

# PROPELLER SHAFT

## 3310-01

### GENERAL

## 1. SPECIFICATION

Description	Specification		
Structure	Yoke and spider type universal joint		
Joint type	Spider (Needle roller bearing)		
Number of spiders	Front	Full time T/C	1
		Part time T/C	2
	Rear	3	
Outer diameter of spider (mm)	φ 17.91		
Tube run-out (after installation)	below 0.4 mm		
Front shaft dimension Length x Inner diameter x Outer diameter (mm)	Diesel + M/T(A/T) + 4408 TC (Part time)	607.1 x φ 59.5 x φ 63.5 (compressed)	
	Gasoline + M/T(A/T) + 4421 TC (TOD)	577.9 x φ 44.7 x φ 50.8 (center position)	
Front shaft dimension Length x Inner diameter x Outer diameter (mm)	Diesel + M/T(A/T) + 4408 TC	(585.2 + 567.5) x φ 59.5 x φ 63.5 (compressed)	
	Gasoline + M/T(A/T) + 4421 TC	(566.1 + 567.5) x φ 59.5 x φ 63.5 (compressed)	
Unbalance	below 30 g·cm @ 4500 rpm (Front shaft + Part time TC, Rear shaft)		
	below 14.5 g·cm @ 5300 rpm (Front shaft + Full time TC)		
Front shaft dimension Length x Inner diameter x Outer diameter (mm)	DI engine + M/T(A/T) + Part time TC	575.7 x φ 59.5 x φ 63.5 (compressed)	
	DI engine + M/T(A/T) + Full time TC	560.8 x φ 44.7 x φ 50.8 (center position)	
Front shaft dimension Length x Inner diameter x Outer diameter (mm)	DI engine + M/T(A/T) + Part time TC	(565.9 + 547.6) x φ 59.6 x φ 63.5	
	DI engine + M/T(A/T) + Full time TC	(compressed)	

Modification basis	
Application basis	
Affected VIN	

PROPELLER SHAFT

REXTON 2006.09

DC 5-  
SPEEDTGS  
LEVERMANUAL  
TRANSMI

CLUTCH

PART  
TIMETORQUE  
ONALL  
WHEEL

IWE

AXLE

IOP/IRDA  
AXLE

PROPELLER

STEERING

SUSPENSION

IRS  
SUSPENSION

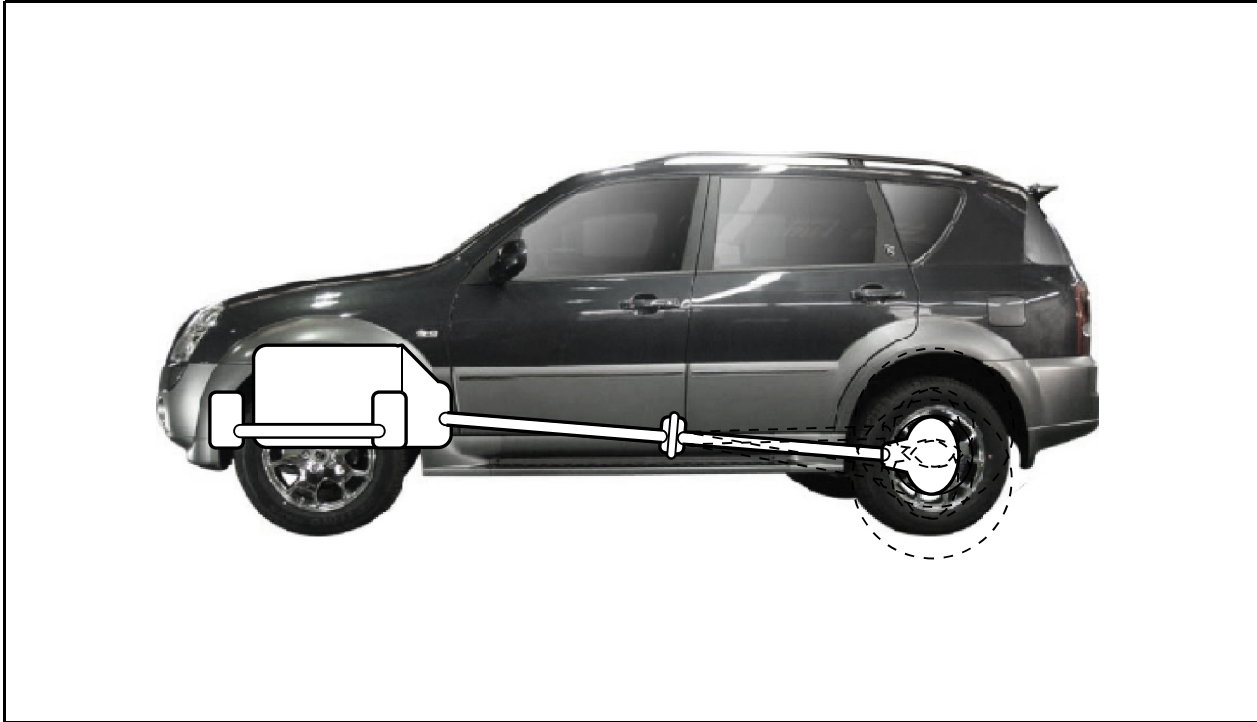
ELECTRONIC

BRAKE  
SYSTEMANTI-  
BRAKE

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## OVERVIEW AND OPERATION PROCESS

### 1. OVERVIEW



The propeller shaft transfers the power through the transmission and transfer case to the front/rear axle differential carrier (final reduction gear).

It is manufactured by a thin rounded steel pipe to have the strong resisting force against the torsion and bending.

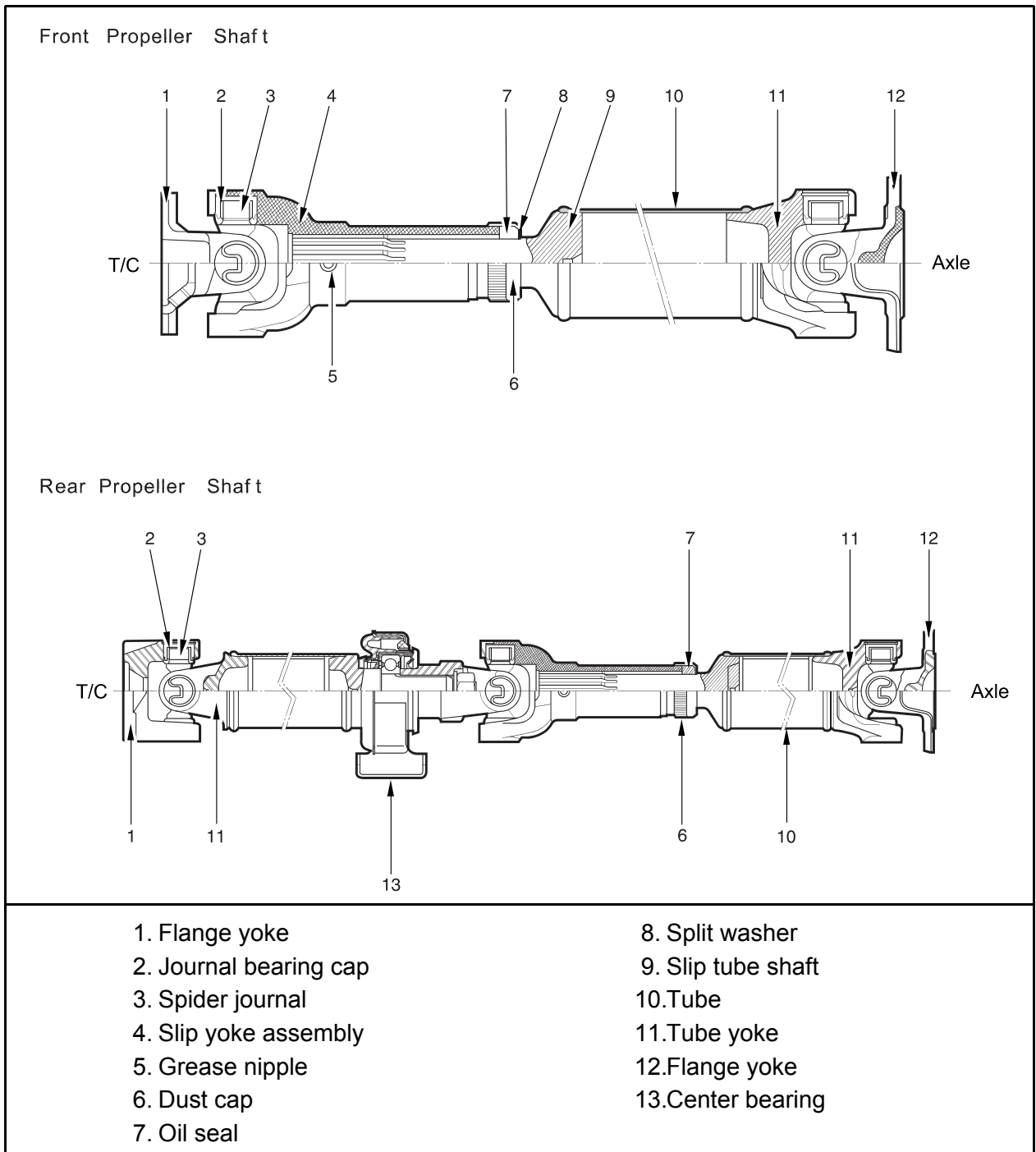
Both ends of propeller shaft are connected to the spider and the center of propeller shaft is connected to the spline to accommodate the changes of the height and length.

The rubber bushing that covers the intermediate bearing keeps the balance of rear propeller shaft and absorbs its vibration.

Modification basis	
Application basis	
Affected VIN	

## 2. COMPONENT LOCATOR

### ► Cross Sectional View



Modification basis	
Application basis	
Affected VIN	

PROPELLER SHAFT

REXTON 2006.09

DC 5-  
SPEED

TGS  
LEVER

MANUAL  
TRANSMISSION

CLUTCH

PART  
TIME

TORQUE  
ON

ALL  
WHEEL

IWE

AXLE

IOPIRDA  
AXLE

PROPELLER

STEERING

SUSPENSION

IRS  
SUSPENSION

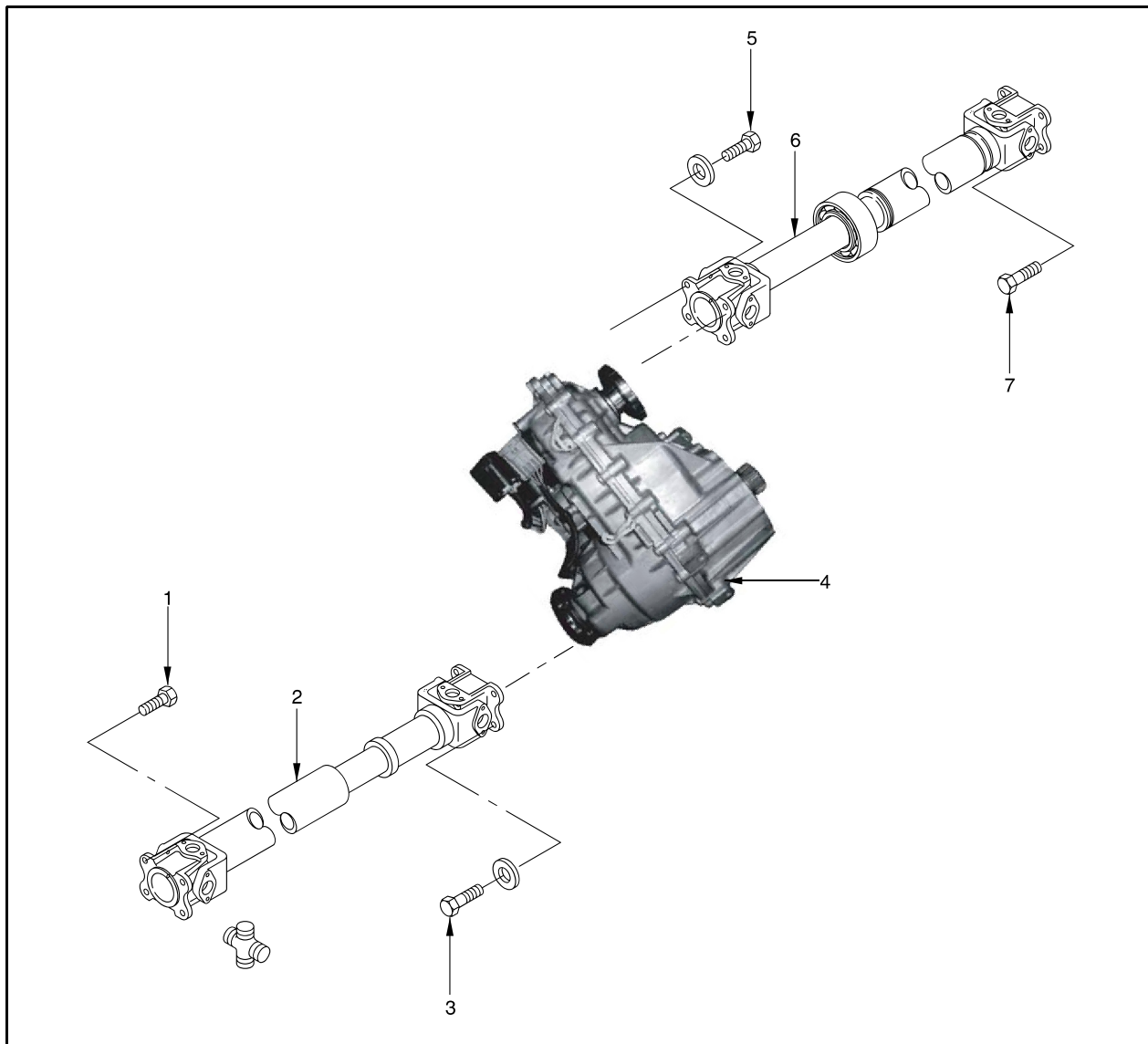
ELECTRONIC

BRAKE  
SYSTEM

ANTI-  
BRAKE

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## ► PROPELLER SHAFT ASSEMBLE



- 1. Bolt
- 2. Front propeller shaft
- 3. Bolt
- 4. Transfer case

- 5. Bolt
- 6. Rear propeller shaft
- 7. Bolt

Modification basis	
Application basis	
Affected VIN	