PRODEMAND

YMMS: 2016 Cadillac ATS V Apr 30, 2020

Engine: 3.6L Eng

License:

VIN:

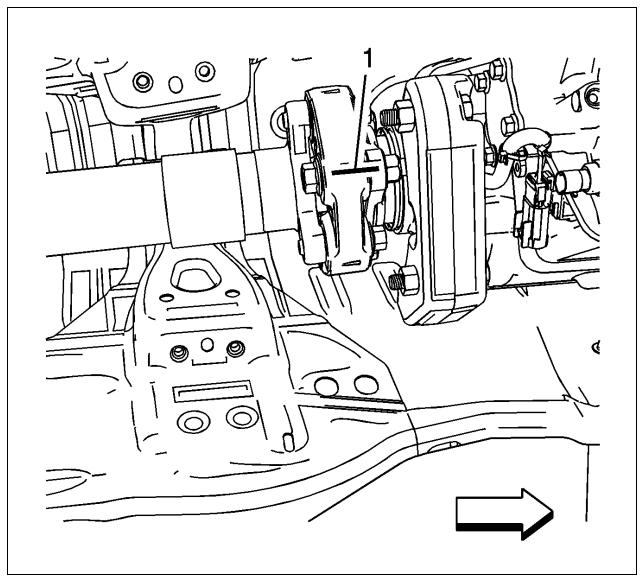
Odometer:

Two-Piece Propeller Shaft Replacement (LF4)

Removal Procedure

- 1. Raise and support the vehicle. Lifting and Jacking the Vehicle (Base)Lifting and Jacking the Vehicle (V-Series)
- 2. Remove the floor panel number 4 cross bar. Floor Panel Number 4 Cross Bar Replacement .
- 3. Remove the exhaust muffler. Exhaust Muffler Replacement (LF4)
- 4. Remove the intermediate body exhaust heat shield. Intermediate Body Exhaust Heat Shield Replacement (Non V-Series)Intermediate Body Exhaust Heat Shield Replacement (V-Series)
- 5. Remove the floor panel number 2 cross bar reinforcement. Floor Panel Number 2 Cross Bar Reinforcement Replacement
- 6. Mark (1) the relationship of the propeller shaft flange and the output flange of the transmission.

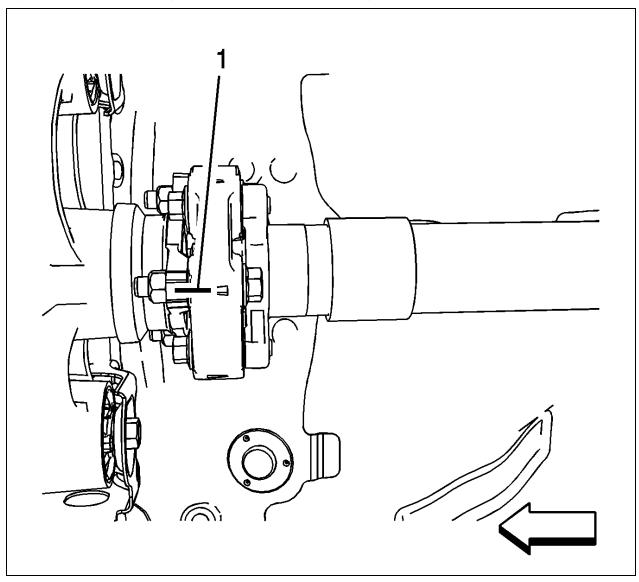
Fig 1: Propeller Shaft Flange/Transmission Output Flange Relationship Mark



NOTE: Before removing the propeller shaft from the vehicle, paint or scribe references marks on the transfer case or transmission flange to the propeller shaft and the rear differential drive flange to ensure minimal driveline system imbalance.

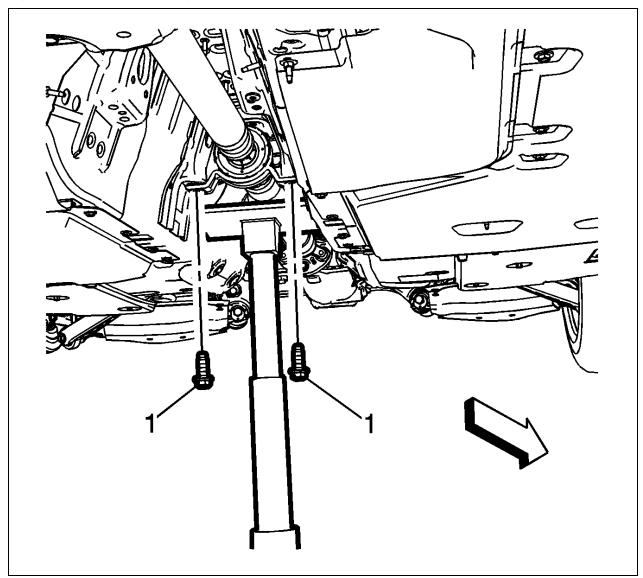
7. Mark (1) the relationship of the propeller shaft flange and the rear wheel drive shaft flange.

Fig 2: Propeller Shaft Flange/Rear Wheel Drive Shaft Flange Relationship Mark



8. Support the propeller shaft with a suitable hydraulic jack stand.

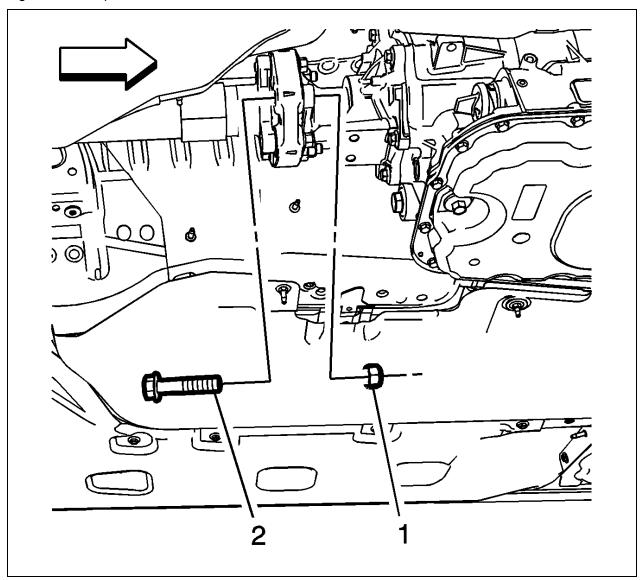
Fig 3: Propeller Shaft Bearing Support Bolts



NOTE: Ensure that the propeller shaft is secured to the hydraulic jack stand.

- 9. Remove the 2 propeller shaft bearing support bolts (1).
- 10. Remove the 3 front propeller shaft bolts (2) and the nuts (1).

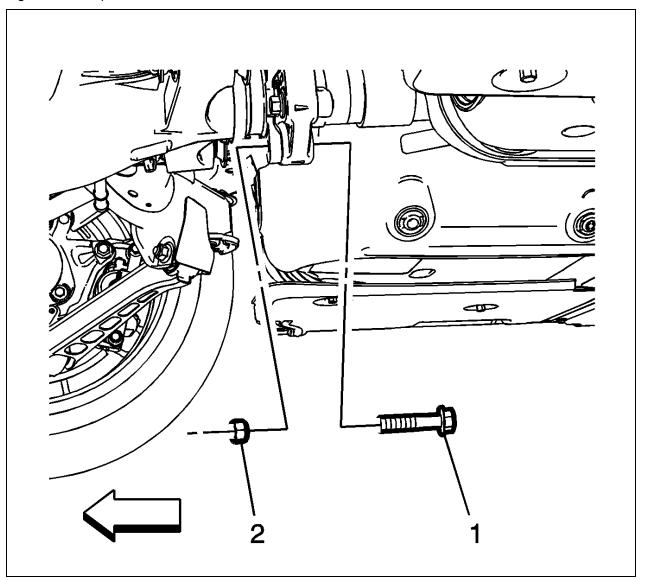
Fig 4: Front Propeller Shaft Bolt & Nuts



NOTE: If the bolts or nuts are found to be damaged or are excessively worn, DO NOT reuse. Replace with new.

11. Remove the 3 rear propeller shaft bolts (1) and the nuts (2).

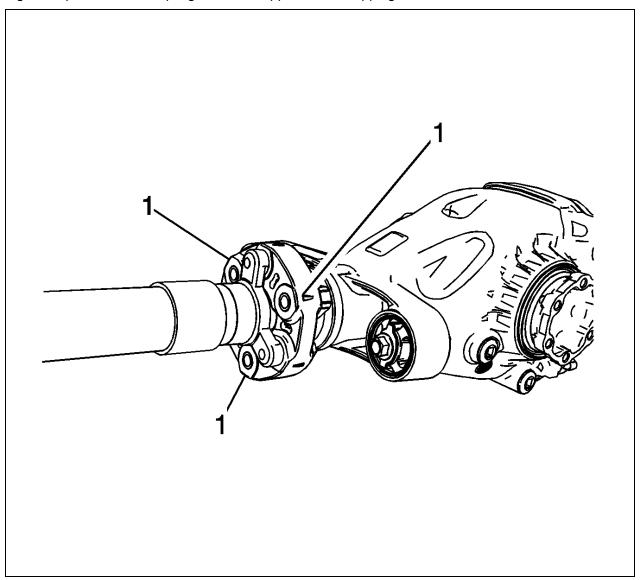
Fig 5: Rear Propeller Shaft Bolt & Nuts



NOTE: If the bolts or nuts are found to be damaged or are excessively worn, DO NOT reuse. Replace with new.

12. If the propeller shaft does not easily separate from the differential, transmission or transfer case, use a rubber mallet to gently tap the locations (1) on the rubber coupling shown above to separate.

Fig 6: Propeller Shaft Coupling Lubricant Application & Tapping Points

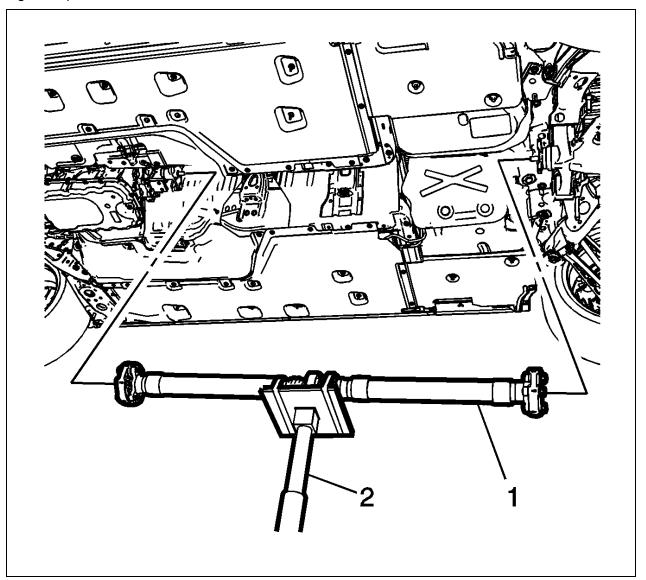


CAUTION: Care should be taken not to use sharp or pry tools when separating the propeller shaft coupler from the drive flange. Damage to the coupler could result and replacement of the entire propeller shaft would be required.

NOTE: It may be necessary to apply a small amount of penetrating lubricant or WD-40® to the area shown (1) to aid in separation of the propeller shaft coupling.

13. Remove the propeller shaft (1) from the vehicle.

Fig 7: Propeller Shaft



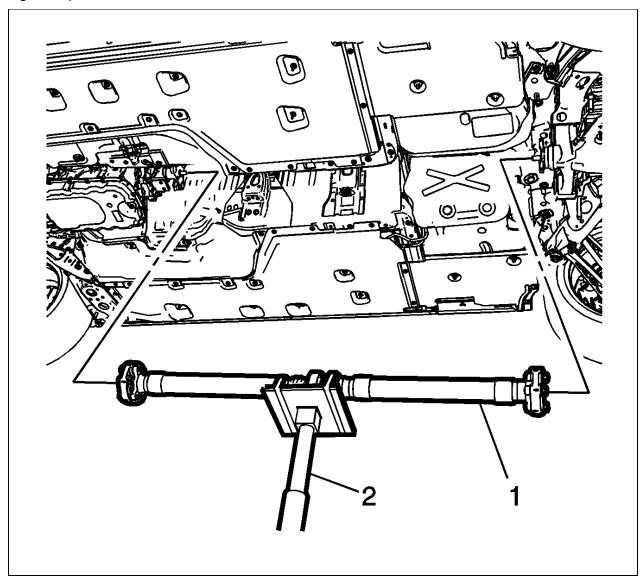
Installation Procedure

1. Thoroughly clean apply threadlocker to the threads of the propeller shaft bolts. Adhesives, Fluids, Lubricants, and Sealers

NOTE: If reusing the propeller shaft bolts, to ensure proper adhesion and fastener retention, the threads must be free of debris prior to the application of threadlocker. Use an appropriate cleaner to thoroughly clean the threads and allow to dry. Apply threadlocker to the propeller shaft to flange bolts. Ensure that there are no gaps in the threadlocker along the length of the filled area of the bolts. Allow the threadleocker to cure approximately 10 minutes before installation.

2. Position the propeller shaft (1) in the vehicle.

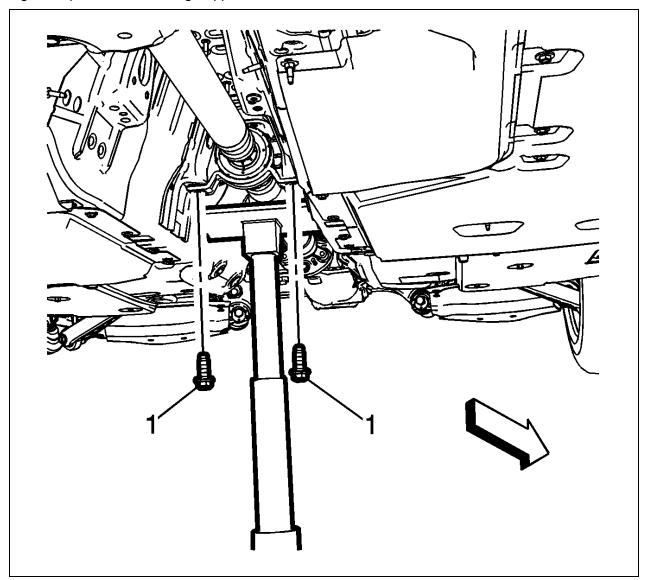
Fig 8: Propeller Shaft



Courtesy of GENERAL MOTORS COMPANY

3. Install the 2 propeller shaft bearing bolts (1) and tighten to 50 N.m (37 lb ft).

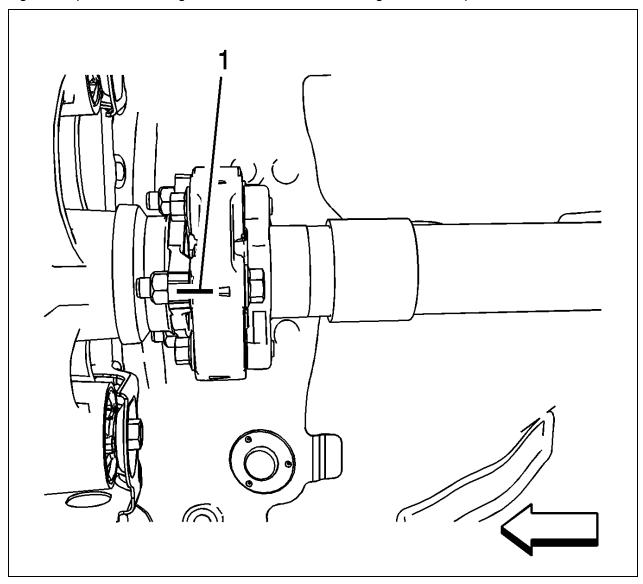
Fig 9: Propeller Shaft Bearing Support Bolts



CAUTION: Refer to Fastener Caution .

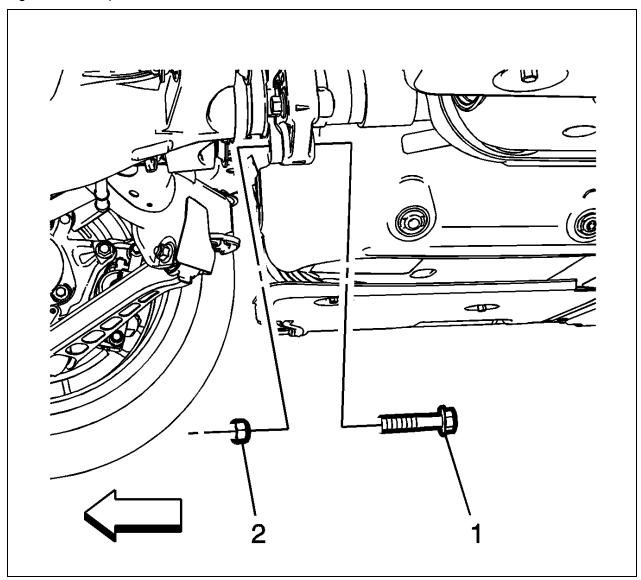
4. Align the reference marks (1) between the propeller shaft flange and the rear wheel drive shaft flange.

Fig 10: Propeller Shaft Flange/Rear Wheel Drive Shaft Flange Relationship Mark



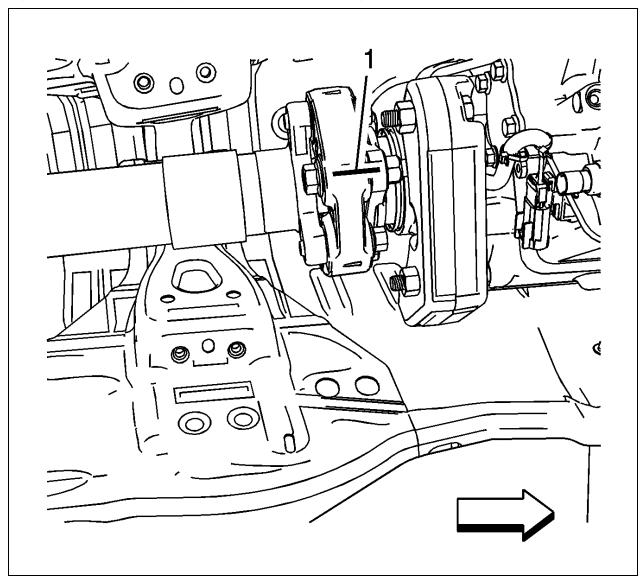
5. Install the 3 rear propeller shaft nuts (2) and the bolts (1).

Fig 11: Rear Propeller Shaft Bolt & Nuts



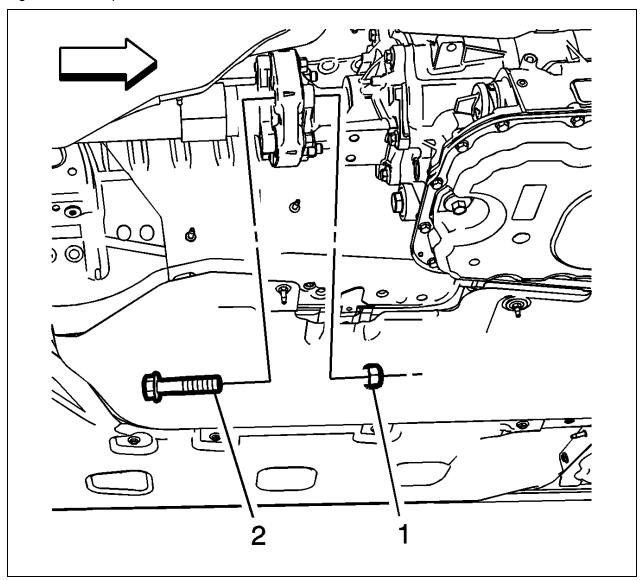
- 6. Tighten the bolts (1) to 90 N.m (66 lb ft).
- 7. Align the reference marks (1) between the propeller shaft flange and the output flange of the transmission.

Fig 12: Propeller Shaft Flange/Transmission Output Flange Relationship Mark



8. Install the 3 front propeller shaft nuts (2) and the bolts (1).

Fig 13: Front Propeller Shaft Bolt & Nuts



- 9. Tighten the bolts (1) to 90 N.m (66 lb ft).
- 10. Install the floor panel number 2 cross brace.
- 11. Install the intermediate body exhaust heat shield. Intermediate Body Exhaust Heat Shield Replacement (Non V-Series)Intermediate Body Exhaust Heat Shield Replacement (V-Series)
- 12. Install the exhaust muffler. Exhaust Muffler Replacement (LF4)
- 13. Install the floor panel number 4 cross bar. Floor Panel Number 4 Cross Bar Replacement
- 14. Remove the support and lower the vehicle.