

2007 Cadillac Escalade

2007 ACCESSORIES & EQUIPMENT Frame and Underbody - Avalanche, Escalade, Suburban, Tahoe & Yukon

2007 ACCESSORIES & EQUIPMENT

Frame and Underbody - Avalanche, Escalade, Suburban, Tahoe & Yukon

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Assist Step Bracket Bolt	25 N.m	18 lb ft
Assist Step Bracket Nuts	9 N.m	80 lb in
Assist Step Controller Bolts	10 N.m	89 lb in
Body Mounting Bolt	100 N.m	74 lb ft
Engine Front Crossmember Nut	120 N.m	89 lb ft
Engine Protection Shield to Frame Rail Bolts	20 N.m	15 lb ft
Intermediate Cable Nut	4 N.m	30 lb in
Master Cylinder Mounting Nuts	36 N.m	27 lb ft
Spare Wheel Hoist Crossmember to Frame Crossmember Bolts	50 N.m	37 lb ft
Spare Wheel Hoist Crossmember to Frame Rail Bolts	70 N.m	52 lb ft
Tow Hook to Frame Rail Bolts	85 N.m	63 lb ft
Trailer Hitch to Frame Bolts	125 N.m	92 lb ft
Transmission Crossmember Nut	97 N.m	70 lb ft
Transmission Mount to Crossmember Nuts	40 N.m	30 lb ft
Wheelhouse Liner Screws	3 N.m	27 lb in

REPAIR INSTRUCTIONS

TOW HOOK REPLACEMENT (1500 SERIES)

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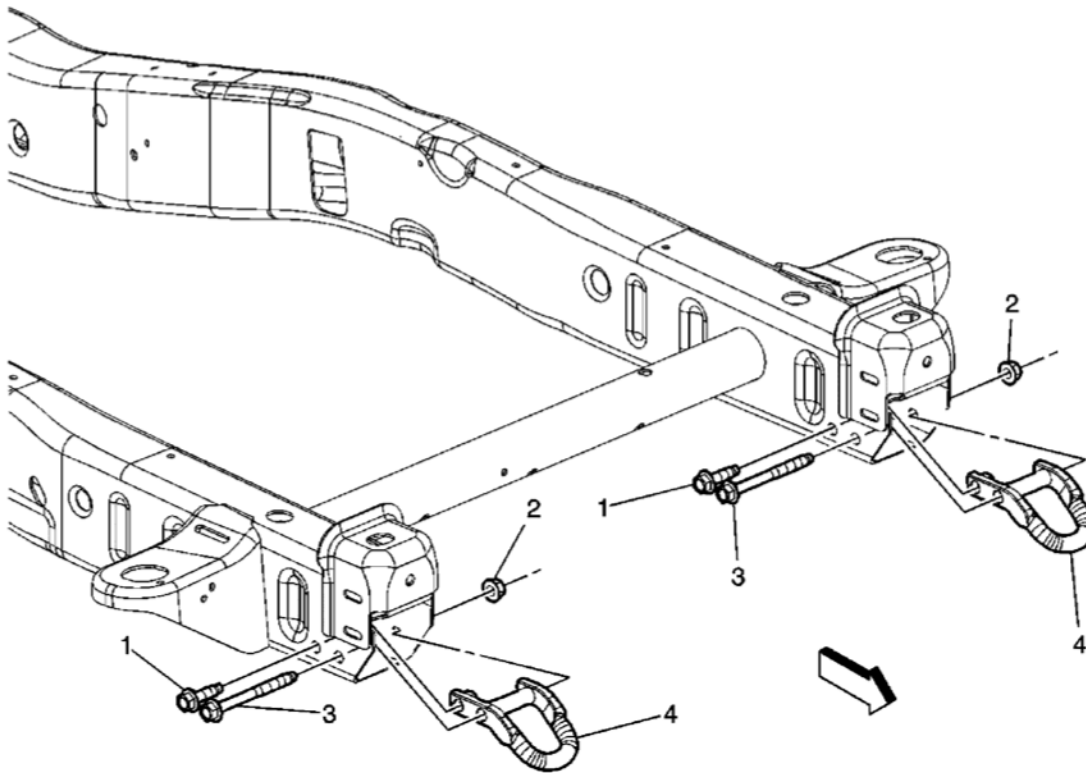


Fig. 1: View Of Tow Hooks & Components
Courtesy of GENERAL MOTORS CORP.

Tow Hook Replacement (1500 Series)

Callout	Component Name
1	Tow Hook Bolt (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 85 N.m (63 lb ft)
2	Tow Hook Nut (Qty: 2) Tighten: 85 N.m (63 lb ft)
3	Tow Hook Bolt (Qty: 2)
4	Tow Hook (Qty: 2)

TOW HOOK REPLACEMENT (2500 SERIES)

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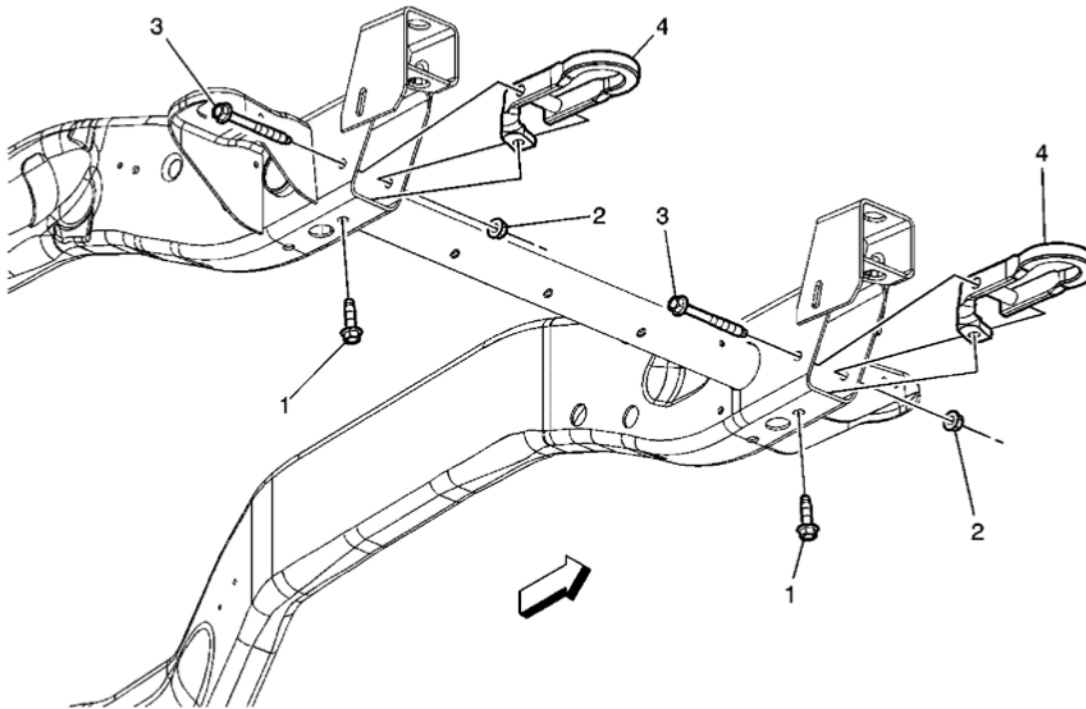


Fig. 2: View Of Tow Hooks & Components
Courtesy of GENERAL MOTORS CORP.

Tow Hook Replacement (2500 Series)

Callout	Component Name
1	Tow Hook Bolt (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 85 N.m (63 lb ft)
2	Tow Hook Nut (Qty: 2) Tighten: 85 N.m (63 lb ft)
3	Tow Hook Bolt (Qty: 2)
4	Tow Hook (Qty: 2)

OIL PAN SKID PLATE REPLACEMENT

Removal Procedure

IMPORTANT: The following service procedure is for 1500 series vehicles with RPO Code NZZ.

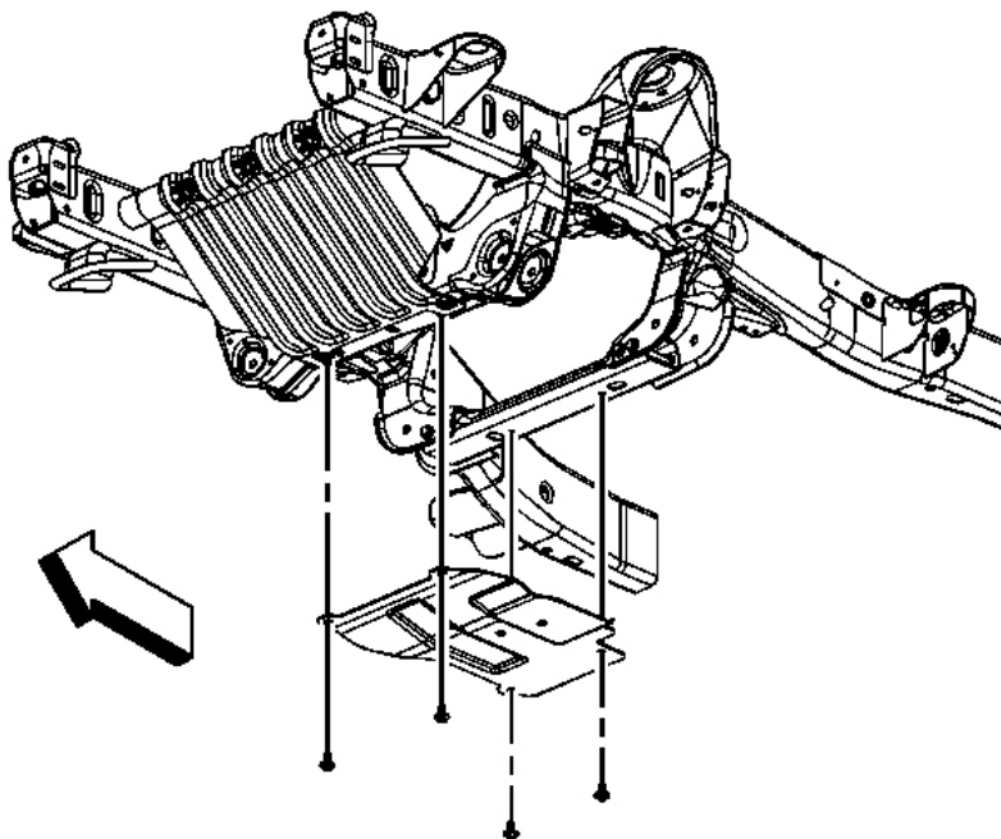


Fig. 3: View Of Oil Pan Skid Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Remove the mounting bolts for the oil pan skid plate.
3. Remove the oil pan skid plate.

IMPORTANT: The following service procedure is for 2500/3500 series vehicles with RPO Code NZZ.

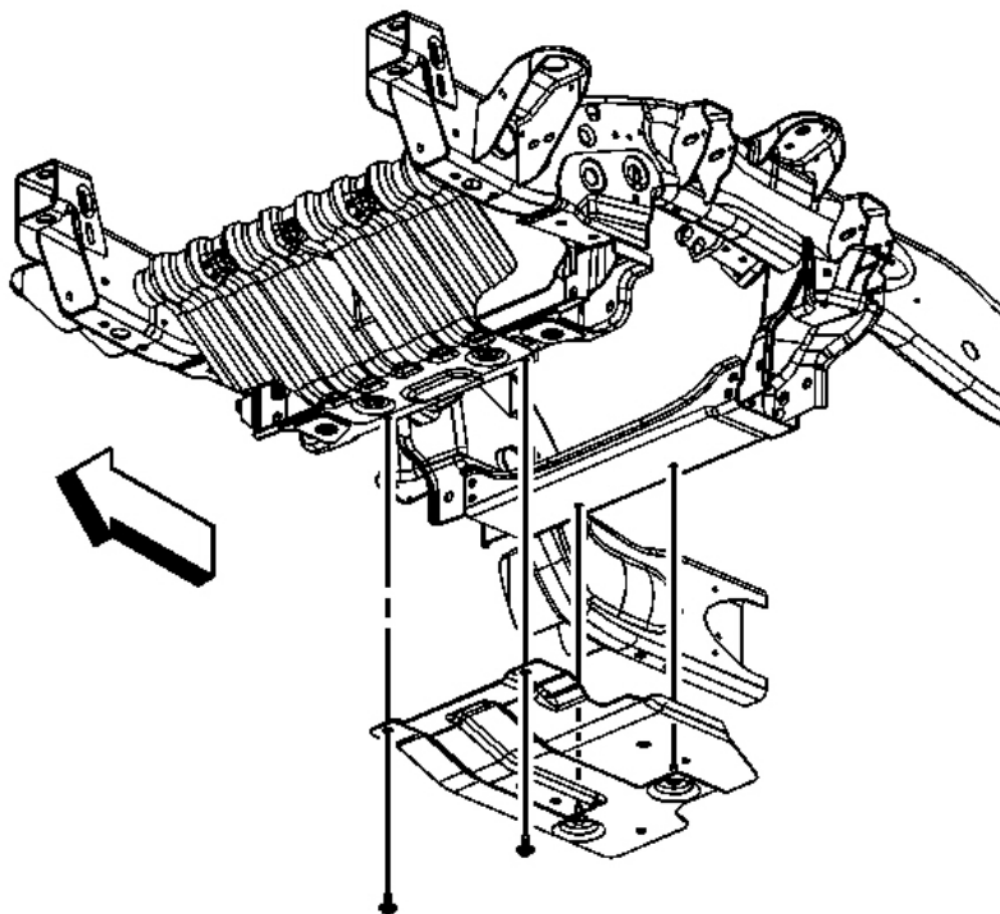


Fig. 4: View Of Oil Pan Skid Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

4. Remove the mounting bolts for the oil pan skid plate.
5. Remove the oil pan skid plate.

Installation Procedure

IMPORTANT: The following service procedure is for 1500 series vehicles with RPO Code NZZ.

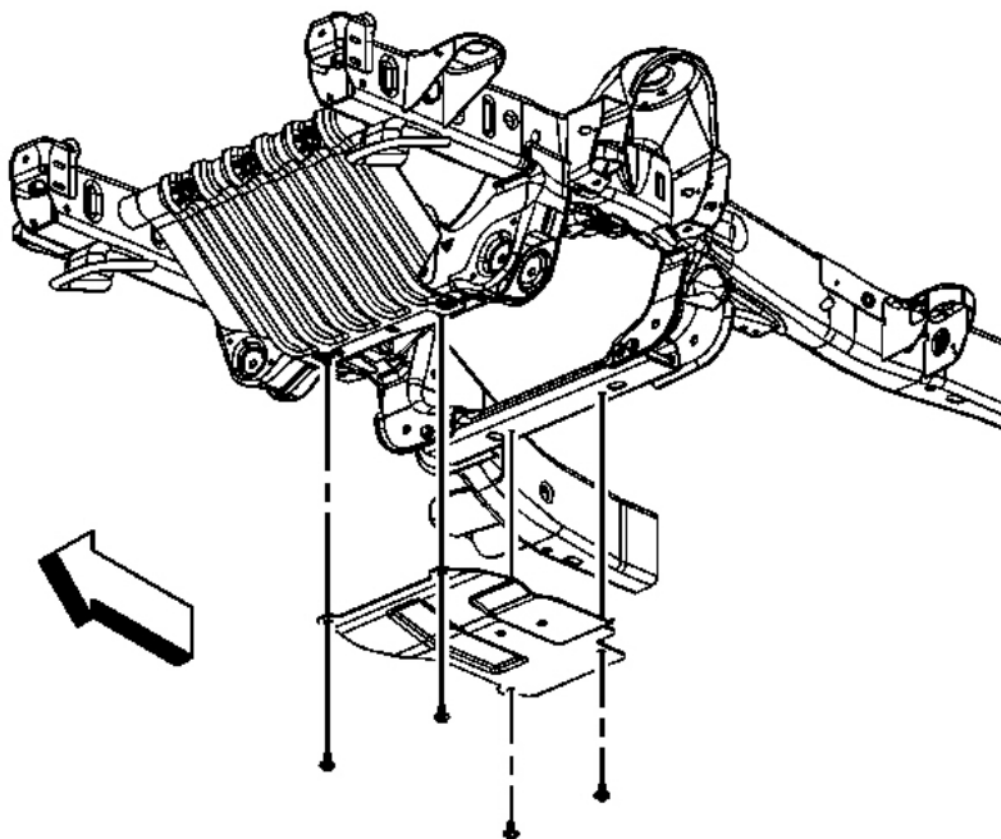


Fig. 5: View Of Oil Pan Skid Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

1. Position the oil skid plate on the frame.
2. Install the oil skid plate mounting bolts.

NOTE: Refer to Fastener Notice .

Tighten: Tighten the bolts to 25 N.m (18 lb ft).

IMPORTANT: The following service procedure is for 2500/3500 series vehicles with RPO Code NZZ.

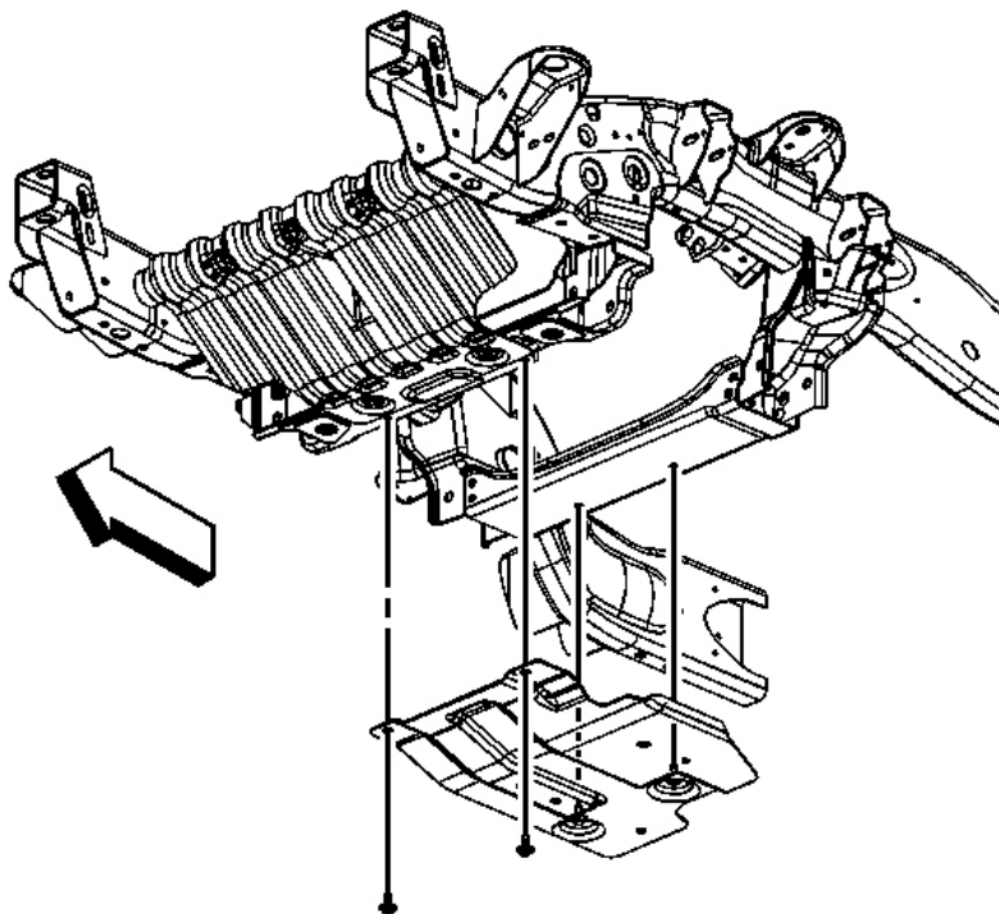


Fig. 6: View Of Oil Pan Skid Plate & Bolts
Courtesy of GENERAL MOTORS CORP.

3. Position the oil pan skid plate on the frame.
4. Install the oil skid plate mounting bolts.

NOTE: Refer to Fastener Notice .

Tighten: Tighten the bolts to 28 N.m (21 lb ft).

5. Lower the vehicle.

ENGINE SHIELD REPLACEMENT

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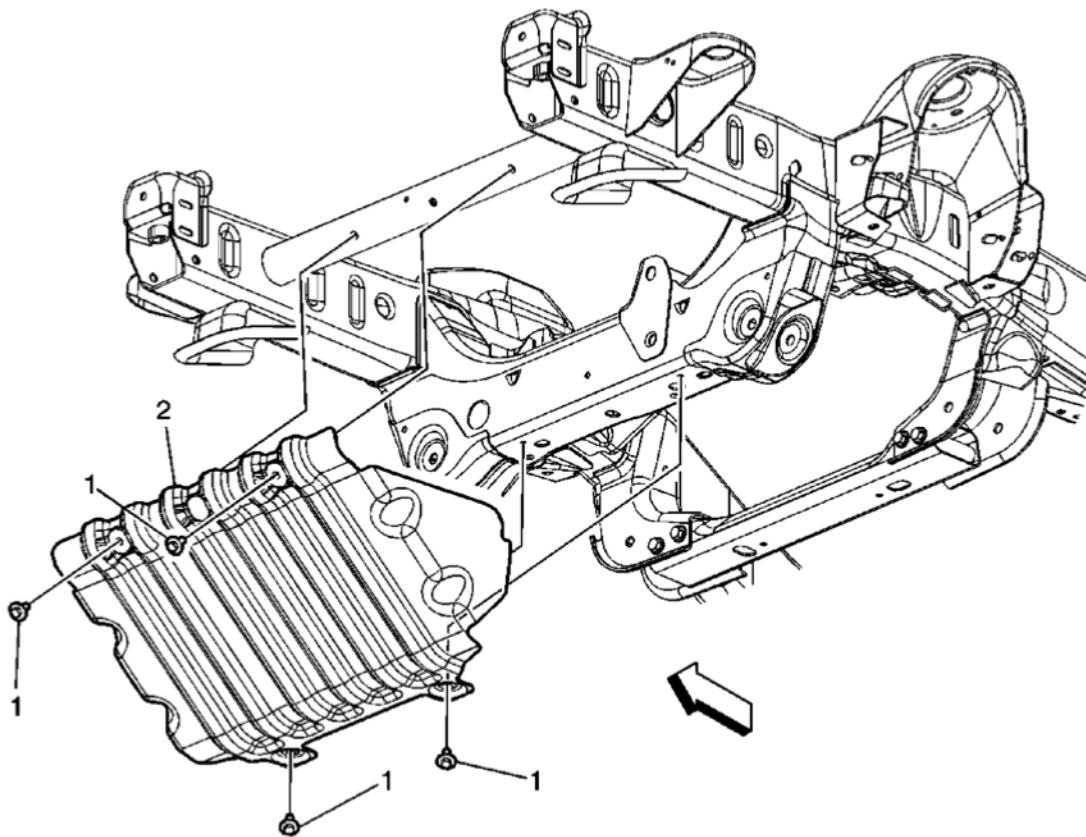


Fig. 7: View Of Engine Shield & Bolts
Courtesy of GENERAL MOTORS CORP.

Engine Shield Replacement

Callout	Component Name
Preliminary Procedure: Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Bolt, Engine Shield (Qty: 4). NOTE: Refer to <u>Fastener Notice</u> . Tighten: Tighten then bolts to 20 N.m (15 lb ft).
2	Shield, Engine

CROSSMEMBER REPLACEMENT (C1500 SERIES)

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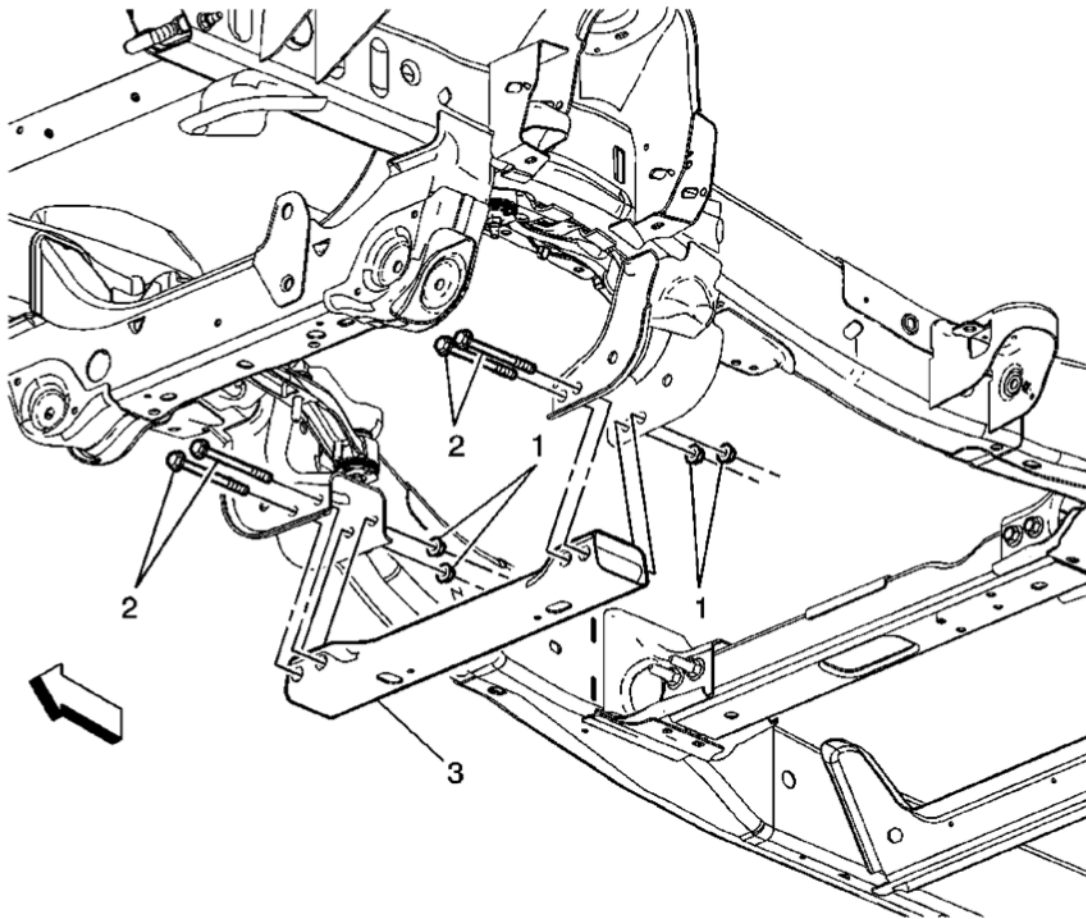


Fig. 8: View Of Lower Control Arm Crossmember, Front Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement (C1500 Series)

Callout	Component Name
Preliminary Procedure: Raise the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Engine Front Crossmember Nut (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 120 N.m (89 lb ft)
2	Engine Front Crossmember Bolt (Qty: 4) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.

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	3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
3	Lower Control Arm Crossmember

CROSSMEMBER REPLACEMENT (C2500 SERIES)

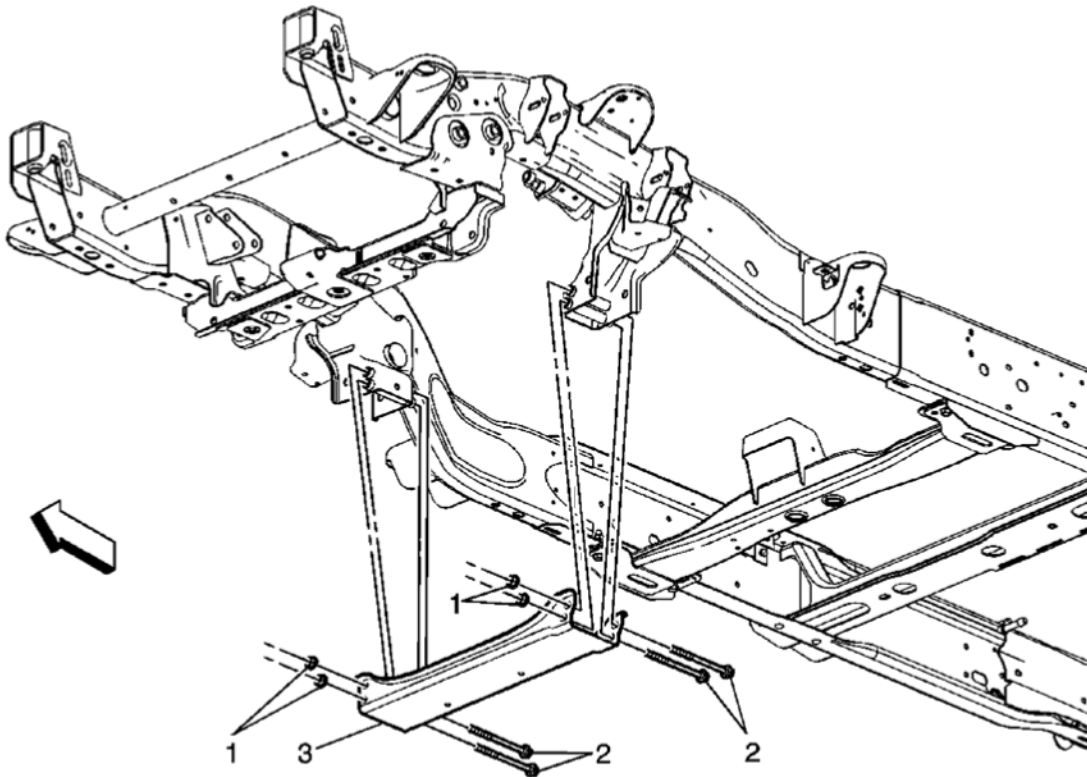


Fig. 9: View Of Lower Control Arm Crossmember, Front Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement (C2500 Series)

Callout	Component Name
Preliminary Procedure: Raise the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
1	Engine Front Crossmember Nut (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 120 N.m (89 lb ft)
	Engine Front Crossmember Bolt (Qty: 4) Tip:

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2	1. Remove all traces of the original adhesive patch.
	2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.
	3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
3	Lower Control Arm Crossmember

CROSSMEMBER REPLACEMENT (K1500 SERIES)

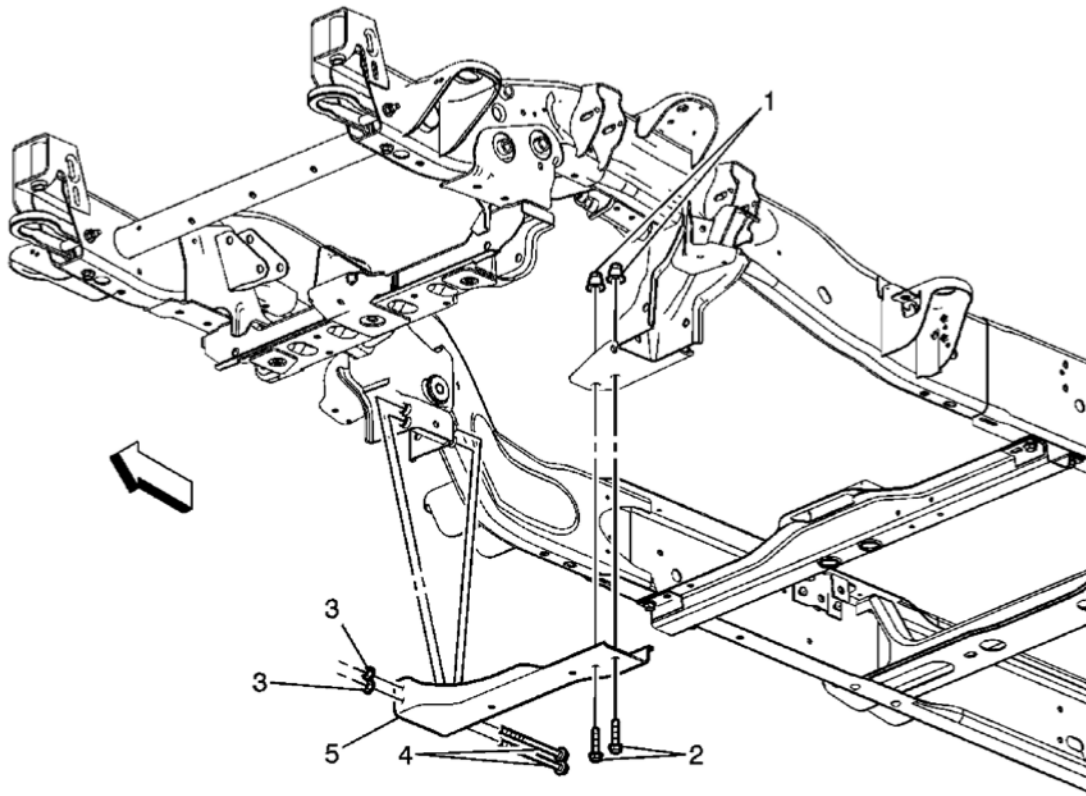


Fig. 10: View Of Lower Control Arm Crossmember, Front Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement (K1500 Series)

Callout	Component Name
Preliminary Procedure	
1. Raise the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
2. Remove the front differential shield. Refer to <u>Shield Replacement</u> .	
1	Engine Front Crossmember Nut (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> .

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	Tighten: 120 N.m (89 lb ft)
2	Engine Front Crossmember Bolt (Qty: 2) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
3	Engine Front Crossmember Nut (Qty: 2) Tighten: 120 N.m (89 lb ft)
4	Engine Front Crossmember Bolt (Qty: 2) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
5	Lower Control Arm Crossmember

CROSSMEMBER REPLACEMENT (K2500 SERIES)

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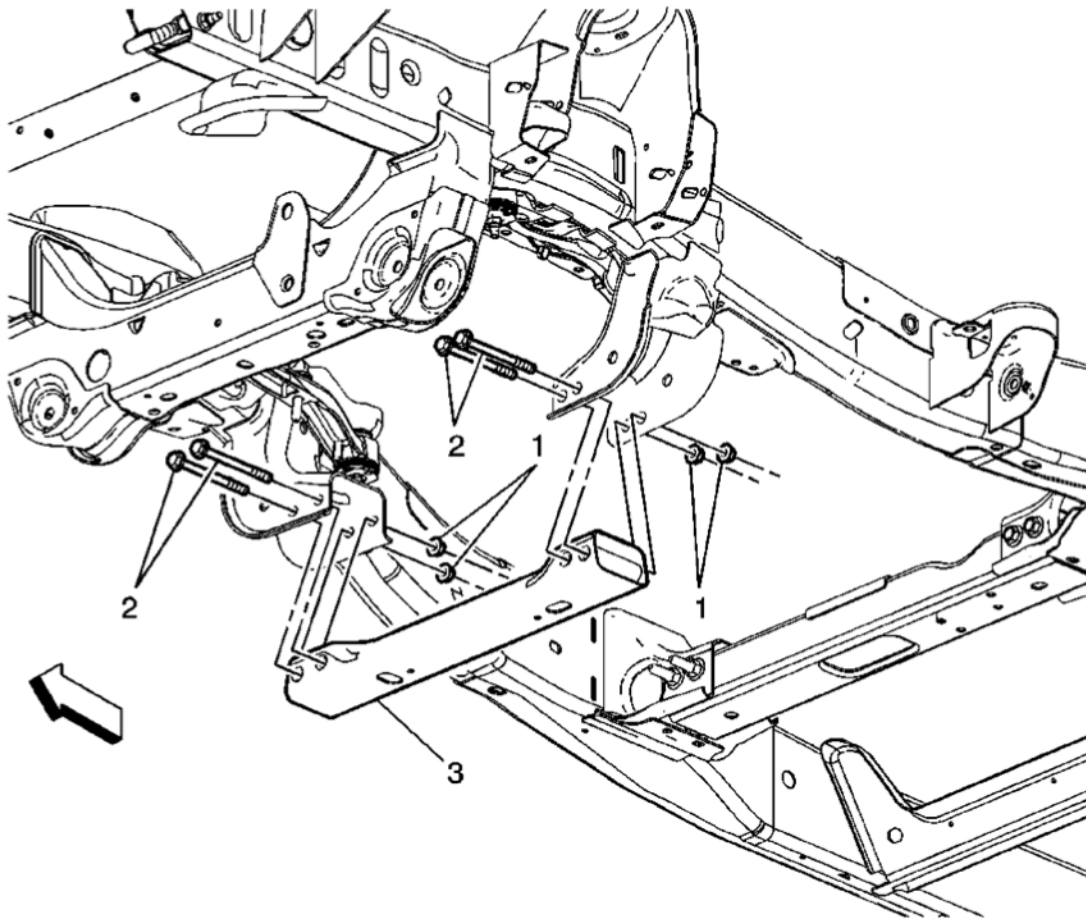


Fig. 11: View Of Lower Control Arm Crossmember, Front Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement (K2500 Series)

Callout	Component Name
Preliminary Procedure	
1. Raise the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
2. Remove the front differential shield. Refer to <u>Shield Replacement</u> .	
1	Engine Front Crossmember Nut (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 120 N.m (89 lb ft)
	Engine Front Crossmember Bolt (Qty: 4) Tip:

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2	1. Remove all traces of the original adhesive patch.
	2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.
	3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
3	Lower Control Arm Crossmember

CROSSMEMBER REPLACEMENT - TRANSMISSION (C1500 SERIES)

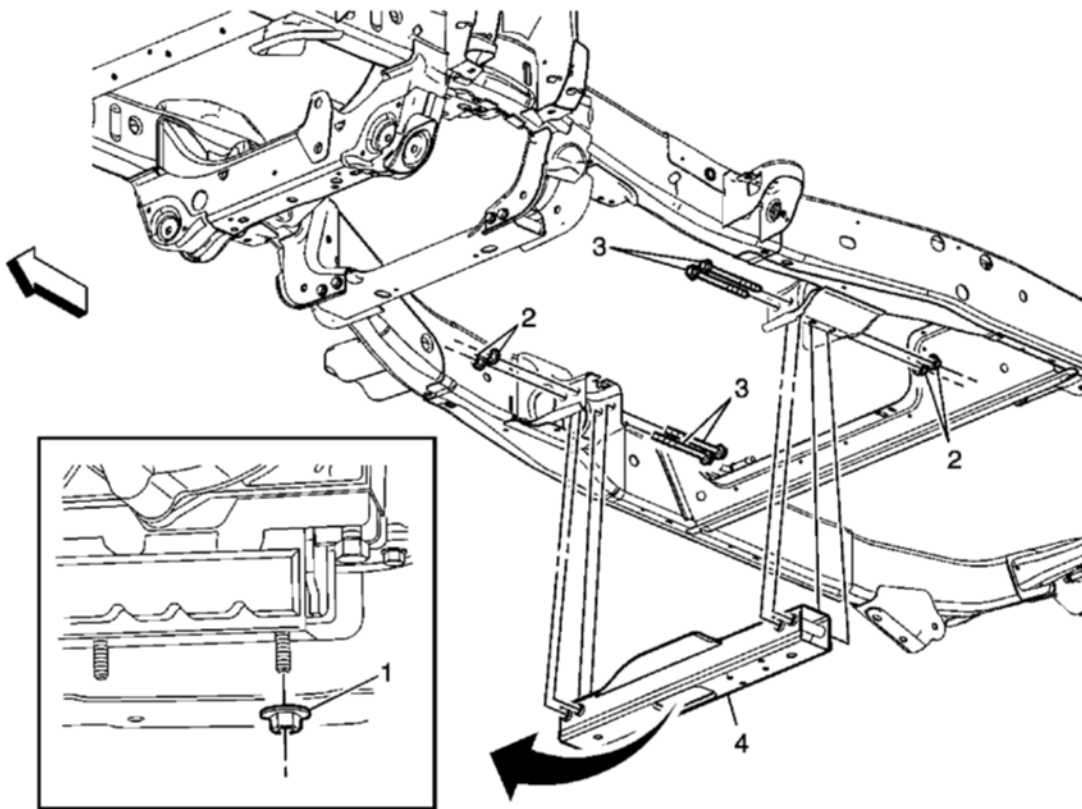


Fig. 12: View Of Transmission Crossmember, Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement - Transmission (C1500 Series)

Callout	Component Name
Preliminary Procedures	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
2. Support the transmission with a transmission jack.	
1	Transmission Mount to Crossmember Nut (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> .

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	Tighten: 40 N.m (30 lb ft)
2	Transmission Crossmember Nut (Qty: 4) Tighten: 97 N.m (70 lb ft)
3	Transmission Crossmember Bolt (Qty: 4) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
4	Transmission Crossmember

CROSSMEMBER REPLACEMENT - TRANSMISSION (C2500 SERIES)

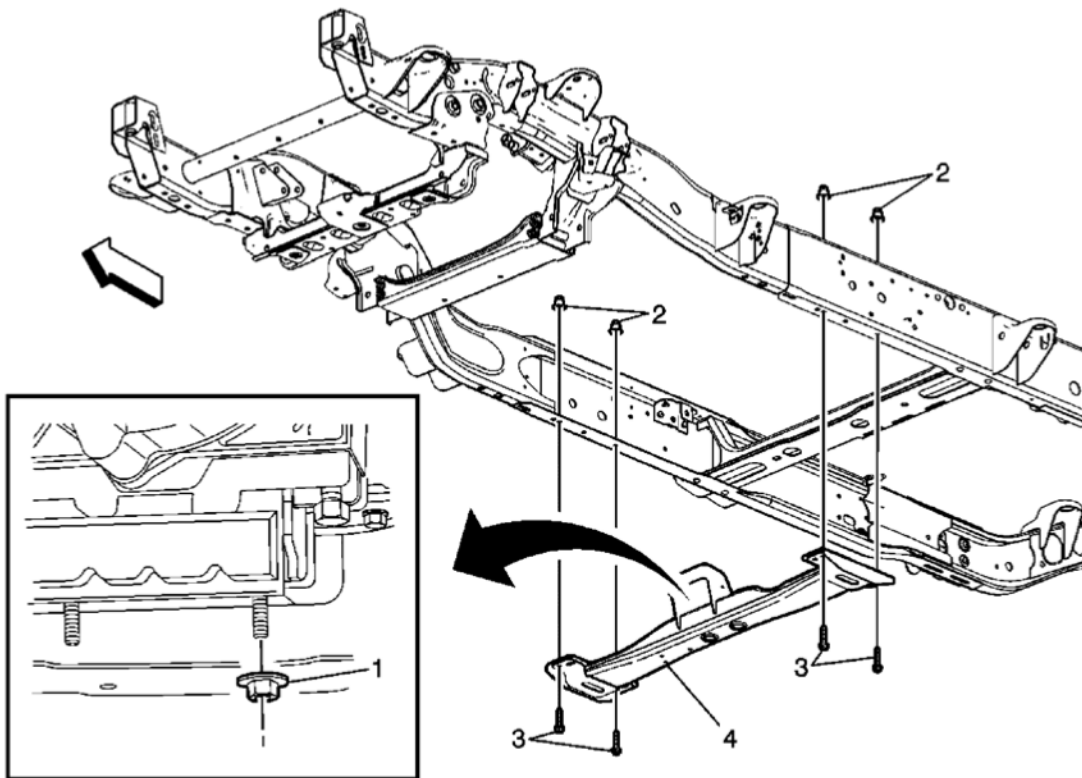


Fig. 13: View Of Transmission Crossmember, Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement - Transmission (C2500 Series)

Callout	Component Name
Preliminary Procedures	

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1. Raise and support the vehicle. Refer to **Lifting and Jacking the Vehicle** .
2. Support the transmission with a transmission jack.

1	Transmission Mount to Crossmember Nut (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 40 N.m (30 lb ft)
2	Transmission Crossmember Nut (Qty: 4) Tighten: 97 N.m (70 lb ft)
3	Transmission Crossmember Bolt (Qty: 4) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
4	Transmission Crossmember

CROSSMEMBER REPLACEMENT - TRANSMISSION (K1500 SERIES)

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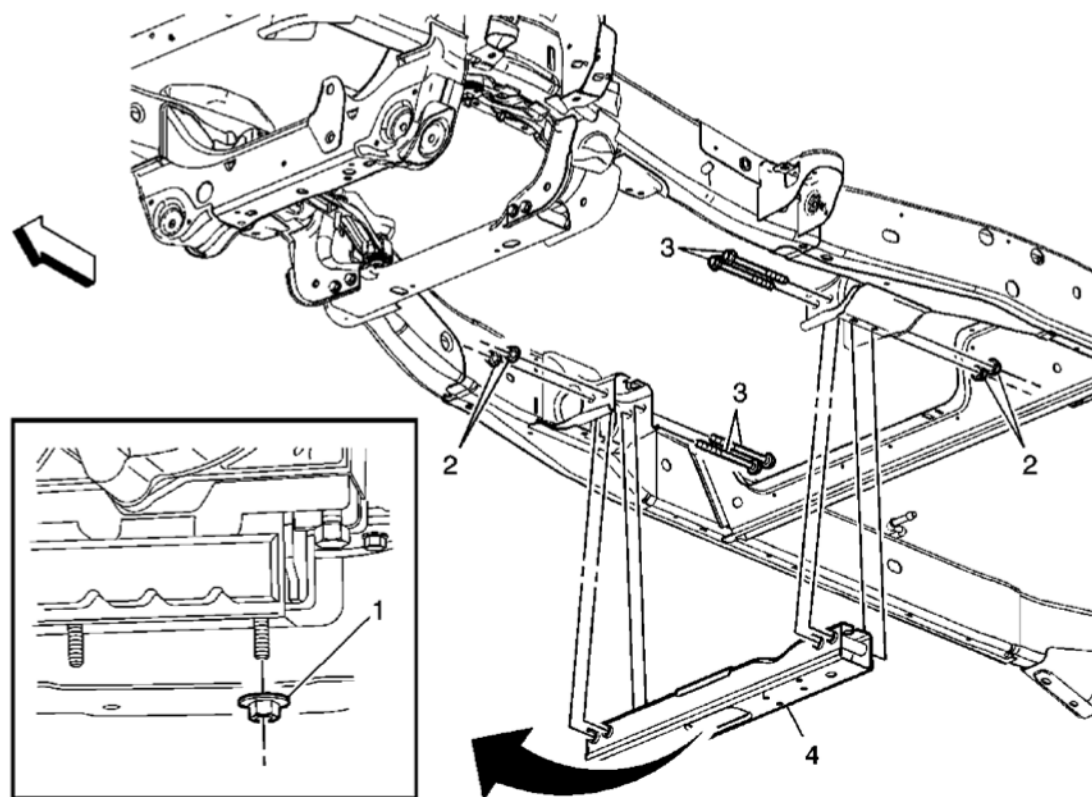


Fig. 14: View Of Transmission Crossmember, Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement - Transmission (K1500 Series)

Callout	Component Name
Preliminary Procedures	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u>. 2. Support the transmission with a transmission jack.	
1	Transmission Mount to Crossmember Nut (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 40 N.m (30 lb ft)
2	Transmission Crossmember Nut (Qty: 4) Tighten: 97 N.m (70 lb ft)
	Transmission Crossmember Bolt (Qty: 4) Tip:

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3	1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
4	Transmission Crossmember

CROSSMEMBER REPLACEMENT - TRANSMISSION (K2500 SERIES)

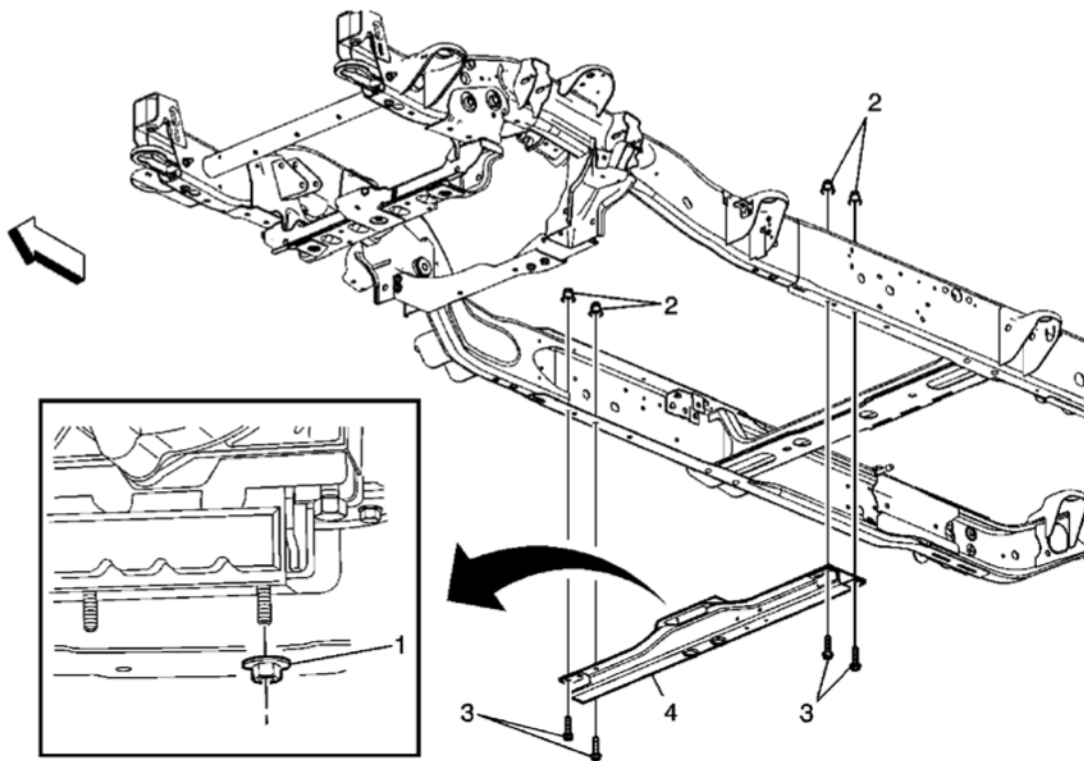


Fig. 15: View Of Transmission Crossmember, Crossmember Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

Crossmember Replacement - Transmission (K2500 series)

Callout	Component Name
Preliminary Procedures	
1. Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle . 2. Support the transmission with a transmission jack.	
1	Transmission Mount to Crossmember Nut (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> .

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	Tighten: 40 N.m (30 lb ft)
2	Transmission Crossmember Nut (Qty: 4) Tighten: 97 N.m (70 lb ft)
3	Transmission Crossmember Bolt (Qty: 4) Tip: 1. Remove all traces of the original adhesive patch. 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry. 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).
4	Transmission Crossmember

SPARE WHEEL HOIST CROSSMEMBER REPLACEMENT

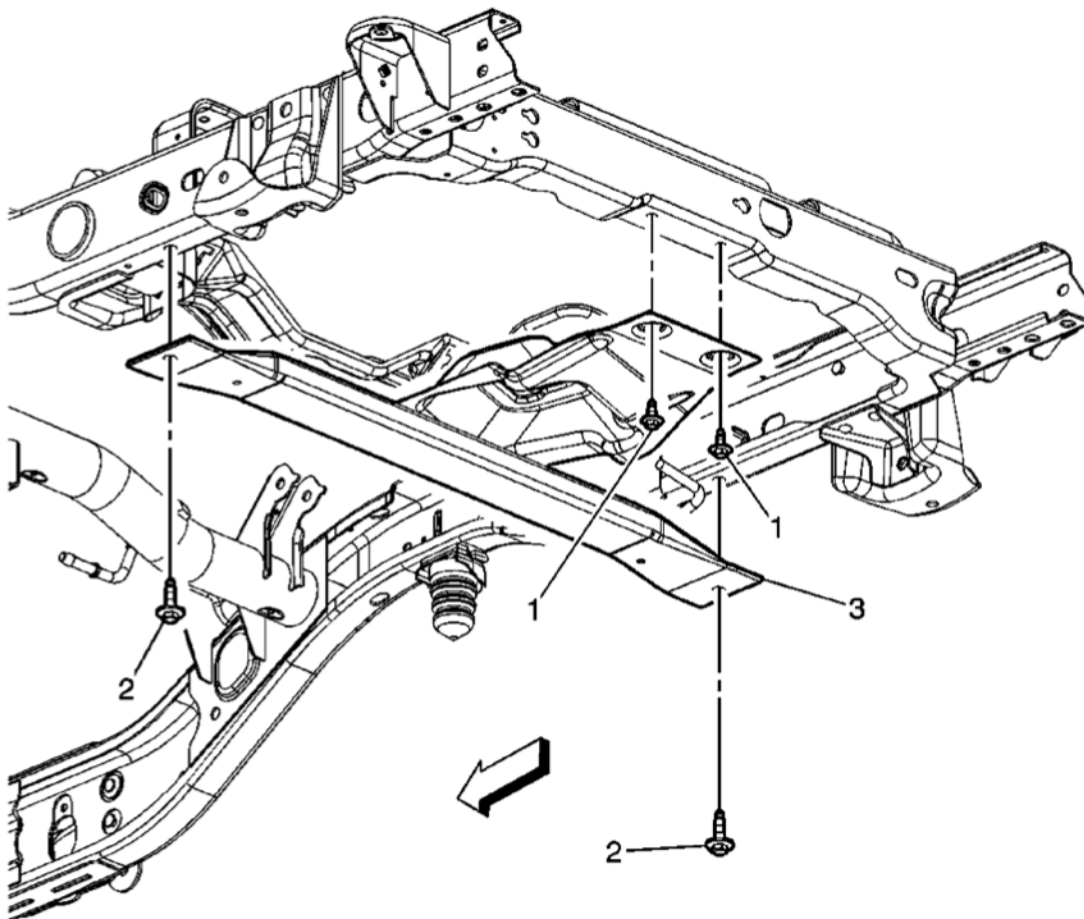


Fig. 16: View Of Spare Wheel Hoist Crossmember & Bolts
Courtesy of GENERAL MOTORS CORP.

Spare Wheel Hoist Crossmember Replacement

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Callout	Component Name
Preliminary Procedures	
1. Raise and support the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> . 2. Remove the spare wheel.	
1	Spare Wheel Hoist Crossmember Bolt (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 50 N.m (37 lb ft)
2	Spare Wheel Hoist Crossmember Bolt (Qty: 4) Tighten: 70 N.m (52 lb ft)
3	Spare Wheel Hoist Crossmember

FRAME CUSHION OR INSULATOR REPLACEMENT (LONG WHEEL BASE)

Removal Procedure

IMPORTANT: Ensure that the vehicle is unloaded prior to body removal.

1. Remove the master cylinder. Perform the following steps:
 1. Remove the nuts retaining the master cylinder to the brake booster.
 2. Remove the master cylinder from the brake booster.
 3. Secure the cylinder away from the booster.
2. Raise the vehicle on the hoist. Refer to **Lifting and Jacking the Vehicle** .
3. Remove the park brake equalizer intermediate cable. Perform the following steps:
 1. Remove the nut from the park brake equalizer intermediate cable.
 2. Remove the intermediate cable from the equalizer.
 3. Depress the retaining tabs that secure the park brake cable to the frame.
 4. Pull slightly on the cable from the mounting area in order to provide slack for body movement without binding the cable.

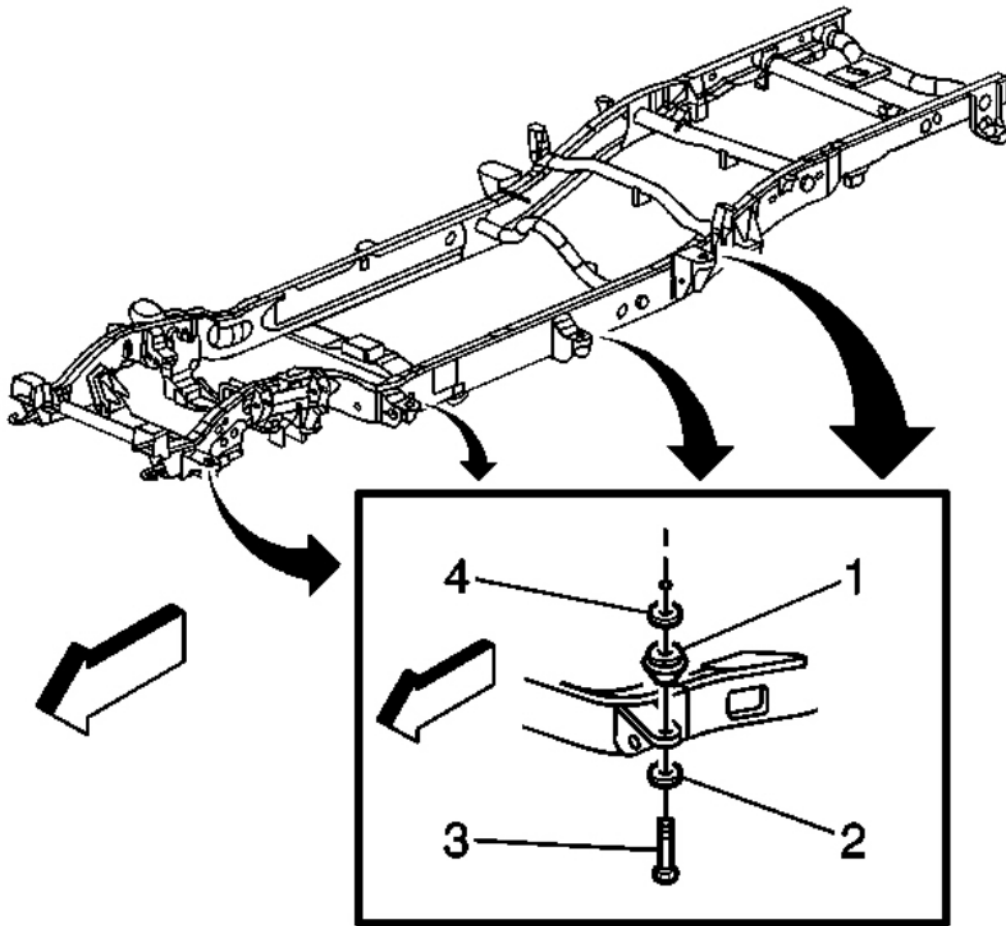


Fig. 17: View Of Frame Cushion (Extended Cab)

Courtesy of GENERAL MOTORS CORP.

4. Remove the body mount bolts.
5. Properly support the body in the area that the mounts will be replaced.

CAUTION: When you remove the body cushions, do NOT separate the frame from the body more than is necessary. Possible personal injury and damage to multiple parts may result if you do not follow the guides outlined below:

- Intermediate steering shaft-Do not allow the shaft to extend more than 25 mm (1 in).

- Fuel tank filler hose-Do not stretch the hose excessively.
- Tail/Turn signal lamp wiring/rear lamps junction block-Leave slack in the wires.
- Park brake cable-Leave slack in the cable.
- Body ground straps-Leave slack in the wire.

6. Lower the chassis accordingly in order to remove the cushions (1), as necessary.

Installation Procedure

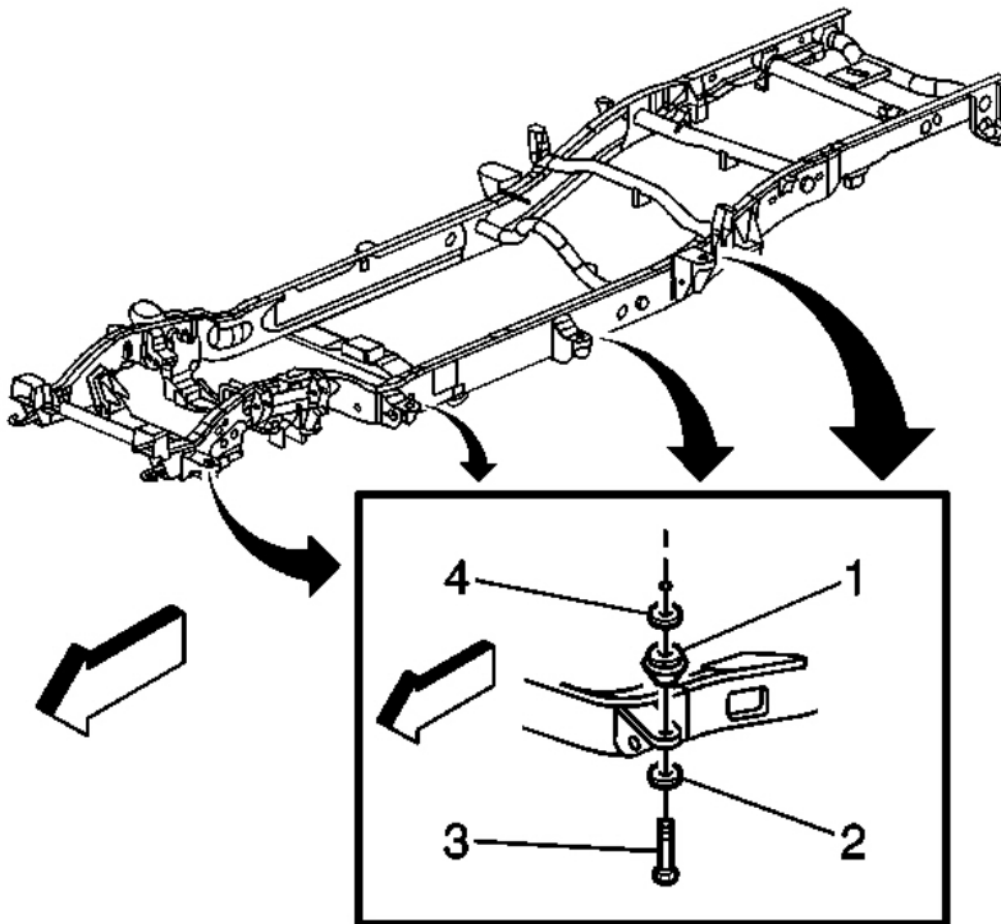


Fig. 18: View Of Frame Cushion (Extended Cab)
Courtesy of GENERAL MOTORS CORP.

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1. Install the cushions (1) as necessary and raise the chassis accordingly.
2. Perform the following procedure before installing the bolts.
 1. Remove all traces of the original adhesive patch.
 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.
 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).

NOTE: Refer to Fastener Notice .

3. Install the body mount bolts.

Tighten: Tighten the bolts to 100 N.m (74 lb ft).

4. Install the park brake equalizer intermediate cable. Perform the following steps:
 1. Pull rearward on the park brake cable to the original position.
 2. Secure the cable retaining tabs to the frame.
 3. Install the intermediate cable end to the equalizer.
 4. Install the nut to the threaded end of the intermediate cable.

Tighten: Tighten the nut to 4 N.m (31 lb in).

5. Lower the vehicle.
6. Install the master cylinder. Perform the following steps:
 1. Mount the master cylinder to the brake booster.
 2. Install the master cylinder mounting nuts.

Tighten: Tighten the nuts to 36 N.m (27 lb ft).

FRAME CUSHION OR INSULATOR REPLACEMENT (SHORT WHEEL BASE)

Removal Procedure

IMPORTANT: Ensure that the vehicle is unloaded prior to body removal.

1. Remove the master cylinder. Perform the following steps:
 1. Remove the nuts retaining the master cylinder to the brake booster.
 2. Remove the master cylinder from the brake booster.
 3. Secure the cylinder away from the booster.
2. Raise the vehicle on the hoist. Refer to Lifting and Jacking the Vehicle .
3. Remove the park brake equalizer intermediate cable. Perform the following steps:
 1. Remove the nut from the park brake equalizer intermediate cable.
 2. Remove the intermediate cable from the equalizer.

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3. Depress the retaining tabs that secure the park brake cable to the frame.
4. Pull slightly on the cable from the mounting area in order to provide slack for body movement without binding the cable.

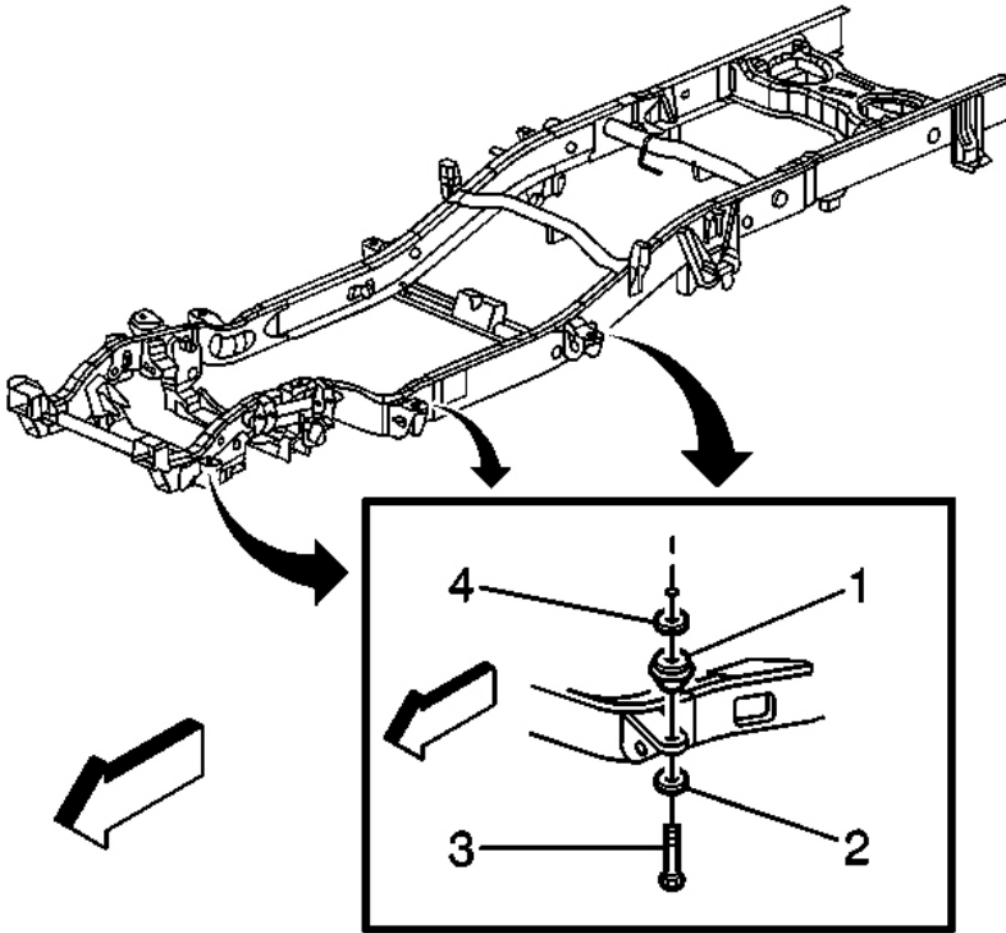


Fig. 19: View Of Frame Cushion (Regular Cab)
Courtesy of GENERAL MOTORS CORP.

4. Remove the body mount bolts.
5. Properly support the body in the area that the mounts will be replaced.

CAUTION: When you remove the body cushions, do NOT separate the frame from the body more than is necessary. Possible personal injury and damage to multiple parts may result if you do not follow the guides

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outlined below:

- Intermediate steering shaft-Do not allow the shaft to extend more than 25 mm (1 in).
- Fuel tank filler hose-Do not stretch the hose excessively.
- Tail/Turn signal lamp wiring/rear lamps junction block-Leave slack in the wires.
- Park brake cable-Leave slack in the cable.
- Body ground straps-Leave slack in the wire.

6. Lower the chassis accordingly in order to remove the cushions (1) as necessary.

Installation Procedure

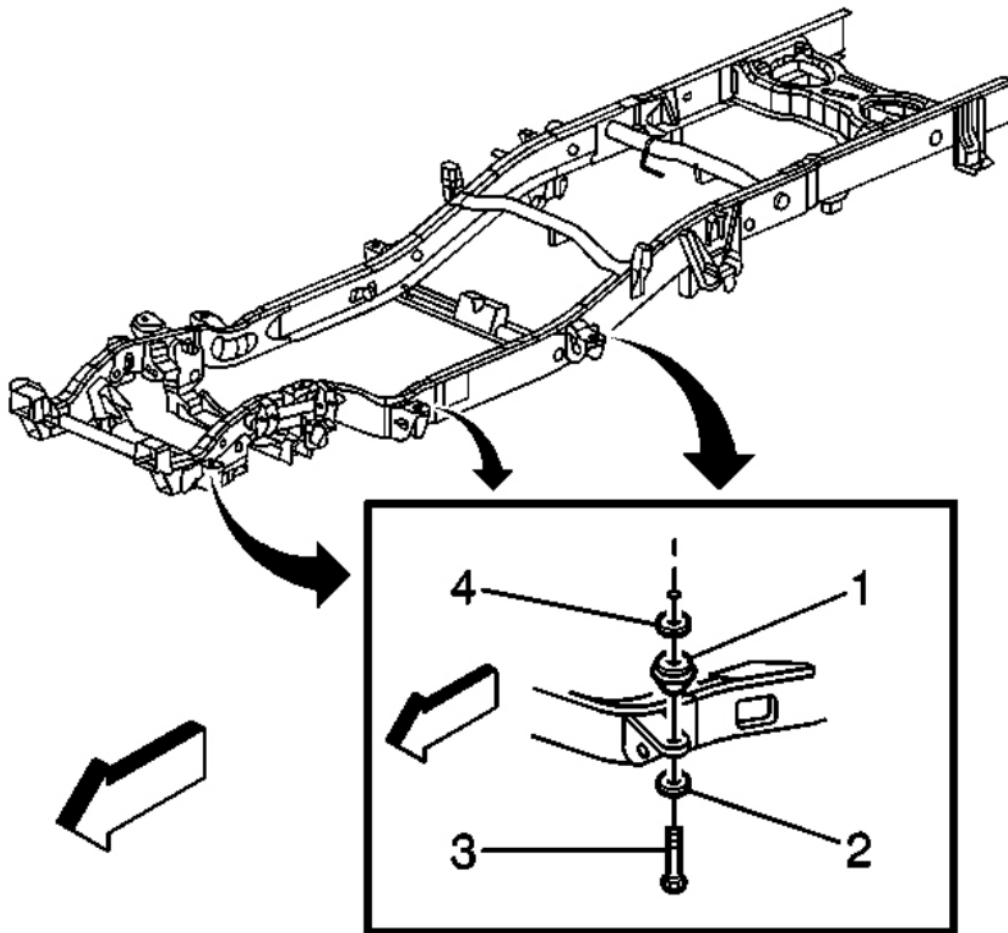


Fig. 20: View Of Frame Cushion (Regular Cab)

Courtesy of GENERAL MOTORS CORP.

1. Install the cushions (1) as necessary and raise the chassis accordingly.
2. Perform the following procedure before installing the bolts.
 1. Remove all traces of the original adhesive patch.
 2. Clean the threads of the bolt with denatured alcohol or equivalent and allow to dry.
 3. Apply threadlocker GM P/N 12345493 (Canadian P/N 10953488).

NOTE: Refer to Fastener Notice .

3. Install the body mount bolts.

Tighten: Tighten the bolts to 100 N.m (74 lb ft).

4. Install the park brake equalizer intermediate cable. Perform the following steps:
 1. Pull rearward on the park brake cable to the original position.
 2. Secure the cable retaining tabs to the frame.
 3. Install the intermediate cable end to the equalizer.
 4. Install the nut to the threaded end of the intermediate cable.

Tighten: Tighten the nut to 4 N.m (31 lb in).

5. Lower the vehicle.
6. Install the master cylinder. Perform the following steps:
 1. Mount the master cylinder to the brake booster.
 2. Install the master cylinder mounting nuts.

Tighten: Tighten the nuts to 36 N.m (27 lb ft).

FRONT WHEELHOUSE LINER REPLACEMENT

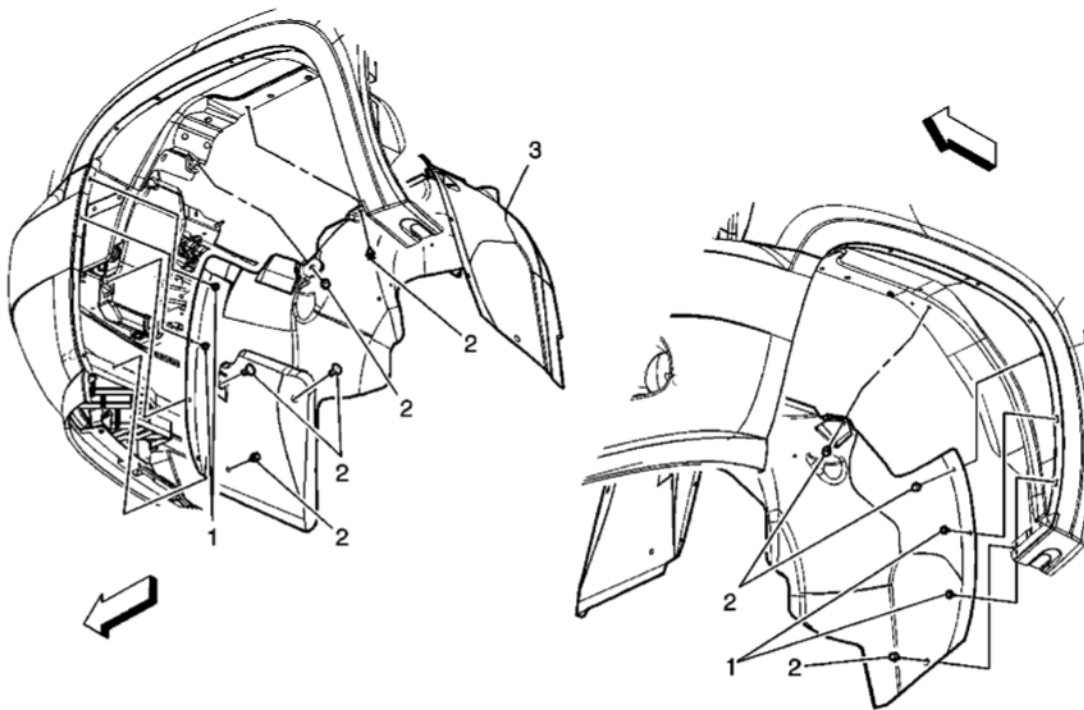


Fig. 21: View Of Wheelhouse Liner, Plastic Retainers & Screws
Courtesy of GENERAL MOTORS CORP.

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Callout	Component Name
Preliminary Procedure: Remove the appropriate tire and wheel assembly. Refer to <u>Tire and Wheel Removal and Installation</u> .	
1	Wheelhouse Liner Screws (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 3 N.m (27 lb in)
2	Wheelhouse Liner Plastic Retainers (Qty: 8)
3	Wheelhouse Liner Tip: Before attempting to remove the wheelhouse liner remove any plastic retainers and/or bolts passing through or attached to the wheelhouse liner.

WHEELHOUSE LINER PANEL REPLACEMENT - REAR

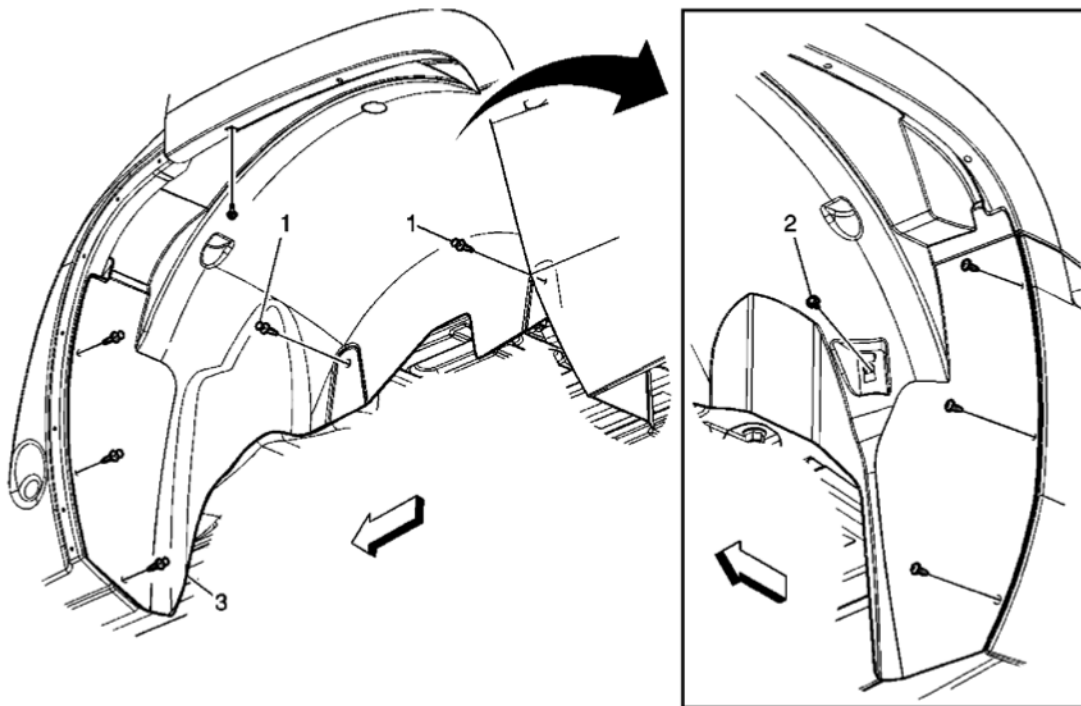


Fig. 22: View Of Rear Wheelhouse Liner, Screws & Retainers
Courtesy of GENERAL MOTORS CORP.

Wheelhouse Liner Panel Replacement - Rear

Callout	Component Name
Preliminary Procedure: Remove the appropriate tire and wheel assembly. Refer to <u>Tire and Wheel Removal and Installation</u> .	

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1	Rear Wheelhouse Liner Retainer (Qty: 3)
2	Rear Wheelhouse Liner Screw (Qty: 7) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 9 N.m (80 lb in)
3	Rear Wheelhouse Liner Tip: Before attempting to remove the wheelhouse liner remove any plastic retainers and/or bolts passing through or attached to the wheelhouse liner.

ASSIST STEP REPLACEMENT (MANUAL)

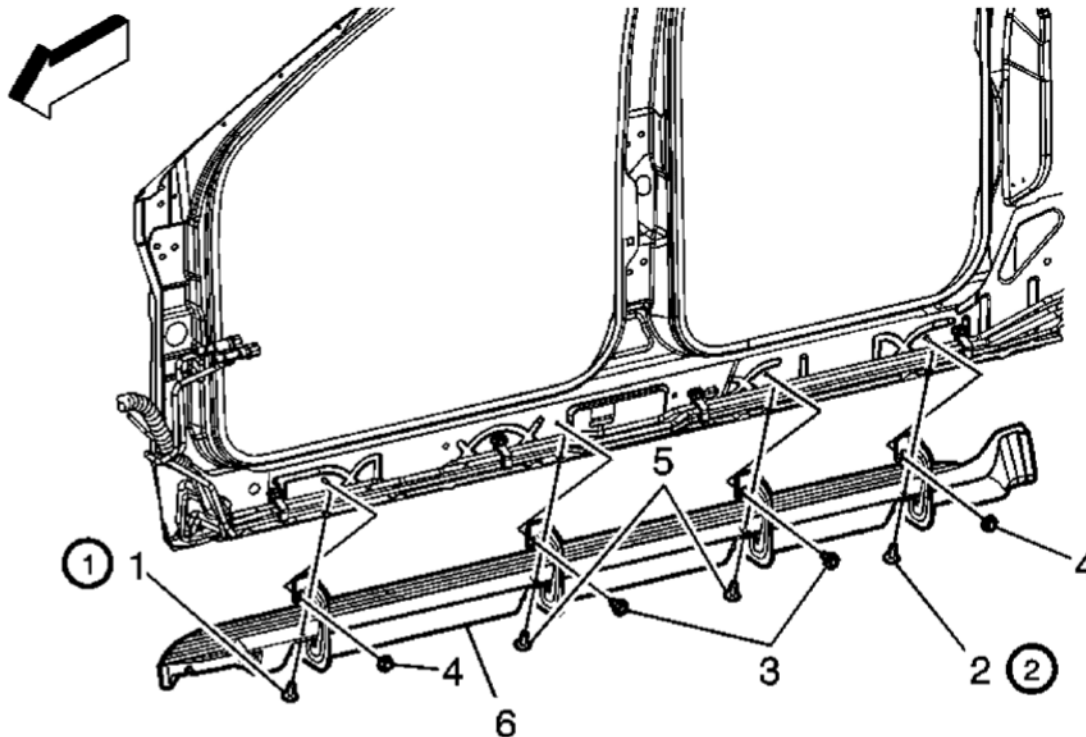


Fig. 23: View Of Assist Step & Components
Courtesy of GENERAL MOTORS CORP.

Assist Step Replacement (Manual)

Callout	Component Name
Preliminary Procedure: Raise the vehicle. Refer to <u>Lifting and Jacking the Vehicle</u> .	
	Bracket to Assist Step Bolt

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1	NOTE: Refer to <u>Fastener Notice</u> . Tighten: 25 N.m (18 lb ft)
2	Bracket to Assist Step Bolt Tighten: 6 N.m (53 lb in)
3	Bracket to Rocker Panel Bolts (Qty: 2) Tighten: 25 N.m (18 lb ft)
4	Bracket to Rocker Panel Nuts (Qty: 2) Tighten: 25 N.m (18 lb ft)
5	Bracket to Assist Step Bolt (Qty: 2) Tighten: 6 N.m (53 lb in)
6	Assist Step Tip: Install the brackets to the assist step prior to installing the assist step to the vehicle.

ASSIST STEP REPLACEMENT (Z71)

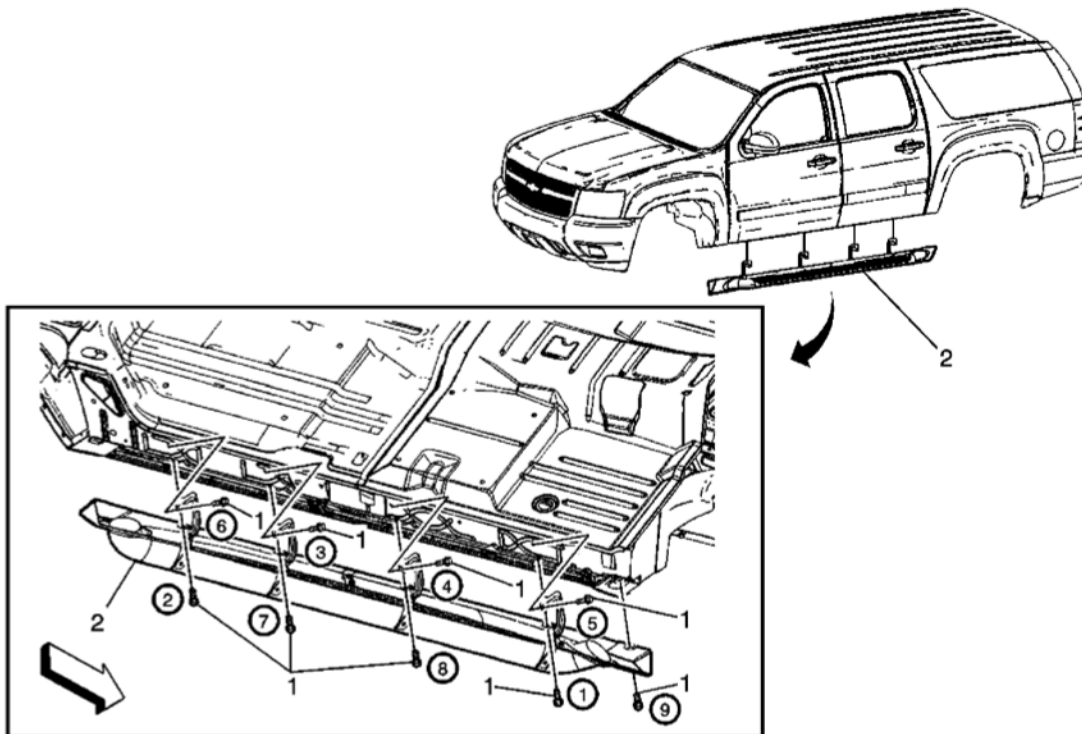


Fig. 24: View Of Assist Step & Bolts

Courtesy of GENERAL MOTORS CORP.

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Assist Step Replacement (Z71)

Callout	Component Name
1	Assist Step Bolt (Qty: 9) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 23 N.m (17 lb ft) Tip: 1. Suburban shown, other models similar. 2. Assemble the assist step completely before installing to the vehicle. 3. Torque bolts in the sequence shown.
2	Assist Step Assembly

ASSIST STEP REPLACEMENT (POWER)

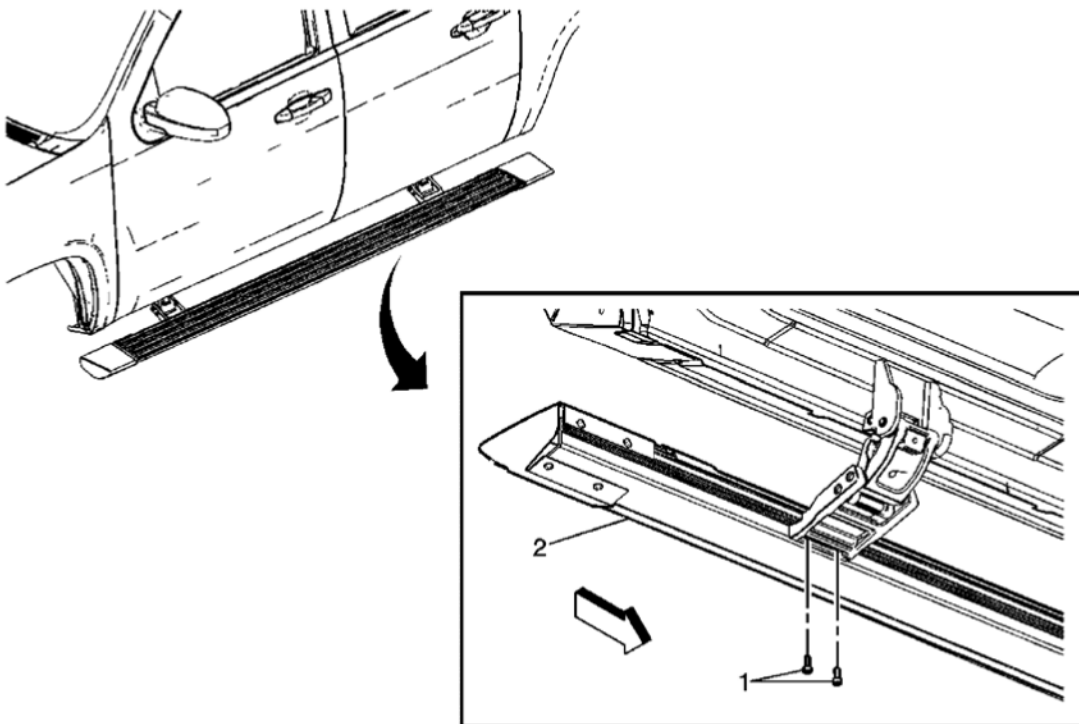


Fig. 25: View Of Power Assist Step & Bolts
Courtesy of GENERAL MOTORS CORP.

Assist Step Replacement (Power)

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Callout	Component Name
Preliminary Procedures 1. Deploy the power assist step. 2. Mark the location of the front T-slotted bracket and measure to the front of the assist step with a grease pencil and tape measure. 3. Transfer the measurement to the new assist step with the grease pencil and tape measure. 4. Mark the location of the rear T-slotted bracket and measure to the rear of the assist step with a grease pencil and tape measure. 5. Transfer the measurement to the new assist step with the grease pencil and tape measure.	
1	Power Assist Step Bolts (Qty: 4) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 12 N.m (106 lb in)
2	Power Assist Step IMPORTANT: It is essential to make the measurements in the preliminary procedures or the power assist steps may not be aligned to the body properly. Tip: Transfer any parts as needed.

ASSIST STEP PAD REPLACEMENT (POWER)

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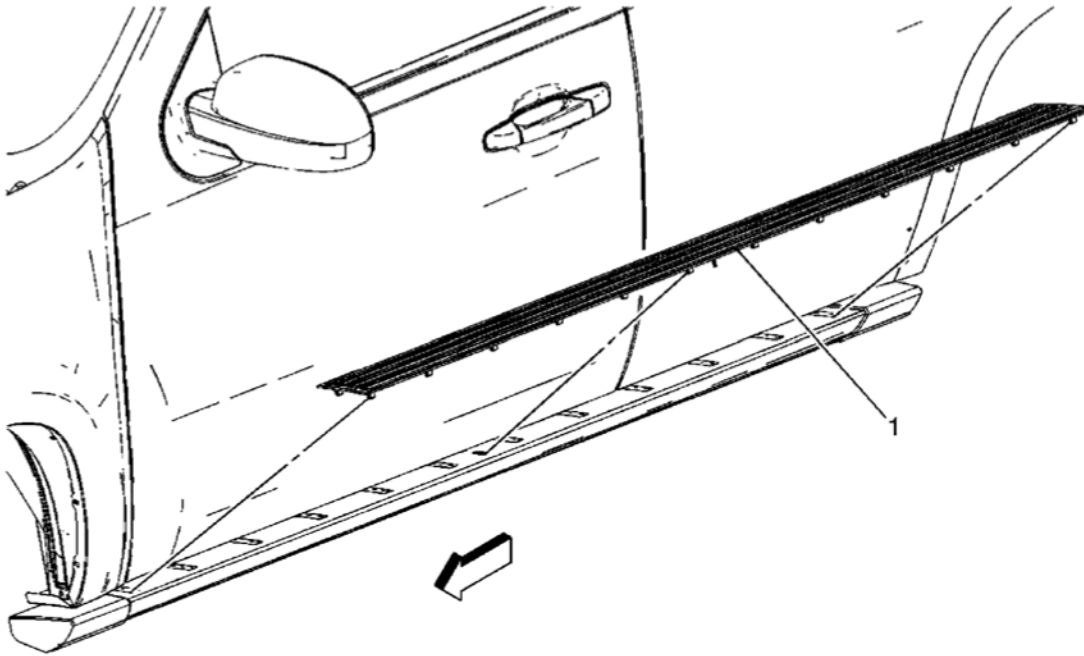


Fig. 26: View Of Power Assist Step Pad
Courtesy of GENERAL MOTORS CORP.

Assist Step Pad Replacement (Power)

Callout	Component Name
1	Power Assist Step Pad Tips 1. Deploy the power assist step. 2. Use a trim panel removal tool to help ease the release of the clips holding the pad in.

ASSIST STEP FINISH COVER REPLACEMENT (POWER)

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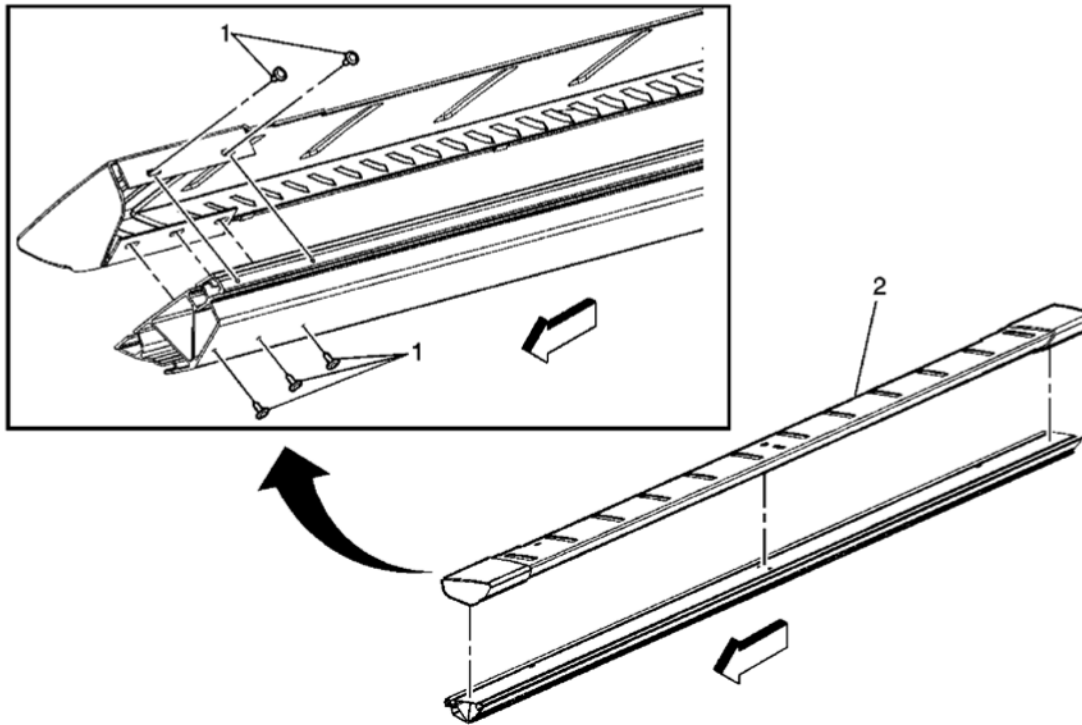


Fig. 27: View Of Power Assist Step Finish Cover & Screws
Courtesy of GENERAL MOTORS CORP.

Assist Step Finish Cover Replacement (Power)

Callout	Component Name
Preliminary Procedures	
1. Deploy the power assist step.	
2. Remove the power assist step pad. Refer to <u>Assist Step Pad Replacement (Power)</u> .	
1	Power Assist Step Finish Cover Screws (Qty: 10) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 6 N.m (53 lb in)
2	Power Assist Step Finish Cover

ASSIST STEP FRONT BRACKET REPLACEMENT

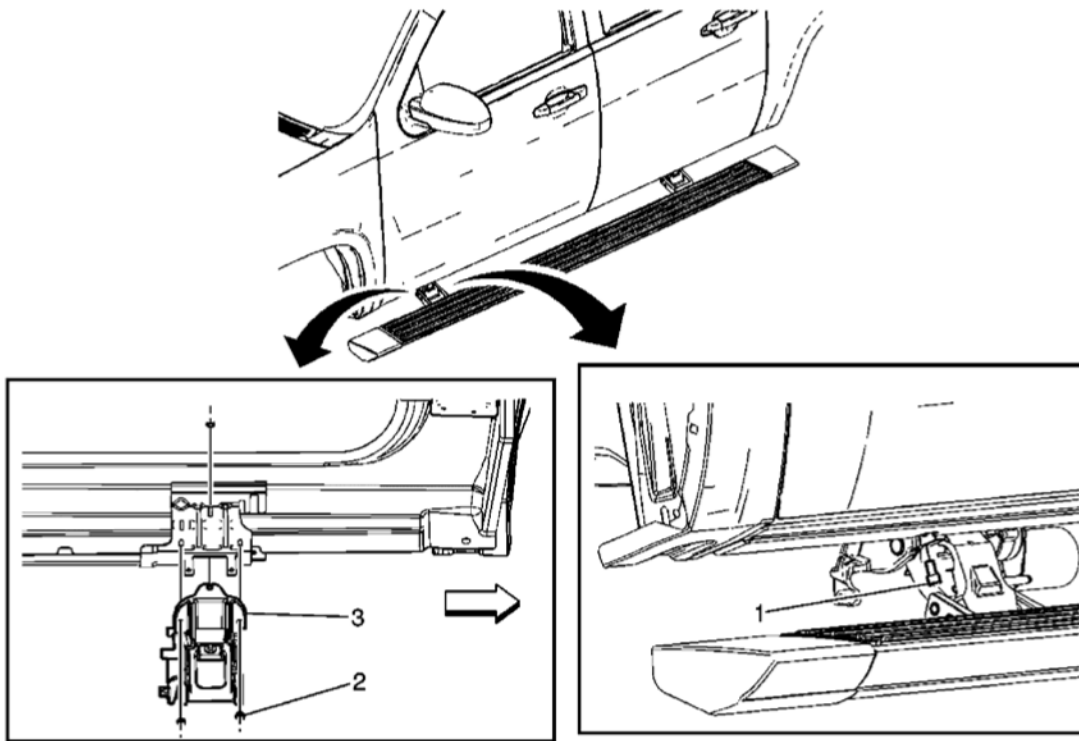


Fig. 28: View Of Power Assist Step Front Bracket, Front Bracket Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

Assist Step Front Bracket Replacement

Callout	Component Name
Preliminary Procedures	
1. Deploy and support the power assist step. 2. Use a grease pencil to outline the location of the power assist step front bracket location on the power assist step. 3. Remove the power assist front bracket to power assist step bolts. Refer to <u>Assist Step Replacement (Manual)</u> or <u>Assist Step Replacement (Z71)</u> or <u>Assist Step Replacement (Power)</u> 4. Remove the power assist step motor. Refer to <u>Assist Step Motor Replacement</u>.	
1	Power Assist Step Front Bracket Bolts (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 6 N.m (53 lb in)
2	Power Assist Step Front Bracket Nuts (Qty: 3) Tighten: 10 N.m (89 lb in)

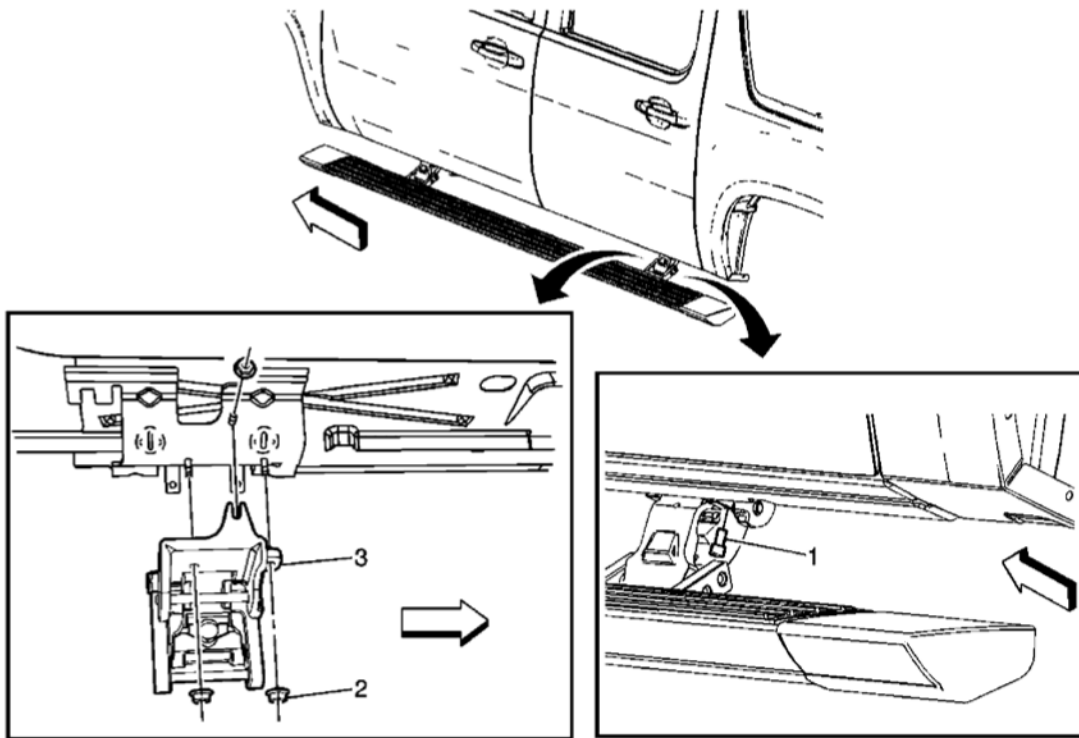
ASSIST STEP REAR BRACKET REPLACEMENT

Fig. 29: View Of Power Assist Step Rear Bracket, Rear Bracket Nuts & Bolts
Courtesy of GENERAL MOTORS CORP.

Assist Step Rear Bracket Replacement

Callout	Component Name
Preliminary Procedures	
1. Deploy and support the power assist step. 2. Use a grease pencil to outline the location of the power assist step rear bracket location on the power assist step. 3. Remove the power assist rear bracket to power assist step bolts. Refer to <u>Assist Step Replacement (Manual)</u> or <u>Assist Step Replacement (Z71)</u> or <u>Assist Step Replacement (Power)</u>	
1	Power Assist Step Rear Bracket Bolts (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 6 N.m (53 lb in)

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2	Power Assist Step Rear Bracket Nuts (Qty: 3) Tighten: 10 N.m (89 lb in)
3	Power Assist Step Rear Bracket

ASSIST STEP CONTROLLER REPLACEMENT

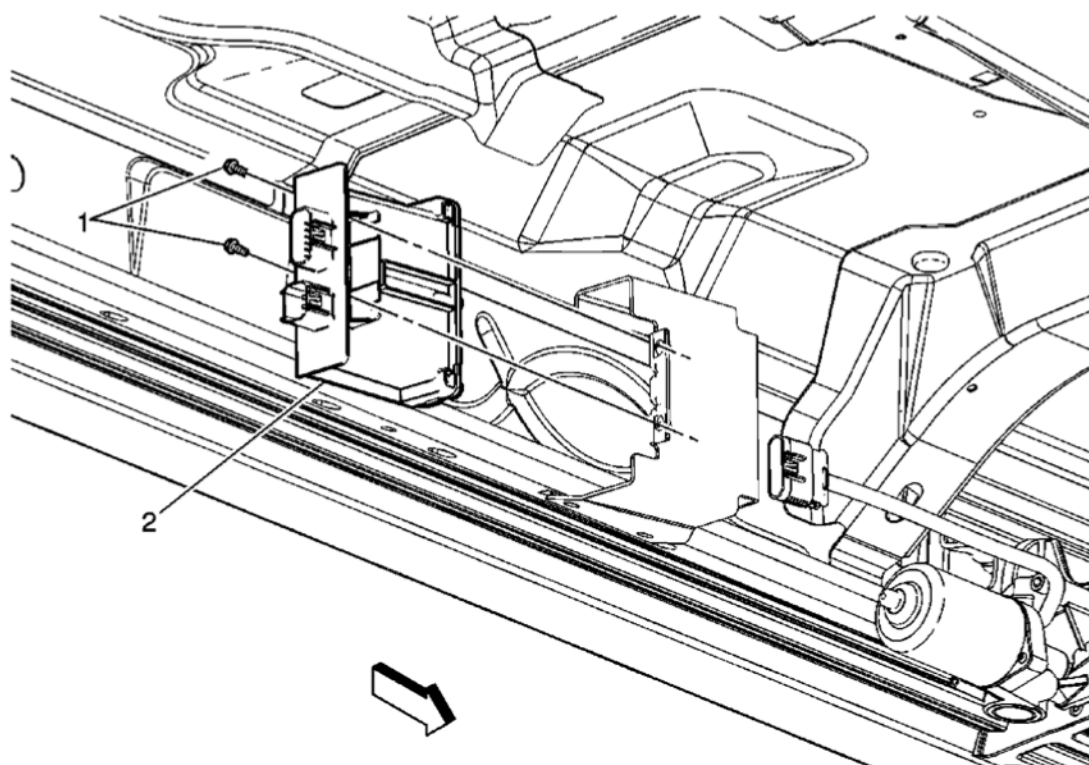


Fig. 30: View Of Power Assist Step Controller & Bolts
Courtesy of GENERAL MOTORS CORP.

Assist Step Controller Replacement

Callout	Component Name
1	Power Assist Step Controller Bolts (Qty: 2) NOTE: Refer to <u>Fastener Notice</u> . Tighten: 6 N.m (53 lb in)
2	Power Assist Step Controller Tips

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1. Disconnect any electrical connectors.
2. Reprogram the new controller if necessary. Refer to **Control Module References**.

ASSIST STEP MOTOR REPLACEMENT

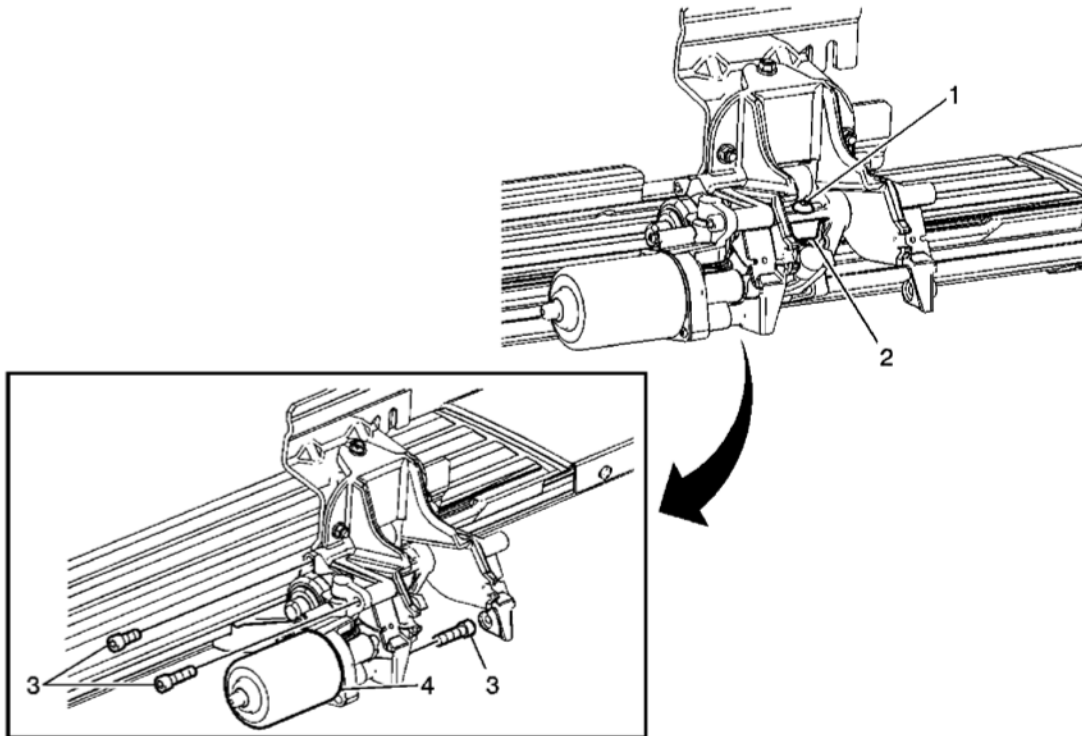


Fig. 31: View Of Assist Step Motor, Motor Bolts, Motor Wedge & Wedge Bolt
Courtesy of GENERAL MOTORS CORP.

Assist Step Motor Replacement

Callout	Component Name
Preliminary Procedures	
1. Deploy the power assist step. 2. Disconnect any electrical connectors.	
1	Assist Step Motor Wedge Bolt NOTE: Refer to <u>Fastener Notice</u> . Tighten: 8 N.m (71 lb in)
2	Assist Step motor Wedge
	Assist Step Motor Bolts (Qty: 3)

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3	Tighten: 12 N.m (9 lb ft)
4	Assist Step Motor IMPORTANT: Make sure the flat on the motor is parallel to the floor before installing. All new motors should be shipped with motor flat in the correct position. As the motor is installed shake the board up and down gently to make sure the wedge and flat seat together correctly or unwanted noise could result. Tip: Once the installation of the new motor is completed the assist step must be cycled once for the module to learn the positioning.

TRAILER HITCH REPLACEMENT

Removal Procedure

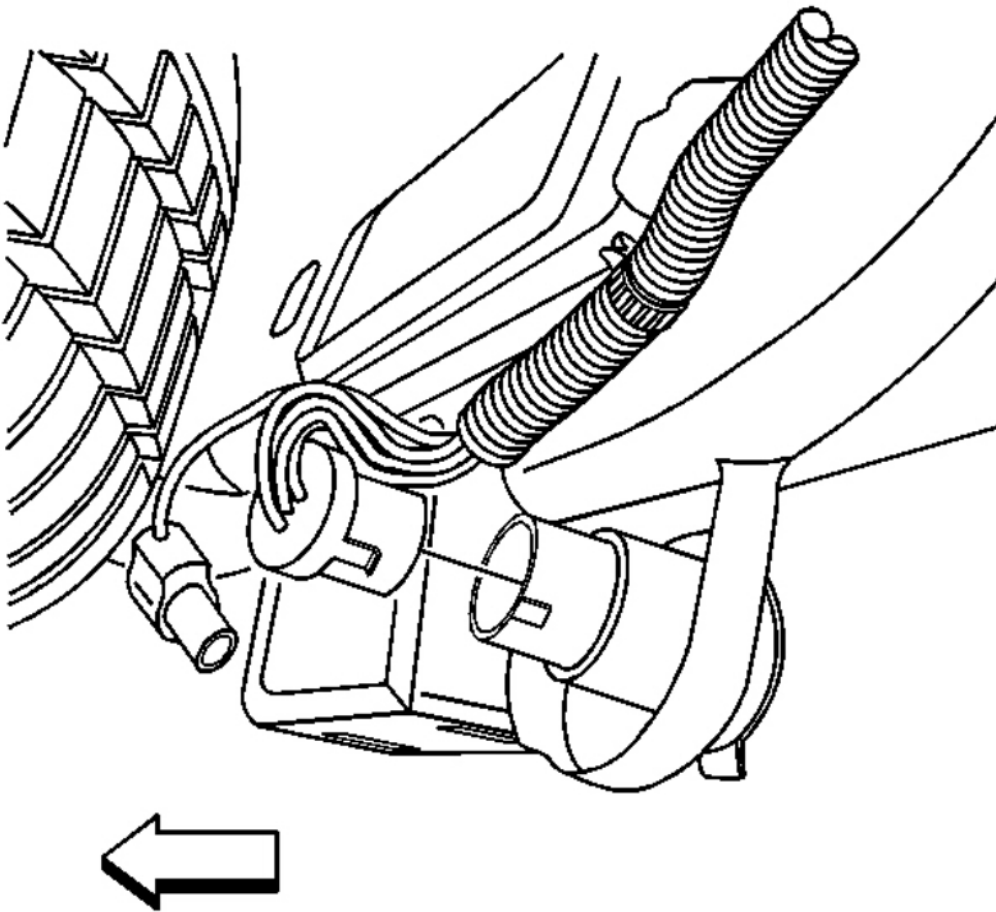


Fig. 32: View of Trailer Wiring Harness
Courtesy of GENERAL MOTORS CORP.

1. Disconnect the trailer wiring harness.

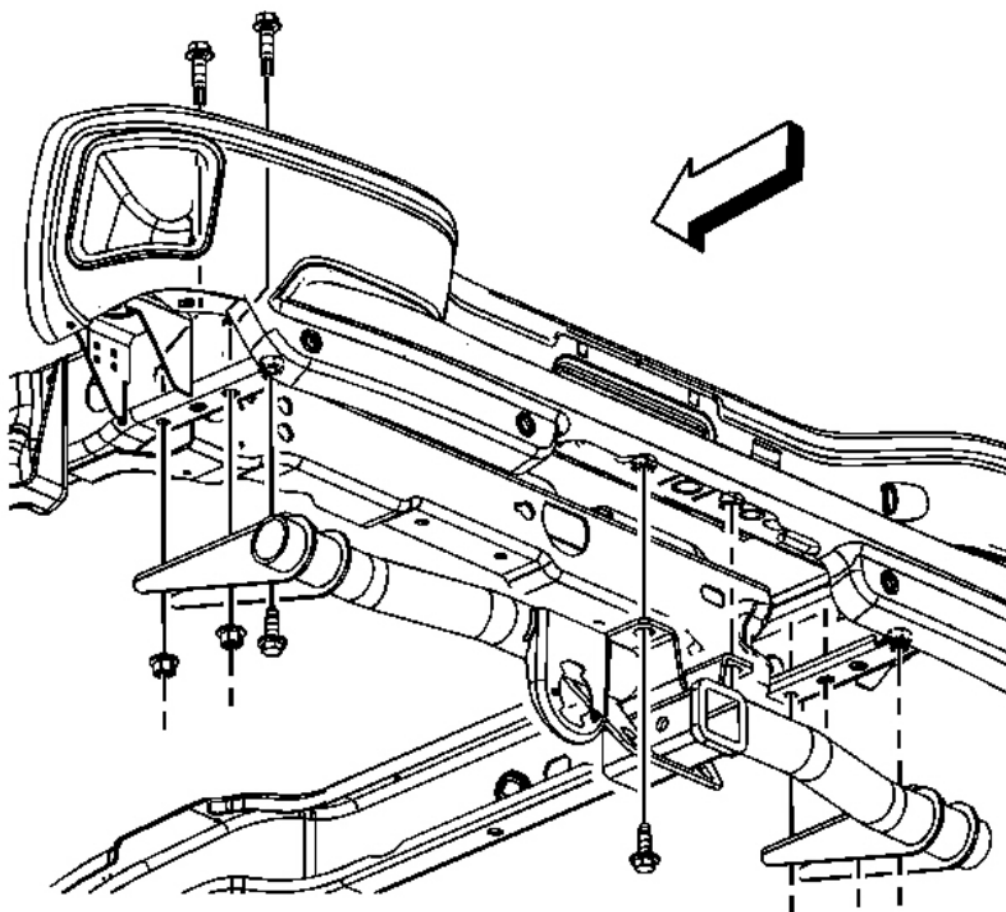


Fig. 33: View Of Hitch Platform & Platform Bolts
Courtesy of GENERAL MOTORS CORP.

2. Remove the hitch platform bolts from the frame rails and the rear bumper.
3. Remove the hitch platform from the vehicle.

Installation Procedure

1. Position the hitch platform to the vehicle.

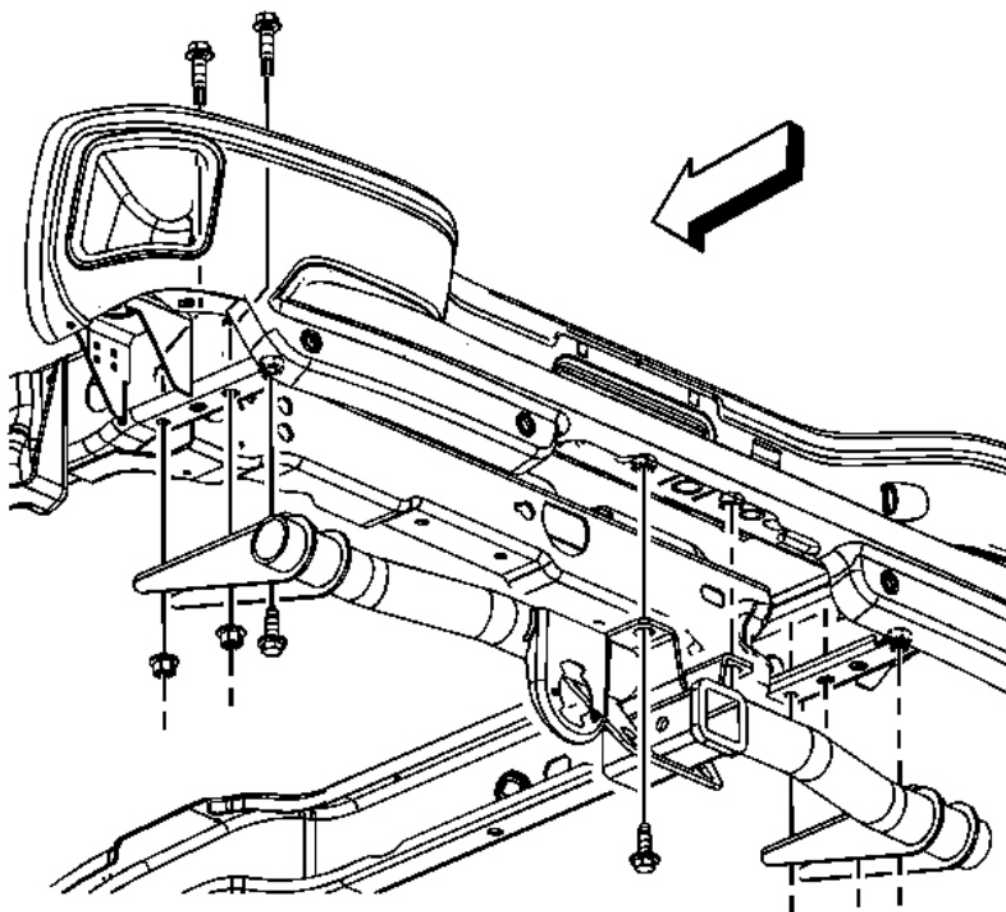


Fig. 34: View Of Hitch Platform & Platform Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

2. Install the platform hitch bolts to the frame rails and the rear bumper.

Tighten: Tighten the bolts to 125 N.m (92 lb ft).

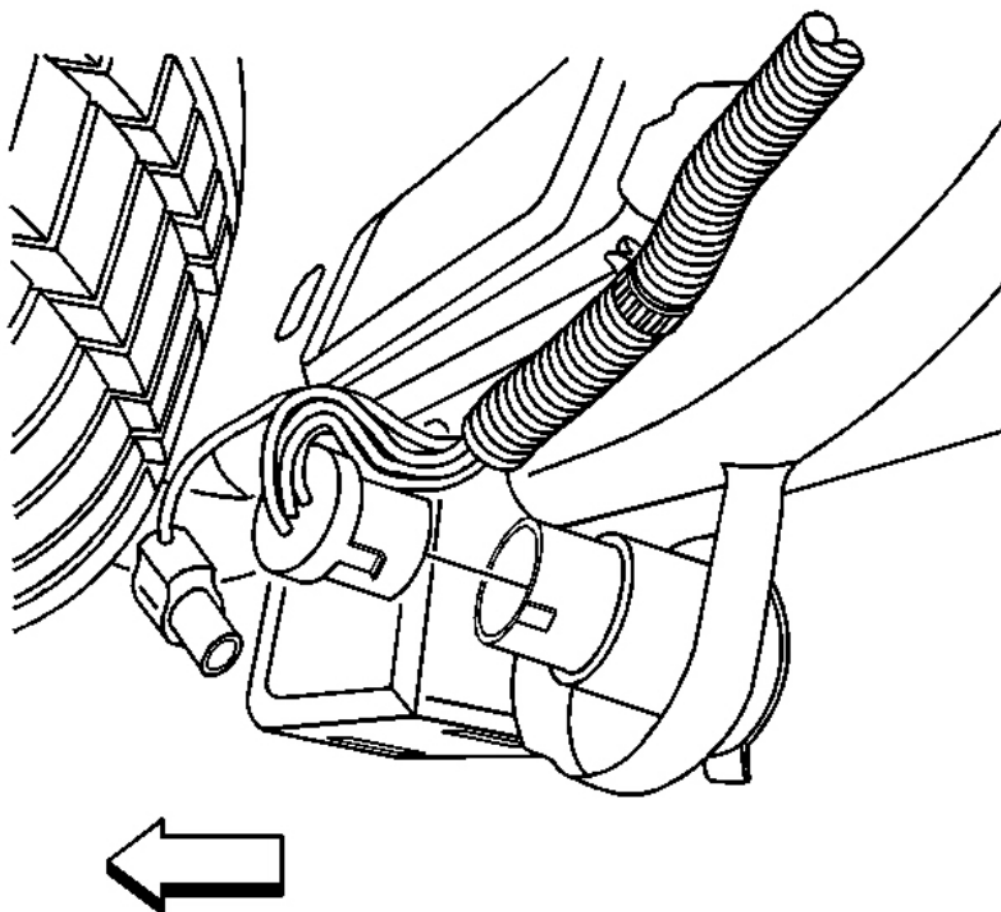


Fig. 35: View of Trailer Wiring Harness
Courtesy of GENERAL MOTORS CORP.

3. Connect the trailer wiring harness.

SCHEMATIC AND ROUTING DIAGRAMS

STEP/RUNNING BOARD SCHEMATICS

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STEP/RUNNING BOARD COMPONENT VIEWS

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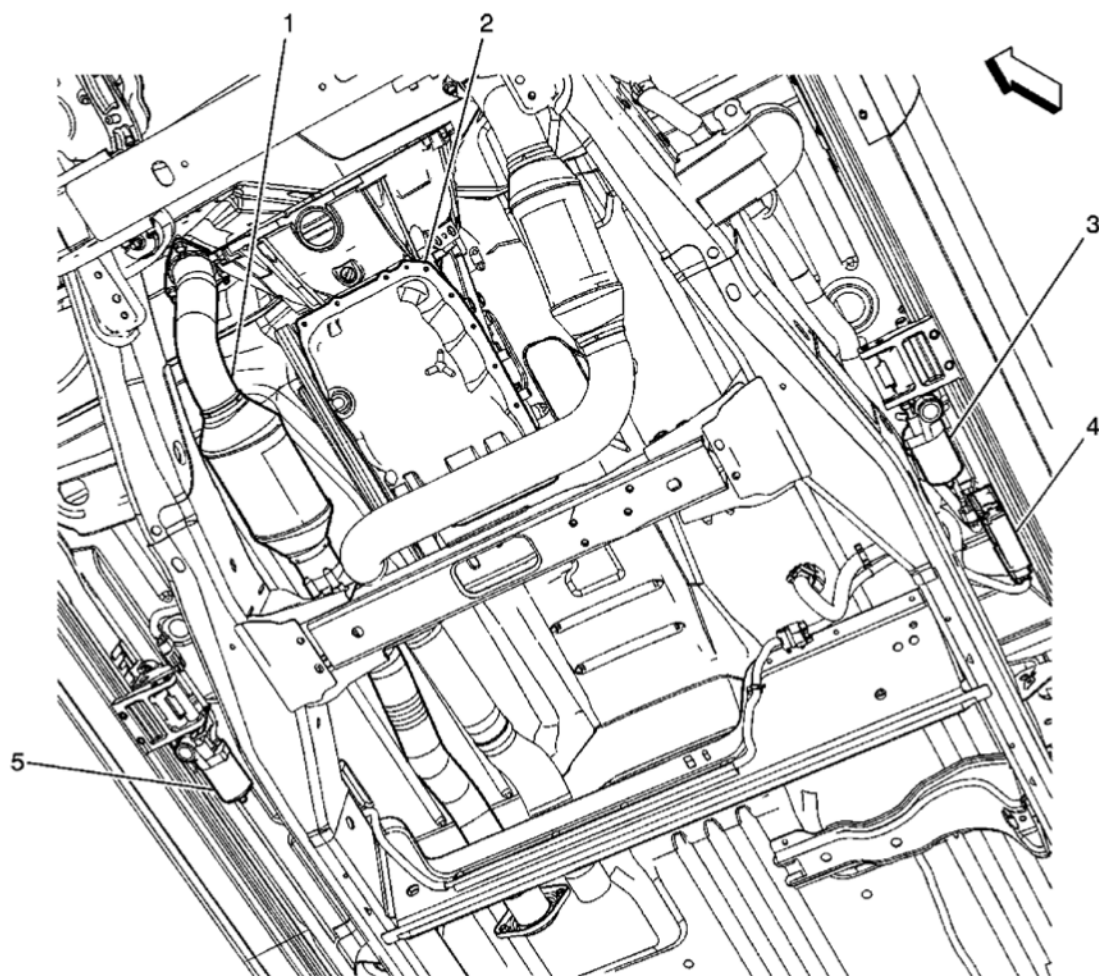


Fig. 37: Retractable Running Board Components (BRS)

Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 37

Callout	Component Name
1	Front Exhaust
2	Transmission
3	Running Board - Right
4	Articulating Running Board Module (ARBM)
5	Running Board - Left