

## CHAPTER 4: STEERING SYSTEM

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## CHAPTER 4. STEERING SYSTEM

### 4-1: SPECIFICATIONS AND STANDARDS FOR STEERING SYSTEM

	Subaru 360 Sedan	Subaru 360 Custom
Steering Type	Rack and Pinion	"
Minimum Turning Diameter	8 meter (26.2 ft)	"
Steering Angle (Inner)	36°	"
" " (Outer)	27°	"
Steering Handle Diameter	380mm (15.0in)	"
Steering Shaft Diameter	20mm (0.79in)	"
Rubber Coupling	6 x 5 ply	"
Pinion - No. of Tooth	Module 1.75 x 7	"
Tie-Rod Thread Dimensions	16Ø x 15P	"
Tie-Rod Adjustment Nut	21mm	"
Tie-Rod Adjustment Turnbuckle	17mm	"
Tie-Rod End Pole Stud Nut	14mm	"
Toe-In (Empty Load)	12-16mm (0.47-0.63 in)	"

#### General Data:

The steering gear box construction is of the rack and pinion type which is simple and at the same time providing sure action.

A back-lash adjustable type has been adopted for greater efficiency.

In addition, a turnbuckle has been incorporated in the tie-rod for making toe-in adjustments to a finer degree.

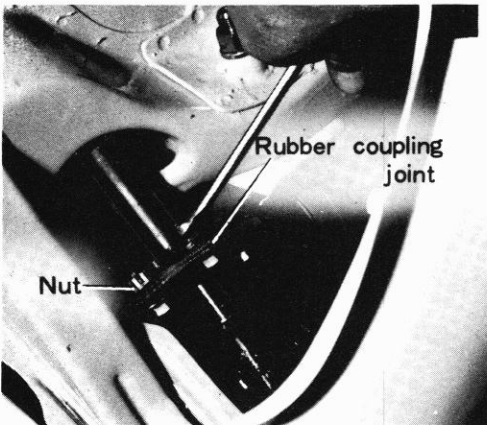
A turning diameter of 8 meters, unparalleled riding comfort, excellent maneuverability, amazing rough road stability - these are the outstanding features of the Subaru.

## 4-2: DISASSEMBLY AND REASSEMBLY OF STEERING GEAR BOX ASSEMBLY

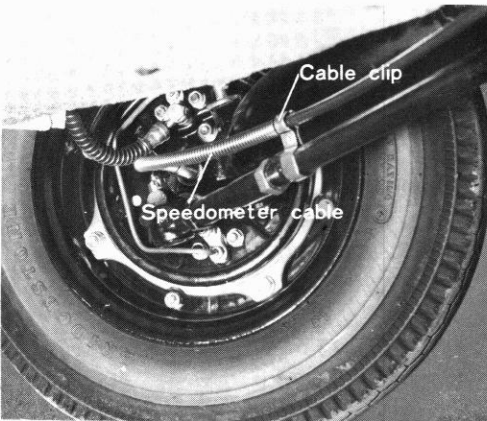
### A. REMOVAL OF STEERING GEAR BOX

(a) Place the vehicle over a work pit or on a jack and see that the front part is free.

(b) Open the front hood and remove the spare tire.

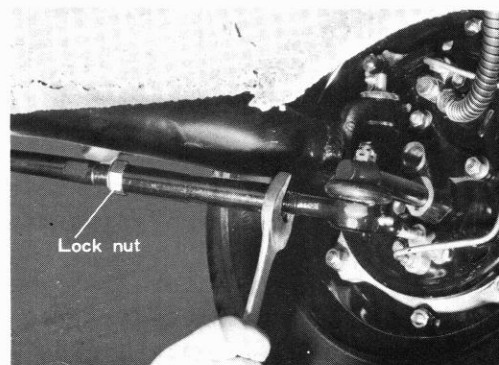


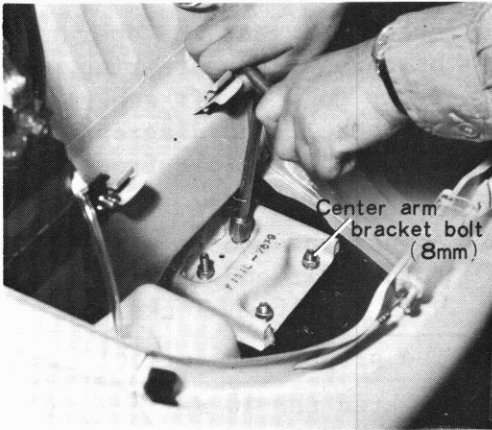
(c) Remove the (8 x 20 mm) bolts fixing the rubber coupling joint. Remove the steering shaft assembly installation bolt on the dashboard and slide the shaft assembly inward into the cabin. The joint and shaft will separate.



(d) On the left hand tie-rod, remove the speedometer cable from the tie-rod.

(e) Loosen the 16 mm nut on the turnbuckle. Turn the turnbuckle and separate it from the tie-rod.





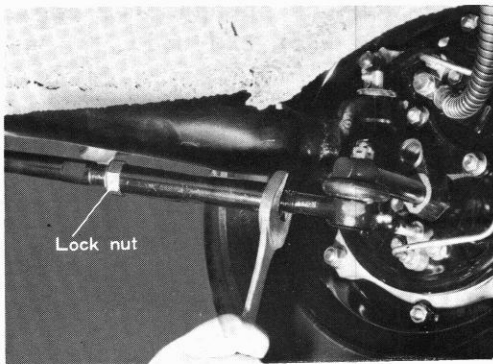
- (f) Remove the four 8 mm bolts fixing the gear box to the body.
- (g) Remove the gear box downward.



#### B. REINSTALLATION OF STEERING GEAR BOX

- (a) Install the gear box on the center arm bracket block with the four 8 mm bolts with the spring washers and the washers.

Tighten the bolts with a torque of 1.5-2.5 kg-m(10.85-18.1 lb-ft)



- (b) Turn the tie-rod turnbuckle and temporarily connect the tie-rod and end.
- (c) Fix in place provisionally with the 8 mm bolt, plain washer and spring washer. Be sure to use genuine Subaru parts. The bolt has the mark on its head. Also use a new spring washer.