

Camaro Performance Axle Kit REMOVAL & INSTALLATION INSTRUCTIONS

Thank you for your purchase of the Camaro Axle Kit. This kit allows owners of Camaro SS models to upgrade their driveline to 2012 ZL1 specifications. These instructions cover the removal and installation of the driveline components. There are two separate kits, one for automatic transmission and another for manual transmission vehicles. The kit content and quantities are listed below:

Description	Qty	Part Number
ZL1 Driveline Kit - Manual	1	22960155
Chevy Performance Badge	1	22942442
Propshaft	1	20931145
RDM	1	20931133
RDM Plug/Cup	2	22960153
LH Halfshaft	1	22963142
RH Halfshaft	1	22963143
Trans Flange	1	22960154
Trans Flange Nut	1	89099464
Trans Flange Washer	1	89099465
I-Sheet	1	22960155
Drive Shaft Nut	2	11611234
Drive Shaft Washer	2	11611865
Prop to Trans Bolt	3	11611336
Prop to Trans Nut	3	11611365
Prop to RDM Bolt	3	11611336
Prop to Frame Bolt	2	11616763
RDM to Cradle Bolt	3	11616878
RDM to Cradle Nut	3	11616978

Note: Due to the larger size of the ZL1 replacement rear differential in this kit, the exhaust system will need to be modified to eliminate interference to the right side of the outer housing. However, instructions will not be included for the exhaust modification; can be modified however the customer chooses as long as there is at least a 25mm clearance to surrounding components.

Note: The rear differential module is equipped with an integrated heat exchanger. There are plugs provided with this kit to close the unit. However, if a customer chooses to utilize this feature, they can simply remove the plugs, run their own cooler lines and overfill the system accordingly. The cooler lines and installation instructions are not included in this document.

Note: The Chevy Performance Badge can be applied to any flat surface. Clean the surface thoroughly with isopropyl alcohol and apply the badge with a moderate apply force of 6lbs for a minimum of 5 seconds.

CAUTION

Caution: In order to reduce the chances of personal injury and/or property damage carefully observe the instructions that follow: Attempting repairs or service without the appropriate training, tools, and equipment could cause injury to you or others. This could also damage the vehicle, or cause the vehicle to operate improperly. If you are unsure of your abilities to install this kit please have the work performed by a qualified technician.

Proper vehicle service and repair are important to the safety of the service technician and to the safe, reliable operation of all motor vehicles. If you need to replace a part, use the same part number or an equivalent part. Do not use a replacement part of lesser quality.

The service procedures we recommend and describe in this service manual are effective methods of performing service and repair. Some of the procedures require the use of tools that are designed for specific purposes.

Accordingly, any person who intends to use a replacement part, a service procedure, or a tool that is not recommended by General Motors, must first establish that there is no jeopardy to personal safety or the safe operation of the vehicle.

This manual contains various "Cautions" and "Warnings" that you must observe carefully in order to reduce the risk of personal injury during service or repair. Improper service or repair may damage the vehicle or render the vehicle unsafe. These "Cautions" and "Warnings" are not exhaustive. General Motors cannot possibly warn of all the potentially hazardous consequences of your failure to follow these instructions.

TITLE Camaro Axle Kit Removal & Installation Instructions		IR 300C12	PART NO. 22960155	SHEET 1 OF 48
ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON 8 1/2 X 11 WHITE 10 POUND BOND PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES.				
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BY (Initials)		REVISION		
L. J. Feltz		1		
L. J. Feltz		N/A		

Lifting and Jacking the Vehicle

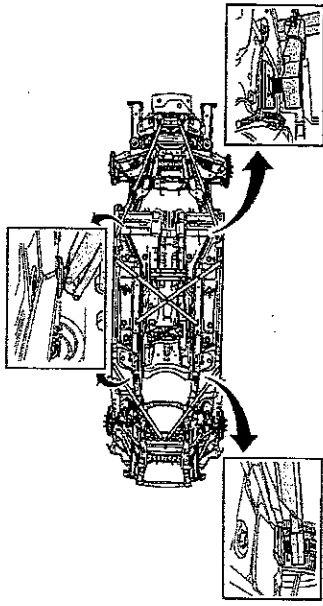


Figure 1

Danger: To avoid any vehicle damage, serious personal injury or death when major components are removed from the vehicle and the vehicle is supported by a hoist, support the vehicle with jack stands at the opposite end from which the components are being removed and strap the vehicle to the hoist.

Danger: To avoid any vehicle damage, serious personal injury or death, always use the jack stands to support the vehicle when lifting the vehicle with a jack.

Caution: Perform the following steps before beginning any vehicle lifting or jacking procedure:

- Remove or secure all of the vehicle contents in order to avoid any shifting or any movement that may occur during the vehicle lifting or jacking procedure.
- The lifting equipment or the jacking equipment weight rating must meet or exceed the weight of the vehicle and any vehicle contents.
- The lifting equipment or the jacking equipment must meet the operational standards of the lifting equipment or jacking equipment manufacturer.
- Perform the vehicle lifting or jacking procedure on a clean, hard, dry, level surface.
- Perform the vehicle lifting or jacking procedure only at the identified lift points. DO NOT allow the lifting equipment or jacking equipment to contact any other vehicle components.

Failure to perform the previous steps could result in damage to the lifting equipment or the jacking equipment, the vehicle, and/or the vehicle contents.

Vehicle Lifting - Frame Contact Lift

Front Lift Pads

When lifting the vehicle with a frame-contact lift, place the front lift pads on the front lower brackets, inboard of the rocker pinch weld flange and outboard of the front frame rail, at the torque box location, as shown (Figure 1).

Rear Lift Pads

When lifting the vehicle with a frame-contact lift, place the rear lift pads on the rear frame rail, at the torque box location, as shown (Figure 1).

Vehicle Jacking

Caution: When you are jacking the vehicle at the front locations, be certain that the jack or the jack lift pad does not contact the front fender, front fascia air dam, or the front fenders. If such contact occurs, vehicle damage may result. When jacking at selected front locations additional clearance may be required for the jacking points.

Note: When you are lifting a vehicle with a service jack, block the wheels at the opposite end from which you are lifting. Use jack stands to provide additional support.

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Front of Vehicle

When using a service jack under the front of the vehicle use one of the following locations:

- Place the service jack pad in the same location as shown for the front lift pads.
- Under the front frame cross member, as shown (figure 1).

Rear of Vehicle

Note: Place jack stands ONLY under strong and stable vehicle structures.

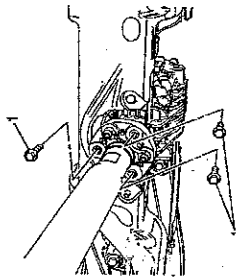
When using a service jack under the rear of the vehicle place the jack pad on the rocker panel flange, at the torque box location, as shown (figure 1).

Axle Kit Replacement

Note: The complete axle replacement will include the removal of the propeller shaft, transmission pinion flange, rear wheel drive shafts, and rear differential module.

Removal Procedures

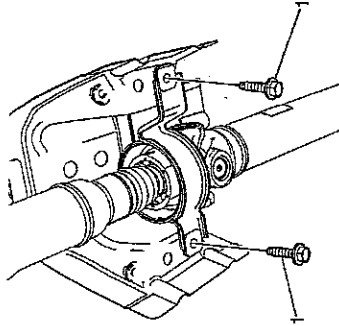
1. Raise and support the vehicle per lifting and jacking notes.
2. Drain the rear differential assembly.
3. Remove the propeller shaft from the vehicle.
Note: The front and rear propeller shaft couplings can be serviced separately from the propeller shaft. If the propeller shaft coupling needs to be serviced, proceed to steps 3h - 3k.
- 3a. Remove the exhaust heat shield.
Note: DO NOT reuse the nuts (1). Discard and replace with NEW only.
- 3b. Remove the bolts (2) and nuts (1) from the propeller shaft to the transmission output flange.
- 3c. Support the propeller shaft with a suitable jack stand.



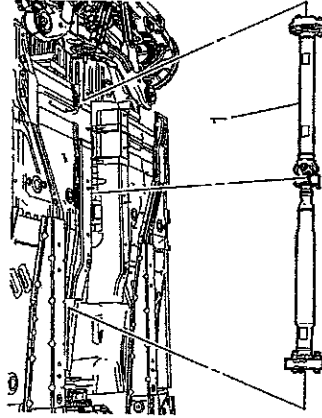
Note: DO NOT reuse the bolts (1). Discard and replace with NEW only.

- 3d. Remove and discard the bolts (1) from the propeller shaft to the drive pinion flange.
- 3e. Support the propeller shaft with a suitable jack stand.

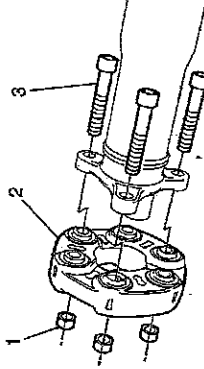
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- 3f. Remove the propeller shaft support bearing bolts (1).



- 3g. Remove the propeller shaft (1) from the vehicle.
Note: If the propeller shaft coupler is found to be excessively worn or damaged, proceed to step 3h.



- 3h. Remove and discard the bolts (3) and the nuts (1) from the propeller shaft to the propeller shaft coupler (2).
- 3i. Remove and discard the propeller shaft coupler (2).

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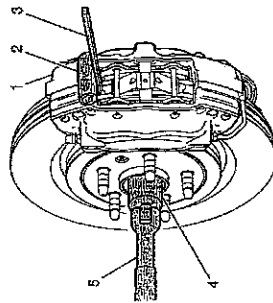
- 3j. Install the NEW propeller shaft coupler (2).
- 3k. Install the NEW propeller shaft coupler bolts (3).
- 3l. Install NEW the propeller shaft coupler nuts (1) and tighten to 81 N·m (67 lb·ft).

Special Tools

- DT48877 Seal Protector
- J44394 Seal Protector

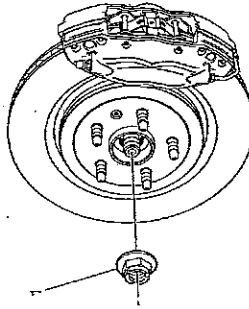
- 4a. Remove the tire and wheel assembly .
 - Remove the wheel center cap, if equipped.
 - Remove the wheel nuts.
 - Remove the tire and wheel assembly.

Caution: Never use heat to loosen a tight wheel bolt or nut. This can shorten the life of wheel and damage wheel bearings. For vehicles equipped with the high performance brakes (Brembo) proceed to step 4c. All other vehicles proceed to step 4g.



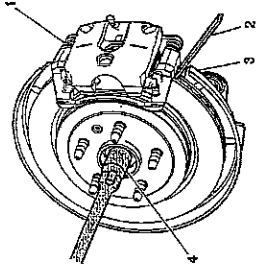
Note: DO NOT place the drift or flat bladed screwdriver against the bottom of those vehicles equipped with the high performance brakes (Brembo). Damage to the bottom cross over tube could be damaged causing brake failure.

- 4c. Insert a drift or large flat bladed screwdriver (3) in the cooling fins of the brake rotor against the brake caliper (1).
- 4d. Place a clean shop towel (2) between the drift or large flat bladed screwdriver (3) brake caliper (1).
- 4e. Using a breaker bar (5) and the proper size socket (4), loosen the wheel drive shaft nut.

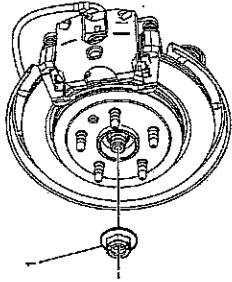


- Note:** DO NOT re-use the wheel drive shaft nut, replace with NEW only.
- 4f. Remove the wheel drive shaft nut (1) and discard.

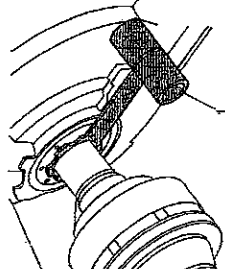
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- 4g. Insert a drift or flat bladed screwdriver (2) in the cooling fins of the brake rotor (3) against the brake caliper mounting bracket (1).
- 4h. Using a breaker bar and the proper size socket (4), loosen the wheel drive shaft nut.

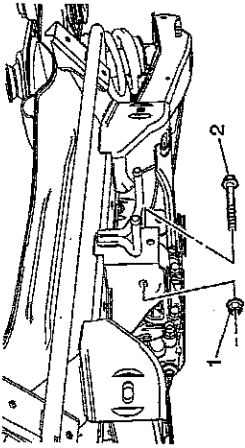


- Note:** DO NOT re-use the wheel drive shaft nut, replace with NEW only.
- 4i. Remove and discard the wheel drive shaft nut (1).
 - 4j. Using the appropriate tool, separate the wheel drive shaft from the knuckle.

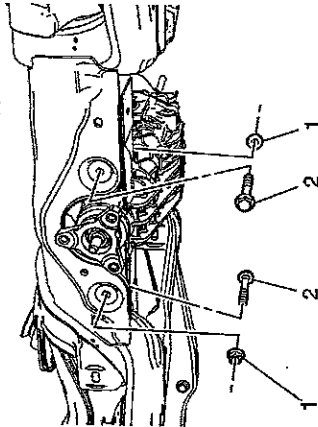


- Caution:** J-44394 must be installed into the differential output shaft seal prior to removing and installing the wheel drive shaft. Failure to install J-44394 as indicated may cause the splines of the wheel drive shaft to cut the differential output seal.
- 4k. Carefully install the J44394 protector for the 195 mm axle or the DT48877 protector for the 218 mm axle over the wheel drive shaft.
 - 4l. Carefully slide the J44394 protector for the 195 mm axle or the DT48877 protector for the 218 mm axle into the differential output shaft seal.

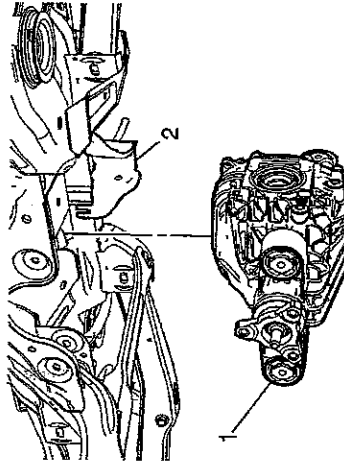
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7. Remove the rear differential mount nut (1) and (2).



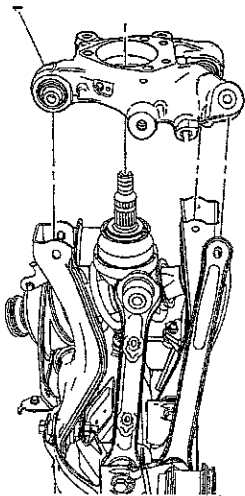
8. Remove the front differential mounting nuts (1) and (2).



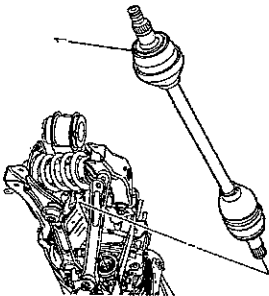
9. Remove the rear differential assembly (1) from the vehicle.

Note: At this time, the transmission pinion flange will need to be removed and replaced with the one provided in the axle kit. The new flange has the correct holes (M-4) and counterbores (2.1mm) sizes to accommodate the new propshaft that comes with the kit.

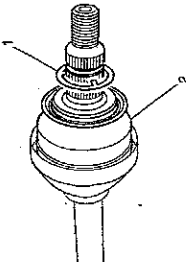
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ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS BROWN ON 8 1/2 x 11 WHITE 50 POUND BOND PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES.						
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4m. Remove the knuckle assembly (1).



4n. Remove the wheel drive shaft (1) from the vehicle.



Note: If there is no washer present on the wheel drive shaft when removed, install the NEW washer.

4o. Remove the washer (1) from the wheel drive shaft (2) and discard. Replace with NEW only.

5. Support the rear drive axle assembly with a hydraulic jack stand.

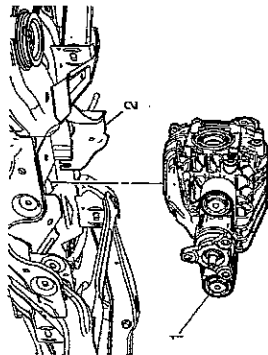
6. Remove the vent tube from the rear axle housing.

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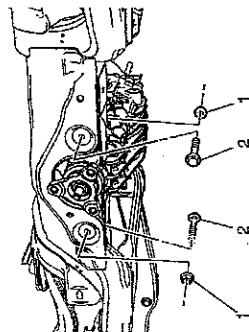
Installation Procedures

Note: Use the new components provided in the axle kit

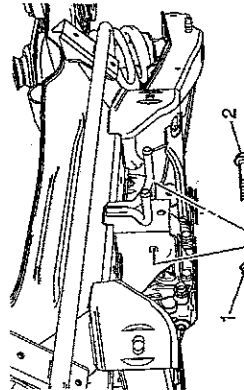
Caution: Use the correct fastener in the correct location. Replacement fasteners must be the correct part number for that application. Do not use paints, lubricants, or corrosion inhibitors on fasteners, or fastener joint surfaces, unless specified. These coatings affect fastener torque and joint clamping force and may damage the fastener. Use the correct tightening sequence and specifications when installing fasteners in order to avoid damage to parts and systems. When using fasteners that are threaded directly into plastic, use extreme care not to strip the mating plastic part(s). Use hand tools only, and do not use any kind of impact or power tools. Fastener should be hand tightened, fully seated, and not stripped.



1. Position the rear differential assembly (1) in the rear suspension carrier (2).



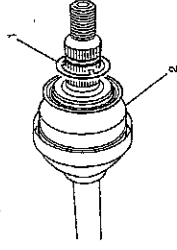
2. Install the front differential mounting bolts (2) and (1) nuts. Bolt part number: 11516878; Nut part number: 11516078.
3. Tighten the nuts (1) to 80N·m (59 lb·ft).



4. Install the rear differential mounting nut (1) and bolt (2). Bolt part number: 11516878; Nut part number: 11516078

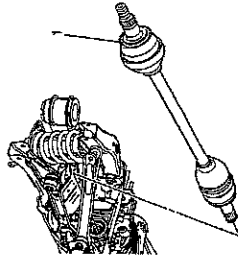
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5. Tighten the nuts (1) to 80N·m (59 lb·ft).
6. Install the wheel drive shafts in the vehicle.

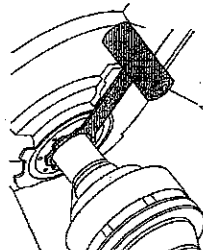


Note: DO NOT re-use the old washer, replace with NEW only.

- 6a. Install the NEW washer (1) on the wheel drive shaft (2). Washer part number: 11611965

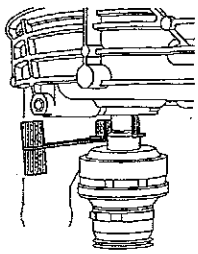


- 6b. Install the wheel drive shaft (1) in the vehicle.

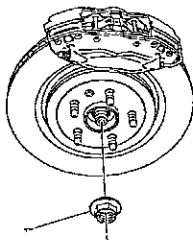


- 6c. Caution: J-44394 must be installed into the differential output shaft seal prior to removing and installing the wheel drive shaft. Failure to install J-44394 as indicated may cause the splines of the wheel drive shaft to cut the differential output seal.
- 6c. Carefully install the wheel drive shaft into the differential unit the splines are past the J-44394 protector for the 195mm axle or the DT-48877 protector for the 219mm and 250mm axle.

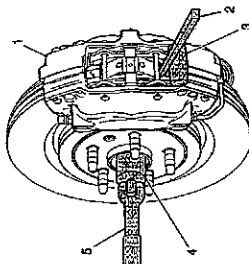
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- 6d. Carefully remove the J44354 protector for the 195mm axle or the DT 48877 protector for the 218mm and 250mm axle from the differential output shaft seal.
- 6e. Install the wheel drive shaft until the it is fully seated in the rear differential.
- 6f. Install the knuckle assembly.

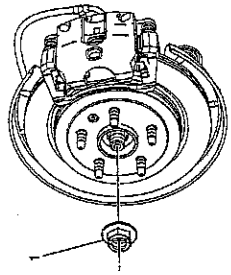


- Note: DO NOT re-use the wheel drive shaft nut, replace with NEW only.
- 6g. Install the NEW wheel drive shaft nut(1). Nut part number: 11611234

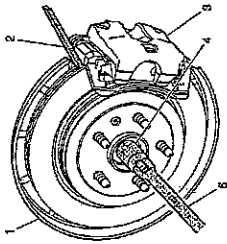


- Note: DO NOT place the drift or flat bladed screwdriver against the bottom of those vehicles equipped with the high performance brakes (Brembo). Damage to the bottom cross over tube could be damaged causing brake failure.
- 6h. Insert a drift or large flat bladed screwdriver(2) in the cooling fins of the brake rotor against the brake caliper(1).
- 6i. Place a clean stop towel(3) between the drift or large flat bladed screwdriver(2) brake caliper(1).

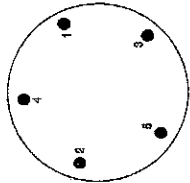
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- 9j. Install the NEW wheel drive shaft nut(1). Nut part number: 11611234

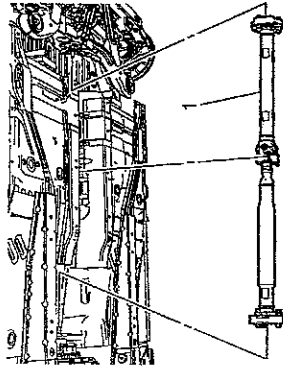


- 6k. Insert a drift or large flat bladed screwdriver(2) in the cooling fins of the brake rotor(1) against the brake caliper(3).
Note: The following services procedure will cover the vehicles equipped with the high performance brakes (Brembo) and the standard brakes.
- 6l. Using a torque wrench (5) and the proper size socket (4), tighten the wheel drive shaft nut to 270 N•m (199 lb ft).
- 7. Install the tire and wheel assembly.
- 7a. Hand start the wheel nuts.

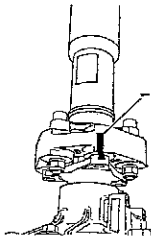


- Caution: Improperly tightened wheel bolts or nuts can lead to brake pulsation and rotor damage. In order to avoid expensive brake repairs, evenly tighten the wheel bolts or nuts to the proper torque specification.
- 7b. Using the proper size socket and the torque wrench, tighten the wheel nuts in the proper sequence to 165N•m (122lb ft).
- 7c. Install the wheel center cap, if required.
- 7d. Install the wheel cap nuts, if required.
- 8. Install the propeller shaft from the vehicle.

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8a. Apply a small amount of clean lubricant on the pilot shaft on the transmission drive flange and the differential drive flange.

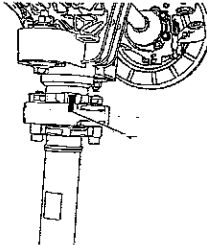


8b. Align the reference marks (1) on the propeller shaft and the transmission drive flange.

8c. Install the propeller shaft (1) to transmission drive flange.

8d. Install the propeller shaft bolts (2). Bolt part number: 11611335

8e. Install the NEW propeller shaft nuts (1) and tighten bolts to 135 N·m (100 lb·ft). Nut part number: 11611365



8f. Align the reference marks (1) on the propeller shaft to the rear differential drive flange.

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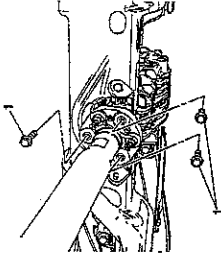
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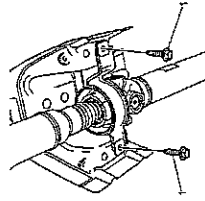
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8g. Install the NEW propeller shaft bolts (1) to the rear differential drive flange to tighten to 160 N·m (118 lb·ft). Bolt part number: 11611336

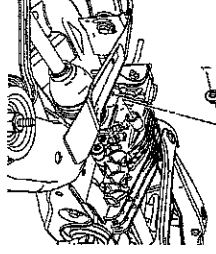


8h. Install the center support bearing bolts (1) and tighten to 22 N·m (16 lb·ft). Bolt part number: 11515768

8i. Install the exhaust heat shield.

9. Install the vent tube from the rear axle housing.

10. Fill the rear differential with fluid.



10a. Install the drain plug (1) and tighten to 33 N·m (24 lb·ft).

Note: Prior to adding the limited-slip axle additive, the bottle MUST be shaken vigorously for at least one minute to mix the additive thoroughly, then immediately poured into the differential.

10b. If the vehicle is equipped with a limited slip differential, install the limited slip additive.

10c. Fill the rear differential with the proper fluid. Refer to Lubrication Specifications.

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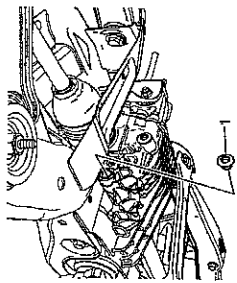
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- 10d. Install the rear differential fill plug (1) and tighten to 35 N•m (24 lb ft).
- 11. Remove the support and lower the vehicle.

Rear Drive Axle Lubrication Specifications

Application	Quantity	
	Metric	English
Note: The following is for vehicles equipped with the 218 mm Axle Limited Slip Differential option. The Limited Slip Additive container capacity is greater than the amount needed, only add the amount specified.	0.098 ml	3.3 oz.
218 mm Limited Slip Differential Lubricant Additive		
195mm and 218mm Rear Axle Lubricant	0.9 L	1.0 Qt
250mm Rear Axle Lubricant	2.3 L	2.43 Qt.

Rear Drive Axle Fastener Tightening Specifications

Application	Specification	
	Metric	English
Differential Case Bolts - (250mm Axle)	74 N•m	56 lb ft
Differential Housing Cover Bolts	55 N•m	41 lb ft
Differential Front Support Mounting Nuts	80 N•m	58 lb ft
Differential Oil Adaptor Fittings	22 N•m	16 lb ft
Differential Ring Gear Bolts - (195/218 mm Axle)	120 N•m	88 lb ft
Differential Ring Gear Bolts - (250 mm Axle)	295 N•m	217 lb ft
Differential Rear Support Mounting Nuts	80 N•m	59 lb ft
Differential Side Bearing Cap Bolts - (195 mm Axle)	83 N•m	48 lb ft
Differential Side Bearing Cap Bolts - (218 mm Axle)	105 N•m	77 lb ft
Differential Side Bearing Cap Bolts - (250 mm Axle)	166 N•m	122 lb ft
Drain Plug	33 N•m	24 lb ft
Fill Plug		

Rear Drive Axle Adhesives, Fluids, Lubricants, and Sealers

Application	Type of Material	GM Part Number	
		US	Canada
Rear Differential (218 mm L/S Axle)	Limited Slip Additive	889000330	892884
Rear Differential Lubricant (195/218 mm Axle)	75W90 Axle Lubricant (Synthetic)	88900401	89021878
Rear Differential Lubricant (250 mm axle)	Dexron LS Gear 75W90	88862824	88862825
Rear Differential Pinion Flange Splines	Sealant	12346004	10953480

Wheel Drive Shafts Fastener Tightening Specifications

Application	Specification	
	Metric	English
Rear Wheel Drive Shaft Nut (New)	270 N•m	198 lb ft

Propeller Shaft Fastener Tightening Specifications

Application	Specification	
	Metric	English
Propeller Shaft Center Bearing Bolts	22 N•m 22 N•m	16 lb ft
Propeller Shaft Nuts to Couplings (195/218 mm Axles)	91 N•m 91 N•m	67 lb ft
Propeller Shaft Bolts to Differential Drive Flange (196/218 mm Axles)	115 N•m 115 N•m	6 lb ft
Propeller Shaft Bolts to Differential Drive Flange (250 mm Axle)	160 N•m 160 N•m	118 lb ft
Propeller Shaft Nuts to Transmission Output Flange (195/218 mm Axles)	87 N•m 97 N•m	72 lb ft
Propeller Shaft Nuts to Transmission Output Flange (250 mm Axle)	136 N•m 136 N•m	100 lb ft