

SERVICES OF SUPPLY  
OFFICE OF THE QUARTERMASTER GENERAL  
WASHINGTON

September 1, 1942

MOTOR TRANSPORT  
TECHNICAL SERVICE BULLETIN  
NO. G-2

SUBJECT: Willys Model MB and Ford Model GPW, 1/4 Ton,  
4x4, Trucks - Torque Reaction Spring.

1. To improve the steering characteristics of the subject vehicles when the brakes are applied, a torque reaction spring installation kit has been made available, and can be requisitioned as "Torque Reaction Spring Installation Field Kit, Part Number A-6157-D", direct from the Fort Wayne Quartermaster Motor Supply Depot, Fort Wayne, Detroit, Michigan. Requisitions must specify vehicle registration numbers.

2. As soon as practicable the kit will be requisitioned and installed in all subject vehicles on which trouble is experienced with pulling to the left upon application of the brakes. No other means will be attempted to correct the condition. Future vehicles will have the installation made in production. At the time the installation is made the brakes will be equalized and adjusted in accordance with the manufacturers' instructions.

3. The kit includes the following component parts, which should be added to Parts List TM 10-1206 Willys, and subsequent changes, and TM 10-1348 Ford, and subsequent changes.

<u>Gov't Group</u>	<u>Willys Part No.</u>	<u>Description</u>	<u>Number Required</u>
1601	A-6066-A	Spring Assembly	1
1000	A-575-C	Front Spring Clip (U-Bolt)	2
1000	638539-D	Nut	8
1602	A-6075-D	Spring Bolt	1
1602	A-6074-D	Spring Bolt	1
1602	A-6068-D	Shackle Plate (Inner)	1
1602	A-6069-D	Shackle Plate (Outer)	1
1602	6436-U	Nut	2
1602	*5021	Cotter Pin	2
1602	*392909	Grease Fitting	1
1506	51612-U	Bolt	1
1506	638381-D	Washer	1
1602	AE-6326-D	Assembly	1
1506	52874-U	Washer	1
1506	5939-U	Nut	1
2304	51308-U	Bolt	1
2304	5910-U	Nut	1
2304	52510-U	Lockwasher	1

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\*Same as previously used elsewhere.

The grease fitting is to be removed from the old spring bolt which is being replaced, and used in one of the new bolts. One only is supplied with the kit.

4. The kit is for installation in the left front only. Location on the right, or both left and right will not satisfactorily accomplish the purpose. Instructions for the installation are as follows: See Figures 1 and 2.

- a. Place jack under front bumper to left of center and raise to release weight from left spring.
- b. Remove cotter pin in lower left front shock absorber pin and remove the bushings.
- c. Remove the four front axle spring clip, (U-Bolt) nuts, and remove the spring clips and plate.
- d. Install the new spring clips, Part No. A-575-C over axle.
- e. Install the torque reaction spring, Part No. A-6066-A, as shown in Figure 1, install nuts, Part No. 638539-D and tighten snugly. Do not tighten fully.
- f. Replace lower end of shock absorber (using new bushings if necessary) and replace flat washer and cotter pin.
- g. Remove front spring rear bolt, lower or raise jack until spring eye lines up with the hole in the spring frame bracket.
- h. Install upper torque reaction spring bolt No. A-6075-D (1-1/16 Hex head) into outer shackle plate, (the one having largest hole) with offset toward bolt head. Insert bolt through frame bracket and spring with the lubrication hole up and towards frame.
1. Insert lower shackle bolt No. A-6074-D (7/8 Hex head) in the lower end of the outer shackle and the torque spring eye, with the lubrication hole up, place the outer shackle plate No. A-6069-D in position, and start on the nuts. Tighten nuts evenly until the serrations contact the outer shackle plate. Tap lightly on the heads of the bolts, being careful not to damage the threads for the grease fittings, until the shackle plates rest snugly against the bracket and torque reaction spring. Bring nuts up tight, back off 1/16 turn and insert cotter pins.



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- j. Install the lubrication fittings, and lubricate thoroughly with chassis lubricant.
- k. Complete the tightening of the spring clip nuts to a tension of 60 to 65 lbs.-ft., install and tighten lock nuts to the same tension.
- l. Remove lower steering gear housing to frame side rail bolt and nut, and in its place install bolt No. 51612-U and Washer No. 638381-D.
- m. Install upper spring shackle bolt locking device assembly No. AE-6326-D in position as illustrated, (Fig. 2), being sure that the grease hole is still in the correct position. Install washer No. 52874-U, and nut No. 5939-U on the new steering gear housing to frame side rail bolt and tighten.
- n. Install bolt No. 51308-U in the lower clamping end of the upper spring shackle bolt locking device as illustrated, (Fig. 1). Install lockwasher No. 52510-U, and nut No. 5910-U and tighten securely. Remove jack.

E. B. GREGORY,  
Major General,  
The Quartermaster General.

Incl. - Fig. 1 and 2

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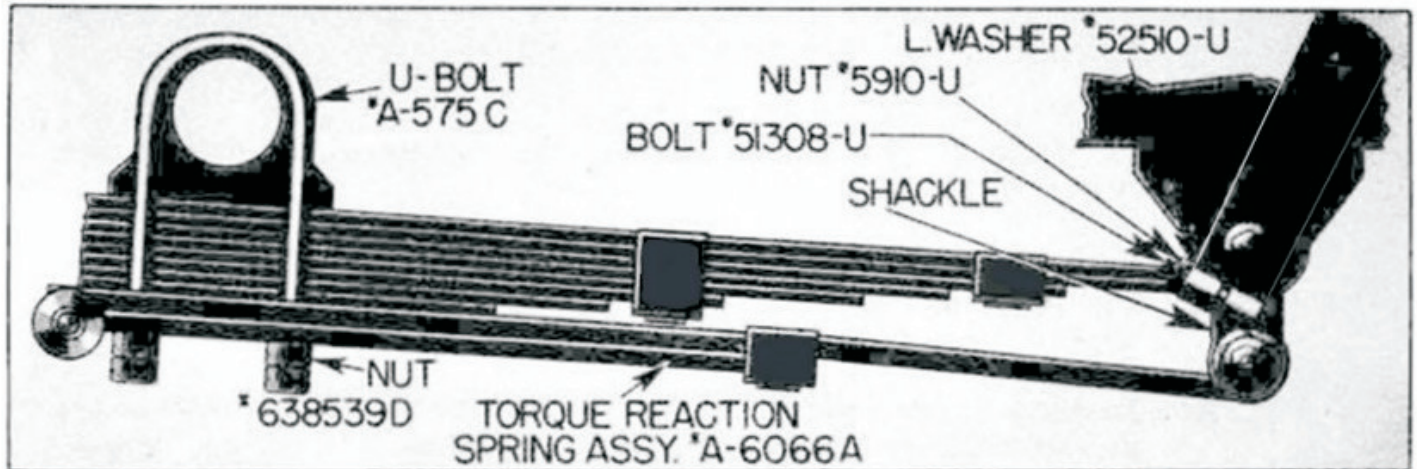


FIGURE 1.

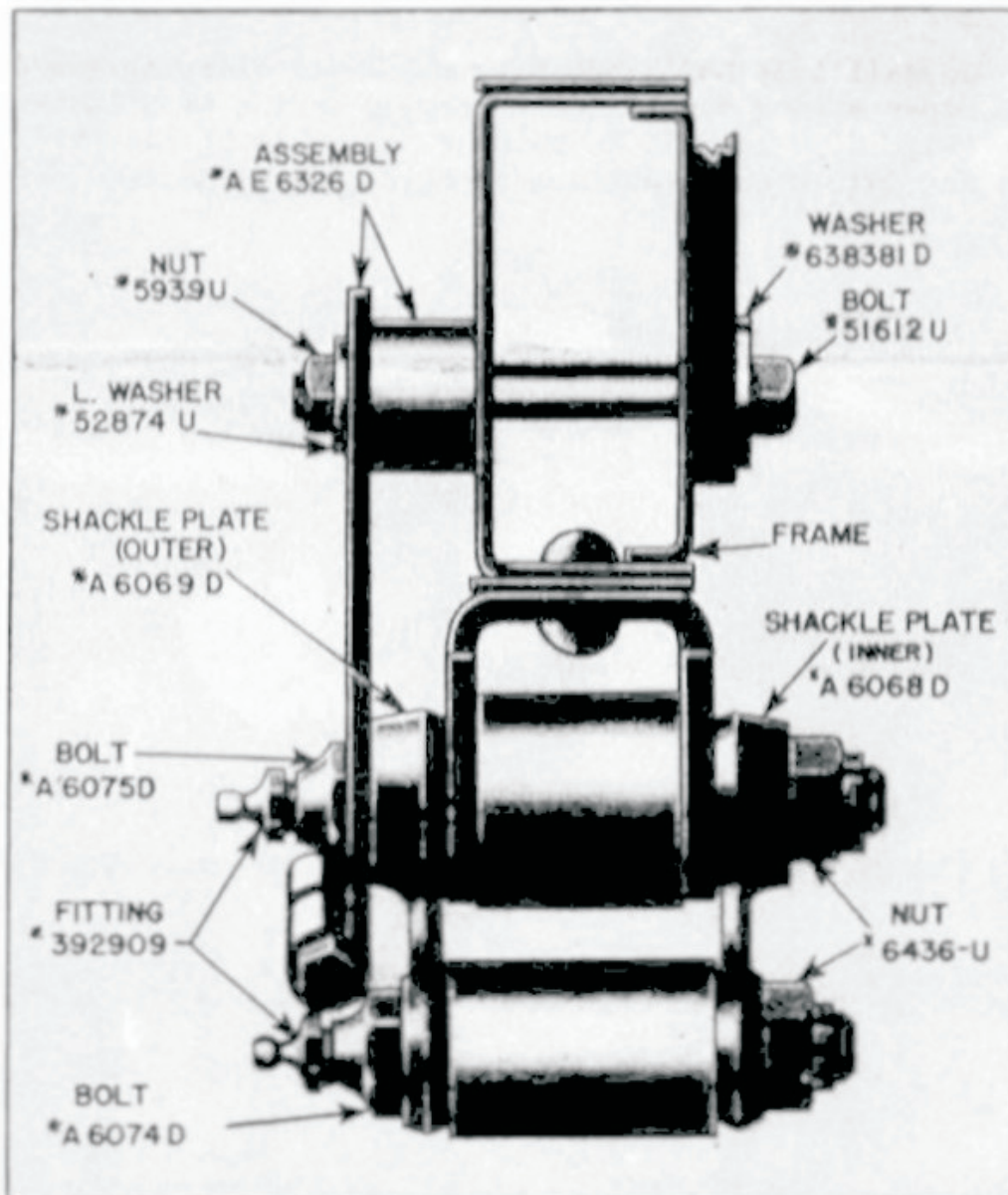


FIGURE 2.