

## Service Kit

SK421-118  
Dated - 23 November 1983

TITLE: MAIN LANDING GEAR SCISSORS WASHER REPLACEMENT

MODELS AFFECTED

SERIALS AFFECTED

|     |                                                                                                         |
|-----|---------------------------------------------------------------------------------------------------------|
| 401 | 401-0001 THRU 401-0322,<br>401A0001 THRU 401A0132,<br>401B0001 THRU 401B0121                            |
| 402 | 402-0001 THRU 402-0322,<br>402A0001 THRU 402A0129,<br>402B0001 THRU 402B1384,<br>402C0001 THRU 402C0801 |
| 414 | 414-0001 THRU 414-0965,<br>414A0001 THRU 414A1001                                                       |
| 421 | 421-0001 THRU 421-0200,<br>421A0001 THRU 421A0158,<br>421B0001 THRU 421B0970,<br>421C0001 THRU 421C0715 |

NOTE

- This Service Kit provides parts and instructions to replace washers and inspect the torque links in the area of washer contact on the main landing gear scissors on the above listed airplanes.
- ADDITIONAL ORDERING INFORMATION: Main landing gear torque link assemblies may require replacement during the installation of the Service Kit. Refer to applicable parts catalog to determine correct part number.

SERVICE INFORMATION LETTER REFERENCE: ME83-37

## PARTS LIST:

| <u>PART NUMBER</u> | <u>QUANTITY</u> | <u>NOMENCLATURE</u>      |
|--------------------|-----------------|--------------------------|
|                    | 1               | Replacement Instructions |
| AN175-20           | 2               | Bolt                     |
| MS24665-153        | 2               | Pin - Cotter             |
| 5045018-2          | 4               | Washer                   |

WEIGHT AND BALANCE: Negligible

## REPLACEMENT INSTRUCTIONS:

## NOTE

Read instructions through completely before starting replacement. Instructions are for both left and right main landing gear torque link assemblies and must be repeated for each main landing gear.

1. Record number of washers installed between torque link assemblies (scissors) before disassembly.
2. Disassemble torque link assemblies as follows:
  - a. Remove cotter pin, nut, washers, bushing and bolt. Discard cotter pin and bolt.
  - b. Visually inspect the torque link assemblies in the area of washer contact. If any damage is evident, replace the torque link assemblies.
3. (Refer to Figure 1.) Reassemble torque link assemblies as follows:
  - a. Install same number of AN960 Washers, positioned on the existing bushing, as before disassembly.
  - b. Install new AN175-20 Bolt with a 5045018-2 Washer under the bolt head.

## NOTE

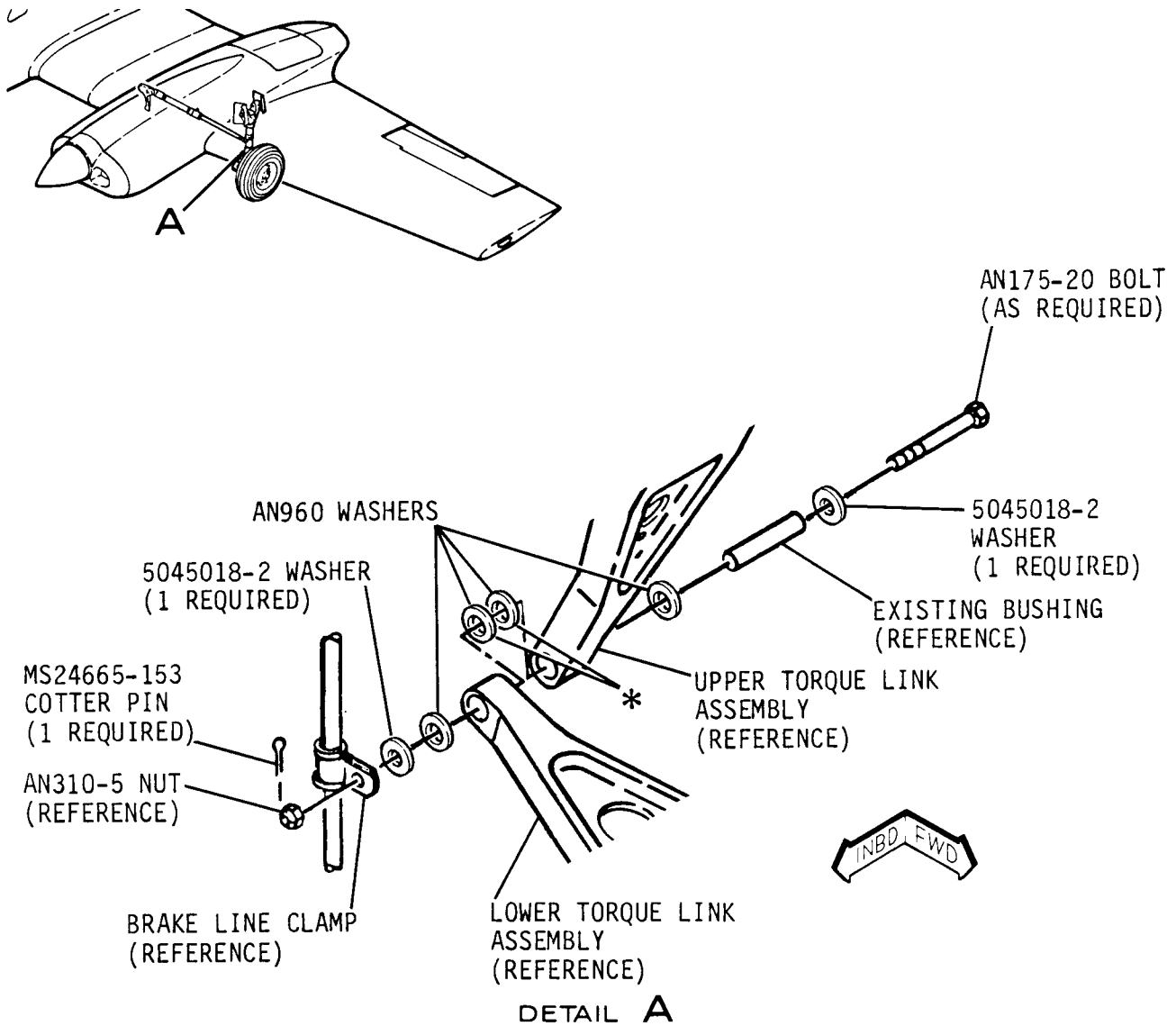
Do not reinstall the existing washers under head and nut; they are to be discarded.

- c. Install the existing nut with a 5045018-2 Washer under the nut.
- d. Tighten the nut and check for proper cotter pin hole alignment and proper side play of the torque link assemblies. Maintain a 0.004 (minimum) to 0.020 (maximum) side play of the torque link assemblies. Be sure that the spacer washers are centered on the bushing before the nut is being torqued to 100 - 140 Inch-Pounds.

## NOTE

If cotter pin alignment cannot be achieved with existing nut, remove and install a new nut for proper cotter pin/nut alignment.

- e. After proper installation is achieved, secure nut with a new MS24665-153 Cotter Pin.
4. Make an entry in Airplane Log Book stating this Service Kit has been installed.



\*NOTE 1: RECORD NUMBER OF WASHERS AT EACH LOCATION BEFORE DISASSEMBLY AND REINSTALL SAME NUMBER OF WASHERS UPON REASSEMBLY.

Figure 1. Main Landing Gear Scissors Washer Replacement