

STEERING SYSTEM

4620-01

GENERAL

1. SPECIFICATIONS

Description		Specification
Steering wheel	Type	4-spoke type
	Outer diameter (mm)	390
Steering gear box	Type	Rack and pinion
	Gear ratio	∞
	Steering angle	Inner
Outer		32° 40'
Oil pump	Type	Vane type
	Maximum pressure (kgf/cm ²)	85 ~ 92
	Displacement (ℓ /min)	10.5
	Pulley size (mm)	124
Tilt column adjusting angle	Up	4°
	Down	8°
Minimum turning radius	(m)	5.7
Oil	Specification	ATF Dexron II or III
	Capacity (ℓ)	1.1

Modification basis	
Application basis	
Affected VIN	

STEERING SYSTEM

REXTON 2006.09

DC 5-
SPEEDTGS
LEVERMANUAL
TRANSMISSION

CLUTCH

PART
TIMETORQUE
ONALL
WHEEL

IWE

AXLE

IOP/IRDA
AXLE

PROPELLER

STEERING

SUSPENSION

IRS
SUSPENSION

ELECTRONIC

BRAKE
SYSTEMANTI-
BRAKE

O

2. TIGHTENING TORQUE

Description		Kgf•m	Nm
Steering column shaft	Steering column mounting bolt (upper)	2.0 ~ 2.5	20 ~ 25
	Steering column mounting bolt (lower)	1.8 ~ 2.5	18 ~ 25
	Steering wheel and steering column shaft lock nut	4.0 ~ 6.0	40 ~ 60
	Steering column and airbag module connection bolt	0.7 ~ 1.1	7.0 ~ 11
	Steering column and lower shaft connection bolt	2.5 ~ 3.0	25 ~ 30
Power steering gear box	Steering gear box and gear box cross member mounting bolt	10.0 ~ 13.0	100 ~ 130
	Steering gear box and lower shaft connection bolt	2.5 ~ 3.0	25 ~ 30
	Tie rod end and steering lock connection nut	3.5 ~ 4.5	35 ~ 45
	Tie rod end lock nut	6.5 ~ 8.0	65 ~ 80
	Steering gear box and pressure hose connection nut	1.2 ~ 1.8	12 ~ 18
	Steering gear box and return line connection nut	1.2 ~ 1.8	12 ~ 18
Power steering pump	Power pump bracket and timing gear case cover mounting bolt	2.0 ~ 2.3	20 ~ 23
	Power pump and pressure hose connection nut	4.0 ~ 5.0	40 ~ 50
Power steering line	Return line and cilp connection bolt	0.9 ~ 1.4	9.0 ~ 14

OVERVIEW AND OPERATION PROCESS

1. OVERVIEW

When colliding the steering wheel and column release the impact by the steering wheel and also are designed in order that the steering column shaft may be folded or absorb the impact. The steering column has the ignition switch and lock cylinder. If removing the ignition key with the ignition switch in "LOCK" position, the lock cylinder locks the steering wheel.

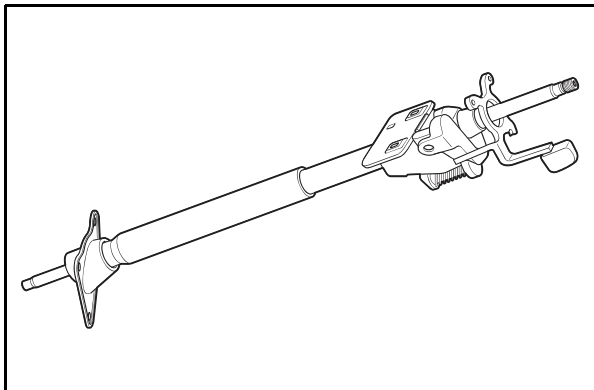
1) Steering Wheel



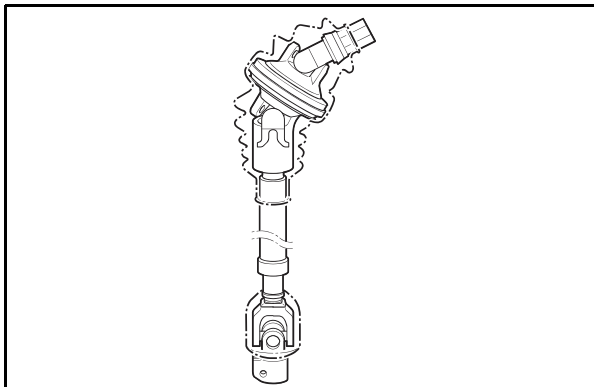
Type	4-spoke type
Outer Diameter	390 mm
Material	Forming PU/leather

The vibration damper absorbs the vibration from vehicle to minimize it.

2) Column and Shaft Assembly



3) Lower Shaft



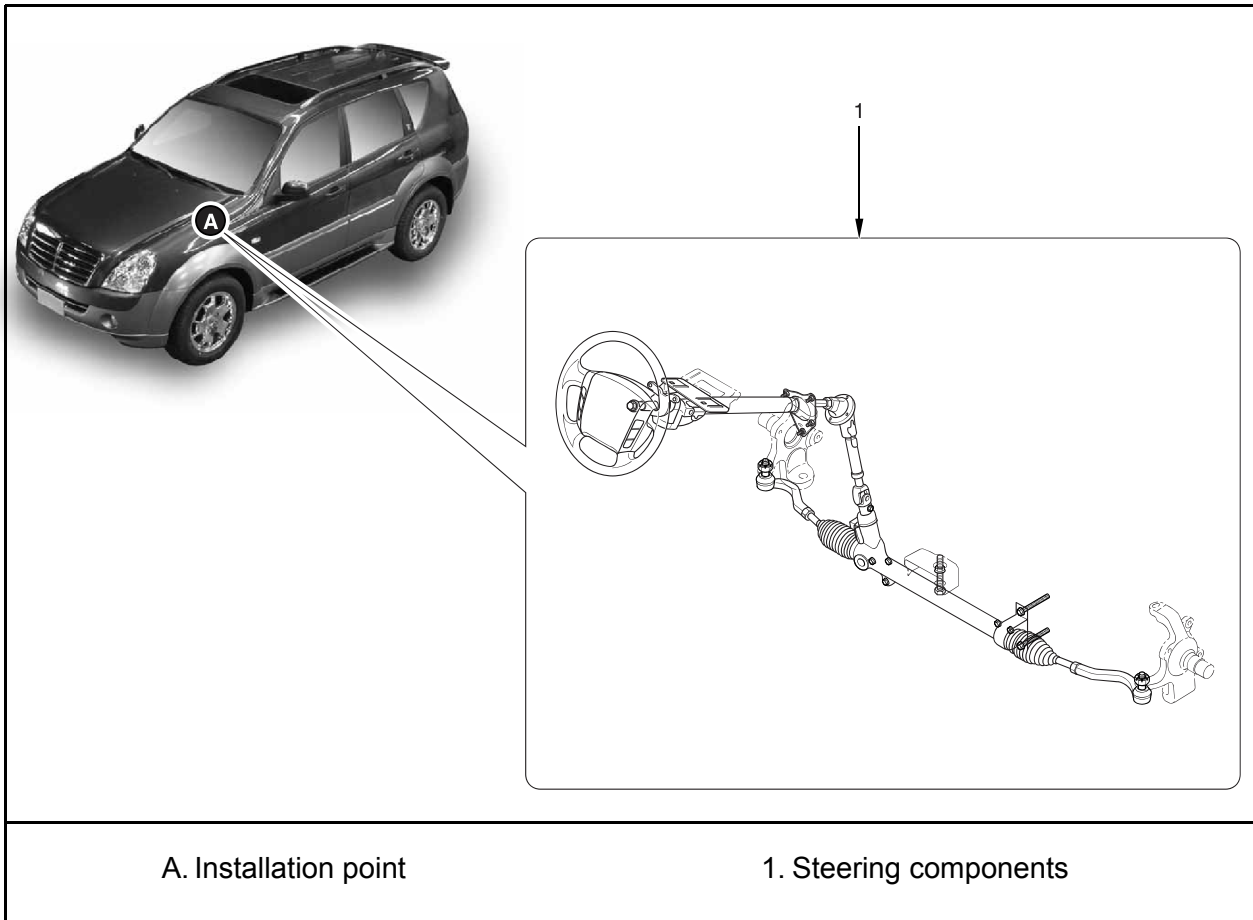
Type	Double cardan constant velocity joint
Angle	62 ~ 68°
Composition	CV joint (top) Hook joint (bottom) Elastic sleeve

This minimizes the torque changes due to angular speed changes.

Modification basis	
Application basis	
Affected VIN	

2. COMPONENT LOCATOR

1) System Layout

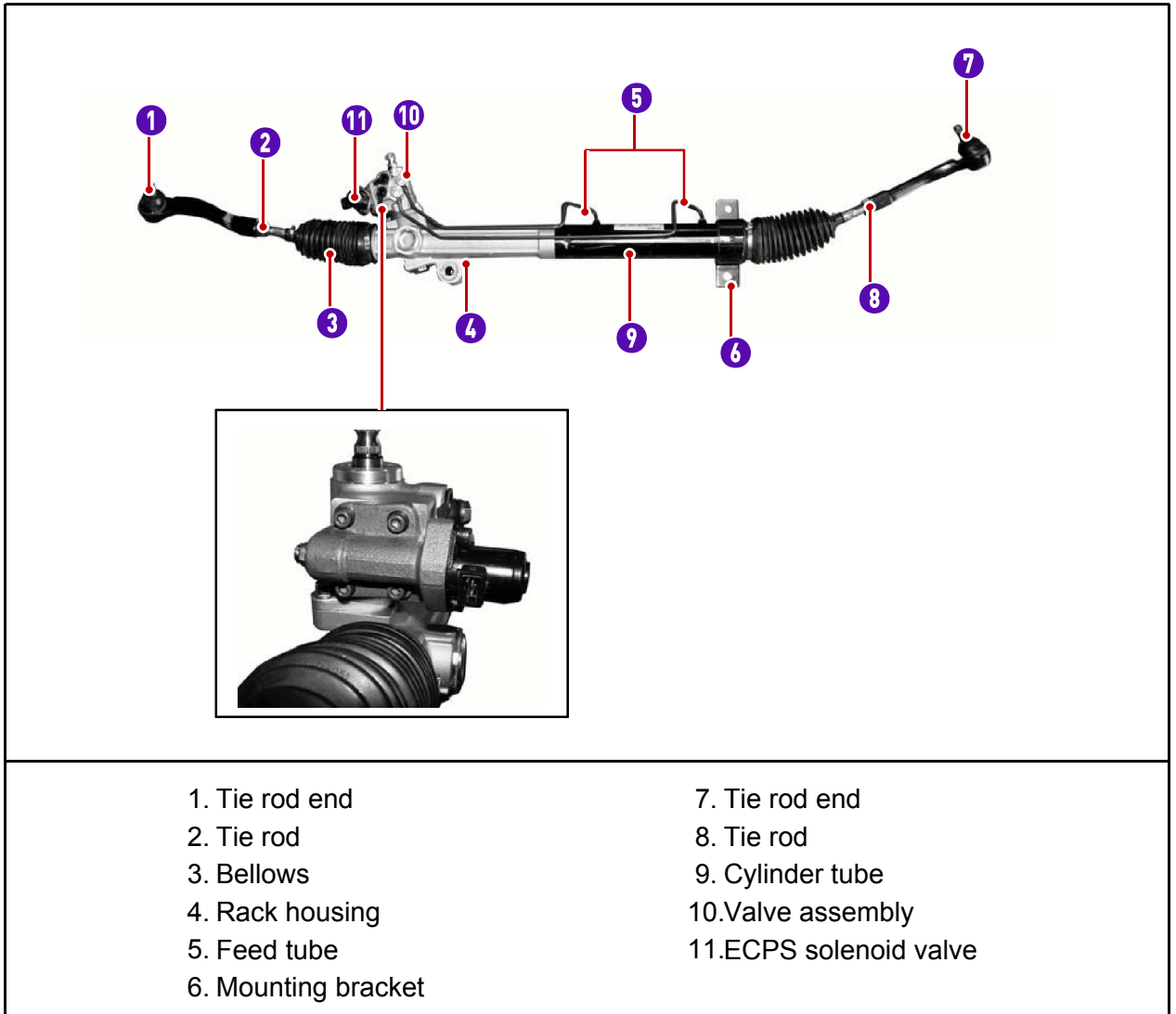


A. Installation point

1. Steering components

Modification basis	
Application basis	
Affected VIN	

2) Sctional View of Steering Gear Box



- | | |
|---------------------|-------------------------|
| 1. Tie rod end | 7. Tie rod end |
| 2. Tie rod | 8. Tie rod |
| 3. Bellows | 9. Cylinder tube |
| 4. Rack housing | 10. Valve assembly |
| 5. Feed tube | 11. ECPS solenoid valve |
| 6. Mounting bracket | |

Modification basis	
Application basis	
Affected VIN	

3) Steering Column Assembly

