

JOHN DEERE
WORLDWIDE COMMERCIAL & CONSUMER
EQUIPMENT DIVISION

Cab
For ProGator® Utility Vehicles
2020 and 2030
OMVG10759 F1
OPERATOR'S MANUAL



JOHN DEERE

Export Version
Litho in U.S.A.



INTRODUCTION

Thank You for Purchasing a John Deere Product

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you sell it.

Reading your operator's manual will help you and others avoid personal injury or damage to the machine. Information given in this manual will provide the operator with the safest and most effective use of the machine. Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

This manual and safety signs on your machine may also be available in other languages (see your John Deere dealer to order).

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages and learn the controls so you can operate this machine safely. You can also use this manual to answer any specific operating or servicing questions. A convenient index located at the end of this book will help you to find needed information quickly.

The machine shown in this manual may differ slightly from your machine, but will be similar enough to help you understand our instructions.

RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward. When you see a broken line arrow (----->), the item referred to is hidden from view.

Before delivering this machine, your dealer performed a pre-delivery inspection to ensure best performance.

Machine Use

This Utility Vehicle is designed solely for use in golf course turf care operations and for park and amenity area maintenance. Use in any other way is considered as contrary to the intended use.

The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

This Utility Vehicle should be operated, serviced and repaired only by persons familiar with all its particular

characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine must be observed at all times.

Any arbitrary modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

Special Messages

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.



CAUTION: Avoid injury!

This symbol and text highlight potential hazards or death to the operator or bystanders that may occur if the hazards or procedures are ignored.

IMPORTANT: Avoid damage! This text is used to tell the operator of actions or conditions that might result in damage to the machine.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

PRODUCT IDENTIFICATION

Record Product Purchase Information

Record your purchase information in the spaces provided below.



MX3297

DATE OF PURCHASE:

DEALER NAME:

DEALER PHONE:

TABLE OF CONTENTS

Safety	1
Operating Cab Controls	3
Replacement Parts	8
Service Intervals	9
Service Electrical	10
Service Miscellaneous	12
Troubleshooting	15
Assembly	17
Index	32

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Consumer Equipment Division
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OMVG10759 F1 - English

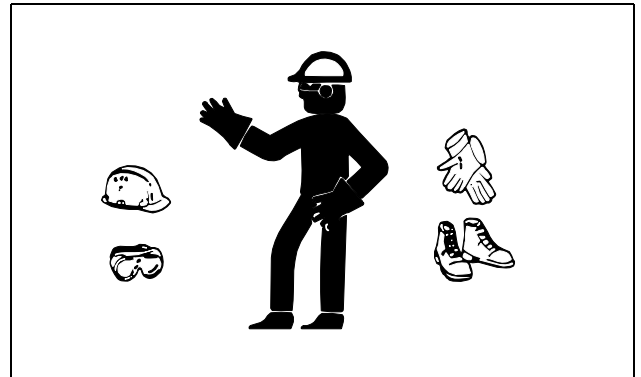
SAFETY

Pictorial Safety Signs



At several important places on this machine safety signs are affixed intended to signify potential danger. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown in this Safety Signs section.

Wear Appropriate Clothing



- Wear close fitting clothing and safety equipment appropriate for the job.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.
- Do not wear radio or music headphones. Safe service and operation requires your full attention.

Warning



MX4288

Picture Note: Safety label attached to headliner above the operator seat.

To avoid injury from chemical hazards, wear protective clothing. Read and follow chemical manufacturer's labels and instructions.

Practice Safe Maintenance



- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower attachments to the ground before servicing machine. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Securely support any machine elements that must be raised for service work.

SAFETY

- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Disconnect battery negative (-) cable before making adjustments on electrical systems or welding on machine.
- Do not modify machine. Unauthorized modifications may impair its function and safety.
- Do not wear radio or music headphones while servicing the machine. Safe service requires your full attention.

Park Vehicle Safely

- Stop the vehicle on a level surface, not on a slope.
- Lock park brake.
- Place transmission in first or reverse gear.
- Stop engine.
- Remove key.
- Before leaving the operator's seat, wait for the engine and all moving parts to stop.
- Block wheels if it is necessary to park the vehicle on an incline.

Using the Lift Cylinder Safety Support

To safely service vehicle always use the lift cylinder safety support.



CAUTION: Avoid injury! A quick release of hydraulic pressure could cause raised attachment to drop suddenly.

- **DO NOT** perform a service function under a raised attachment without the lift cylinder safety support properly installed.
- **Empty** all material from any attachment before servicing the vehicle.

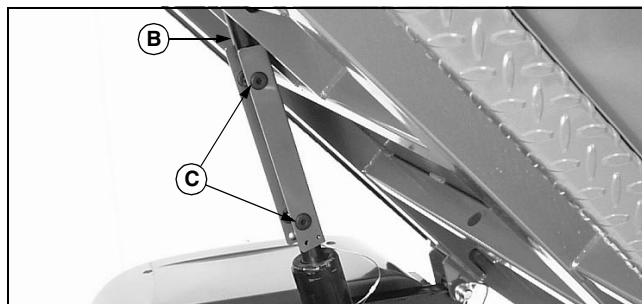
Installing:

1. Empty attachment.
2. Raise attachment to service position.
3. Stop vehicle engine.
4. Lock park brake.



MX3087

5. Remove safety support (A) from stored position in the rear of the vehicle on the right side.



MX3086

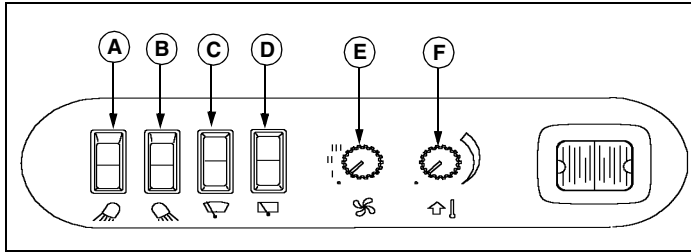
6. Install safety support on the lift cylinder rod (B). Be sure the lift cylinder rod is seated properly between the safety support rubber grommets (C).

Removing:

1. Remove safety support from the lift cylinder rod.
2. Return safety support to the stored position.
3. Lower attachment.

OPERATING CAB CONTROLS

Operating the Headliner Controls



- A - Front Work Light Switch (Option)**
- B - Rear Work Light Switch (Option)**
- C - Front Wiper Switch**
- D - Rear Wiper Switch (Option)**
- E - Fan Speed Control Knob (Option)**
- F - Heater Control Knob (Option)**

Front Work Lights (Option)

NOTE: Lights will operate with the vehicle key switch in any position.

Front work light switch (A) controls the operation of both work lights mounted on the front of the cab headliner.

- Depress top of switch to turn the front work lights ON.
- Depress bottom of switch to turn the front work lights OFF.

Rear Work Light (Option)

NOTE: Lights will operate with the vehicle key switch in any position.

Rear work light switch (B) controls the operation of the work light mounted on the rear of the cab headliner on the left side.

- Depress top of switch to turn the rear work light ON.
- Depress bottom of switch to turn the rear work light OFF.

Front Wiper Switch

IMPORTANT: Avoid damage! Operating the wiper on a dry window for an extended period of time will damage the motor.

NOTE: Front wiper will operate with the vehicle key switch in any position.

Front wiper switch (C) controls the operation of the front windshield wiper motor.

- Depress top of switch to operate front wiper at a fast speed.
- Depress bottom of switch to operate front wiper at a slow speed.

- Return switch to the centered position to turn the front wiper off.

Rear Wiper Switch (Option)

IMPORTANT: Avoid damage! Operating the wiper on a dry window for an extended period of time will damage the motor.

NOTE: Rear wiper will operate with the vehicle key switch in any position.

Rear wiper switch (D) controls the operation of the rear windshield wiper motor.

- Depress top of switch to operate rear wiper at a fast speed.
- Depress bottom of switch to operate rear wiper at a slow speed.
- Return switch to the centered position to turn the rear wiper off.

Fan Speed Control Knob (Option)

Fan speed control knob (E) controls the operating speed of the cab fan.

- Turn the fan speed control knob to position “I” for low fan speed operation.
- Turn the fan speed control knob to position “II” for medium fan speed operation.
- Turn the fan speed control knob to position “III” for high fan speed operation.

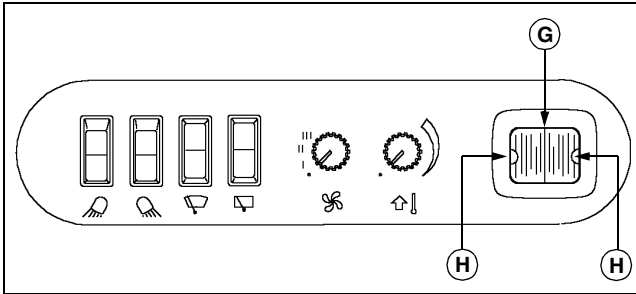
Heater Control Knob (Option)

Heater control knob (F) controls the operation of the heater temperature control. Use the heater control knob and fan speed knob to regulate the temperature inside the cab.

- Turning the heater control knob completely counterclockwise will fully open the pressure valve and provide the greatest amount of heat.
- Turning the heater control knob completely clockwise will completely close the valve and no heat will be provided.
- Adjust the heater control knob to a desirable operating position.

OPERATING CAB CONTROLS

Dome Light (Option)



NOTE: Dome light (G) will operate with the vehicle key switch in any position.

- Depress the left or right side of the dome light lens at location (H) to turn the dome light ON.
- Return the dome light to the centered position to turn the dome light OFF.

Air Louvers (Option)



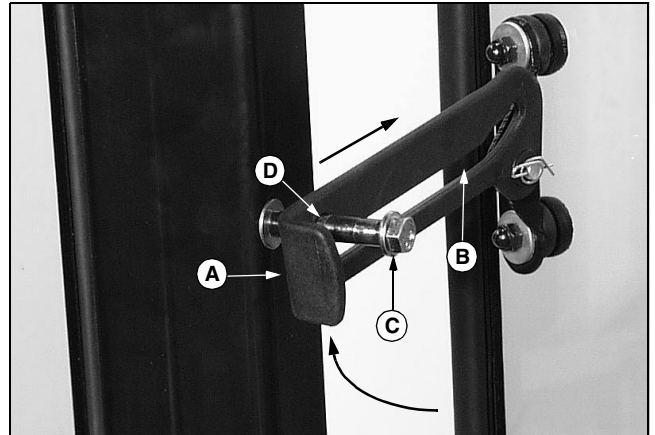
MX4280

Two adjustable air louvers (I) are installed in the cab headliner. The air louvers can be completely opened or closed and can be rotated 360 degrees to direct air flow. Air volume is controlled by using the fan speed knob and temperature is controlled by using the heater control knob. Adjust each air louver to a desirable operating position.

Operating the Cab Side Windows

The cab side windows can be operated in a open/locked position or closed/locked position.

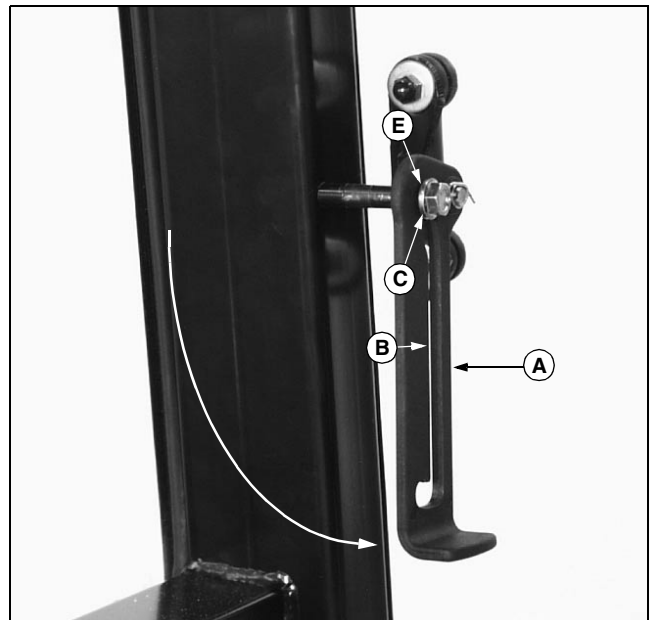
Open Windows



MX3295

1. Rotate window slider (A) upward to release window from the closed/locked position.
2. Push slider outward along slotted channel (B) until window is fully open.
3. Secure window open.
 - Bolt (C) must fully engage notch (D) in slider to lock window in the open/locked position.

Close Windows

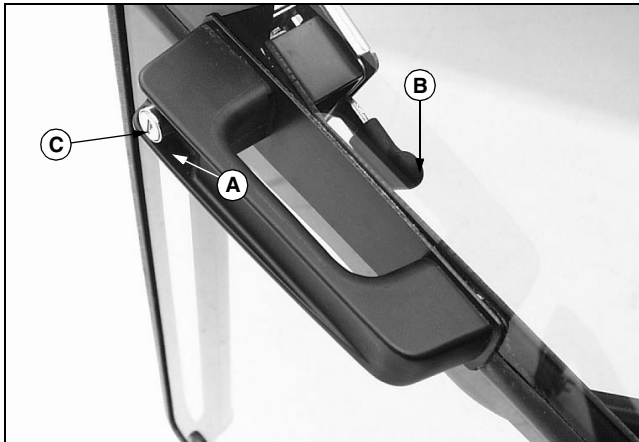


MX3296

1. Lift window slider (A) to release window from the open/locked position.
2. Pull slider inward along slotted channel (B) until slider rotates downward and window is fully closed.
3. Secure window closed.
 - Bolt (C) must fully engage notch (E) in slider to lock window in the closed/locked position.

OPERATING CAB CONTROLS

Operating the Cab Door Handles



MX4281

Opening Cab Doors

1. Depress door handle button (A) to open cab door from outside the vehicle.
2. Push lever (B) down to open cab door from inside the vehicle.

Locking Cab Doors

NOTE: Each cab door can be locked from outside the vehicle. Use key set provided to prevent unauthorized entry.

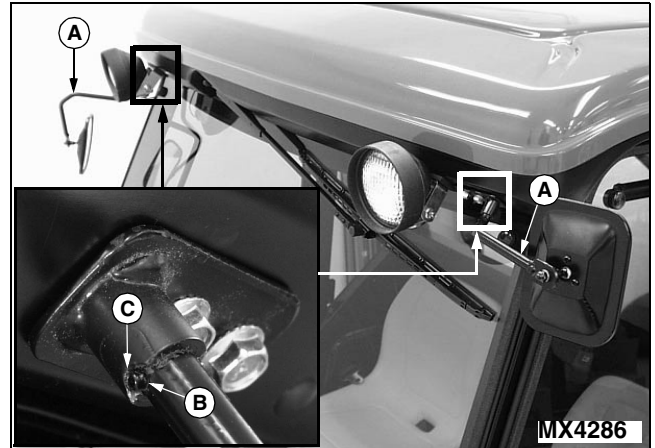
1. Insert key into door locking mechanism (C).
2. Rotate key 1/4 turn counterclockwise to lock door.
3. Remove key.

Adjusting the Cab Mirrors (Option)

Adjust Mirror Pivot

1. Park vehicle safely. (See **Park Safely** in the **Safety** section.)
2. Pivot each mirror (A) to a desirable operating position. The line of sight to the rear and sides of the vehicle should be clearly visible from the operator's seat.

Checking and Adjusting Mirror Spring Tension

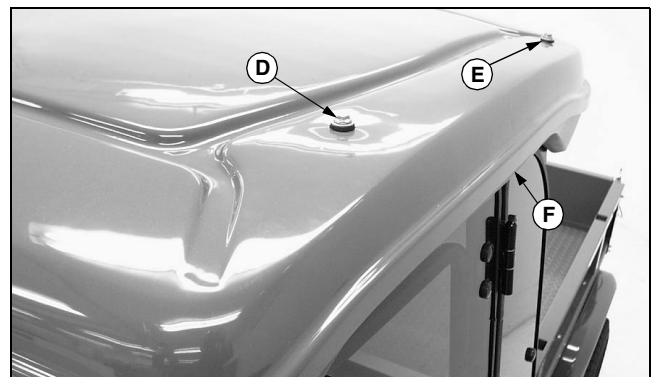


MX4286

Check Adjustment:

- Carefully fold each mirror bracket bar (A) inward and outward to check spring tension.
- When properly tensioned rolled pin (B) installed in each bracket bar end must engage mounting bracket notch (C).
- If a bracket bar cannot be folded inward and outward using minimal effort or a bracket bar can pivot freely with little to no resistance, a spring tension adjustment is required.

Adjust Spring Tension:



MX3953

1. Remove M8 x 90 hex flange bolt (D) and M8 x 80 hex flange bolt (E) from each side of the cab roof (F).
2. Carefully remove the roof from the headliner.

OPERATING CAB CONTROLS

IMPORTANT: Avoid damage! Do not over tension bracket bar attaching hardware. The bracket bars must have the capability to fold inward or outward if a mirror assembly should strike a protruding object while the vehicle is in motion.



3. Adjust bracket bar spring tension.
 - Turn nut (G) clockwise to increase spring tension.
 - Turn nut (G) counterclockwise decrease spring tension.
4. Check and adjust bracket bar spring tension when necessary.
5. Install cab roof.

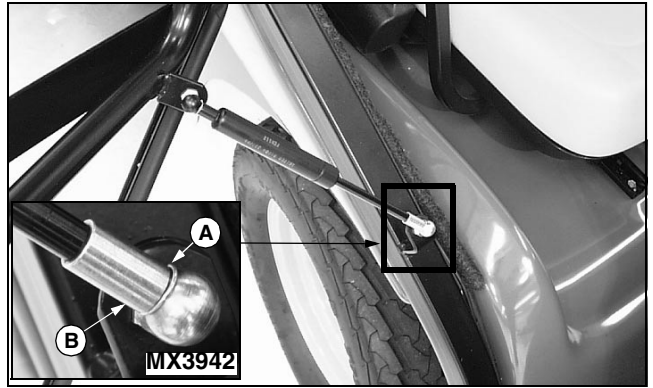
Removing Cab Doors and Side Windows



CAUTION: Avoid injury! Always wear safety glasses and be extremely cautious when handling the glass components.

Remove Cab Doors

1. Park safely. (See **Park Vehicle Safely** in the **Safety** section.)
2. Open cab door.



MX3299

3. Remove spring clip (A) attaching the gas shock end (B) to the B-post ball stud.
4. Lift gas shock end from the B-post ball stud.
5. Install spring clip into gas shock end for storage.

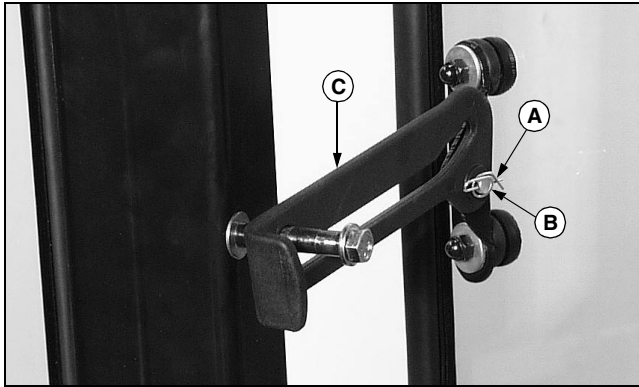


MX3297

6. Carefully lift door frame to remove hinge tubes (C) from the hinge pins.
 - It may be necessary to move each door frame back and forth and apply slight upward pressure at the bottom of the frame to remove each door from the hinge pins.
7. Remove brass washer (D) from each hinge pin.

OPERATING CAB CONTROLS

Removing Side Windows



MX3295

1. Remove locking pin (A) from stud (B) to disconnect window slider (C) from the side window.
2. Install locking pin into stud for storage.



MX3289

3. Carefully lift bottom of window frame to remove hinge pins (D) from hinge tubes (E).
 - It may be necessary to move each window frame back and forth and apply slight upward pressure at the bottom of the frame to remove door hinge pins from the hinge tubes.
4. Remove brass washer (F) from the top of each hinge tube.
 - Retain all brass hinge pin washers in a safe location to prevent loss.
5. Store doors and side windows in a safe location to prevent breakage.

REPLACEMENT PARTS

Service Literature

If you would like a copy of the Parts Catalog or Technical Manual for this machine call:

- **U.S. & Canada:** 1-800-522-7448.
- **All Other Regions:** Your John Deere dealer.

John Deere Parts

WE RECOMMEND JOHN DEERE quality parts and lubricants, available at your John Deere dealer.

PART NUMBERS MAY CHANGE, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

WHEN YOU ORDER PARTS, your John Deere dealer needs your machine serial number. This is the number you have recorded in the **INTRODUCTION** section in the front of this manual.

ITEM	PART NUMBER
Air Filter Element (2 Required)	M142684
Dome Light Bulb	M142673
20 Amp Fuse (Fuse Block)	57M7120
30 Amp Fuse (Main Wire Harness)	57M7146
Wiper Blade (Front Wiper)	M129975
Wiper Blade (Rear Wiper)	M142663

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

SERVICE INTERVALS

Servicing Your Cab

Please use the following timetables to perform routine maintenance on your cab.

IMPORTANT: Avoid damage! If you operate vehicle in extreme heat, dust or other severe conditions, service more often than shown below.

Before Each Use

- Check operation of front wiper.
- Check operation of rear wiper. (Option)
- Check operation of front and rear work lights. (Option)
- Check operation of dome light. (Option)
- Check operation of fan speed control. (Option)
- Check operation of heater control. (Option)
- Adjust rear view mirrors. (Option)

After Each Use

- Clean windshield, side windows and rear window.
- Check condition of front wiper blade.
- Check condition of rear wiper blade. (Option)

Every 100 Hours

- Check air cleaner elements.

As Needed

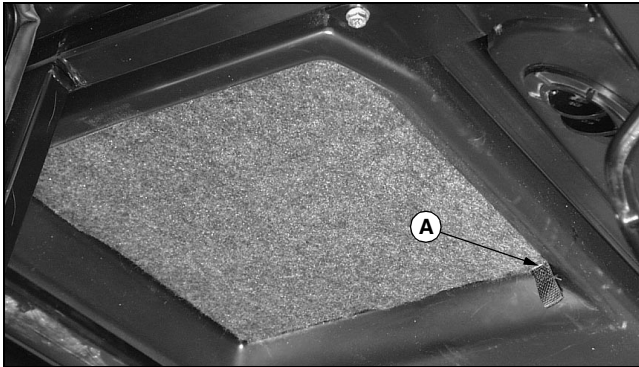
- Replace dome light bulb. (Option)
- Replace fuse-main wire harness.
- Replace fuse(s)-fuse block.
- Replace air cleaner elements.
- Replace front wiper blade.
- Replace rear wiper blade. (Option)
- Check and adjust arm length-rear wiper arm. (Option)
- Adjust rear view mirror pivot. (Option)
- Check and adjust mirror spring tension. (Option)

SERVICE ELECTRICAL

Replacing Fuses (Main and Auxiliary Fuse Blocks)

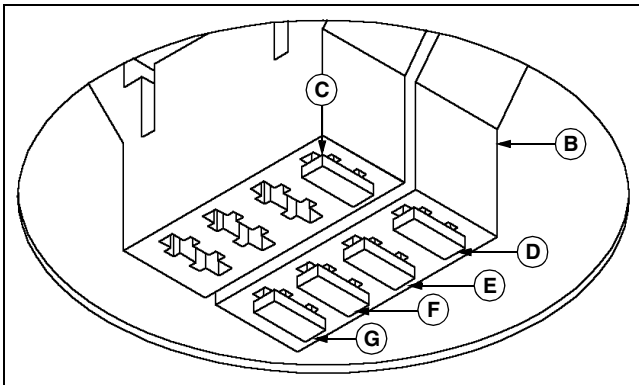
IMPORTANT: Avoid damage! The electrical system may be damaged if incorrect replacement fuses are used. Replace bad fuse with a fuse of the same amp rating.

1. Park safely. (See **Park Vehicle Safely** in the **Safety** section.)



MX3408

2. Locate headliner tab (A) above the passenger seat.



Picture Note: Optional rear wiper kit will require installation of auxiliary fuse block.

3. Pull tab down to locate cab fuse block (B).

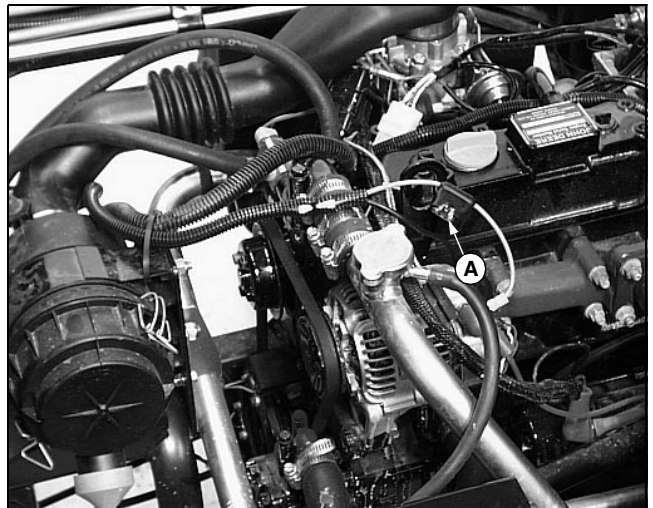
FUSE IDENTIFICATION	
Location	Description
C	Rear Wiper (Option)
D	Heater/Defroster (Option)
E	Front Wiper
F	Front Work Lights (Option)
G	Rear Work Light (Option)

4. Remove defective fuse from socket.
5. Install new 20 amp fuse into socket.
6. Attach tab (A) to the headliner.

Replacing Fuse (Power Wire Harness)

IMPORTANT: Avoid damage! The electrical system may be damaged if incorrect replacement fuses are used. Replace bad fuse with a fuse of the same amp rating.

1. Empty cargo box.
2. Raise attachment to service position. (See **Using the Lift Cylinder Safety Support** in the **Safety** section.)
3. Park safely. (See **Park Vehicle Safely** in the **Safety** section.)



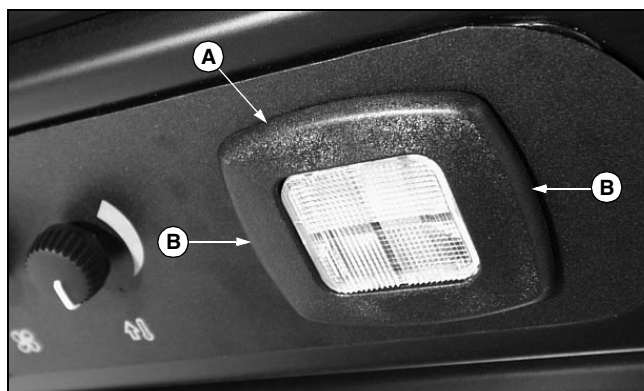
MX4290

4. Locate fuse (A) in cab power wire harness.
5. Remove defective fuse from socket.
6. Install new 30 amp fuse into socket.
7. Lower attachment.

Replacing Dome Light Bulb (Optional)

1. Park safely. (See **Park Vehicle Safely** in the **Safety** section.)

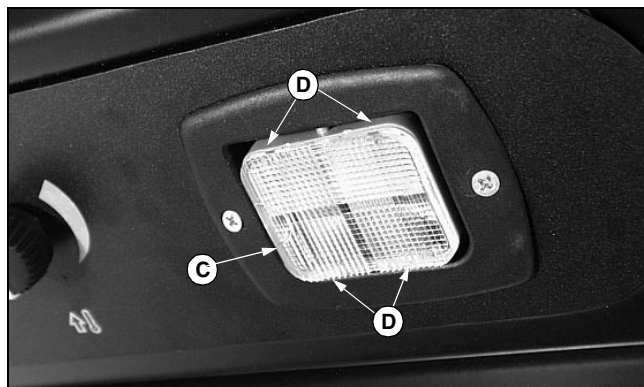
SERVICE ELECTRICAL



MX4291

2. Remove assembly trim ring (A).

- Grasp each side of trim ring at location (B). Pull trim ring evenly and firmly outward to remove.



MX4292

3. Remove lens (C).

- Carefully pry lens from assembly housing with a flat screwdriver inserted into notches (D) at the top and/or bottom of the lens.



MX4293

4. Pull defective bulb (E) from the socket.
5. Push new bulb into socket.
6. Check operation of light.
7. Install lens.
8. Install trim ring.

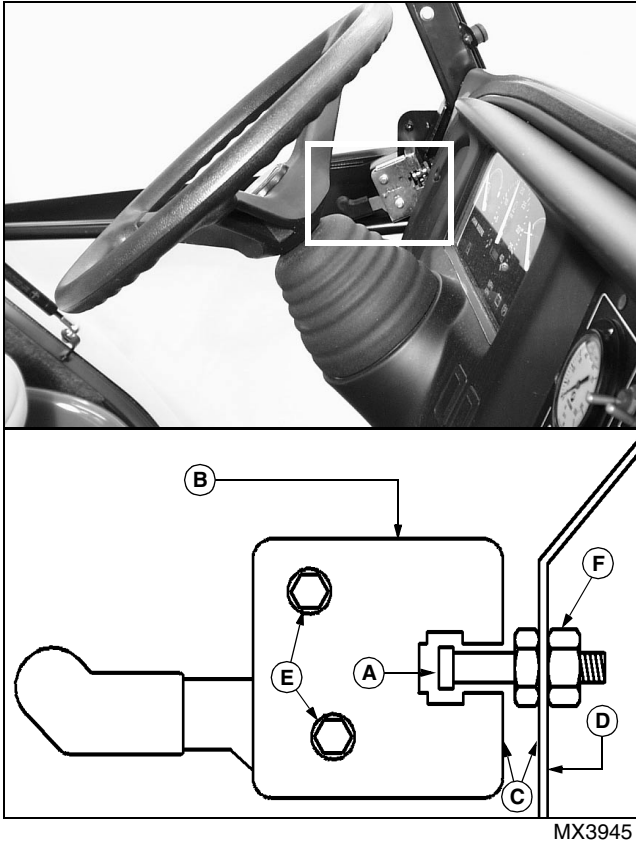
SERVICE MISCELLANEOUS

Checking and Adjusting the Door Latches

IMPORTANT: Avoid damage! Do not slam or forcefully latch the doors into a closed position without checking the striker bolt and door latch assembly adjustments.

NOTE: Each door latch assembly and striker bolt can be adjusted.

Check Adjustment



1. While seated in the vehicle, close each door only far enough to check the striker bolt (A) and door latch (B) alignment.

- If adjusted properly, the striker bolt should pass through the center of the latch opening with the distance (C) between the rear of the latch and the front of the A-C crossmember (D) approximately 9 mm (3/8 in.).
- If the position of the striker bolt is not correct, an adjustment is necessary.

Adjust Door Latches

1. Loosen bolts (E) to adjust door latch forward or rearward.
2. Tighten bolts. Check adjustment.
3. Loosen jam nut (F) to move the striker bolt up and down

in the adjustment slot.

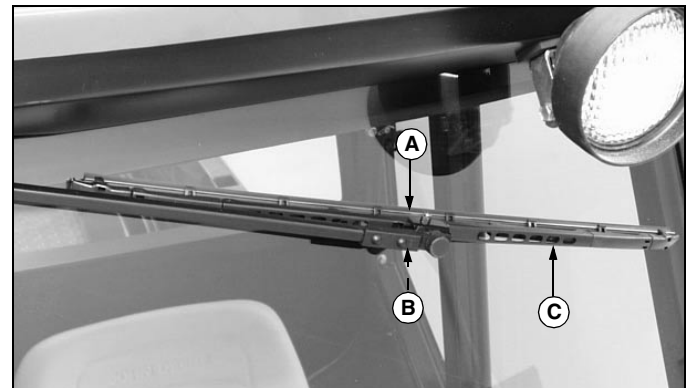
4. Tighten jam nut. Check adjustment.
5. Check and adjust each striker bolt and door latch as necessary.

Checking and Replacing the Front Wiper Blade

Check Wiper Blade

1. Check rubber element for excessive wear, damage or cracking.
2. Replace wiper blade assembly if necessary.

Replace Wiper Blade



1. Remove lock nut (A) and screw (B).
2. Carefully remove wiper blade assembly (C) from the wiper arm.
3. Fasten new wiper blade assembly to the wiper arm with lock nut (A) and screw (B).

Checking and Replacing the Rear Wiper Blade (Optional)

Check Wiper Blade

1. Check rubber element for excessive wear, damage or cracking.
2. Replace wiper blade assembly if necessary.

SERVICE MISCELLANEOUS

Replace Wiper Blade



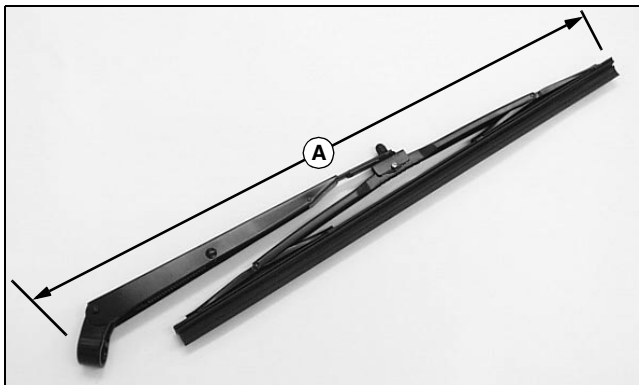
MX4296

1. Remove lock nut (A) and screw (B).
2. Carefully remove wiper blade assembly (C) from the wiper arm.
3. Fasten new wiper blade assembly to the wiper arm with lock nut (A) and screw (B).

Adjusting the Rear Wiper Arm Assembly (Optional)

Check Arm Length

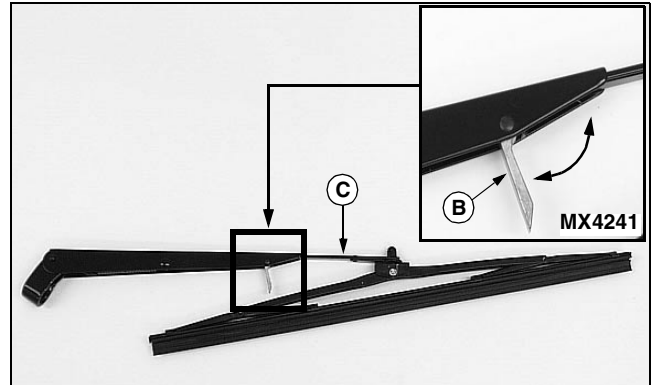
NOTE: Wiper arm assembly removed from wiper motor shaft to illustrate photo clarity.



MX4184

1. Check wiper arm assembly dimension (A).
 - A properly adjusted wiper arm assembly should measure 52 cm (20.5 in) long.
2. Adjust length of wiper arm if necessary.

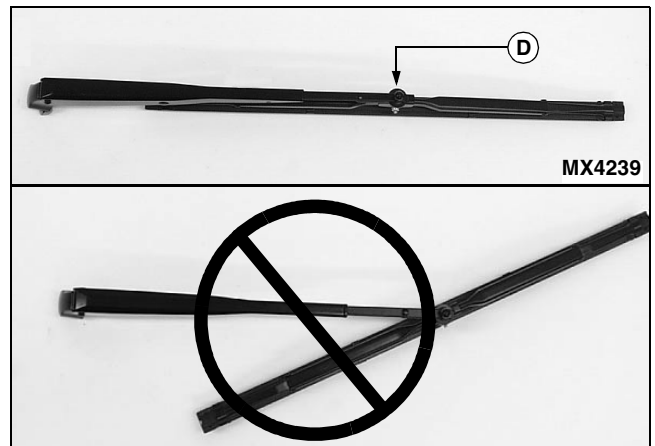
Adjust Arm Length



MX4238

1. Open locking tab (B).
2. Adjust wiper arm to the appropriate length by sliding retractable arm (C).
3. Check measurement.
4. Close locking tab.

Check Angle of Wipe



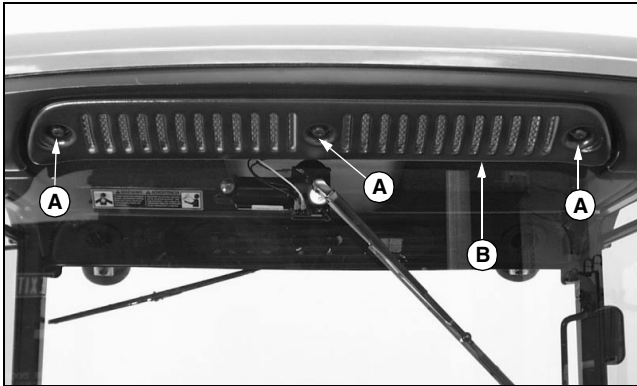
MX4240

The angle of wipe can be adjusted. For this application the wiper blade must remain in a fixed position parallel with the wiper arm. Make sure acorn nut (D) is tightened.

SERVICE MISCELLANEOUS

Servicing Air Filter Elements (Optional)

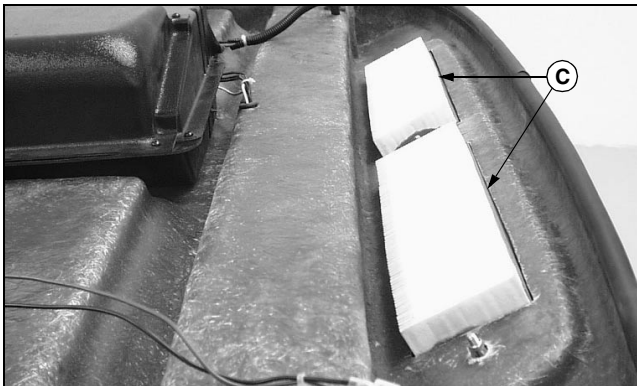
NOTE: If cab is equipped with a heater/defroster kit, this service procedure will be required.



MX4307

1. Remove knobs (A) and air intake grill (B) from the rear of the headliner.
2. Remove and discard both paper elements.
3. Clean air intake grill with a brush or water.

NOTE: Cab roof removed to illustrate photo clarity. Removal of cab roof is not required to replace filter elements.



MX4226

4. Install filter elements (C) into headliner openings in direction shown.
5. Install air intake grill (B) and knobs (A). Do not overtighten knobs.

TROUBLESHOOTING

Using Troubleshooting Chart

If you are experiencing a problem that is not listed in this chart, see your John Deere dealer for service.

When you have checked all the possible causes listed and you are still experiencing the problem, see your John Deere dealer.

Cab Electrical

IF	CHECK
All Cab Electrical Switches Will Not Operate	Charge/replace vehicle battery. Defective fuse-power wire harness. Faulty wiring or loose connections.

Front Wiper or Rear Wiper (Optional)

IF	CHECK
Poor Wiper Performance	Wiper blade worn or damaged. Wiper arm not properly adjusted. (Rear wiper only)
Wiper Will Not Operate	Charge/replace vehicle battery. Defective fuse-cab fuse block. Defective fuse-power wire harness. Defective switch. Faulty wiring or loose connections. Defective wiper motor.

Lights (Optional)

IF	CHECK
Light(s) Will Not Operate	Charge/replace vehicle battery. Defective fuse-power wire harness. Defective fuse(s)-cab fuse block. Defective switch(es). Defective bulb. (dome light) Faulty wiring or loose connections.

TROUBLESHOOTING

Heater/Defroster (Optional)

IF	CHECK
Heater/Fan Will Not Operate	Charge/replace vehicle battery. Defective fuse-power wire harness. Defective fuse-cab fuse block. Faulty wiring or loose connections. Defective fan motor. Defective fan switch.
Heater Will Not Provide Heat	Vehicle coolant level low-add if necessary. Faulty or loose cable connections. Defective heater control valve. Heater core or hoses clogged or damaged. Defective vehicle thermostat. (See your John Deere Dealer)
Air Flow Inadequate	Adjust fan speed. Dirty or clogged air filter elements-replace if necessary. Adjust directional air louvers. Defective fan motor.

Mirrors (Optional)

IF	CHECK
Mirror Bracket Bars Will Not Fold Inward Or Outward Using Minimal Effort	Adjust bracket bar spring tension.
Mirror pivot too loose or too tight.	Adjust ball joint pivot.

ASSEMBLY

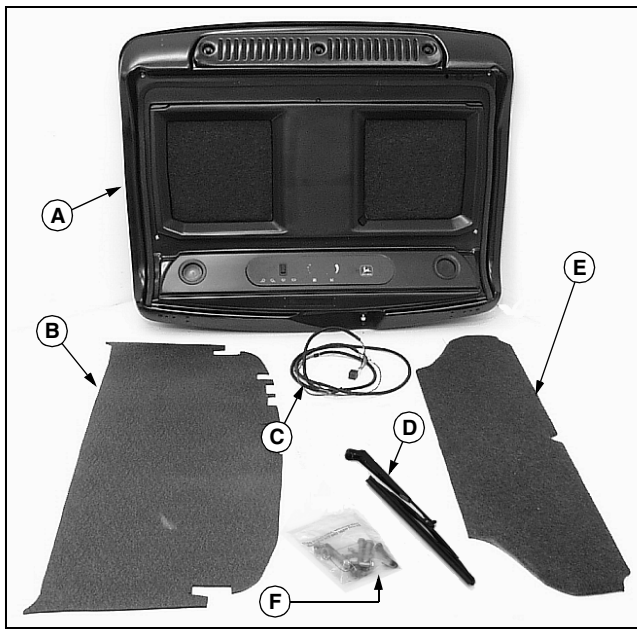
Identify Parts



CAUTION: Avoid injury! Wear safety glasses during the assembly procedure, especially when handling the glass components.

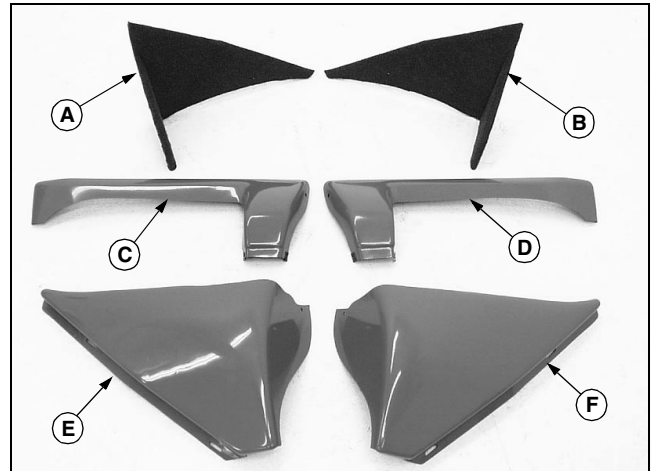
Reduce the risk of personal injury and damage to assembly components. Use the assistance of a helper when unloading the contents of the cab shipping crate.

NOTE: Before assembling the cab, the Heavy Duty Leaf Spring Kit (BM20433) and 4-Post ROPS kit (VGB10030) must be ordered and installed onto the vehicle.



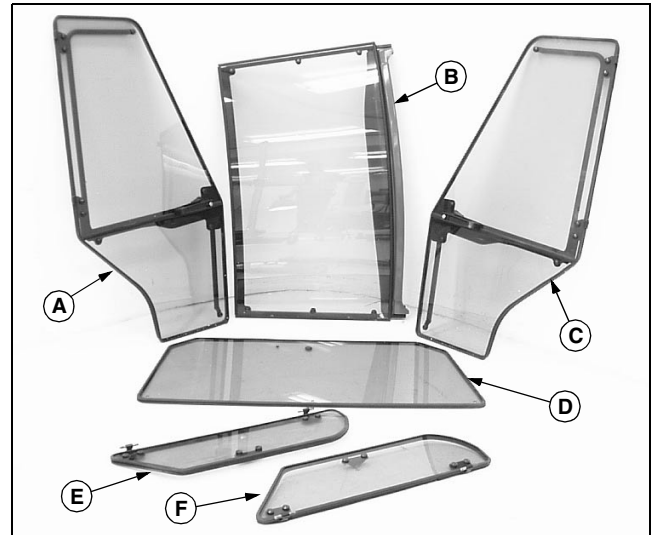
MX3145

- A - Roof/Headliner
- B - Floormat
- C - Power Wire Harness
- D - Wiper Arm and Blade Assembly
- E - Rear Shield Upholstery Panel
- F - Bag of Parts



MX3154

- A - Right Inner Side Panel
- B - Left Inner Side Panel
- C - Left Front Fascia Panel
- D - Right Front Fascia Panel
- E - Right Outer Side Panel
- F - Left Outer Side Panel



MX3146

- A - Right Door
- B - Windshield Assembly
- C - Left Door
- D - Rear Window
- E - Left Side Window
- F - Right Side Window

ASSEMBLY



A - Left B Post Crossmember

B - Right B Post Crossmember

NOTE: Assembly parts shown are shipped inside the roof/headliner.

Bag of Parts (Headliner)

Qty.	Description
4	Coupler Nut
2	M8x30 Hex Flange Bolt
2	M8x80 Hex Flange Bolt w/ M8 Flat Washer and 5mm Rubber Bushing Installed
2	M8x90 Hex Flange Bolt w/ M8 Flat Washer and 5mm Rubber Bushing Installed
2	M8x70 Carriage Bolt
4	M8 Flat Washer
1	Plastic Grommet

Bag of Parts A (Windshield Fascia Bag)

Qty.	Description
4	M6x25 Button Head Screw
4	M8x20 Flange Bolt
2	M6 Flat Washers

Bag of Parts B (Door and Window Hardware)

Qty.	Description
2	Gas Shock with Spring Clips
2	M8x60 Hex Flange Bolt
8	Slider Bolt Sleeve
6	Floormat Ribbed Panel Fastener
2	Key Set
8	Brass Hinge Washer
1	Right Window Slider
1	Left Window Slider
2	M8 Flat Washer
2	Cup Holder Plug

Bag of Parts C (Side Enclosure Shield Hardware)

Qty.	Description
6	M6x25 Hex Flange Bolt
8	M8x20 Hex Flange Bolt
2	M8 Flange Nut
8	1/4 in.x3/4 in. Self-Tapping Screw
2	Side Panel Mounting Bracket

Bag of Parts D (Rear Window Fasteners)

Qty.	Description
5	M6x35 Hex Bolt
5	M6 Hex Flange Nut
10	M6 Flat Washer
5	4mm Rubber Window Bushing
5	6mm Rubber Window Bushing
3	Wire Harness Fastener Clip

ASSEMBLY

Hardware Box

Qty.	Description
1	940mm 90° O-Rubber
1	Operator's Manual

Prepare For Assembly

1. Park vehicle on a hard, level surface.
2. Stop engine and lock park brake.

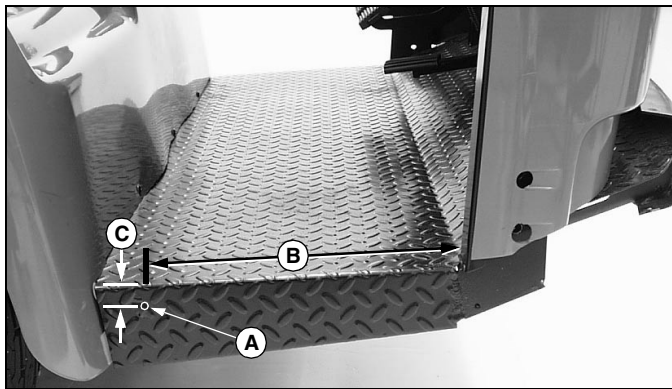


CAUTION: Avoid injury! The machine may fall or slip from an unsafe lifting device:

- Use a device rated for the load to be lifted.
- Support the machine with jack stands.

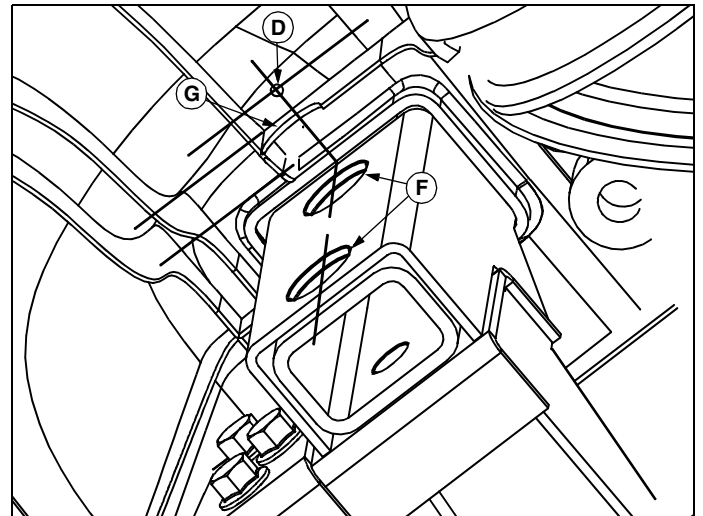
3. Raise the front of the machine and support with jack stands.
4. Remove front wheels.

Install Side Panel Mounting Brackets

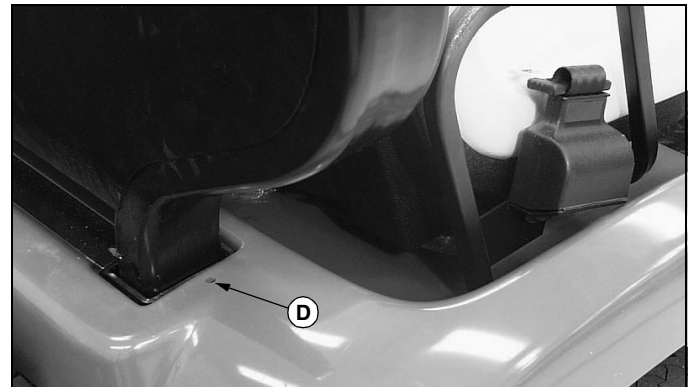


MX3198A

1. Locate and mark hole location (A) on both sides of the vehicle.
 - From the front frame edge, measure 33.5cm (13.2 in.) (B).
 - From that point, measure down 27mm (1.1 in.) (C).
 - Mark location (A).
2. Center punch and drill a 10mm (13/32 in.) hole (A). File off any burrs.



3. Locate and mark hole location (D) on the bottom of the seat base on each side of the vehicle.
 - The hole must be located 13mm (1/2 in.) from rib (G).
 - Hole (D) must be on center with the ROPS mounting holes (F).

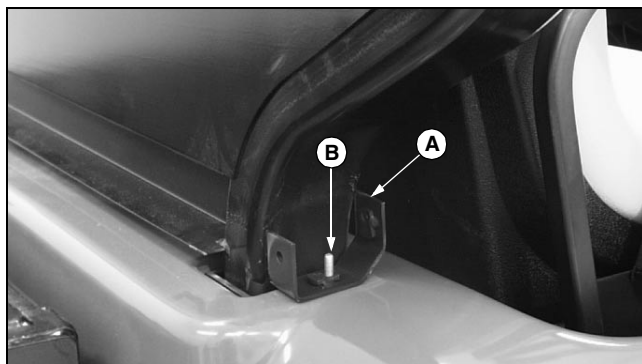


MX3239

4. From the bottom, drill an 8mm (5/16 in.) hole (D) through the top of the seat base on each side of the vehicle.

ASSEMBLY

NOTE: Mounting brackets must be attached to the seat base in the position shown with the mounting hardware installed from the bottom.



MX3255

5. Fasten each mounting bracket (A) to the seat base with one M6x25 hex flange bolt (B).

- Offset leg must face forward and straight leg must face to the rear.

6. Install ROPS mounting hardware previously removed from each side of the vehicle. Do not tighten.

7. Install both front wheels.

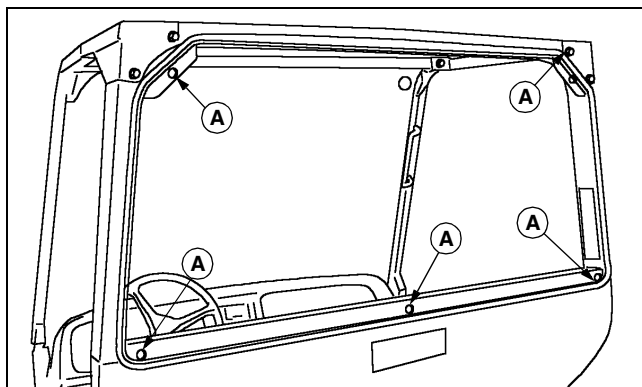
8. Lower vehicle.

Install the Rear Window

NOTE: The assistance of a helper will be needed to complete the following assembly procedure.

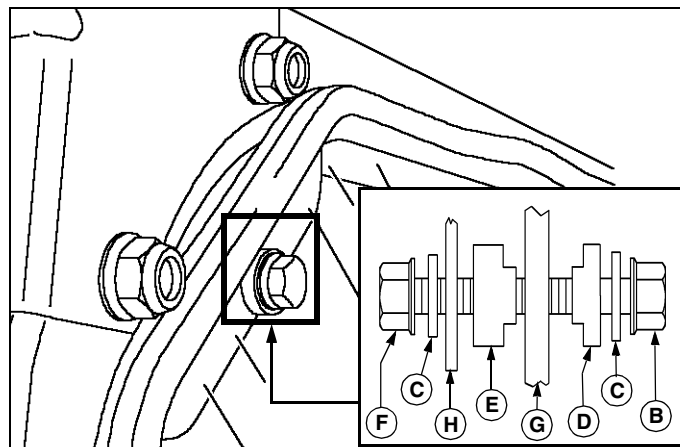
1. Raise attachment to the service position. (See **Using the Lift Cylinder Safety Support** in the **Safety** section.)

NOTE: The side of the window with the O-rubber must face to the inside when installed.



2. Position the rear window against the rear of the ROPS until the five mounting holes (A) align.

IMPORTANT: Avoid damage! The rear window will break if the attaching hardware is over tightened.



Picture Note: Bolt shown installed from the outside to the inside of the cab. Make sure the 5mm rubber bushings are on the outside of the window and the 8mm bushings are on the inside.

3. Attach the window to the ROPS using five M6x35 hex bolts (B), ten M6 flat washers (C), five 4mm rubber bushings (D), five 6mm rubber bushings (E), and five M6 hex flange nuts (F).

- Install one M6 flat washer and one 4mm rubber bushing onto each M6x35 hex bolt. With one 6mm rubber bushing positioned between the window (G) and the ROPS (H), install each bolt from the outside to the inside of the cab. Install washers and hex flange nuts.
- Tighten hardware only until rubber window bushings begin to compress. Do not overtighten.

Install Front Windshield Frame

NOTE: The assistance of a helper will be needed to complete the following assembly procedure.

1. Position the front windshield frame between the right and left ROPS posts.

- Insert the bottom corners of the windshield frame between each ROPS post first.

NOTE: It may be necessary to loosen attaching hardware on one front ROPS post.

2. Carefully slide the top of the windshield frame between the two ROPS posts.

3. Slide the windshield frame up or down until the windshield frame slots are centered with the holes inside the ROPS posts on each side.

ASSEMBLY



MX3248

4. Attach each side of the windshield frame to the ROPS post using two M8x20 hex flange bolts (A).

- Tighten bolts to 19-21 N•m (14-16 lb-ft.).

5. Tighten all hardware.

Tighten Crossmember and ROPS Hardware

NOTE: If hardware was loosened earlier then tighten to the torque values as follows.

Tighten A–C crossmember, A–A crossmember and ROPS mounting hardware to the following specifications:

- Tighten M10 bolts to 39-43 N•m (29-32 lb-ft.).
- Tighten M12 bolts to 67-74 N•m (49-54 lb-ft.).

Install the Front Facia Panels

1. Identify the left and right front facia panels.

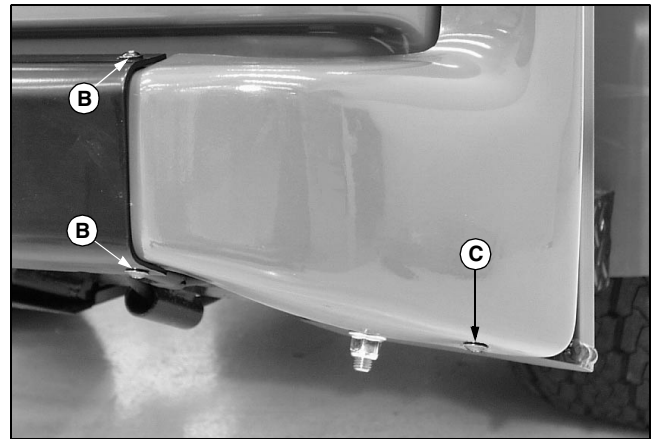


MX3449

2. Slide the bottom of each facia panel (A) into the front

bumper on each side.

NOTE: Button head socket screws (B) were removed from each bumper end cap earlier when the 4-post ROPS was installed.

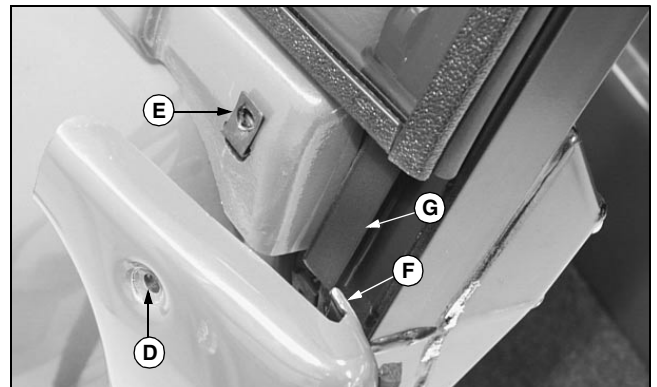


MX3250

3. Attach the bottom of each facia panel to the bumper with two M6 button head socket screws (B).

NOTE: Make sure clip nut is installed on each lower front ROPS post tab.

4. Align hole at bottom of each facia panel with hole in the lower ROPS post tab. Fasten panel to tab with one M6 button head socket screw (C).

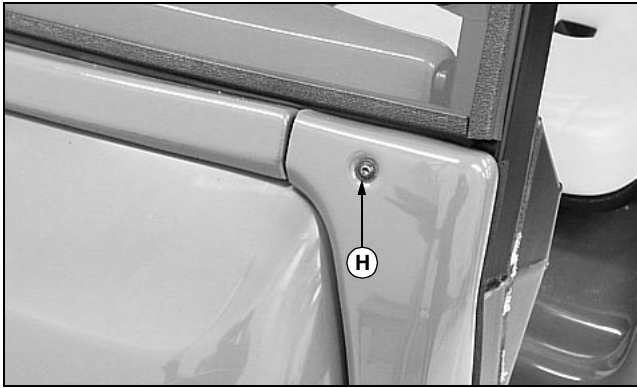


MX4299

5. Align hole (D) at top of each panel with clip nut (E) installed on each side of the front windshield assembly.

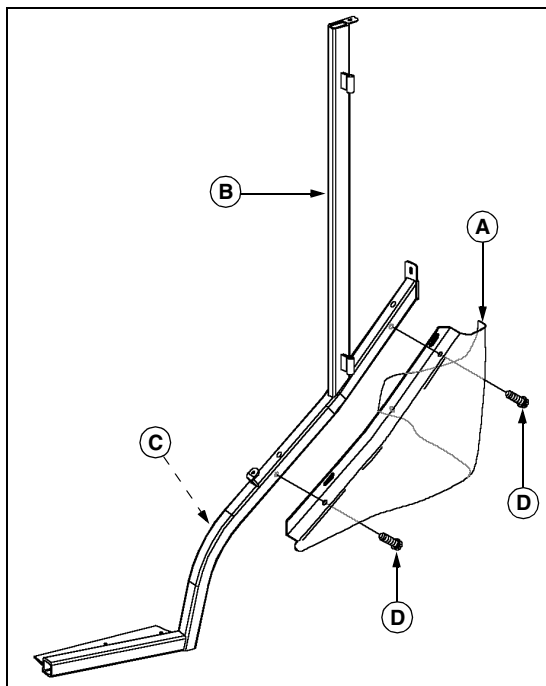
- Make sure flange (F) engages lip (G) on each front ROPS post before fastening the panel.

ASSEMBLY



6. Fasten top of each fascia panel to the dash with one M6 button head socket screw (H).

Install Outer Side Panels to the B-Post Crossmembers



1. Identify the left and right outer side panels (A).
2. Identify the left and right B-post crossmembers (B).
3. Peel back approximately 51 mm (2 in.) of the O-rubber (C) installed on the inside edge of each B-post.

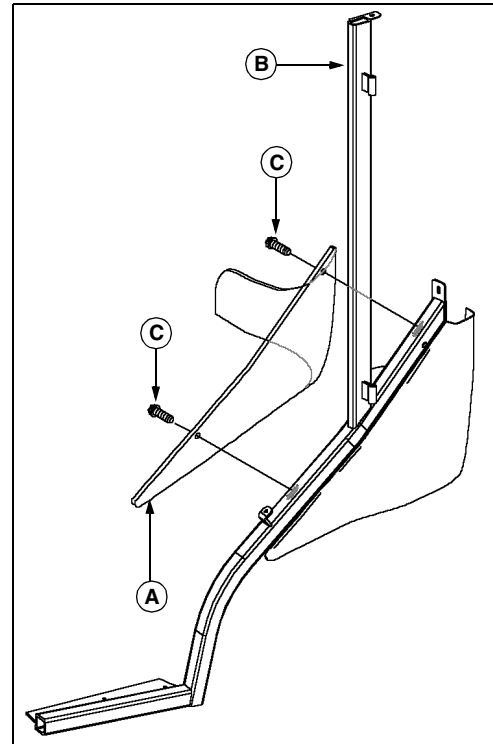
NOTE: To make the panel installation easier, turn each self-tapping screw in and out of the B-post mounting holes before attaching the panels.

4. Fasten each panel to the underside of the B-post crossmember with two 1/4 in.x3/4 in. self-tapping screws (D). Tighten hardware.

5. Press O-rubber (C) into position on top of each panel.

Install the Inner Side Panels to the B-Post Crossmembers

NOTE: To make the panel installation easier, turn each self-tapping screw in and out of the B-post mounting holes before attaching the panels.



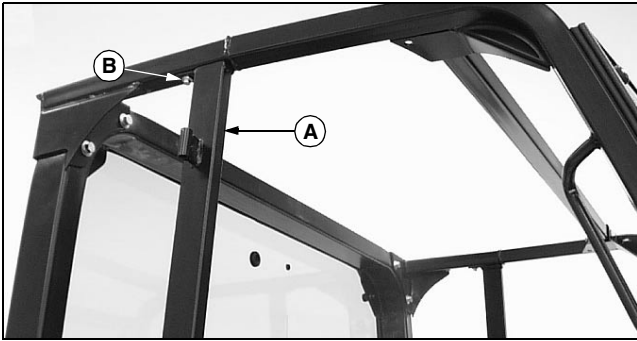
1. Identify the left and right inner side panels (A).
2. Locate the mounting holes in each upholstered panel. Carefully puncture fabric with a screwdriver at each mounting hole location.
3. Align the holes in each inner side panel (A) with the holes along the inside edge of the B-post (B).
4. Fasten each panel to the B-post with two 1/4 in.x3/4 in. self-tapping screws (C). Tighten hardware.

Install the B-Post Crossmember Assemblies

NOTE: The assistance of a helper will be needed to complete the following assembly procedure.

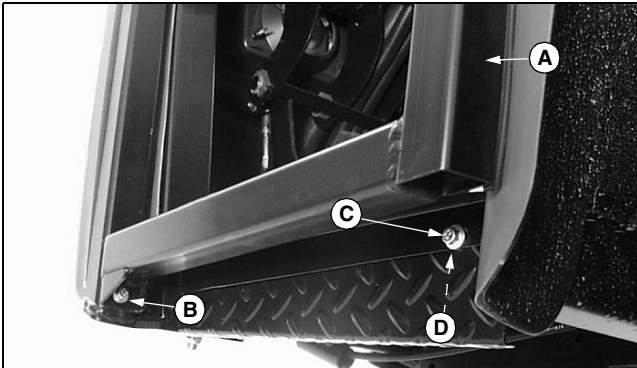
1. Identify the left and right B-post assemblies.

ASSEMBLY



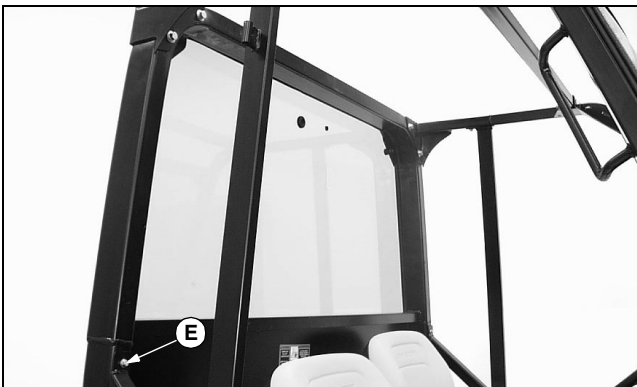
MX3252

2. Align the tab hole at the top of each B-post (A) with the hole in the ROPS frame.
3. Fasten each tab to the ROPS frame with one M8x20 bolt (B).
4. Align the holes at the bottom of each B-post (A) with a hole in the ROPS post and the hole drilled in the side of the foot platform.



MX3253

5. Fasten the front of each B-post to the front ROPS post with one M8x20 bolt (B). DO NOT tighten hardware.
6. Fasten each B-post to the foot platform with one M8x20 bolt (C) and one M8 hex flange nut (D). DO NOT tighten hardware.
7. Align the holes at the rear of each B-post with the holes in the ROPS.



MX3252

8. Fasten the tab at the rear of the B-post with one M8x20

bolt (E)

9. Tighten all B-post hardware to 19-21 N•m (14-16 lb-ft.).



MX3256

10. Fasten the rear of each outer side panel (F) to the side panel mounting bracket with one M6x25 hex flange bolt (G).

11. Locate mounting hole at the rear of each upholstered inner side panel. Carefully puncture fabric with a screwdriver at each mounting hole location.



MX3259

12. Fasten the rear of each inner side panel (H) to the side panel mounting bracket with one M6x25 hex flange bolt (I).

Install the Rear Shield Upholstery Panel

1. Adjust both vehicle seats completely forward.
2. Clean front of ROPS shield with a clean cloth.
3. Peel off both tape backing strips from the rear of the rear shield upholstery panel.

ASSEMBLY



MX3261

4. Attach panel (A) to the ROPS shield.

Install the Headliner

NOTE: The assistance of a helper will be needed to complete the following assembly procedure.

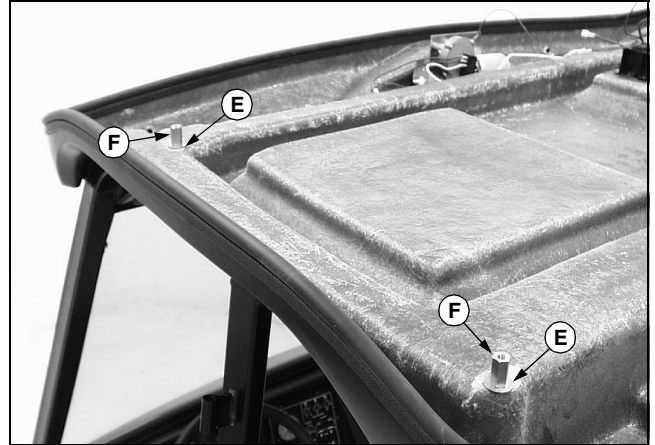


MX3266

1. Install the headliner (A) on top of the crossmember frame.

- Make sure the headliner is properly positioned in the upper crossmembers. The mounting holes in the headliner and ROPS frame tabs should align.

NOTE: Use hardware from the headliner/roof parts bag to complete this assembly step.



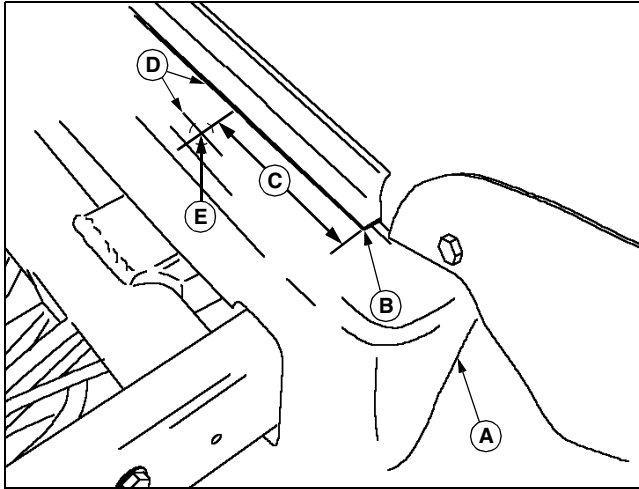
MX3268, MX3269

2. Fasten each side of the headliner to the crossmember frame using one M8x30 hex flange bolt (C), one M8x70 hex carriage bolt (D), two M8 flat washers (E) and two coupler nuts (F).

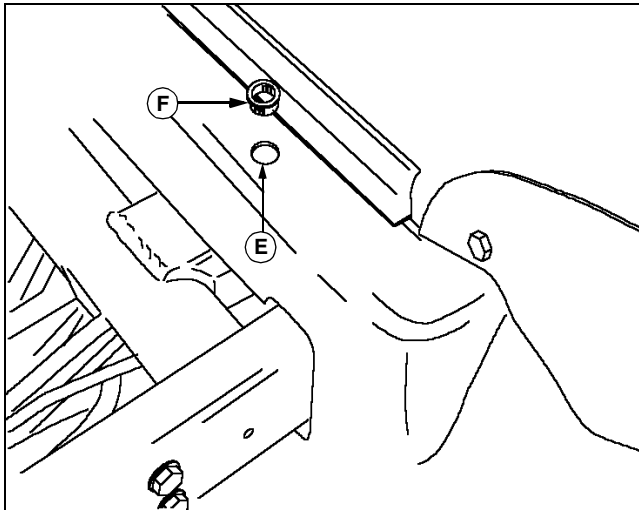
ASSEMBLY

Installing the Power Wire Harness

Install Seat Base Grommet



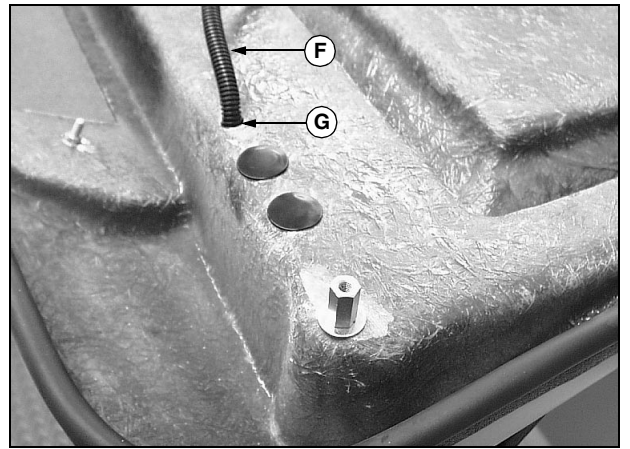
1. Locate and drill hole in seat base (A).
 - Locate lip (B) at bottom rear of ROPS shield.
 - Measure in 120mm (4-3/4 in.) (C) from right edge of lip.
 - Measure 22mm (7/8 in.) (D) directly to the rear. Mark location on seat base.
 - Drill one 22mm (7/8 in.) hole (E) centered at the marked location.



2. Install plastic grommet (F) into hole (E).

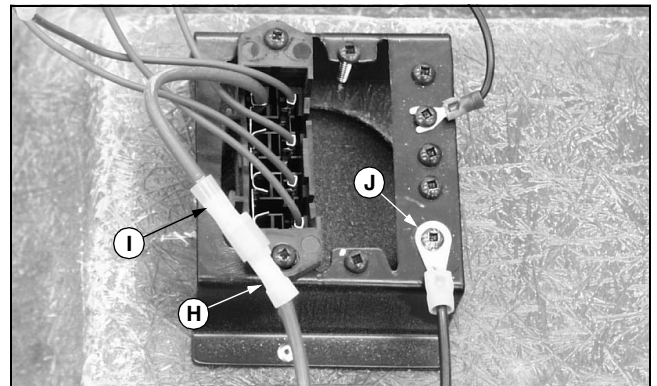
Install Wire Harness-Cab

1. Identify end of wire harness with the black ground wire and red power wire with a female connector.
2. Install wire harness end through hole (E) from under bottom of the seat base.



MX4193

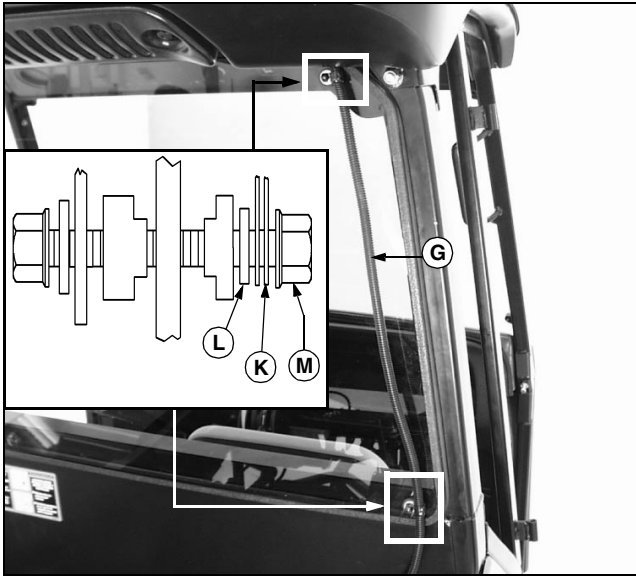
3. Locate predrilled hole (G) in the rear corner of the headliner on the right side.
4. Route wire harness (H) through hole (G) from the bottom of the headliner.



MX3263

5. Attach red power wire (H) to red power wire (I) installed into the main fuse block.
6. Attach the black ground wire (J) to one of the ground screws on the fuse block holder.

ASSEMBLY

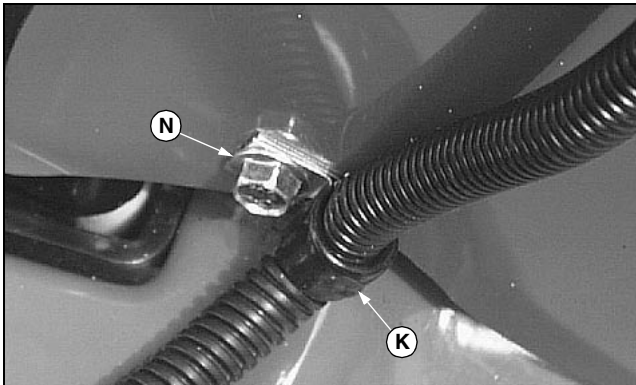


MX3281

7. Remove hardware attaching the rear window to the ROPS on the right side.

IMPORTANT: Avoid damage! The rear window will break if attaching hardware is overtightened.

8. Attach wire harness (G) to the rear window with two wire clips (K) and hardware removed in the previous step.
 - Each wire clip should be installed between flat washer (L) and bolt head (M).
9. Tighten window hardware.
 - Tighten hardware only until rubber window bushings begin to compress. DO NOT overtighten.

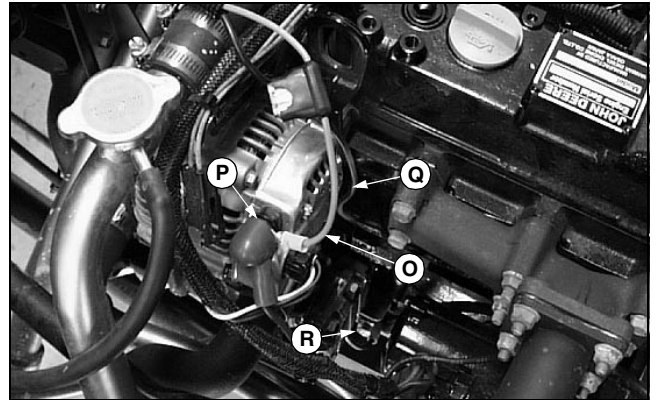


MX3278

10. Remove bolt (N) from the right outer side panel.
11. Attach wire harness to the outer side panel with one wire clip (K) and bolt (N).

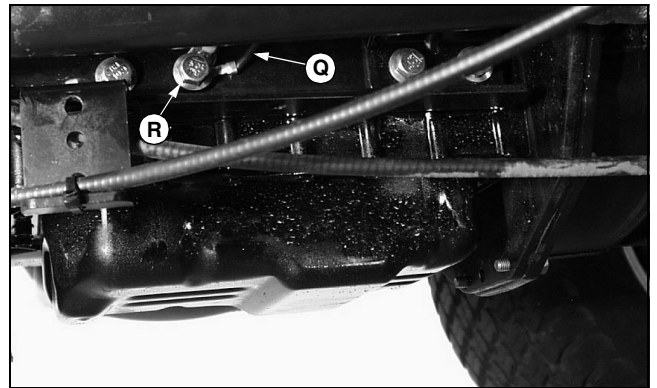
Install Wire Harness-Engine Compartment

IMPORTANT: Avoid damage! Route wire harness so it does not come into contact with any hot surfaces or interfere with any moving parts.



MX4304

1. Connect the orange power wire (O) from the harness to the positive (RED) terminal (P) on the alternator.

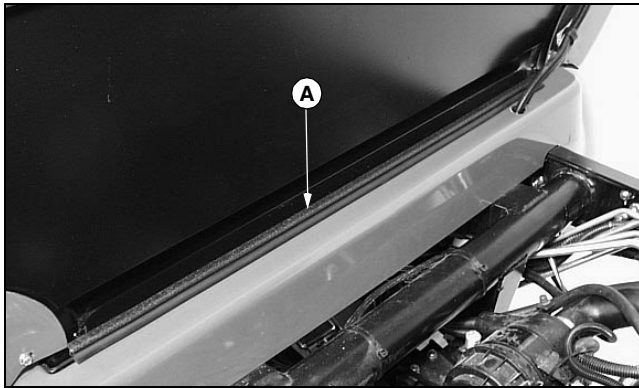


MX4303

2. Connect the black ground wire (Q) from the harness to engine ground bolt (R) on the left side of the engine oil pan.

ASSEMBLY

Install the O-Rubber On Rear ROPS Panel

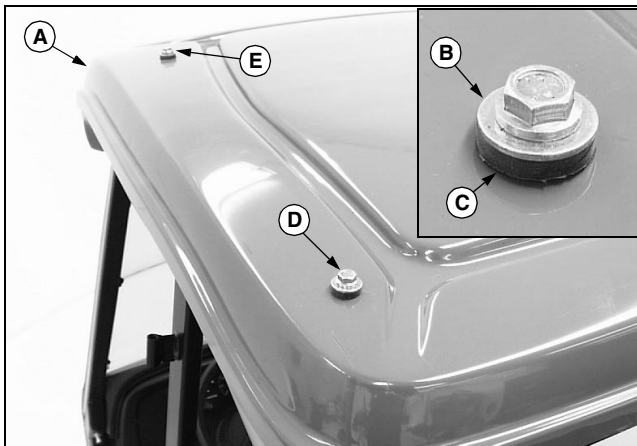


MX4305

1. Center and install the 940mm (37 in.) O-rubber (A) to the lip edge on the rear of the ROPS.
 - Fully insert the O-rubber onto the lip edge to provide adequate seal between the ROPS and the seat base.
2. Lower attachment.

Install the Roof

NOTE: If additional kits are going to be installed on the cab, do not install cab roof. Installation of the roof would be completed at the end of the assembly procedure.



MX3273,MX3271

1. Install the roof (A) on top of the headliner. The holes in the roof should align with the coupler nuts underneath.

NOTE: Use hardware from the headliner parts bag to complete this assembly step. Make sure the M8 flat washer (B) and 5mm rubber bushing (C) have remained in position on each bolt.

2. Fasten each side of the roof to the headliner using one M8x80 hex flange bolt (D) and one M8x90 hex flange bolt (E).

Install the Front Wiper Arm Assembly

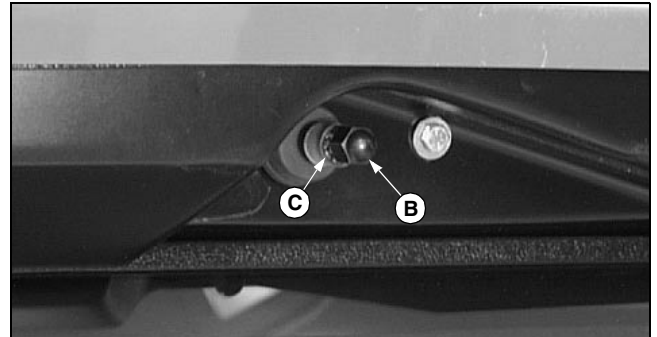
IMPORTANT: Avoid damage! The wiper motor shaft must be positioned in the park position before the wiper arm is attached.



MX3287

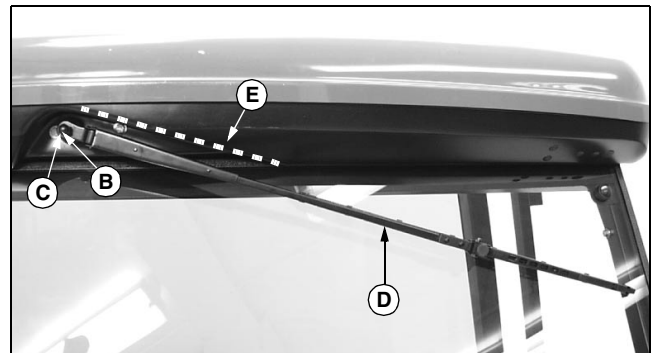
1. Turn the wiper control switch (A) on and off to make sure the wiper motor shaft is in the park position.

- Wiper control switch is mounted to the headliner above the operator seat.



MX3282

2. Remove acorn nut (B) and lock washer (C) from the front wiper motor shaft.



MX3286

3. Install the wiper arm assembly (D) onto the wiper motor shaft with lock washer (C) and acorn nut (B).

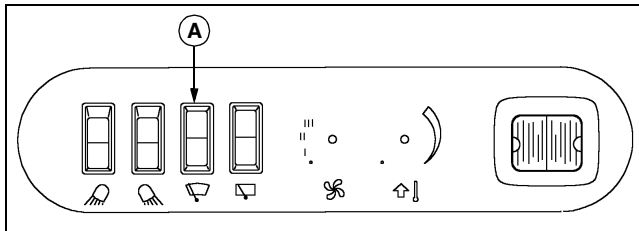
- Position wiper arm parallel to headliner edge (E).

ASSEMBLY

Check Operation of Front Wiper

IMPORTANT: Avoid damage! Operating the wiper on a dry window for an extended period of time will damage motor.

NOTE: Front wiper will operate with the vehicle key switch in any position.



1. Depress top of switch (A) to operate front wiper at a FAST speed.
2. Depress bottom of switch (A) to operate front wiper at a SLOW speed.
3. Return switch (A) to the centered position to turn the front wiper OFF.

Installing the Side Windows



CAUTION: Avoid injury! Always wear safety glasses and be extremely cautious when handling the glass components.

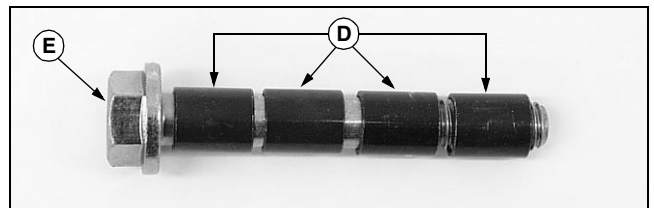
1. Lubricate hinge pins on each window with a thin layer of multi-purpose grease.



MX3289

2. Install window hinge pins (A) into hinge tubes (B). Make sure that one brass washer (C) is installed on each side of the hinge pin.

- It may be necessary to move the window frame back and forth and apply slight downward pressure at the top of the frame to slide the hinge pin completely into the hinge tube.



MX3291

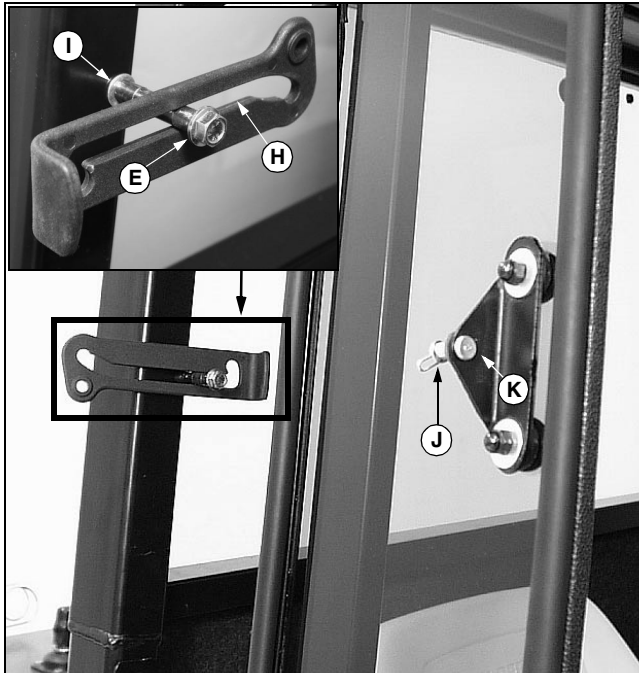
3. Install four slider bolt sleeves (D) onto each M8x60 hex flange bolt (E).



MX3300

4. Identify the left window slider (F) and the right window slider (G).

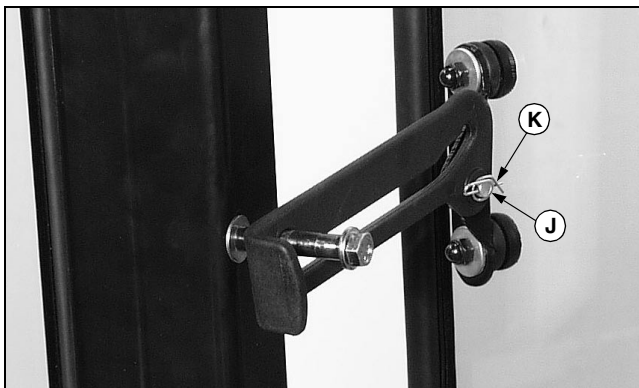
ASSEMBLY



MX4306,MX3293

Picture Note: Installation shown on **RIGHT** side of cab.

5. Install one bolt/slider assembly through slot (H) in the appropriate window slider. Install one M8 flat washer (I) onto the end of bolt (E). Install and tighten each bolt into threaded mounting holes on each side of the ROPS.
6. Remove locking pin (J) from the each window mounting bracket stud (K).



MX3295

Picture Note: Installation shown inside cab on the **LEFT** side.

7. Install mounting bracket stud (K) through hole provided in each window slider.
8. Install locking pin (J).

Install the Doors



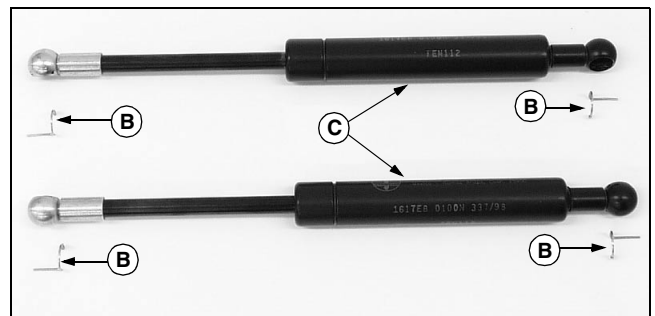
CAUTION: Avoid injury! Always wear safety glasses and be extremely cautious when handling the glass components.

IMPORTANT: Avoid damage! **DO NOT** slam or forcefully latch the doors into a closed position without checking the striker bolt and door latch assembly adjustments.



MX3301,MX3297

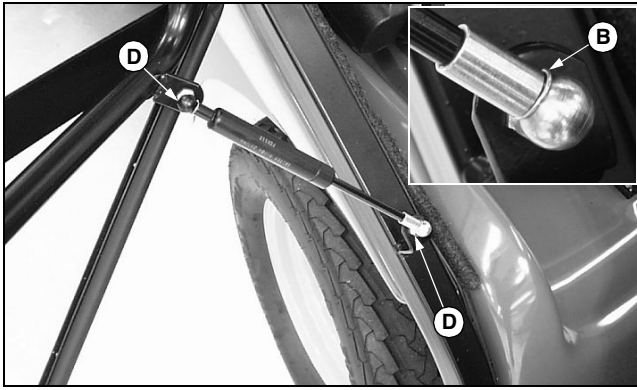
1. Install door hinge tubes (A) onto the hinge pins.
 - It may be necessary to move each door frame back and forth and apply slight downward pressure at the top of the frame to slide the hinge tube completely onto the hinge pin.



MX3298

2. Remove the spring clips (B) stored in the ends of each door gas shock (C).

ASSEMBLY



MX3942,MX3299

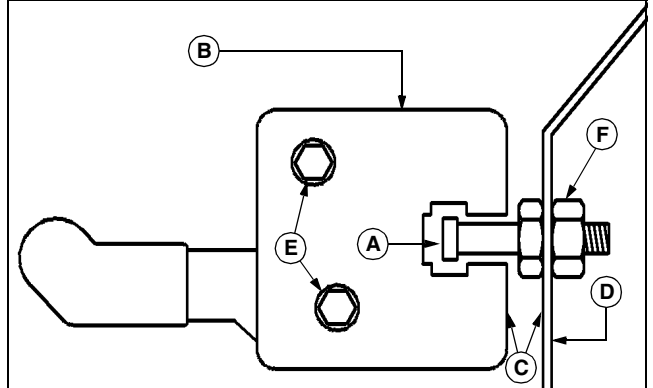
3. Attach the ends of each shock to the ball studs (D) mounted to the door and the B-post crossmember.
 - The retractable end of the shock should be installed to the B-Post ball stud.
4. Secure each gas shock to the ball studs with spring clips (B).

Checking and Adjusting the Door Latches

IMPORTANT: Avoid damage! DO NOT slam or forcefully latch the doors into a closed position without checking the striker bolt and door latch assembly adjustments.

NOTE: Each door latch assembly and striker bolt can be adjusted.

Check Adjustment



1. While seated in the vehicle, close each door only far enough to check the striker bolt (A) and door latch (B) alignment.
 - If adjusted properly, the striker bolt should pass through the center of the latch opening with the distance (C) between the rear of the latch and the front of the ROPS post (D) approximately 9mm (3/8 in.).
 - If the position of the striker bolt is not correct, an adjustment is necessary.

Adjust Door Latches

1. Loosen bolts (E) to adjust door latch forward or rearward.
2. Tighten bolts. Check adjustment.
3. Loosen jam nut (F) to move the striker bolt up and down in the adjustment slot.
4. Tighten jam nut. Check adjustment.
5. Check and adjust each striker bolt and door latch as necessary.

ASSEMBLY

Install the Cup Holder Caps

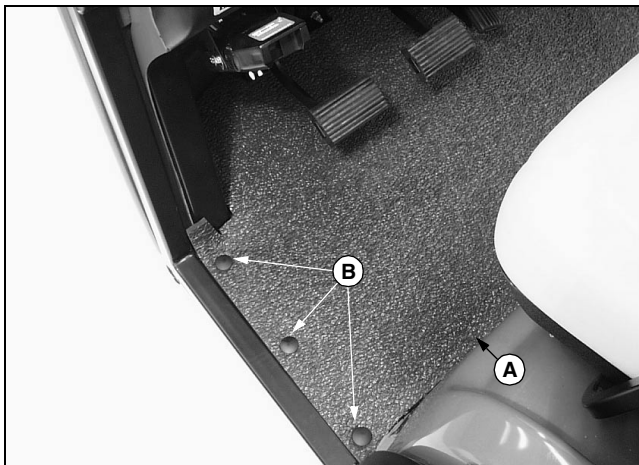


MX3946

- Install one snap cap (A) into the hole at the bottom of each seat base cup holder.

Install the Floormat

1. Thoroughly clean floorboard mounting surface.



MX3264

2. Install the floormat (A) onto the vehicle floorboard.
 - Make sure the floormat is centered on the floorboard and the cutout areas fit around all the foot controls and into all corners of the foot platform.
3. Remove paper backing from the velcro tabs mounted on the bottom of the floormat.
4. Press tabs firmly into position onto the floorboard surface.
5. Using the mounting plate at the bottom of each B-post crossmember as a template, puncture three holes through the bottom of the floormat with a screwdriver.
6. Fasten each side of the floormat to the B-post mounting plate with three ribbed panel fasteners (B).

INDEX

A		O	
Air Filter Elements (Optional), Servicing	14	O-Rubber On Rear ROPS Panel, Install the	27
Assembly, Prepare For	19	P	
B		Panel Mounting Brackets, Install Side	19
B-Post Crossmembers, Install Inner Side Panels to the	22	Panel, Install the Rear Shield Upholstery	23
B-Post Crossmembers, Install Outer Side Panels to the	22	Panels to the B-Post Crossmembers, Install Inner Side	22
Brackets, Install Side Panel Mounting	19	Panels to the B-Post Crossmembers, Install Outer Side	22
Bulb (Optional), Replacing Dome Light	10	Panels, Install the Front Facia	21
C		Park Vehicle Safely	2
Cab Door Handles, Operating the	5	Parts, Identification	17
Cab Doors and Side Windows, Removing	6	Parts, John Deere	8
Cab Side Windows, Operating the	4	Parts, Replacement	8
Chart, Service Interval	9	Power Wire Harness, Installing the	25
Clothing, Wear Appropriate	1	R	
Controls, Operating the Headliner	3	ROPS Hardware, Tighten Crossmember and	21
Crossmember and ROPS Hardware, Tighten	21	Roof, Install the	27
Crossmembers, Install Inner Side Panels to the B-Post	22	S	
Crossmembers, Install Outer Side Panels to the B-Post	22	Safe Maintenance, Practice	1
Cup Holder Caps, Install	31	Safely, Park Vehicle	2
D		Safety Labels	1
Decals, Safety	1	Safety Support, Using the Lift Cylinder	2
Dome Light Bulb (Optional), Replacing	10	Service Interval Chart	9
Door Handles, Operating the Cab	5	Service Literature	8
Door Latches, Checking and Adjusting the	12, 30	Service Parts	8
Doors and Side Windows, Removing Cab	6	Shield Upholstery Panel, Install the Rear	23
Doors, Install the	29	Side Panel Mounting Brackets, Install	19
F		Side Windows, Installing the	28
Facia Panels, Install the Front	21	T	
Filter Elements (Optional), Servicing Air	14	Troubleshooting Chart, Using	15
Floormat, Install the	31	W	
Fuse (Power Wire Harness), Replacing	10	Window, Install the Rear	20
Fuses (Main and Auxiliary Fuse Blocks), Replacing	10	Windows, Installing the Side	28
H		Windows, Operating the Cab Side	4
Handles, Operating the Cab Door	5	Windows, Removing Cab Doors and Side	6
Hardware, Tighten Crossmember and ROPS	21	Windshield Frame, Install Front	20
Harness, Installing the Power Wire	25	Wiper Arm Assembly (Optional), Adjusting the Rear	13
Headliner Controls, Operating the	3	Wiper Arm Assembly, Install the Front	27
Headliner, Install the	24	Wiper Blade (Optional), Checking and Replacing the Rear	12
L		Wiper Blade, Checking and Replacing the Front	12
Latches, Checking and Adjusting the Door	30	Wiper, Check Operation of Front Wiper	28
Lift Cylinder Safety Support, Using the	2	Wire Harness, Installing the Power	25
Light Bulb (Optional), Replacing Dome	10		
Literature, Service	8		
M			
Mirror Pivot, Adjust	5		
Mirror Spring Tension, Checking and Adjusting	5		
Mirrors (Option), Adjusting the Cab	5		

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SERVICE STATEMENT

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