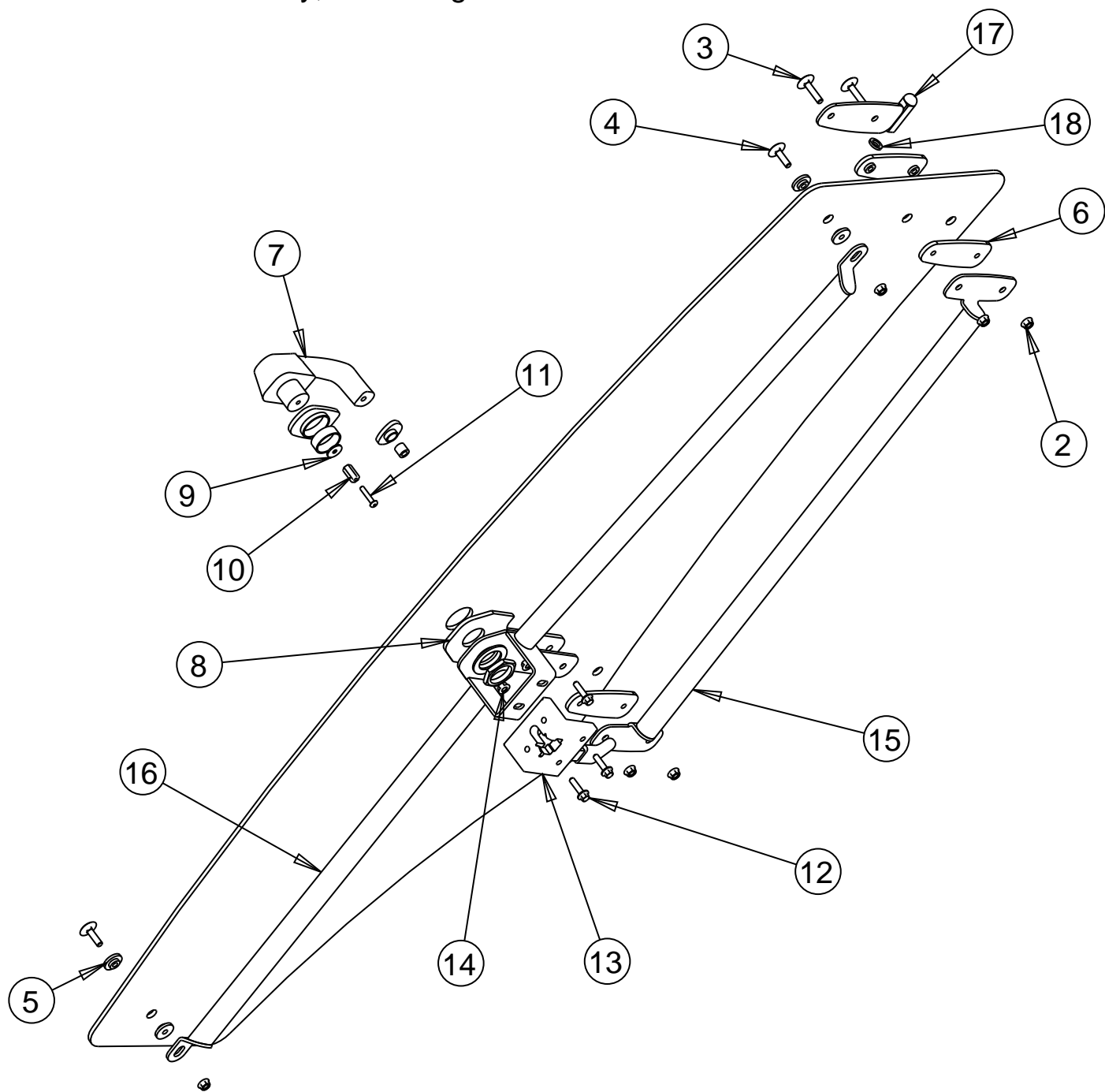
Backhoe Brackets & Mounting Hardware			
Item #	Description	Qty.	JDP P/N
1	Backhoe Cab Retainer	2	101835
2	Bolt, Flange, 1/4" x 3/4", YD	4	100401
3	Bolt, Flange, 1/2" x 2", YD	2	100056
4	Nut, 1/2", Locking, YD	4	101224
5	Bolt, Flange, 3/8" x 3/4", YD	4	100668

Door Assembly



Door Assembly							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Left Door Glass	1	101802	13	Door Latch - Left	1	100006
N/A	Door Glass Weatherstripping (14.5 LF)	1	100358	14	Nut, Flange, M6 x 1.0m YD	2	100008
2	Nut, Flange, 1/4", Macro-black	6	100223	15	Gas Shock Ball Stud	1	100366
3	Bolt, Step, 1/4" x 1 1/2", Marco-black	4	100635	16	Gas Shock Mount Plate	1	100368
4	Bolt, Step, 1/4" x 1", Macro-black	2	100003	17	Nut, Flange, 5/16", YD	1	100005
5	Bushing, Neoprene, 5MM, Black	4	100382	18	Door Hinge Support Weldment, Left	1	101836
6	Neoprene, Injection Molded, 5MM, Black	4	100362	19	Door Latch Support Weldment	1	101837
7	Door Push-Button Handle	1	101445	20	Door Hinge Weldment, Left	2	101148
8	Door Handle Bushing	1	101397	21	Hinge Brass Flat Washer	2	100026
9	Washer, Flat, 3/16"	1	101478	22	Door Grab Bar	1	101838
10	Nut, Coupler, 10-32 x 3/4"	1	101476	23	Bushing, Neoprene, 8MM, Black	1	100381
11	Machine Screw, 10-32 x 1 1/4"	1	101477	24	Window Hold Socket	1	101059
12	Bolt, Flange, M6 x 1.0 x 25mm, YD	4	100007	25	Washer, Flat, 1/4" YD	1	100380

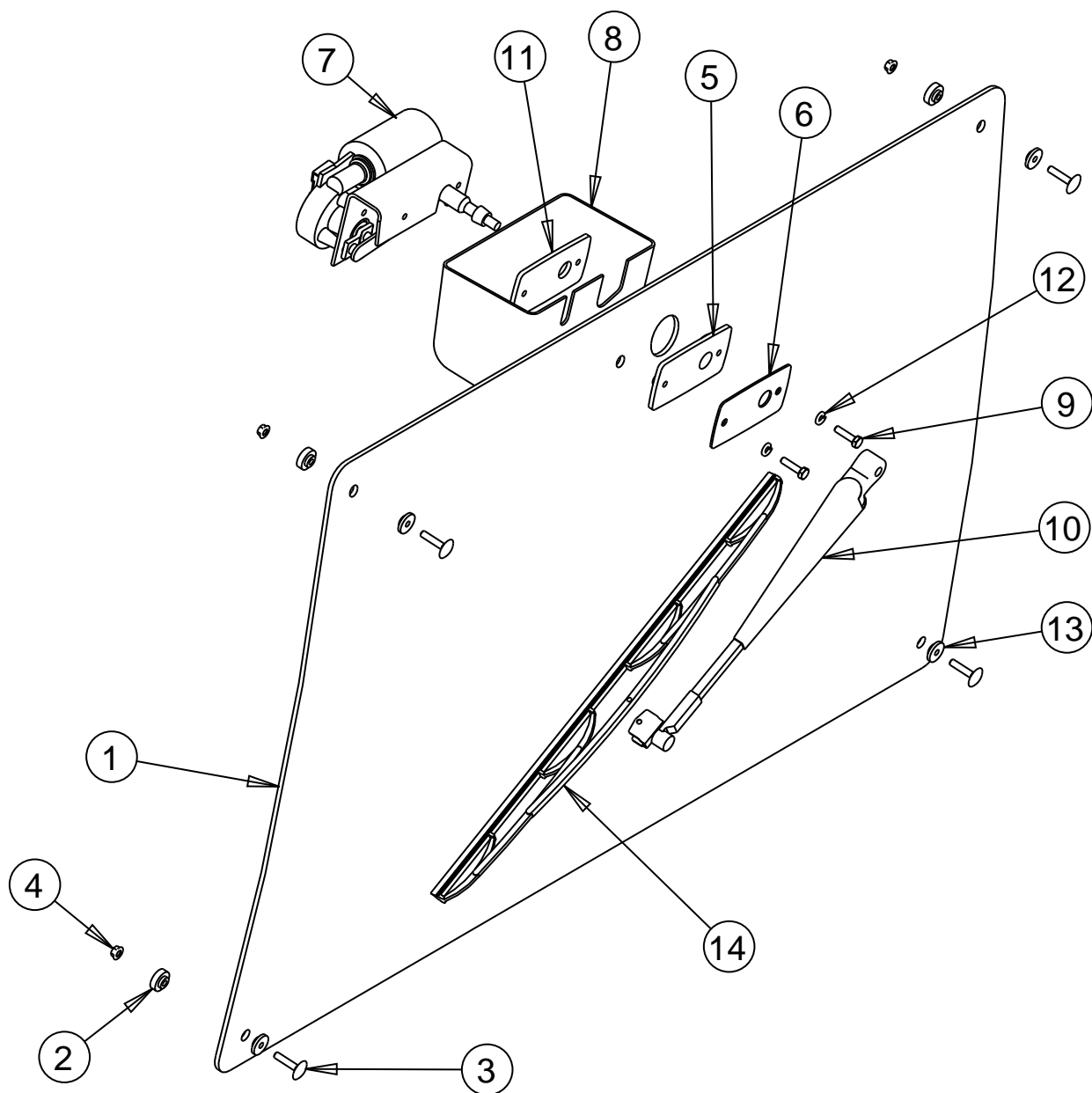
Backhoe Door Assembly, Left & Right



Backhoe Door Assembly, Left & Right

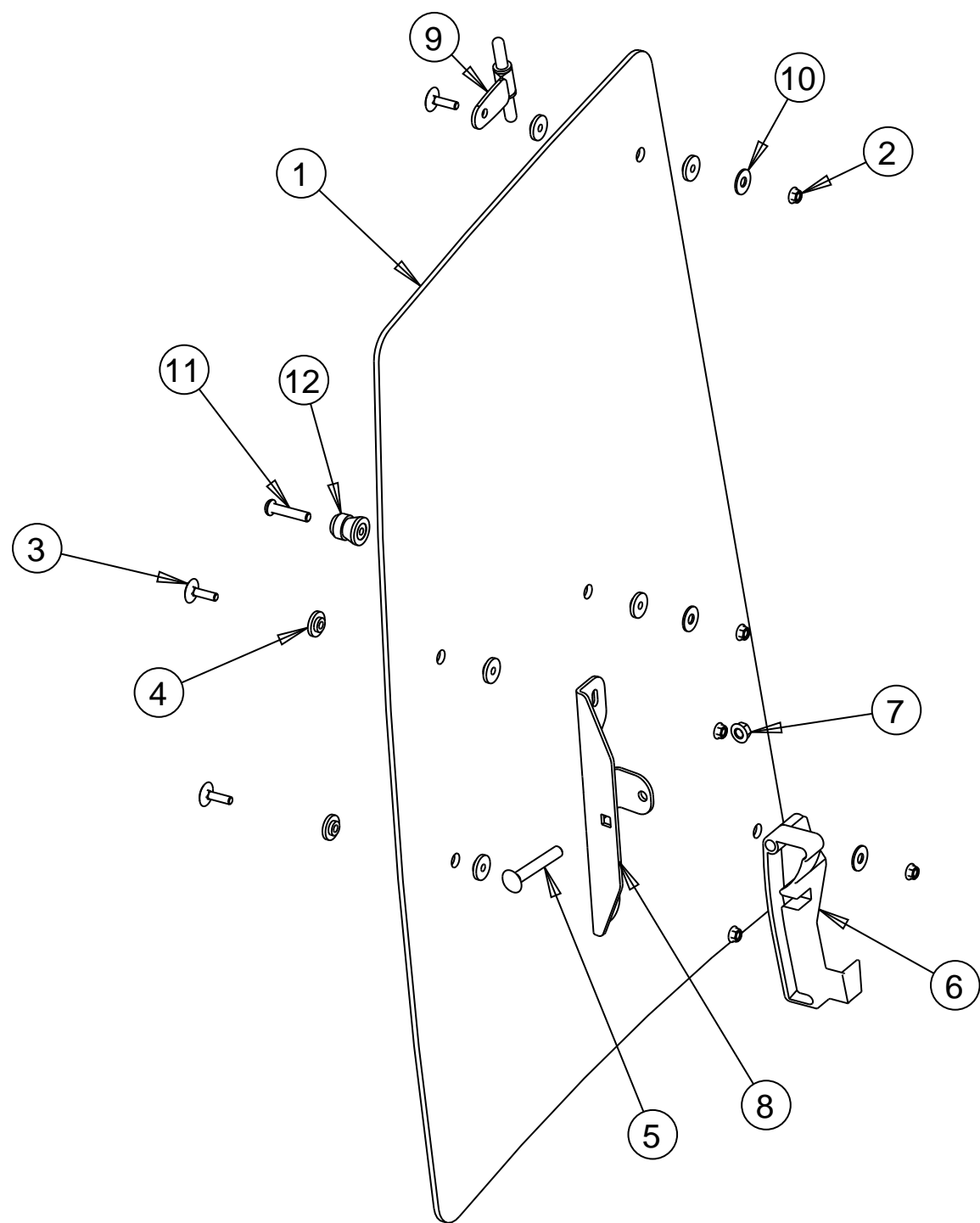
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Left Door Glass	1	101803	11	Machine Screw, 10-32 x 1 1/4"	2	101477
n/a	Right Door Glass	1	101803	12	Bolt, Flange, M6 x 1.0 x 25mm, YD	6	100007
n/a	Door Glass Weatherstripping (22 LF)	1	100358	13	Door Latch - Right	1	100088
2	Nut, Flange, 1/4", Macro-black	12	100223	n/a	Door Latch - Left	1	100006
3	Bolt, Step, 1/4" x 1 1/4", Marco-black	8	100383	14	Nut, Flange, M6 x 1.0m YD	2	100008
4	Bolt, Step, 1/4" x 1", Macro-black	4	100003	15	Door Hinge Support Weldment, Left	1	101839
5	Bushing, Neoprene, 5MM, Black	8	100382	n/a	Door Hinge Support Weldment, Right	1	101840
6	Neoprene, Injection Molded, 5MM, Black	8	100362	16	Door Latch Support Weldment, Left	1	101841
7	Door Push-Button Handle	2	101445	n/a	Door Latch Support Weldment, Right	1	101842
8	Door Handle Bushing	2	101397	17	Door Hinge Weldment, Right	2	101843
9	Washer, Flat, 3/16"	2	101478	n/a	Door Hinge Weldment, Left	2	101148
10	Nut, Coupler, 10-32 x 3/4"	2	101476	18	Hinge Brass Flat Washer	4	100026

Windshield Assembly



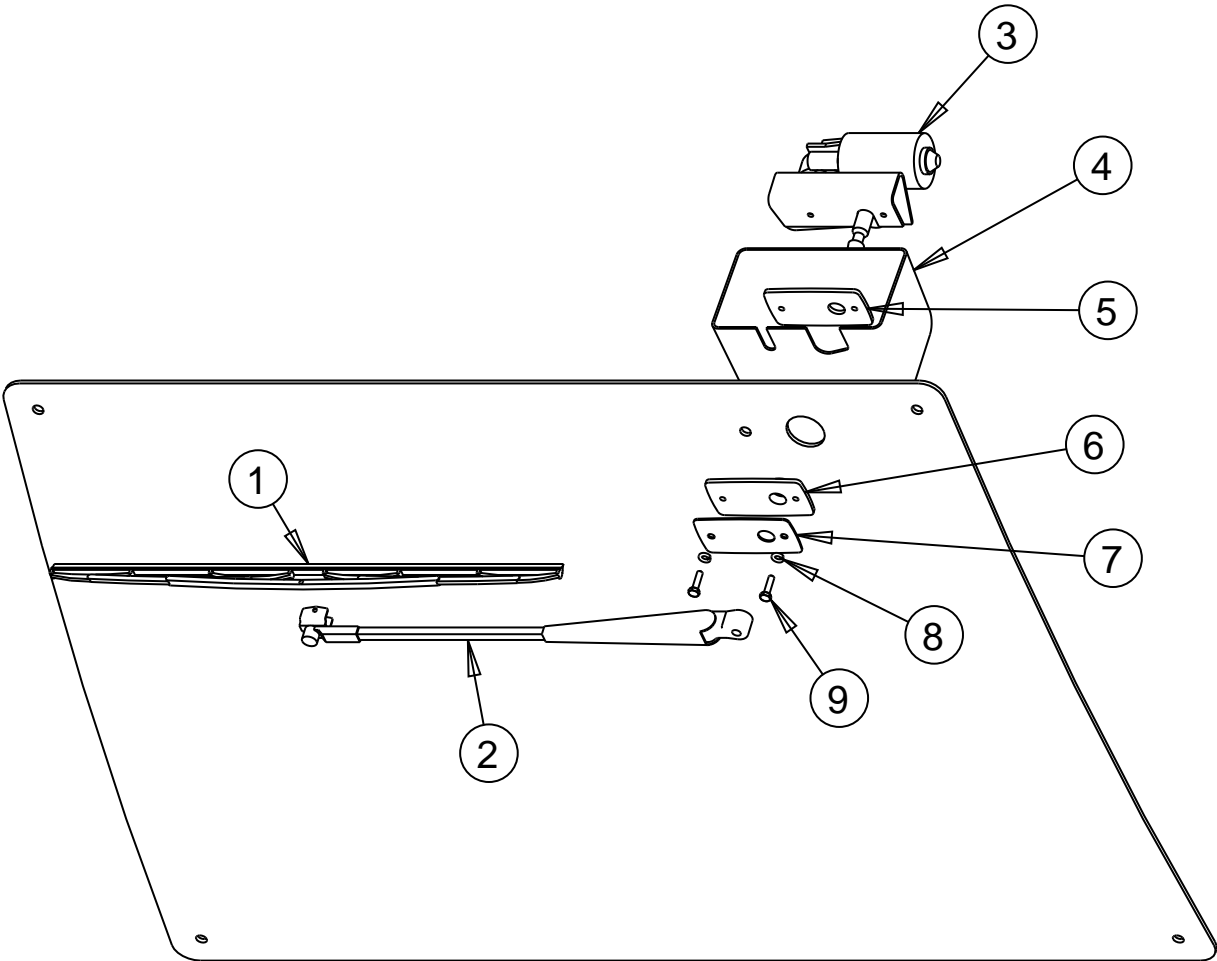
Windshield Assembly							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Front Window	1	101639	8	Wiper Motor Cover	1	100639
n/a	Front Window Weatherstripping (12.25LF)	1	100358	9	Bolt Hex 1/4"x 1" YD Fine Thread	2	101844
2	Bushing, Neoprene, 8MM, Black	4	100381	10	Wiper Arm, Radial, 14"	1	101277
3	Bolt, Step, 1/4" x 1 1/4", Macro-black	4	100003	11	Inner Wiper Bushing	1	100637
4	Nut, Flange, 1/4", Macro-black	4	100223	12	Washer, Lock 1/4"	2	101048
5	Outer Wiper Bushing	1	100636	13	Bushing, Neoprene, 5MM, Black	4	100382
6	Wiper Mount Windshield Plate	1	100638	14	Wiper Blade, 22"	1	101845
7	Front Wiper Motor	1	100481				

Opening Side Window Assembly, Left & Right



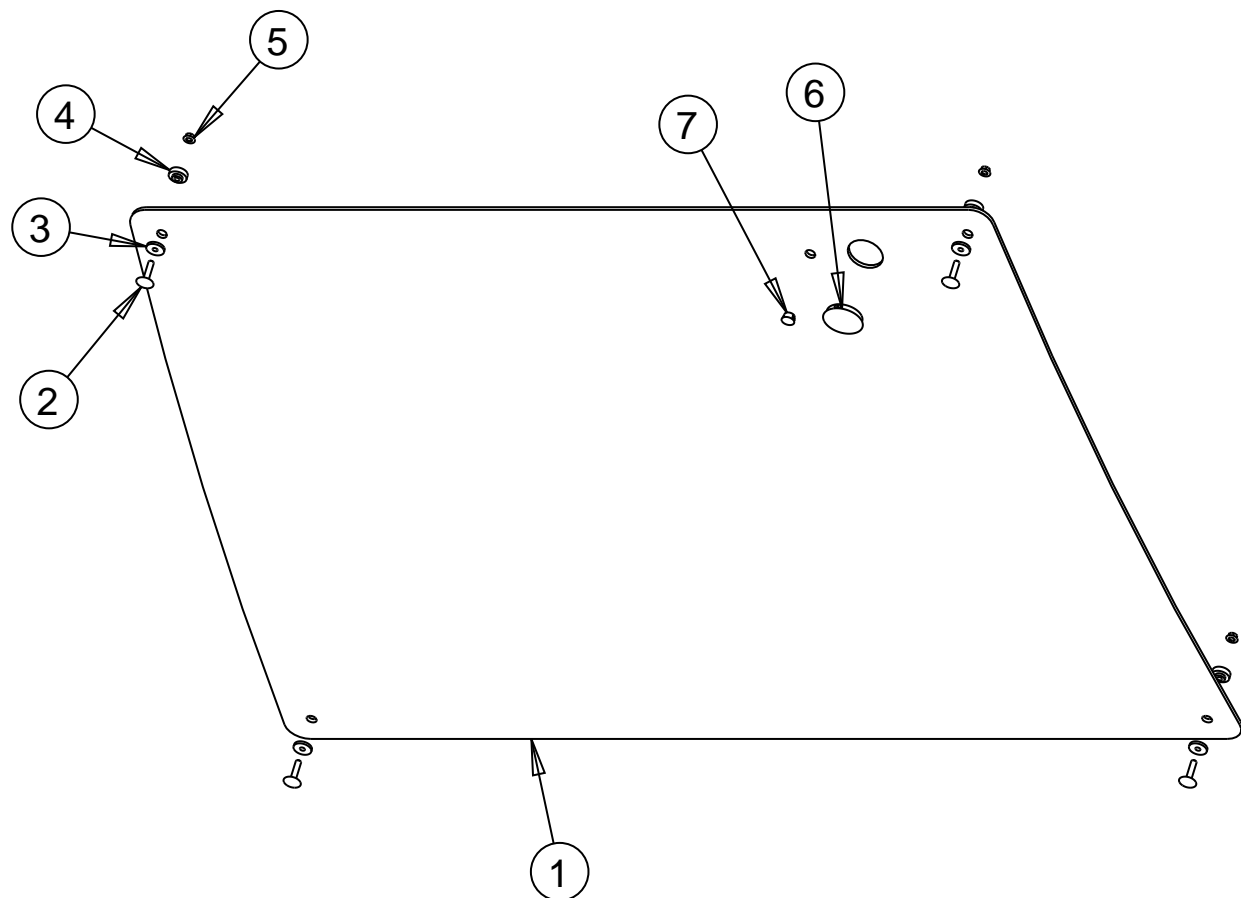
Opening Side Window Assembly, Left & Right							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Opening Side Window	2	101806	7	Nut, Serrated, Flange, 3/8", YD	2	100018
n/a	Side Window Weatherstripping (20LF)	1	100358	8	Escape Window Latch Bracket	2	100385
2	Nut, Flange, 1/4", Macro-black	8	100223	9	Side window Hinge Weldment	4	100379
3	Bolt, Step, 1/4" x 1", Macro-black	8	100003	n/a	Hinge Brass Flat Washer	4	100026
4	Bushing, Neoprene, 5MM, Black	18	100382	10	Washer, Flat, 1/4" YD	6	100380
5	Bolt, Carriage, 3/8" x 2 1/2", YD	2	100399	11	Screw, Button-Head, 1/4" x 1", Macro-black	2	100441
6	Escape Window Latch Bracket Right	1	100017	12	Window Hold Socket	2	101059
n/a	Escape Window Latch Bracket Left	1	101833				

Rear Wiper Option



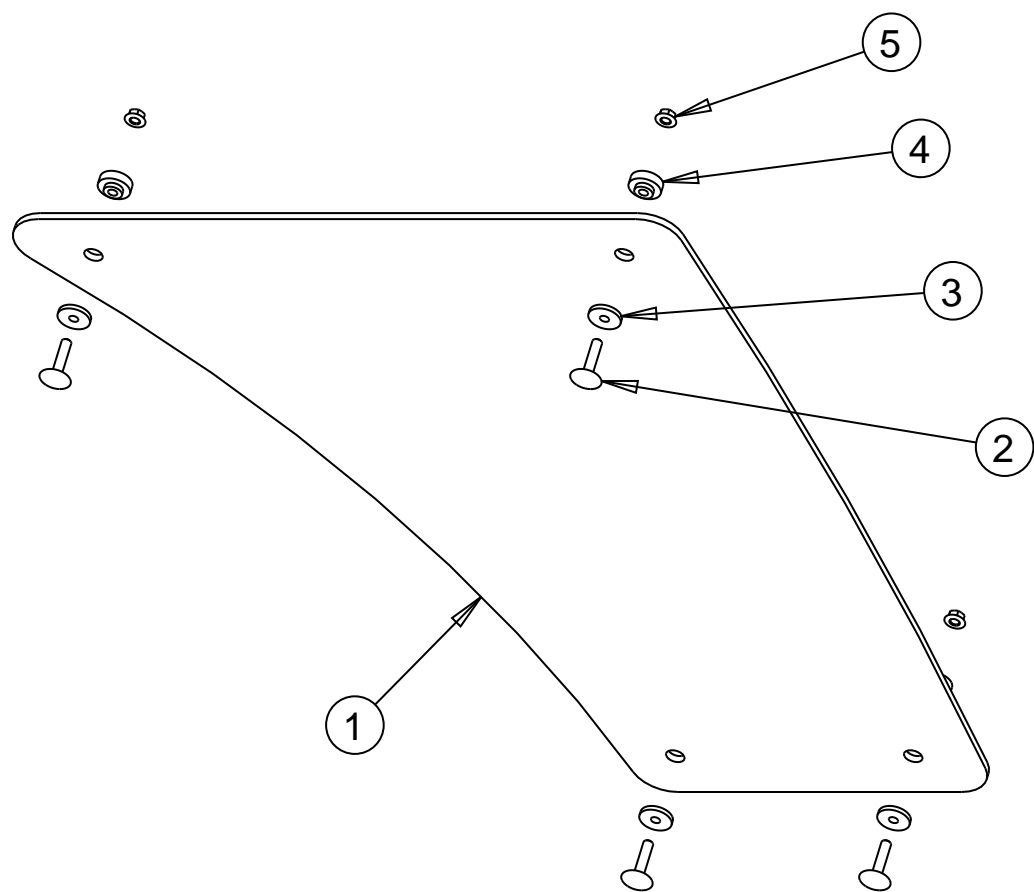
Rear Wiper Option							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Wiper Blade, 22"	1	101845	6	Outer Wiper Bushing	1	100636
2	Wiper Arm, Radial, 20"	1	100190	7	Wiper Mount Windshield Plate	1	100638
3	Wiper Motor	1	100481	8	Washer, Lock 1/4"	2	101048
4	Wiper Motor Cover	1	100639	9	Bolt Hex 1/4"x 1" YD Fine Thread	2	101844
5	Inner Wiper Bushing	1	100637				

Rear Window Assembly



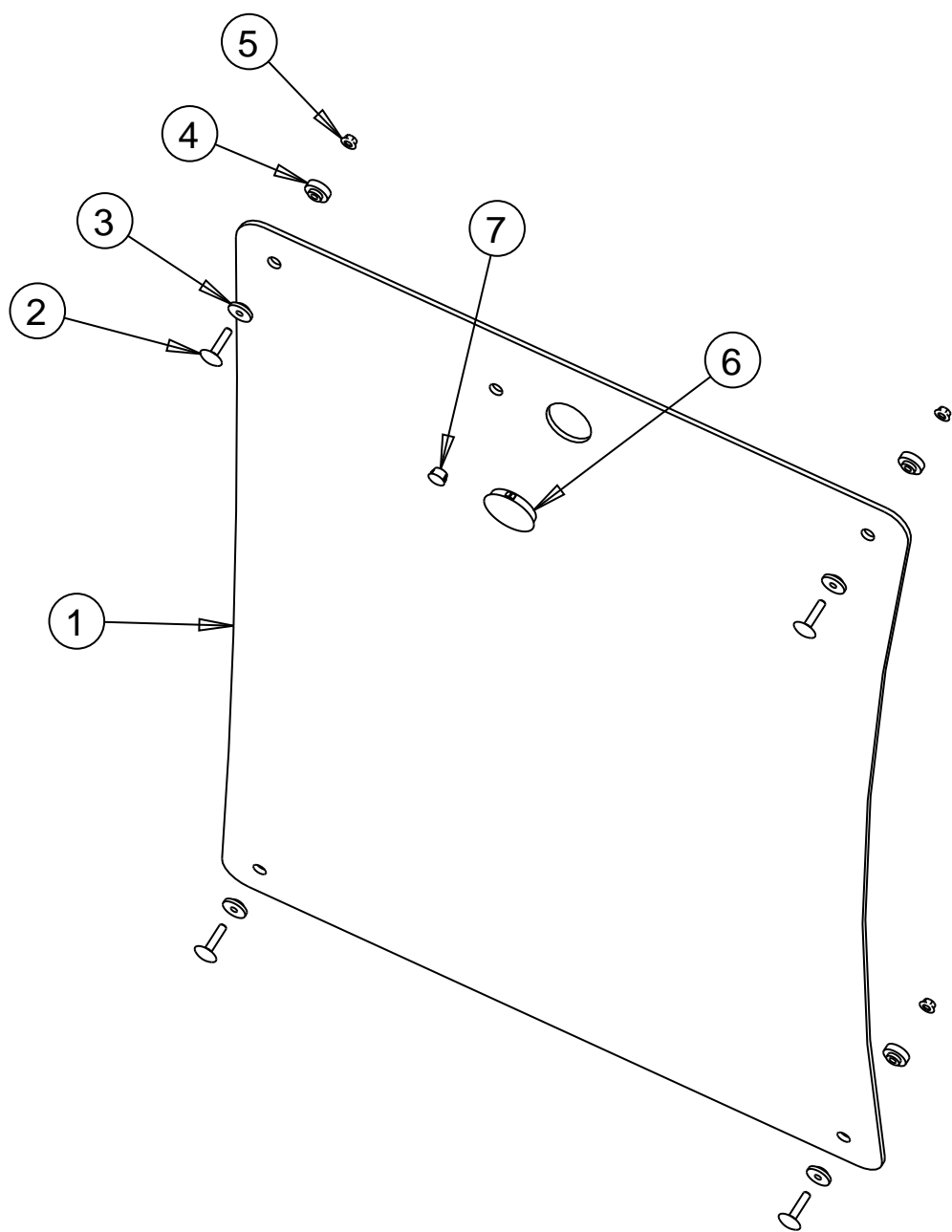
Rear Window Assembly							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Rear Window	1	101806	4	Bushing, Neoprene, 8MM, Black	4	100381
n/a	Front Window Weatherstripping (14LF)	1	100358	5	Nut, Flange, 1/4", Macro-black	4	100223
2	Bolt, Step, 1/4" x 1 1/4", Macro-black	4	100003	6	1 3/4" Plug Button	1	101196
3	Bushing, Neoprene, 5MM, Black	4	100382	7	1/2" Plug Button	1	101197

Lower Right Side Window Assembly, Left & Right



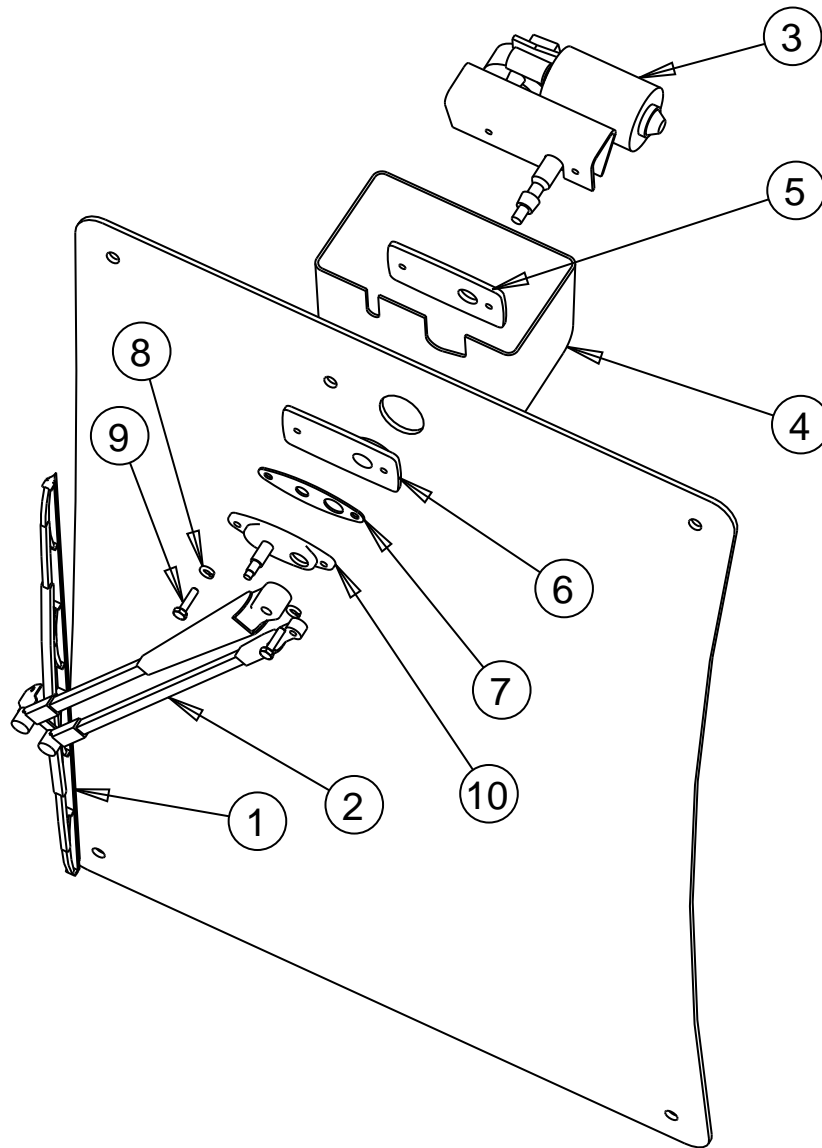
Lower Windshield Assembly, Left & Right								
Item #	Description	Qty.	JDP P/N		Item #	Description	Qty.	JDP P/N
1	Left Lower Windshield	1	101807		3	Bushing, Neoprene, 5MM, Black	8	100382
n/a	Right Lower Windshield	1	101807		4	Bushing, Neoprene, 8MM, Black	8	100381
n/a	Front Window Weatherstripping (4.5LF)	1	100358		5	Nut, Flange, 1/4", Macro-black	8	100223
2	Bolt, Step, 1/4" x 1", Macro-black	8	100003					

Backhoe Rear Window



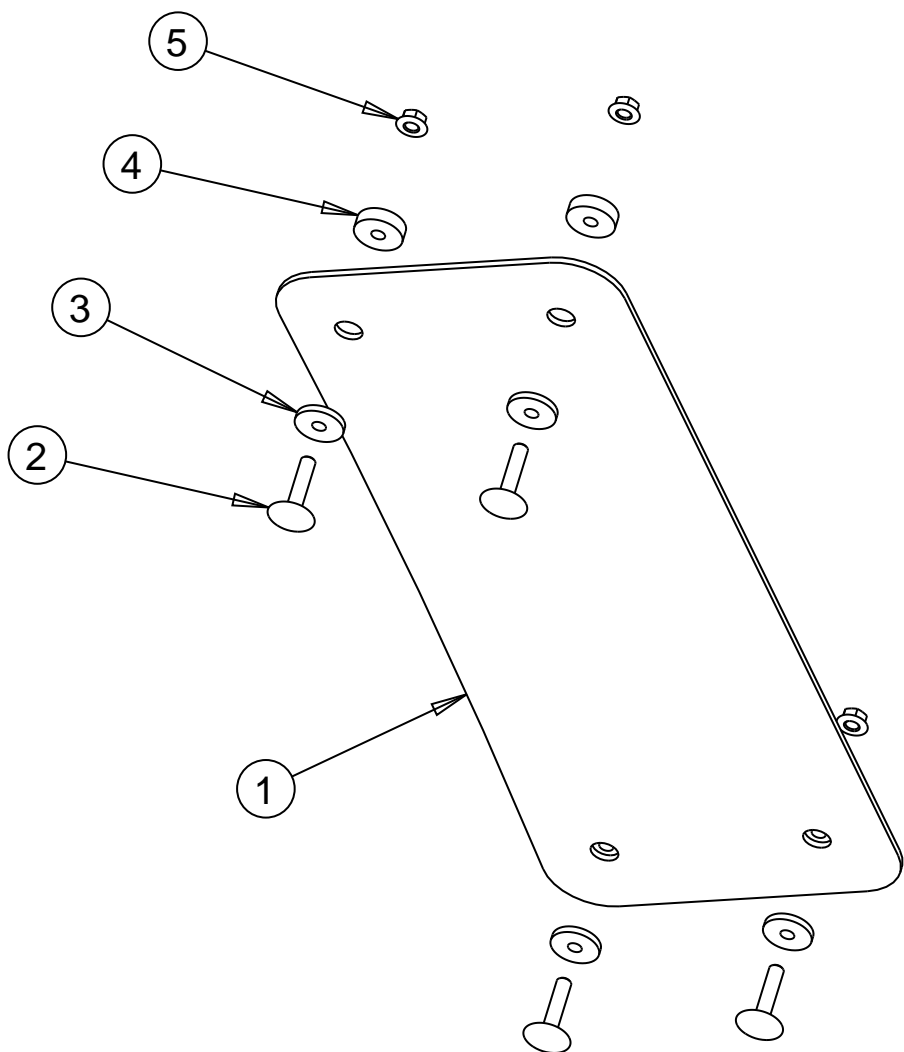
Backhoe Rear Window							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Backhoe Rear Window	1	101808	4	Bushing, Neoprene, 8MM, Black	4	100381
n/a	Window Weatherstripping (11LF)	1	100358	5	Nut, Flange, 1/4", Macro-black	4	100223
2	Bolt, Step, 1/4" x 1 1/4", Macro-black	4	100003	6	1 3/4" Plug Button	1	101196
3	Bushing, Neoprene, 5MM, Black	4	100382	7	1/2" Plug Button	1	101197

Backhoe Rear Wiper Option



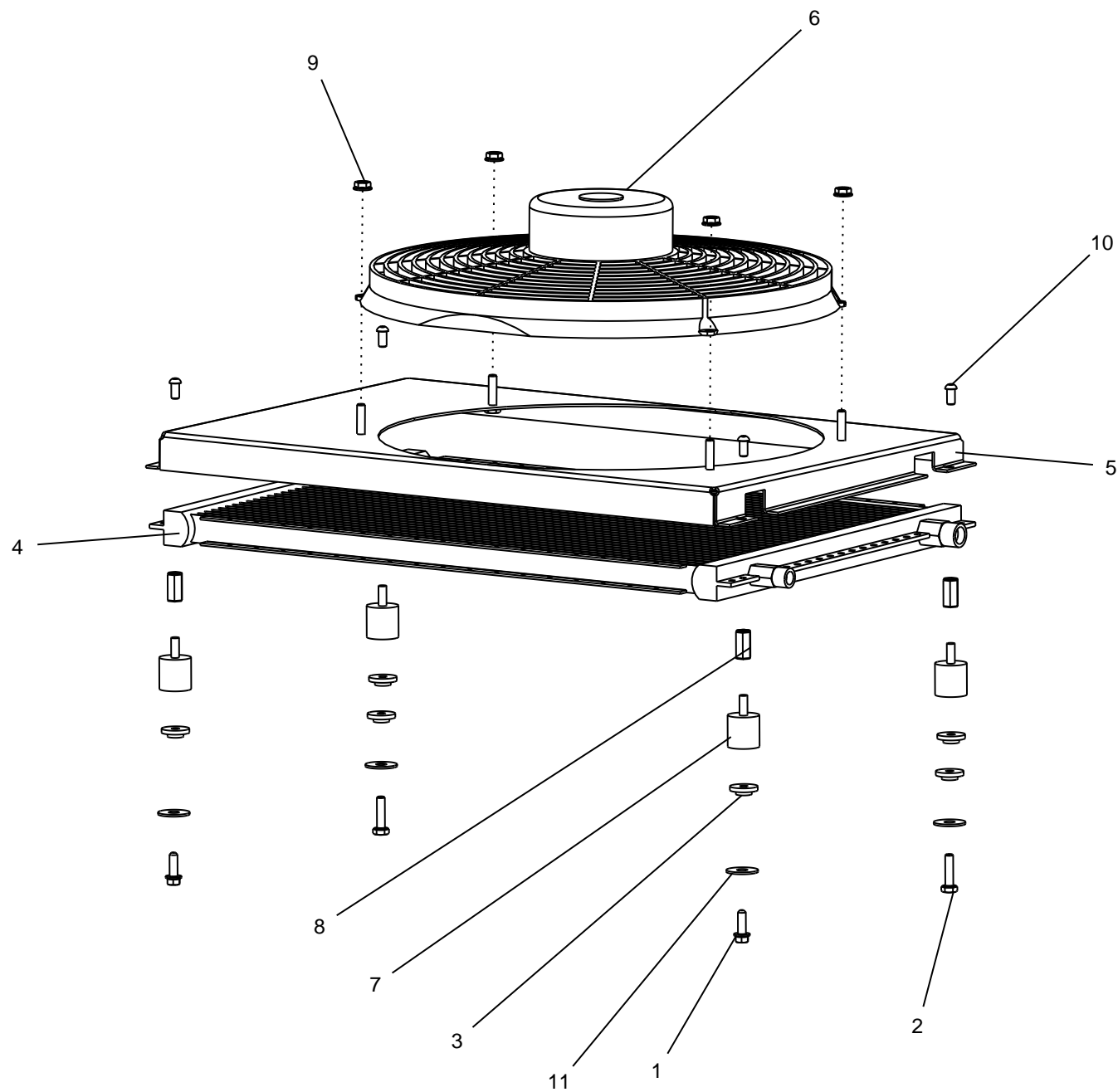
Backhoe Rear Wiper Option								
Item #	Description	Qty.	JDP P/N		Item #	Description	Qty.	JDP P/N
1	Wiper Blade, 26"	1	101846		6	Outer Wiper Bushing	1	100636
2	Wiper Arm, Pantograph, 18"	1	100535		7	WWJ Pantograph Adaptor Gasket	1	
3	Wiper Motor	1	100481		8	Washer, Lock 1/4"	2	101048
4	Wiper Motor Cover	1	100639		9	Bolt Hex 1/4"x 1 1/4" YD Fine Thread	2	101844
5	Inner Wiper Bushing	1	100637		10	Pantograph Mount Plate	1	100532

Backhoe Lower Rear Window, Left & Right



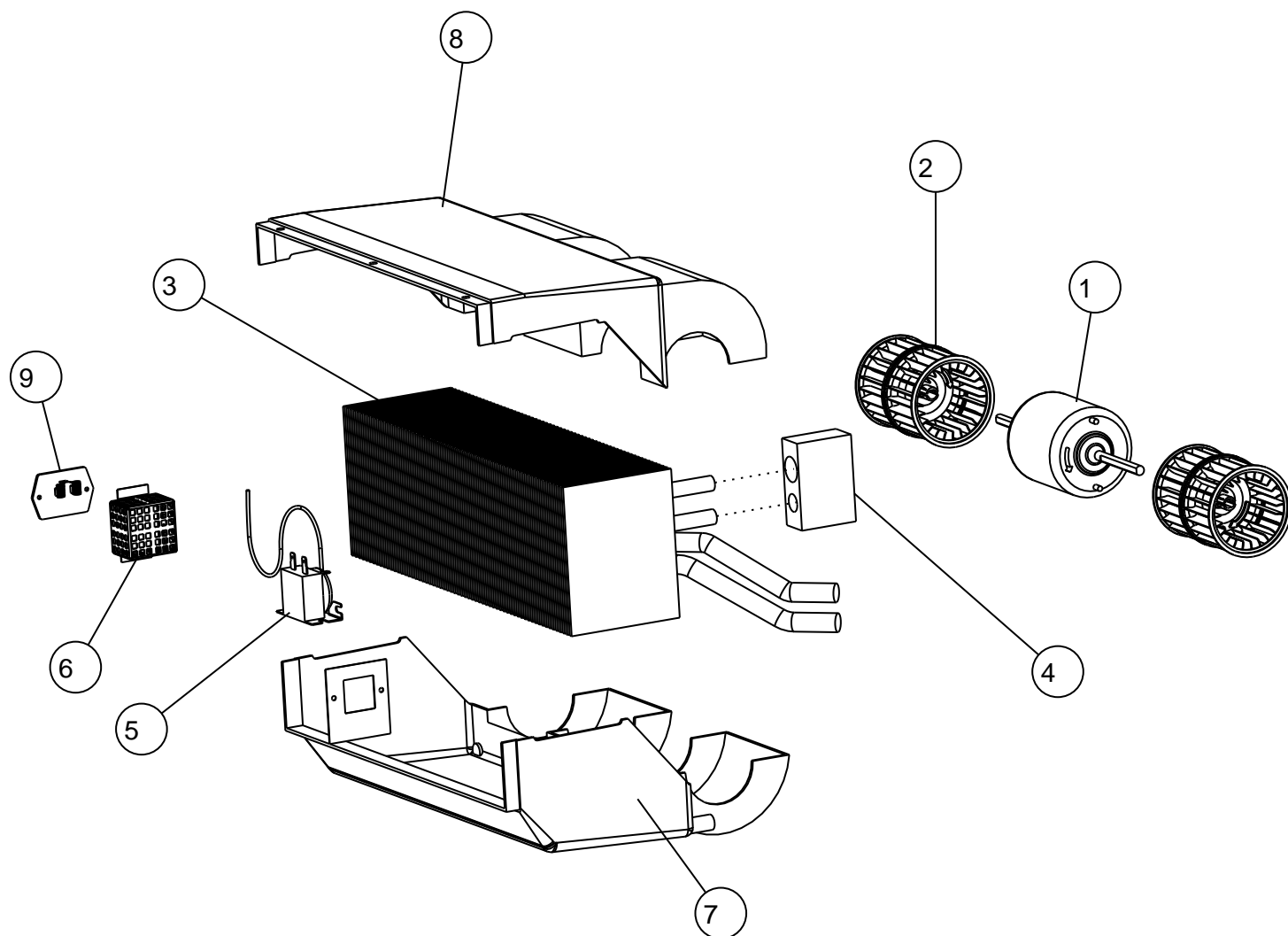
Backhoe Lower Rear Window, Left & Right							
Item #	Description	Qty.	JDP P/N	Item #	Description	Qty.	JDP P/N
1	Backhoe Rear Window	2	101809	3	Bushing, Neoprene, 5MM, Black	8	100382
n/a	Window Weatherstripping (8.4LF)	1	100358	4	Bushing, Neoprene, 8MM, Black	8	100381
2	Bolt, Step, 1/4" x 1 1/4", Macro-black	8	100003	5	Nut, Flange, 1/4", Macro-black	8	100223

Condensor Assembly



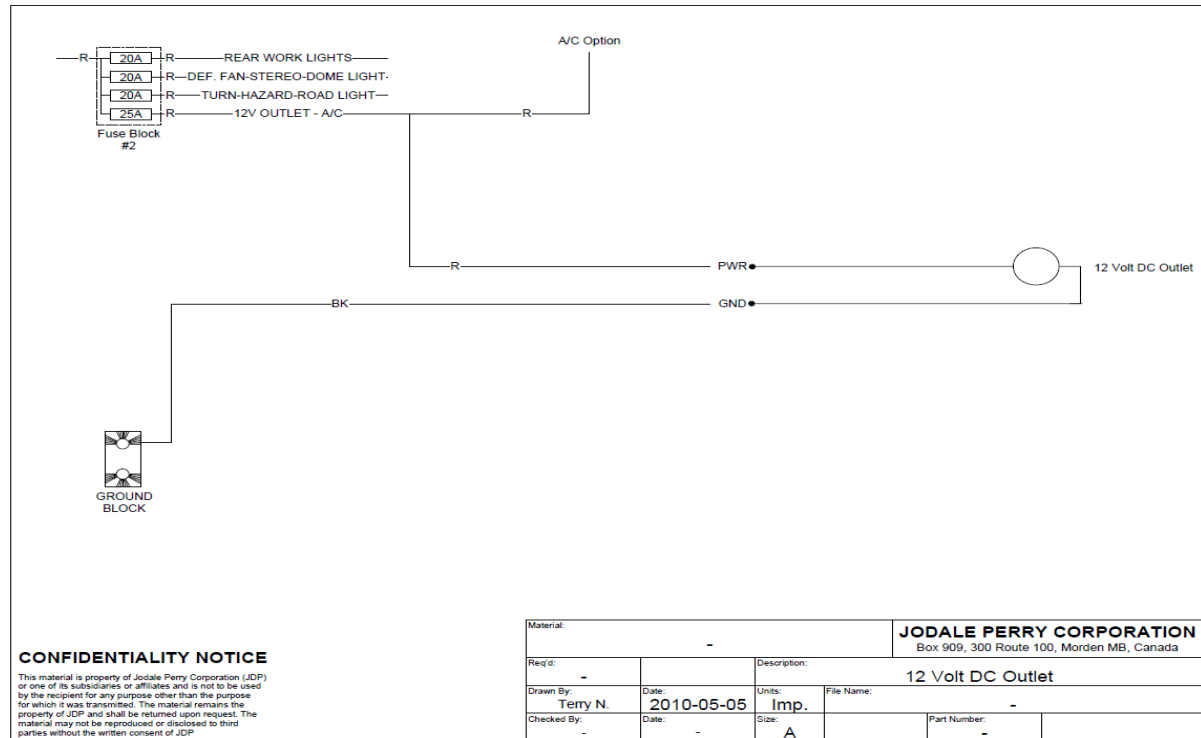
Item	Part Number	Discription	Qty
1	100401	Bolt, Flange, 1/4 x 3/4, YD	2
2	100059	Bolt, Hex, 1/4" x 1" Yd	2
3	100382	Bushing, 5mm, Thin	6
4	101892	Coil, Condenser, A/C	1
5	102018	Condensor Fan Mount Assembly	1
6	101891	Fan, 14" Pull Type	1
7	100046	Isolator, Vibration, Mount, Rubber	4
8	101893	Nut Coupler, 1/4" x 7/8"	4
9	100223	Nut, Flange, 1/4" MB	4
10	101894	Screw, Button Head, 1/4" x 1/2" ZP	4
11	100380	Washer, Flat, 5/16 x 1 YD	4

A/C, Heater Assembly

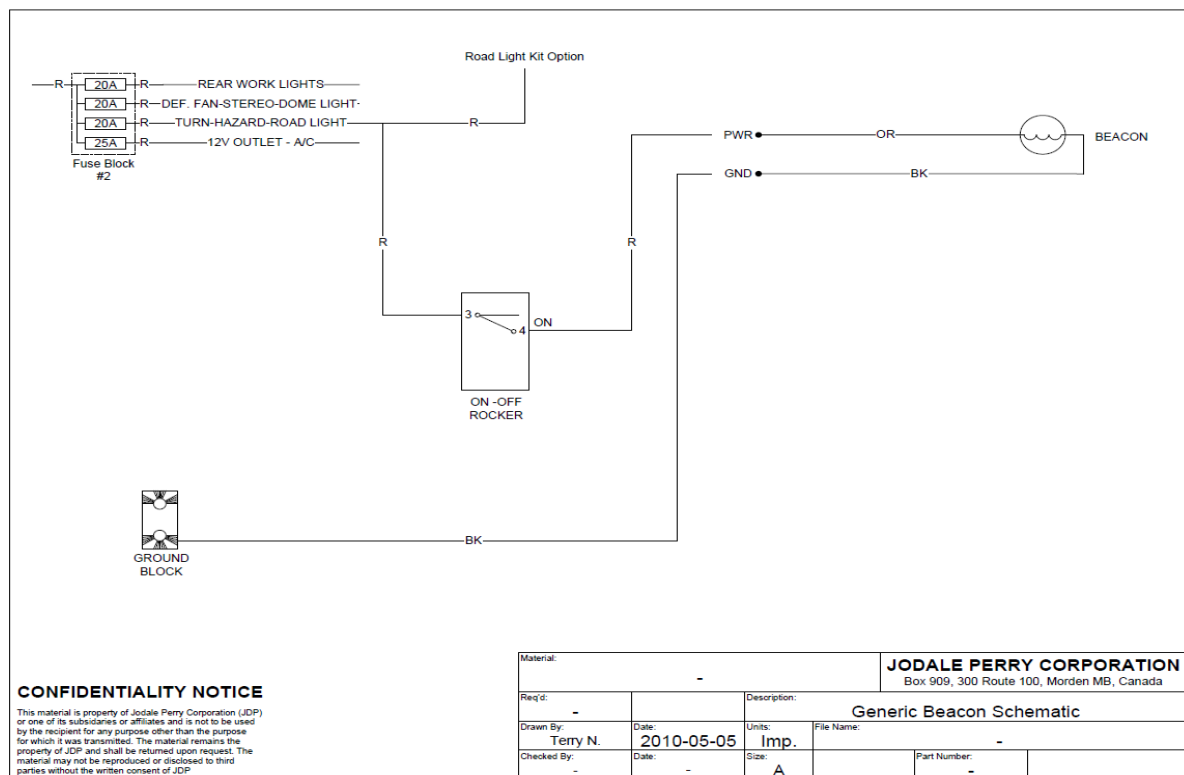


Item	Red Dot Part No.		Discription	Qty
1	RD-5-5614-0		12 Volt Double Shaft Fan Motor	1
2	RD-5-5656-0		Blower Wheel	2
3	?		Evaporator/Heater Core	1
4	RD-5-6868-0		Expansion Valve, R-134a	1
5	RD-5-6429-2		Freeze Switch Thermostat	1
6	RD-3-4351-0		Guard Resistor	1
7	RD-2-1501-1		RED DOT A/C Heater, Housing, Bottom	1
8	RD-2-1499-1		RED DOT A/C Heater, Housing, Top	1
9	RD-5-3647-0		Resistor	1

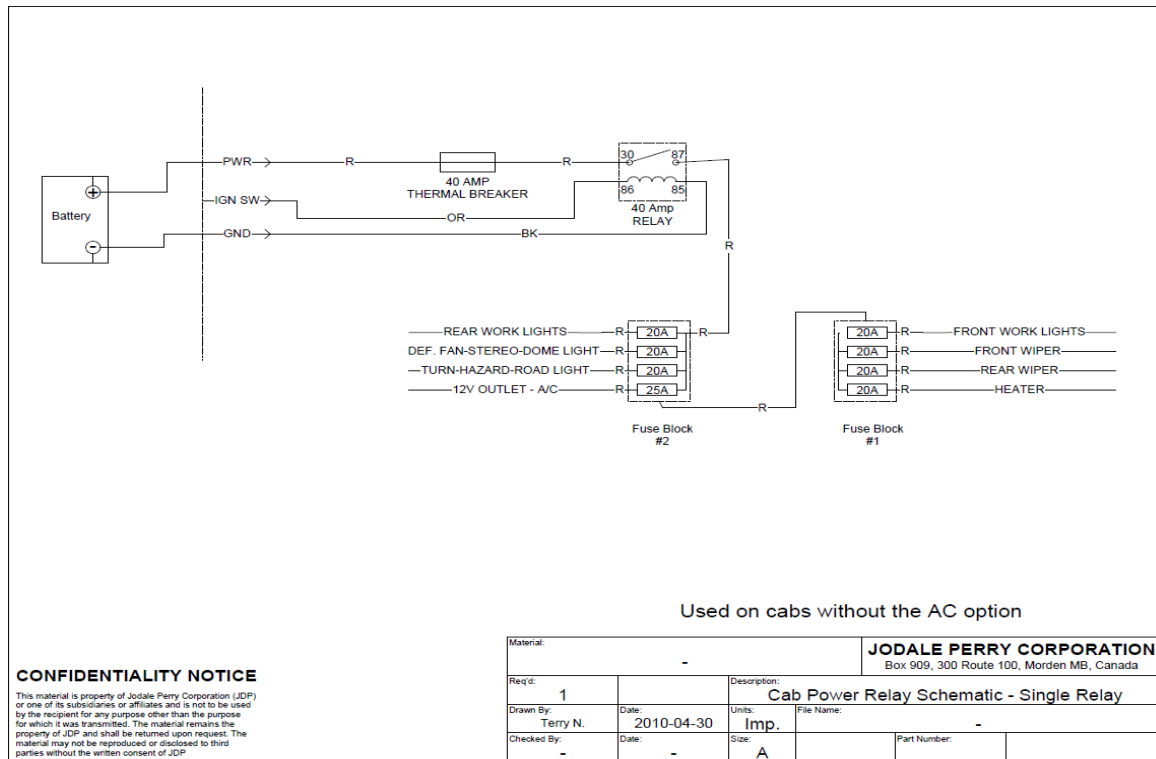
1. Generic - 12 Volt DC Outlet



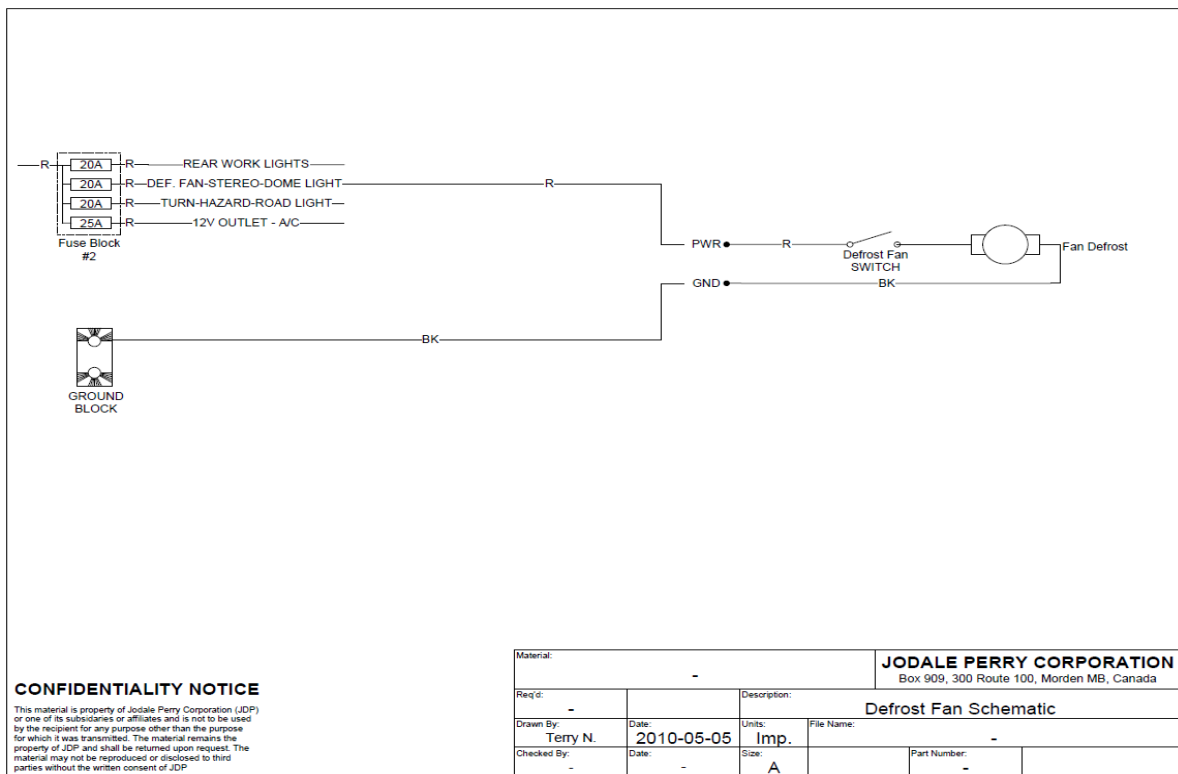
2. Beacon Schematic- Generic



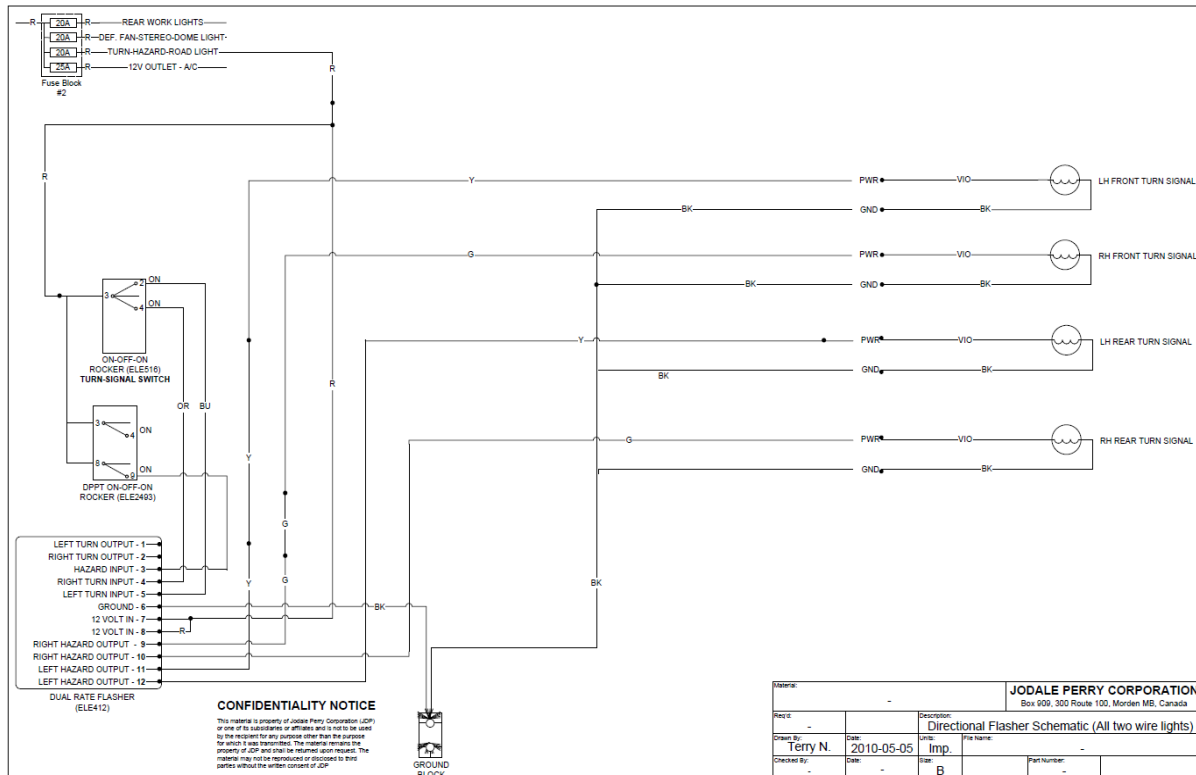
3. Cab Power supply Relay Schematics– Single



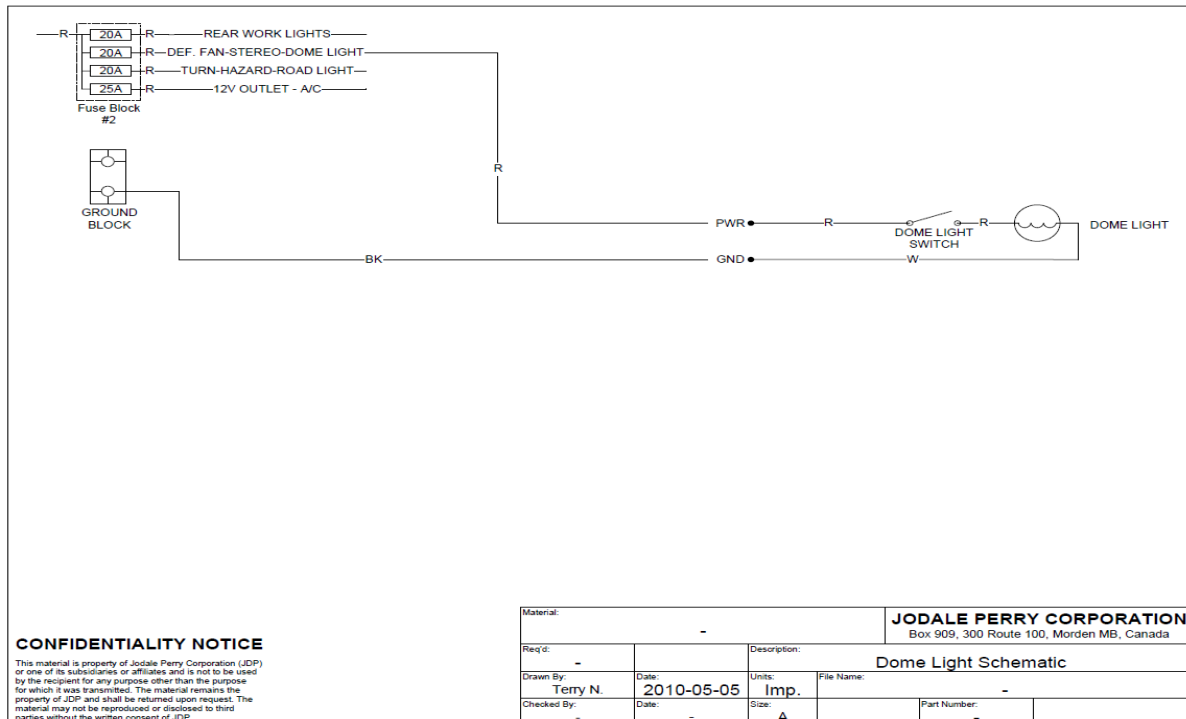
4. Defrost Fan Schematics– Generic



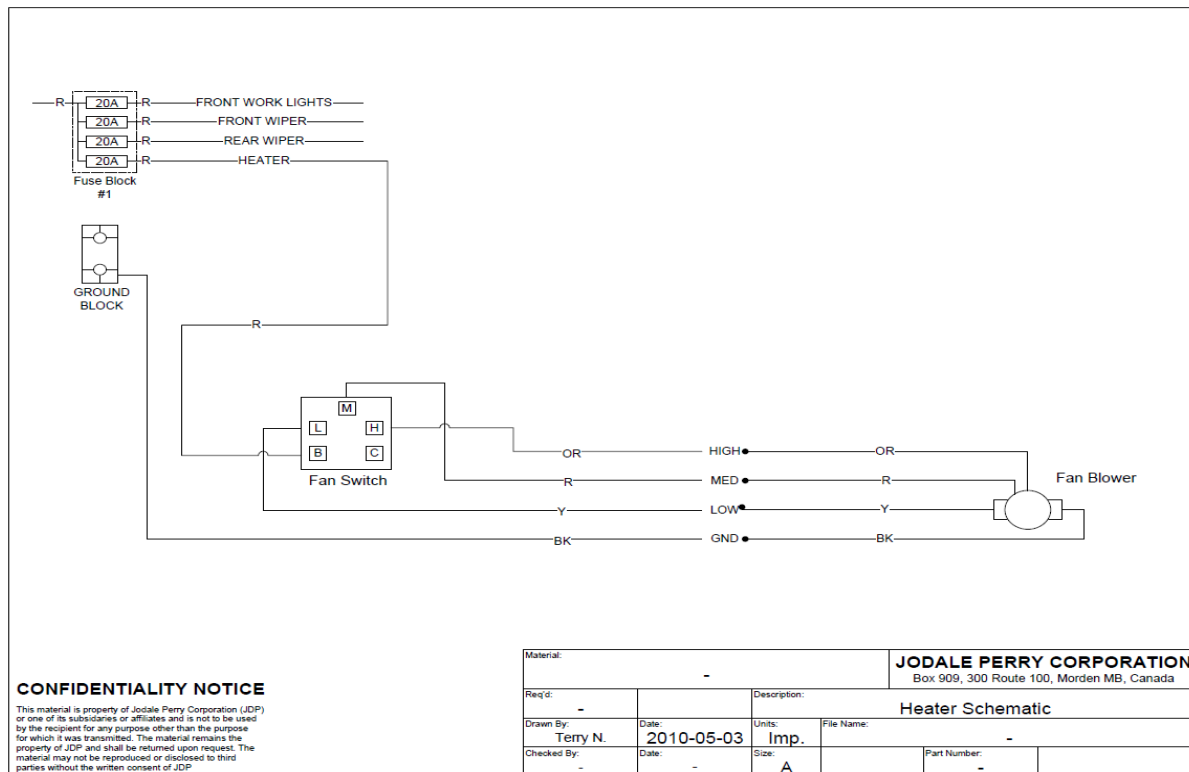
5. Directional Flasher Schematic (All two wire lights) ---Generic



6. Dome Light Schematic --- Generic



7. Heater Schematic --- Generic



8. Wiper and Wiper Washer - Front or Rear ----

