

SERVICE

SK177-20A
DECEMBER 2, 1971

Kit

Title 177RG POWER PACK CONTROL VALVE MODIFICATION



MODELS AFFECTED

177RG
F177RG

SERIALS AFFECTED

177RG0135 thru 177RG0212
F177RG0017 thru F177RG0042

PARTS LIST:

QUANTITY	PART NUMBER	NOMENCLATURE
2	AN924-6D	Nut
2	MS28778-6	"O" Ring
1	MS28778-4	"O" Ring
1	2080026-1	Fitting
1	2080028-1	Fitting
1		Installation Instructions

CHANGE IN WEIGHT AND BALANCE: NEGLIGIBLE

1. DESCRIPTION OF INSTALLATION.

a. Installation of this kit consists of:

- (1) Gaining access to control valve assembly.
- (2) Disassembly of control valve and installation of kit parts.
- (3) Reassembly of control valve connections and operational check.

2. INSTALLATION INSTRUCTIONS.

a. Gaining Access to Control Valve.

- (1) Remove aft baggage compartment panel to gain access to power pack.

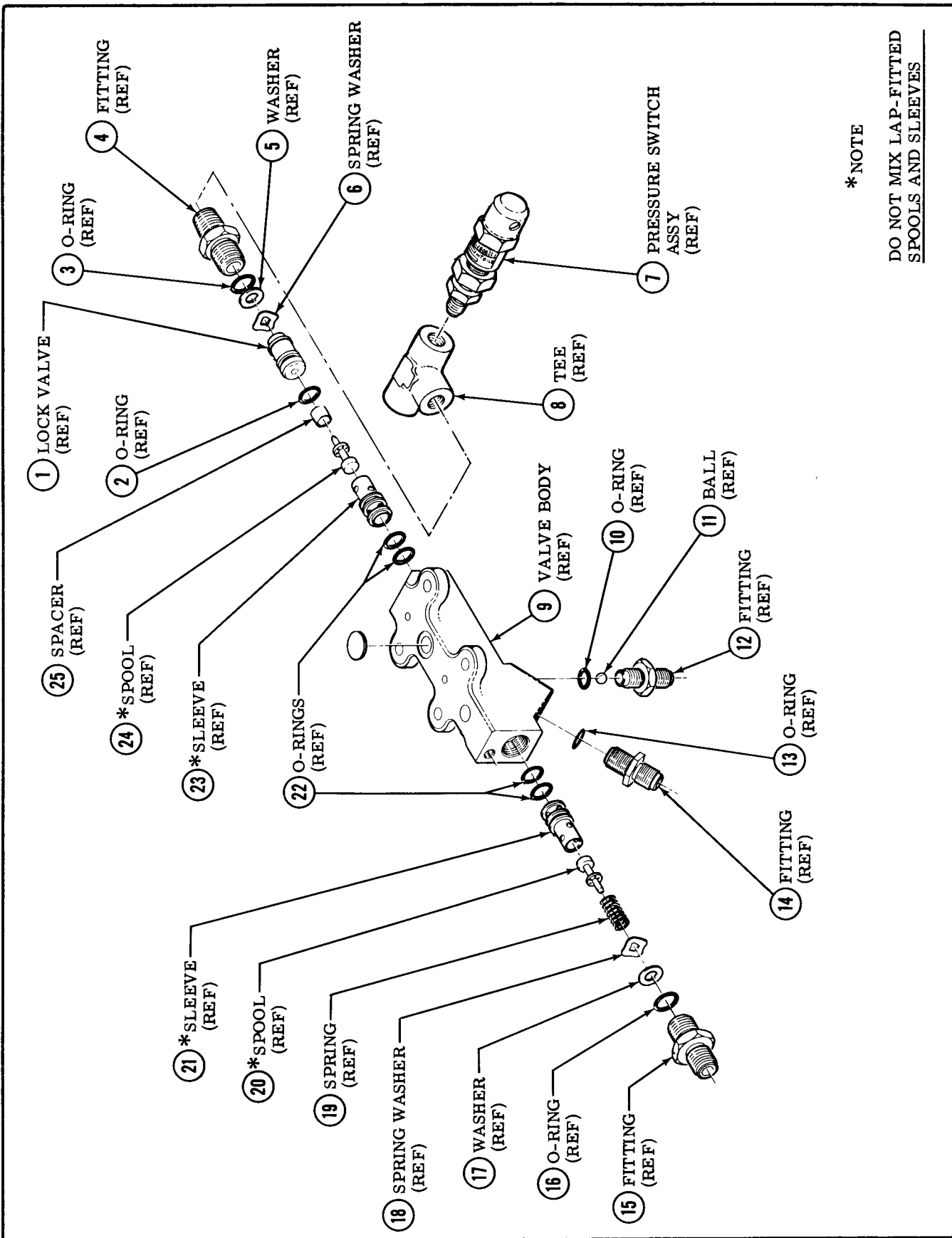
NOTE

Refer to current Model 177RG Service Manual for removal and service procedures.

- (2) Disconnect ground strap from battery terminal. Disconnect and tag pump motor at solenoids, ground wire at fuselage and pressure switch wires.
- (3) Spread drip cloth beneath power pack and disconnect four hydraulic lines.

NOTE

Cap or plug all hydraulic lines to prevent entry of foreign material.



*NOTE

DO NOT MIX LAP-FITTED
 SPOOLS AND SLEEVES

Figure 1. Control Valve Disassembly.

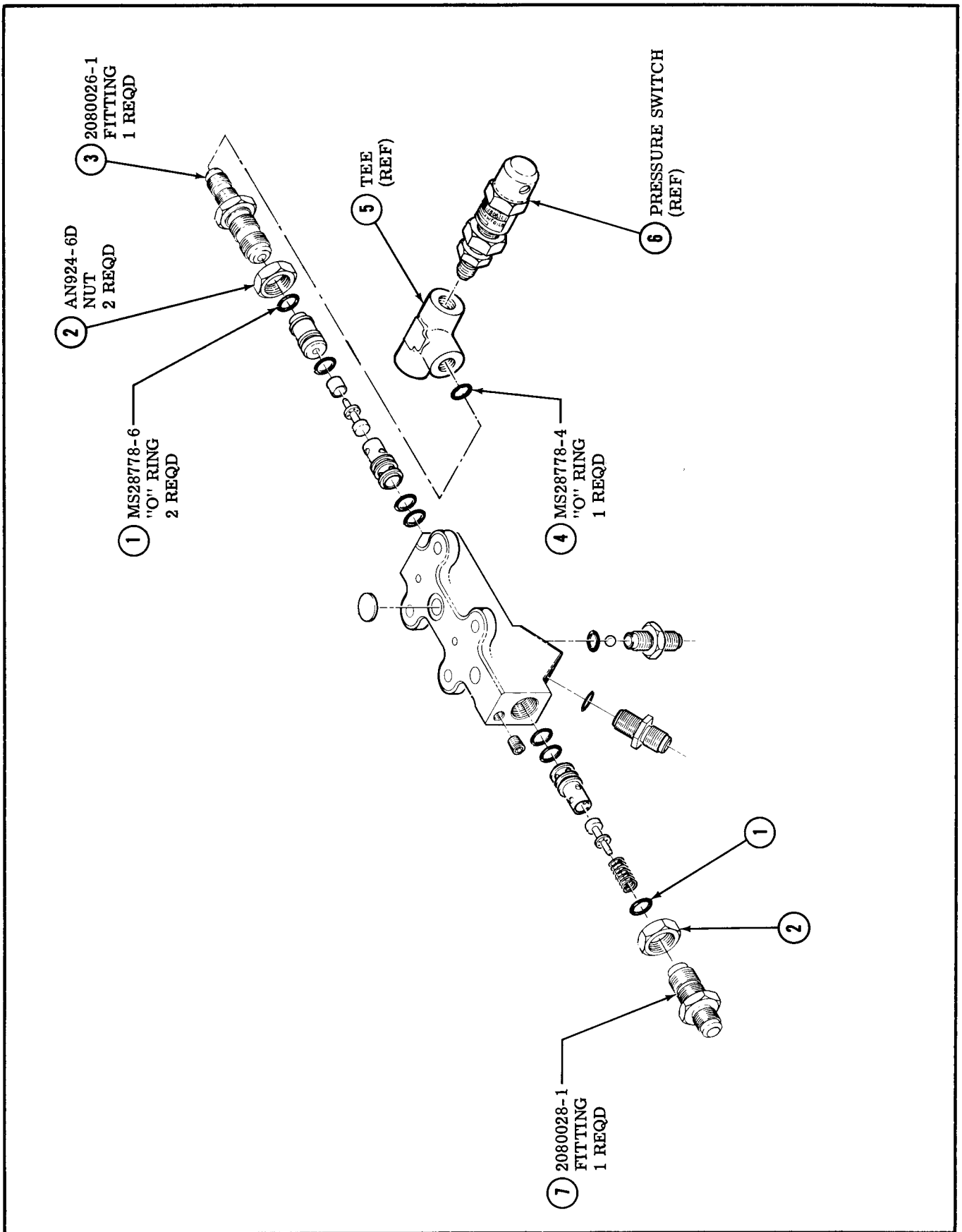


Figure 2. Control Valve Modification.

b. (Refer to figure 1.) Disassembly of Control Valve.

NOTE

On disassembly, if damaged or worn parts are found, all hydraulic system components should be disassembled, inspected and replacements made.

NOTE

Control valve need not be removed from power pack unless further inspection is deemed necessary.

- (1) Remove and discard fitting (15), "O" ring (16) and washers (17 & 18).
- (2) Remove and retain pressure switch assembly (7) and tee (8). Remove and discard fitting (4), "O" ring (3) and washers (5 & 6).

CAUTION

Inspect washers (6 & 18), and if breakage or excessive wear is evident complete disassembly of control valve, power pack and other components will be required. If further disassembly is required, care should be taken in removing spools (20 & 24) and sleeves (21 & 23) to avoid scoring lapped surfaces. Keep spools and sleeves in pairs as removed and if replacement is required they must be ordered and installed as sets. Damaged or worn parts should be replaced before kit parts are installed.

NOTE

(Refer to figure 1.) Fittings (12 & 14), "O" rings (10 & 13) and ball (11) need not be disturbed unless inspection is deemed necessary.

c. (Refer to figure 2.) Assembly of Control Valve.

- (1) Install fitting (3), nut (2) and "O" ring (1) in order shown.
- (2) Install "O" ring (4), retained tee (5) and pressure switch (6) as shown.
- (3) Install fitting (7), nut (2) and "O" ring (1) in order shown.

d. Power Pack Installation.

- (1) Connect hydraulic lines and electrical wiring as tagged and noted. Bleed hydraulic lines as connected and fill reservoir as required.
- (2) Jack aircraft and cycle gear in accordance with Model 177RG Service Manual.
- (3) Replace aft baggage panel.