SECTION 8-E MANUAL AND POWER STEERING LINKAGE

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8-26 STEERING LINKAGE SPECIFICATIONS

a. Tightening Specifications

Use a reliable torque wrench to tighten the parts listed to insure proper tightness without straining or distorting parts. These specifications are for clean and lightly lubricated threads only; dry or dirty threads produce increased friction which prevents accurate measurement of tightness.

Part	Location	Thread Size	Torque Lb. Ft.
Bolt & Nut	Tie Rod Clamp	3/8-24	15-25
Bolt & Nut	Idler Arm Support to Front Suspension Cross Member	3/8-24	30-40
Nut	Tie Rod Ball Stud to Steering Arm and Intermediate Rod	1/2-20	30-50
Nut	Pitman and Idler Arm to Intermediate Rod	1/2-20	30-50
Nut	Pitman Arm to Pitman Shaft	7/8-14	100-140

b. Steering Linkage Specifications

Type	Forged-Parallelogram
Make	
Toe-in, Caster, Camber, etc	See Group 7
Turning Circle Diameter (Curb to Curb)	

8-27 DESCRIPTION OF STEERING LINKAGE

The parallelogram type steering linkage is used to connect both front wheels to the steering gear pitman arm. The right and left tie rods are attached to a forged intermediate rod by ball studs. See Figure 8-98. The left end of the intermediate rod is supported by the pitman arm and the right end by an idler arm which pivots on a support attached to the frame. The pitman and idler arms are always paralleled with each other and move through symmetrical arcs.

The steering linkage ball studs are of the permanent lubricated design and do not require periodic lubrication. However, the inner and outer tie rod ends have removable plugs. If a squeak develops in one of these studs, the plug may be removed and a grease fitting (1/4-28) installed and stud lubricated.

The linkages used for manual steering and power steering are the same.

8-28 STEERING LINKAGE SERVICE **PROCEDURES**

When disconnecting any of the

linkage ball studs, use Remover J-3295 and firmly support the member that stub is being removed from.

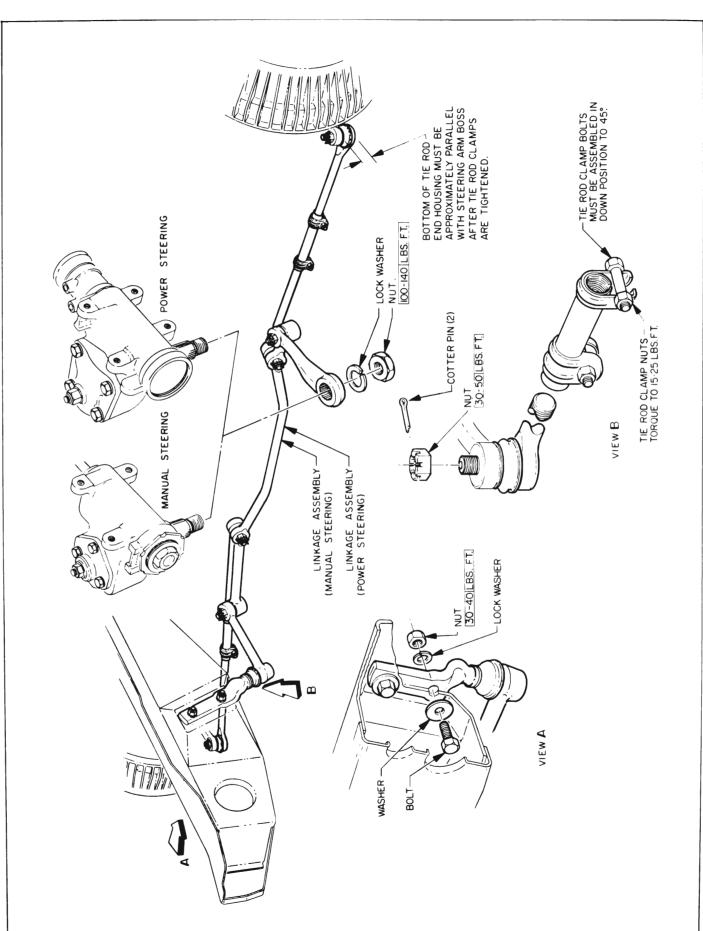
IMPORTANT: When installing a ball stud nut, torque nut to 45 lb. ft., then tighten to nearest slot for insertion of the cotter pin. Do not back nut off to insert cotter pin.

The linkage idler arm does not require any adjustment.

See Group 7 for adjustment of tie rods to obtain proper toe-in of front wheels.



Figure 8-98—Steering Linkage Installation



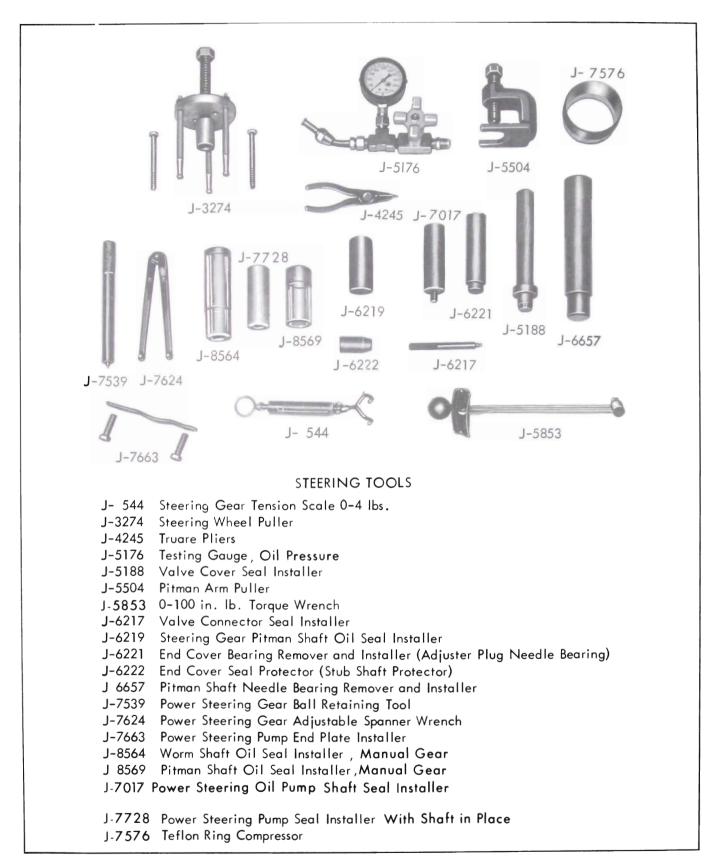


Figure 8-99-Manual and Power Steering Special Tools