

AMS Integration Kit

BM25035



JOHN DEERE

INSTALLATION INSTRUCTIONS

AMS Integration Kit

M171055 11MAY20 (ENGLISH)

HPX, HPX615E, HPX815E, XUV625i, XUV825E, XUV825i,
XUV825i S4, XUV825M, XUV825M S4, XUV855D,
XUV855D S4, XUV855E, XUV855M, XUV855M S4
Gator™ Utility Vehicles

John Deere Horicon Works
M171055 (11MAY20)

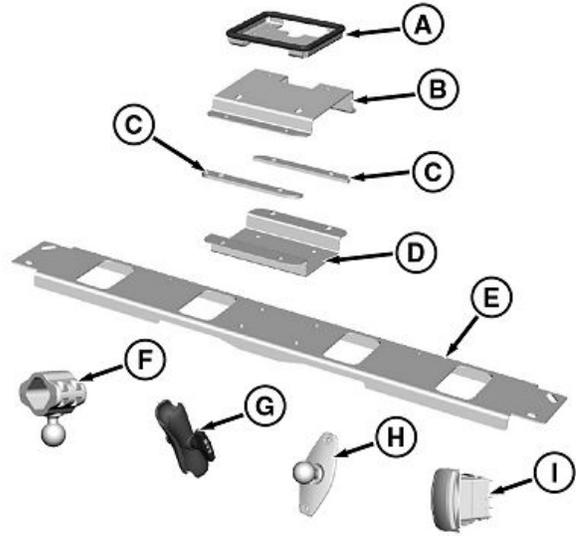
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Moline, Illinois

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M171055-19-11MAY20

Parts in Kit

Quantity	Description
1	Bracket, Receiver (A)
1	Bracket, Upper Receiver Mount (Roof Only) (B)
2	Gasket (Roof Only) (C)
1	Bracket, Lower Receiver Mount (Roof Only) (D)
1	Cross-member, Receiver Mount (E)
1	Tube Clamp Base (F)
1	Double Socket Arm (G)
1	Mount, Display Bracket (H)
1	Switch (I)
1	Harness
2	CAN Terminator
6	Spacer
2	Screw, M6 x 16
8	Bolt, M8 x 20
4	Bolt, M8 x 30
2	Bolt, M8 x 45
12	Locknut, M8
4	Bolt, M10 x 20
4	Locknut, M10
15	Tie Strap



NOTE:

- Certain parts in this kit are only to be used on a machine with a roof.
- Retain these installation instructions with the machine operator's manual.

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MXT008166 —UN—24AUG13

Parking Safely

Park the machine safely. See Parking Safely in your Operator's Manual.

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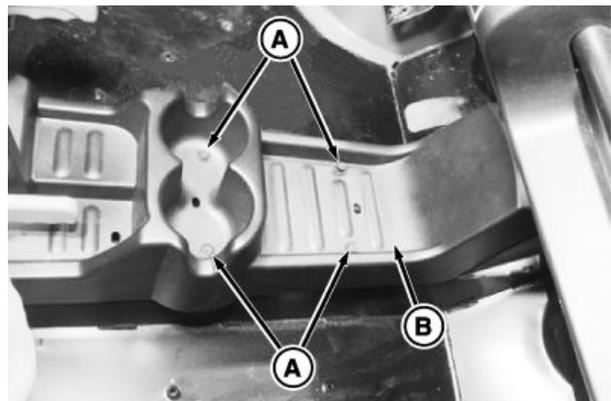
Prepare Machine

Front Bucket Seats

1. Raise and lock cargo box.
2. Pry up inner pins and remove four fasteners (A) securing cover (B) to machine. Remove cover.
3. Tilt seats forward.

A—Expansion Fasteners

B—Tunnel Cover



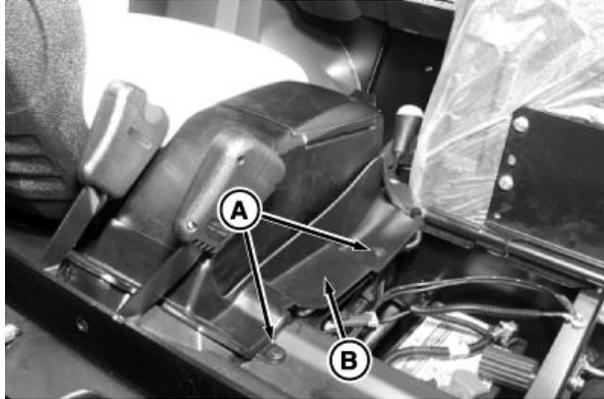
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4. Pry up inner pins and remove two fasteners (A) securing passenger side of panel (B).

A—Expansion Fasteners **B—Console Surround Panel**

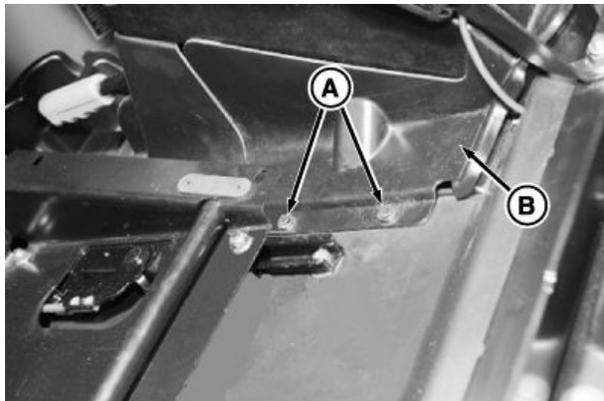


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5. Pry up inner pins and remove two fasteners (A) securing driver side of panel (B). Remove panel.

A—Expansion Fasteners **B—Console Surround Panel**

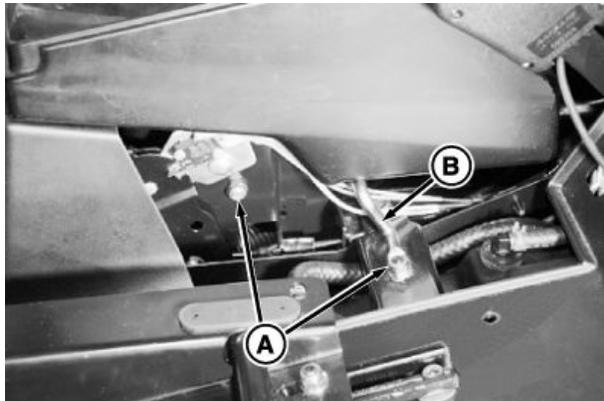


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6. Remove two locknuts (A) securing driver side of bracket (B) to machine.

A—Locknuts, M8 **B—Console Support Bracket**



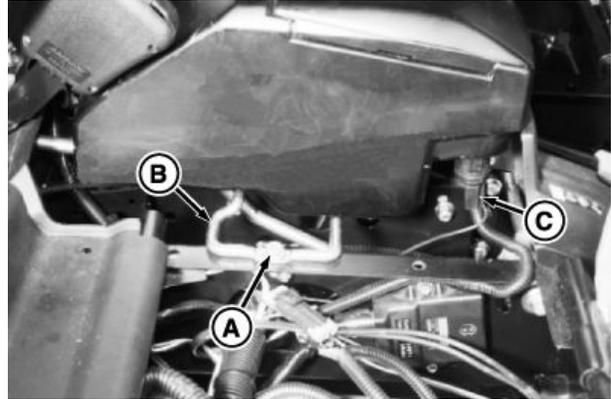
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7. Remove bolt (A) and locknut securing passenger side of bracket (B) to machine.
8. Disconnect wire harness connector (C) from the console power outlet.

A—Bolt, M8 x 20 Hex Head Flange **C**—Connector
B—Console Support Bracket

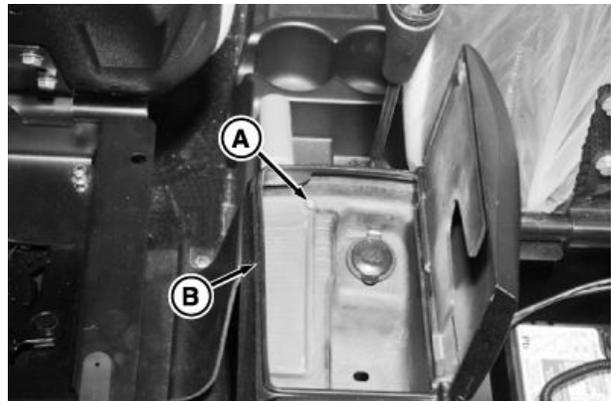


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9. Remove screw (A) securing console onto the control lever housing.
10. Remove console support bracket from frame connection points and remove console (B) from machine.
11. Disconnect both battery cables and remove battery.
12. Open hood.
13. Remove storage compartment.

A—Screw, T-15 TORX® **B**—Console



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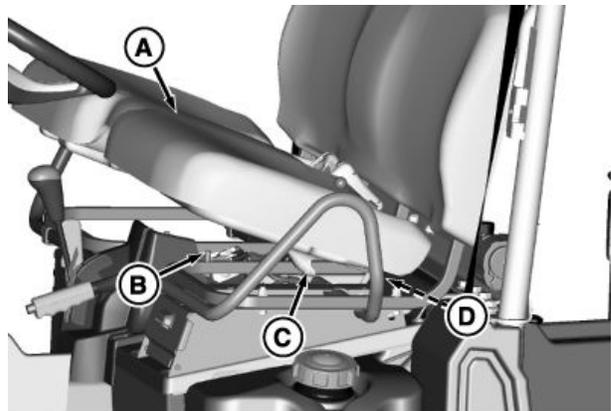
TORX is a trademark of Camcar/Textron

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Front Bench Seats

1. Raise and lock cargo box.
2. Pull up on the front of seat (A) and remove from both studs (B) on frame.
3. Pull seat forward to remove both ears (C) from slots (D) on machine cowling.

A—Seat **C**—Seat Ears
B—Studs **D**—Slots



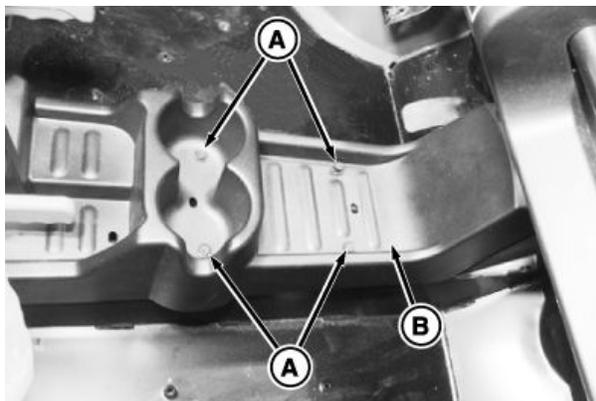
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4. Pry up inner pins and remove four fasteners (A) securing cover (B) to machine. Remove cover.
5. Disconnect both battery cables and remove battery.
6. Open hood.
7. Remove storage compartment.

A—Expansion Fasteners B—Front Tunnel Cover



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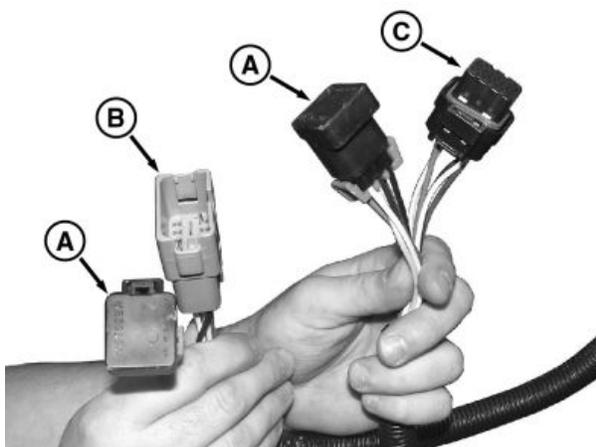
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Install Switch and Wiring Harness

NOTE: These instructions are provided to mount the GPS display unit on the front OPS cross-member. If another location is desired, route the display harness in the machine avoiding all hot surfaces, sharp edges, and moving parts. Secure the harness with tie-straps as required.

1. Install CAN termination resistors (A) in wiring harness sockets next to the harness receiver connector (B) and display connector (C).

A—CAN Termination Resistors C—Harness Display Connector
B—Harness Receiver Connector



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2. Install switch, with the circle on switch face (A) positioned down, in the instrument panel (B).

NOTE: The switch can be installed in any available switch opening.

A—Switch Orientation

B—Switch Mounting Location



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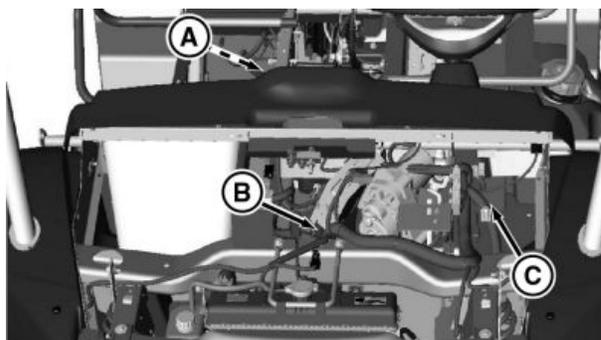
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TH84124,000000F -19-11MAY20-2/10

3. Place wiring harness in machine (A), with power connections routed up the inside radiator support (B). The wiring harness ends on the left side of the instrument panel (C).

A—Place Harness In Machine
B—Harness Radiator Support Routing

C—Harness Power Connection Location



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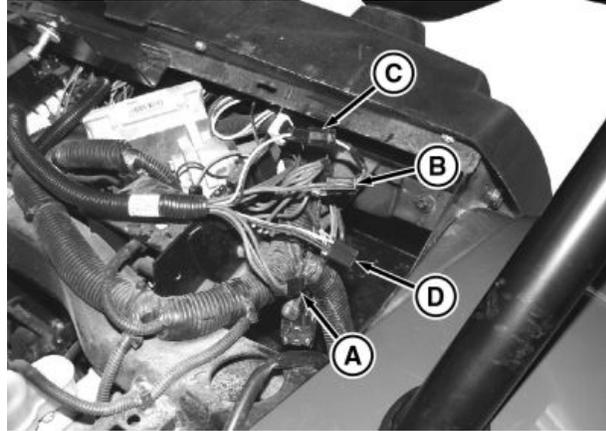
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4. Connect wiring harness power connections as follows:

- a. Attach GPS harness connector with red and black wires (A) to mating connector on machine harness.
- b. Second GPS harness connector with red and black wires (B) is an extension of the machine harness connector with red and black wires.
- c. Attach GPS harness connector with yellow and black wires (C) to mating connector on machine harness.
- d. Second GPS harness connector with yellow and black wires (D) is an extension of the machine harness connector with yellow and black wires.

A—Red/Black GPS Harness Power Connection
B—Red/Black Extension Harness Connection

C—Yellow/Black GPS Harness Power Connection
D—Yellow/Black Extension Harness Connection

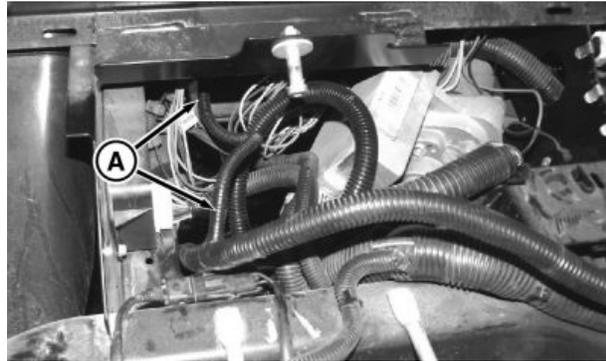


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5. Route wiring harness (A) switch connector to back of the instrument panel and attach to switch.

A—Route Harness To Switch

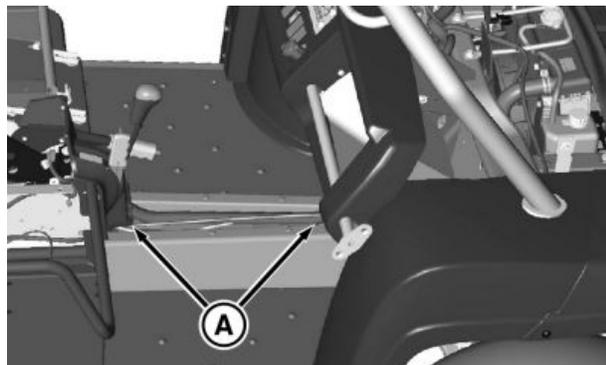


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6. Route receiver and display wiring harnesses in the center tunnel and under the shifter trim panel.

A—Route Receiver And Display Wiring Harnesses



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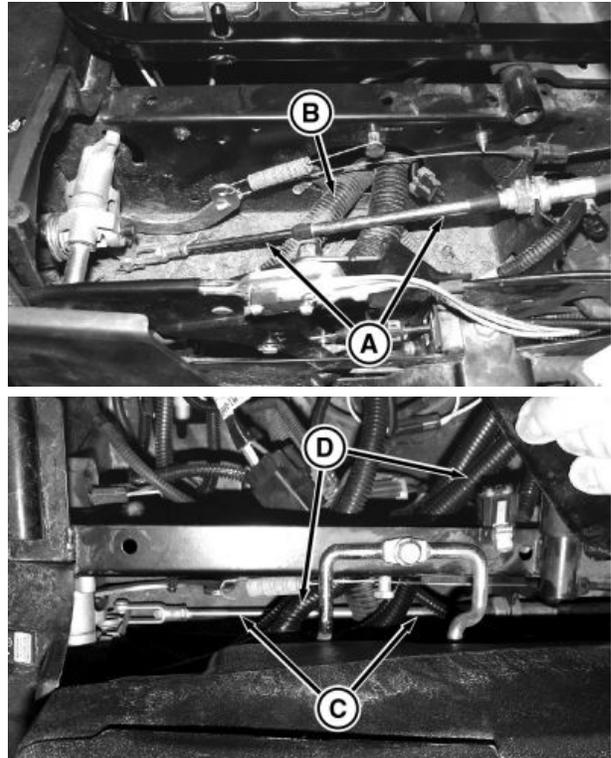
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TH84124.000000F -19-11MAY20-6/10

7. Route harnesses under console as follows:

- a. **2 Passenger Machines:** The machine shift cable (A) is mounted high in the center tunnel. Route the harnesses (B) under the shift cable.
- b. **4 Passenger Machines:** The machine shift cable (C) is mounted lower in the center tunnel. Route the harnesses (D) over the shift cable.
- c. Secure harnesses as required to minimize contact with the differential cable under the shift cable.

A—Shift Cable - Two Passenger	C—Shift Cable - Four Passenger
B—Harness Routing - Two Passenger	D—Harness Routing - Four Passenger



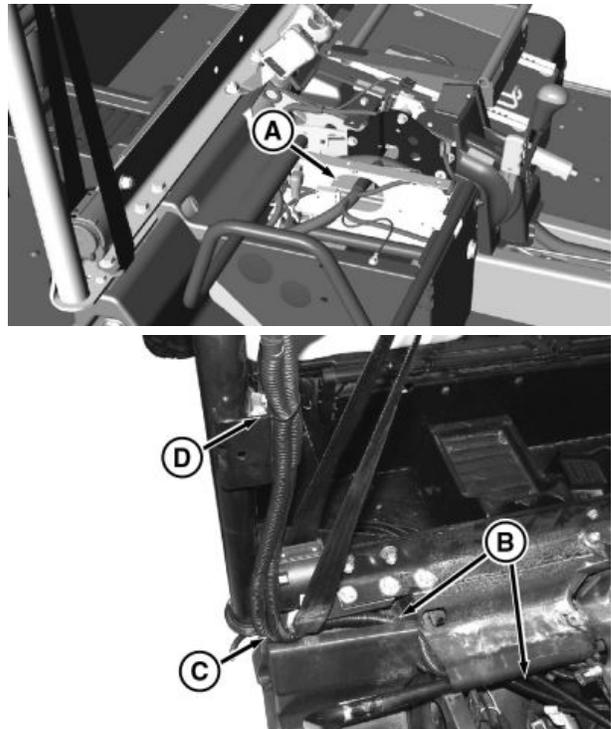
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- 8. Route harnesses through the right bracket (A), under panel (B) to the right B pillar base (C).
- 9. Route harnesses up the B pillar and secure to bracket with tie strap (D).

A—Harness Routing - Right Bracket	C—Harness Routing - Right B Pillar Base
B—Harness Routing - Under Panel	D—Harness Routing - Right B Pillar Bracket



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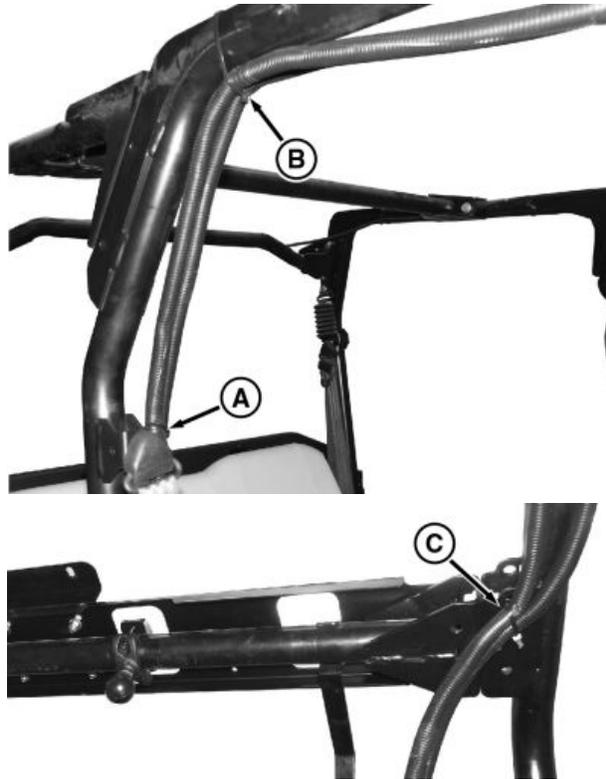
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10. Continue routing harnesses up the B pillar from the right bracket (A).
11. Secure to the OPS tube with a tie strap (B).
12. Secure to the OPS tube bracket with a tie strap (C).

A—B Pillar Bracket
B—OPS Tube

C—OPS Tube Bracket



MXT008177 —UN—03SEP13

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13. Route display harness to display mount (A) and secure to OPS cross-member with tie strap.
14. Route receiver harness to center of cross-member and secure with tie strap.

NOTE: For models equipped with roof, the receiver wiring harness is routed on top of roof to GPS receiver.

A—Display Harness



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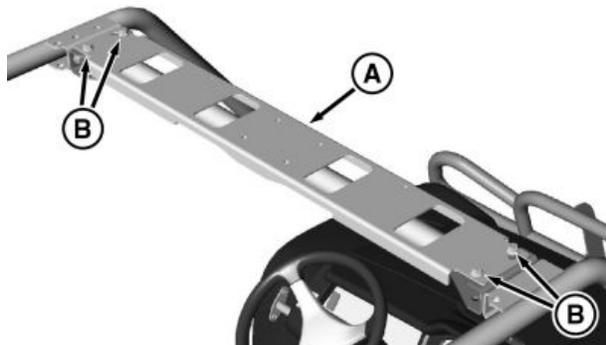
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Install Receiver

1. Remove roof if equipped.
2. Install cross-member (A) on front OPS tube support brackets with four M10 x 20 bolts and four M10 locknuts.

A—Cross-member

B—Bolt, M10 x 20



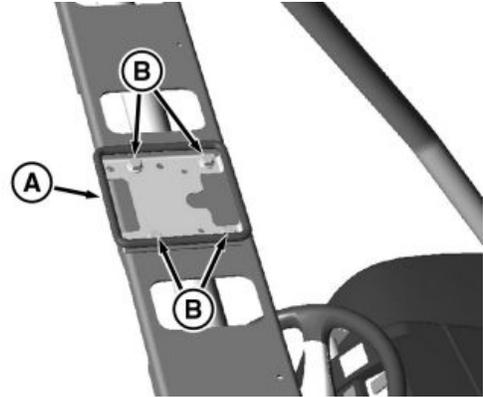
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3. **Install the following on machines equipped without a roof:** Install receiver bracket (A) on cross-member with four M8 x 20 bolts (B) and four M8 locknuts.

A—Receiver Bracket B—Bolt, M8 x 20



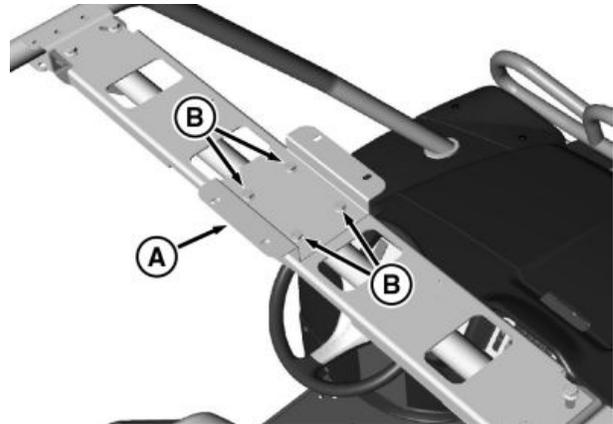
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4. **Install the following on machines equipped with a roof:**

- a. Install lower receiver mounting bracket (A) on cross-member with four M8 x 20 bolts (B) and four M8 locknuts.
- b. Install the roof on the machine.
- c. From inside the machine, drill four 1/4-inch pilot holes through the lower support bracket holes and roof.
- d. From the top of the roof, drill four 1/2-inch holes through pilot holes.

A—Lower Receiver Mounting Bracket B—Bolt, M8 x 20

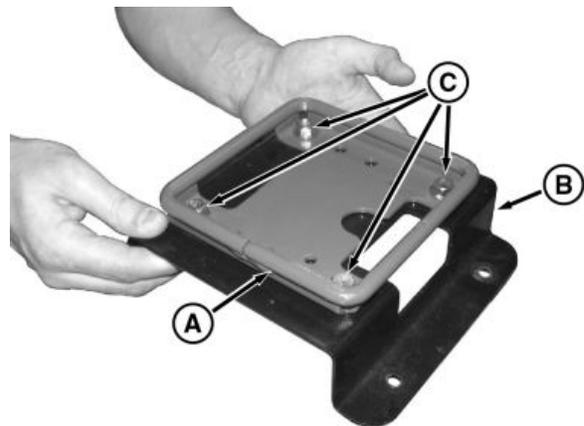


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TH84124,0000006 -19-14MAY20-3/8

- e. Assemble upper receiver bracket (A) onto lower receiver mounting bracket (B) with four M8 x 20 bolts (C) and four M8 locknuts.

A—Upper Receiver Mounting Bracket C—Bolt, M8 x 20
 B—Lower Receiver Mounting Bracket



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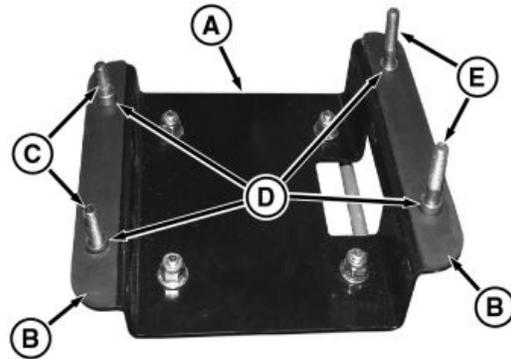
f. Install two gaskets (A) on upper receiver mounting bracket (B) flanges.

g. Insert two M8 x 30 bolts (C) through the shorter flange and gasket (A) on mounting bracket. Install one spacer (D) on each bolt.

h. **On 2-Passenger Models:** Install two M8 x 30 bolts (E) through the taller flange and gasket on mounting bracket. Install one spacer (D) on each bolt.

On 4-Passenger Models: Install two M8 x 45 bolts (E) through the taller flange and gasket on mounting bracket. Install two spacers on each bolt.

- | | |
|-----------------------------------|-----------------------------|
| A—Gasket | D—Spacer |
| B—Upper Receiver Mounting Bracket | E—Bolt, M8 x 30, or M8 x 45 |
| C—Bolt, M8 x 30 | |

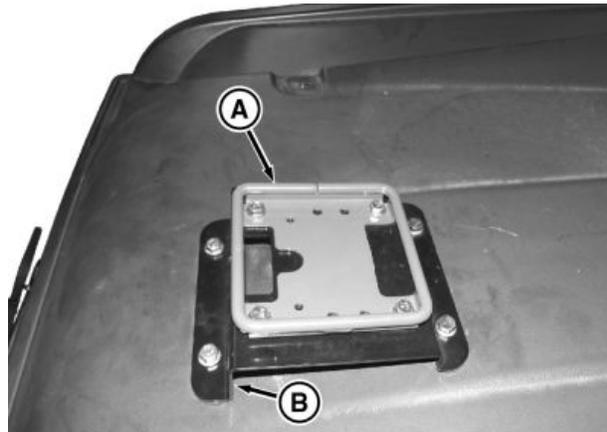


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TH84124,0000006 -19-14MAY20-5/8

i. Ensuring that the bolt spacers stay in position on each bolt, lift and invert the subassembled bracket (A). Install on the roof with the taller flange (B) facing the front of the machine and secure with four M8 locknuts.

- | | |
|-----------------------|--------------------------|
| A—Bracket Subassembly | B—Bracket Flange, Taller |
|-----------------------|--------------------------|

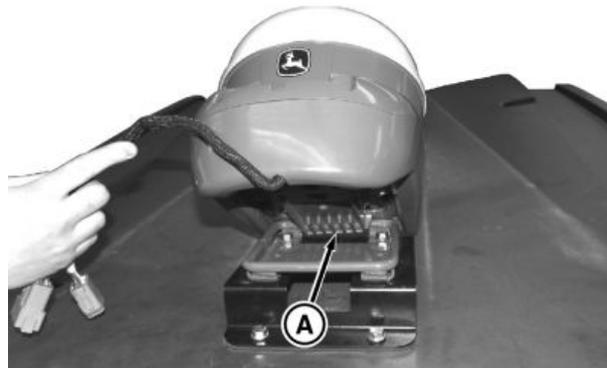


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5. Engage receiver rear mount (A) into mounting bracket and lower front until it snaps into place.

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|-----------------------|
| A—Receiver Rear Mount |
|-----------------------|



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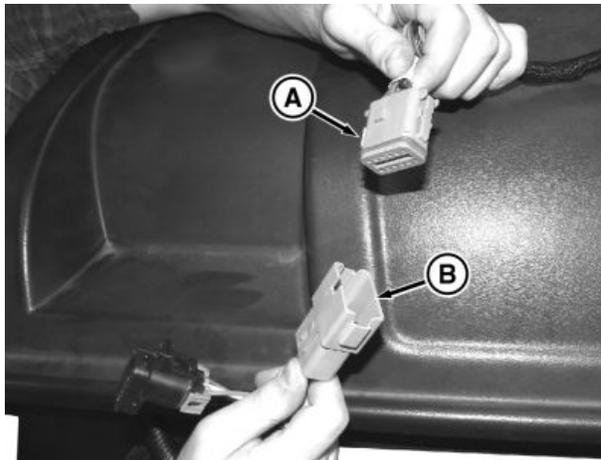
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- Attach receiver harness connector (A) to the mating wiring harness connector (B).

A—Receiver Harness Connector

B—Wiring Harness Connector



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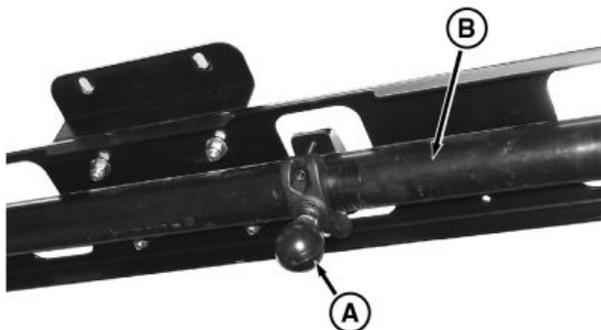
TH84124.0000006 -19-14MAY20-8/8

Install Display

- Remove hardware from the tube clamp base securing both halves together. Position tube clamp base (A) on front OPS cross-member (B) and secure with original hardware.

A—Tube Clamp Base

B—Front OPS Cross-member



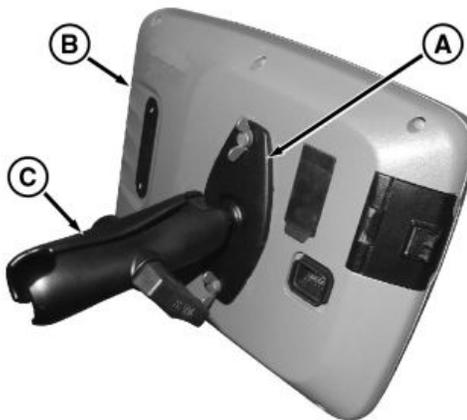
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- Install mounting bracket (A) on display (B) with two M6x16 screws.
- Loosen knob on the double socket arm (C) and install arm on display mounting bracket.
- Install display with the double socket arm on the tube clamp base, position display as desired, and tighten knob on the double socket arm securely.

A—Mounting Bracket
B—Display

C—Double Socket Arm



MXT008187—UN—31AUG13

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5. Attach wiring harness connector (A) to display.
6. Secure rosebud on wiring harness to display mount.

A—Wiring Harness Connector



MXT008188—UN—31AUG13

TH84124,0000007 -19-14MAY20-3/3

Complete Installation

1. Ensure that all wiring harnesses are routed to avoid hot surfaces, sharp edges, and moving parts.
2. Ensure that all harnesses are secured to machine with tie straps as required.
3. Check the GPS operation (see the documentation supplied with the system components).
4. Install all machine parts removed during the Prepare Machine section of these instructions in reverse order.

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