



TECHNICAL BULLETIN

212-17-216
24 May 2017

MODEL AFFECTED: 212

SUBJECT: HYDRAULIC SYSTEM #1 AND #2 ACCUMULATOR
P/N 212-076-007-003, REMOVAL OF

HELICOPTERS AFFECTED: Serial numbers 30502 through 30603, 30611 through 30999, 31101 through 31311 and 35001 through 35103.

COMPLIANCE: At customer's option.

DESCRIPTION:

This bulletin provides the instructions for the removal of both hydraulic accumulators. When completed, this improvement will save approximately 5 lbs (2.2 kgs) and cancel the requirement to inspect the hydraulic accumulators every 1000 hours (BHT-212-MM-1, CHAP 5, 5-41).

APPROVAL:

The engineering design aspects of this bulletin are FAA approved for FAA certified helicopters as listed in the applicable Type Certificate Data Sheet. For non FAA certified helicopters, the engineering design aspects of this bulletin are Bell Helicopter Engineering approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Helicopter Product Support Engineering - Medium Helicopters
Tel: 450-437-6201 / 1-800-363-8028 / psemedium@bh.com

MANPOWER:

Approximately 5.0 man-hours are required to complete this bulletin. This estimate is based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:**Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>	<u>Figure</u>	<u>Note</u>
90-002-3	Nutplate	1	4	
MS20470AD4-6	Rivet	2	4	
AS5192W06	Tee Fitting	1	5	
412-076-100-101	Reducer	1	5	
MS28778-6	Packing	3	5	
AS5230W0606	Union	2	5	
MS21919WDG4	Clamp	1	6,7	
MS27039-1-10	Screw	1	6,7	
NAS1149D0316J	Washer	1	6,7	
NAS43DD3-12N	Spacer	1	6,7	
AS1004W0404	Fitting, Elbow 90°	1	6,7	
212-076-571-001	Tube Assy	1	6	1
AS1010W0404	Fitting, Elbow, 45°	1	6	1
MS28773-04	Backup Ring	1	6	1
MS28778-4	Packing	1	6	1
412-076-009-101	Tube Assy	1	6	1

NOTE:

1. Only for helicopters serial numbers 30504 through 30755.

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Reference *</u>	<u>Note</u>
2400-00036-00	Hydraulic fluid, petroleum base	AR	C-002	1
2400-00066-00	Hydraulic fluid, synthetic	AR	C-072	1
2230-00425-00	Primer, Epoxy Polyamide	AR	C-204	

* C-XXX numbers refer to the consumables list in BHT-ALL-SPM Standard Practices Manual

NOTE:

1. Refer to helicopter records for type of hydraulic fluid used.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

<u>Weight</u>	<u>Arm</u>	<u>Longitudinal Moment</u>	<u>Arm</u>	<u>Lateral* Moment</u>
-4.9 pounds	139.7 inches	-685 in-pounds	2.0 inches	-10 in-pounds
-2.2 kgs	3548 mm	-78.8 kg x mm/100	51 mm	-1.1 kg x mm/100

* In lateral calculations, - is left and + is right.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

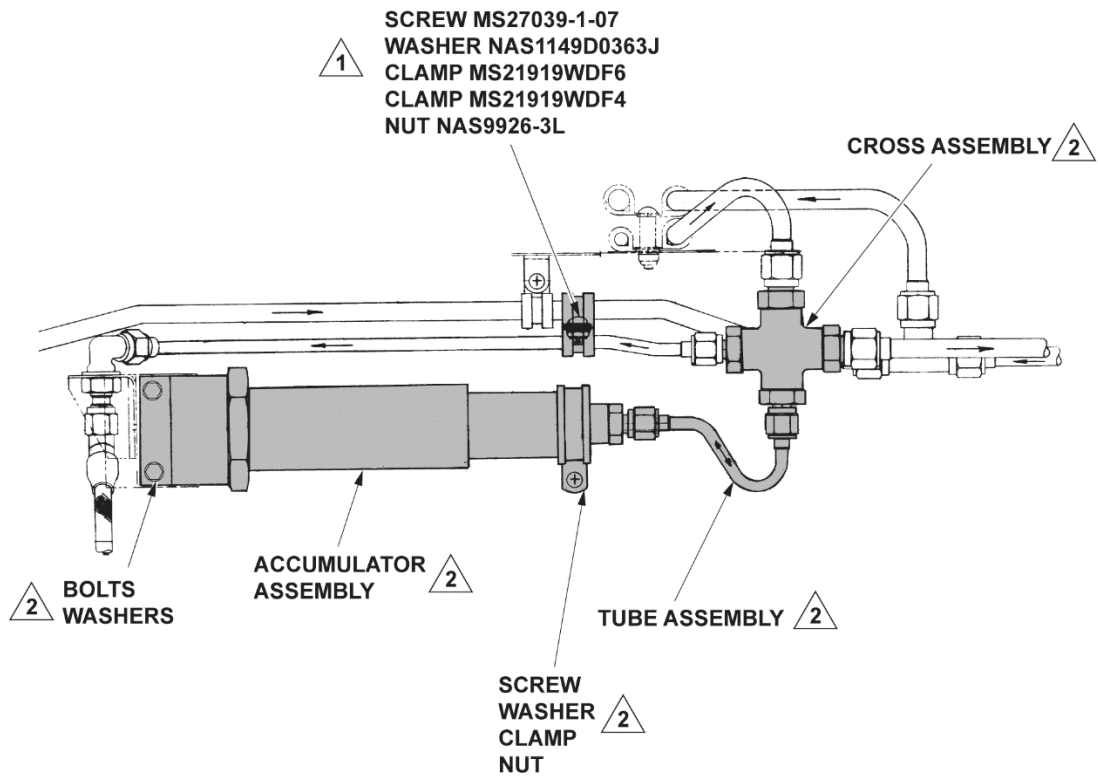
BHT-212-IPB Illustrated Parts Breakdown
 BHT-212-MM Maintenance Manual
 BHT-ALL-SPM Standard Practice Manual

PUBLICATIONS AFFECTED:

BHT-212-IPB Illustrated Parts Breakdown
 BHT-212-MM Maintenance Manual

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare helicopter for maintenance.
2. Gain access to both hydraulic accumulators (BHT-212-MM-1).
3. Remove all parts shown in grey on Figure 1, 2 or 3 as applicable (BHT-212-MM-4).
4. Install Nut plate 90-002-3 shown on Figure 4 as follow:
 - a. Install clamp MS21919WDG4, screw MS27039-1-10, washer NAS1149DO316J with spacer NAS43DD3-12N and nutplate on tube assembly P/N 212-076-571-001. Do not tighten screw at this time to allow proper positioning of nutplate.
 - b. To prevent tube and stiffener preload, temporary install tube to fit and locate the nutplate on stiffener P/N 205-030-845-376 (Detail B) mark position of the nutplate and remove tube assembly.
 - c. Install the nutplate 90-002-3 using rivets MS20470AD4-6 (of the proper length), to the lower left hand stiffener P/N 205-030-845-376.
 - d. Touch up the area as required with primer C-204 (BHT-ALL-SPM).
5. For helicopters S/N 30504 to 31311, 32101 to 32142 35001 to 35103, install hardware shown on Figure 5.
6. For helicopters S/N 30504 to 30755 install hardware shown on Figure 6.
7. For helicopters S/N 30756 to 31311, 32101 to 32142 and 35001 to 35103, install hardware shown on Figure 7.
8. Make an entry in the helicopter logbook and historical service records indicating compliance with this Technical Bulletin.

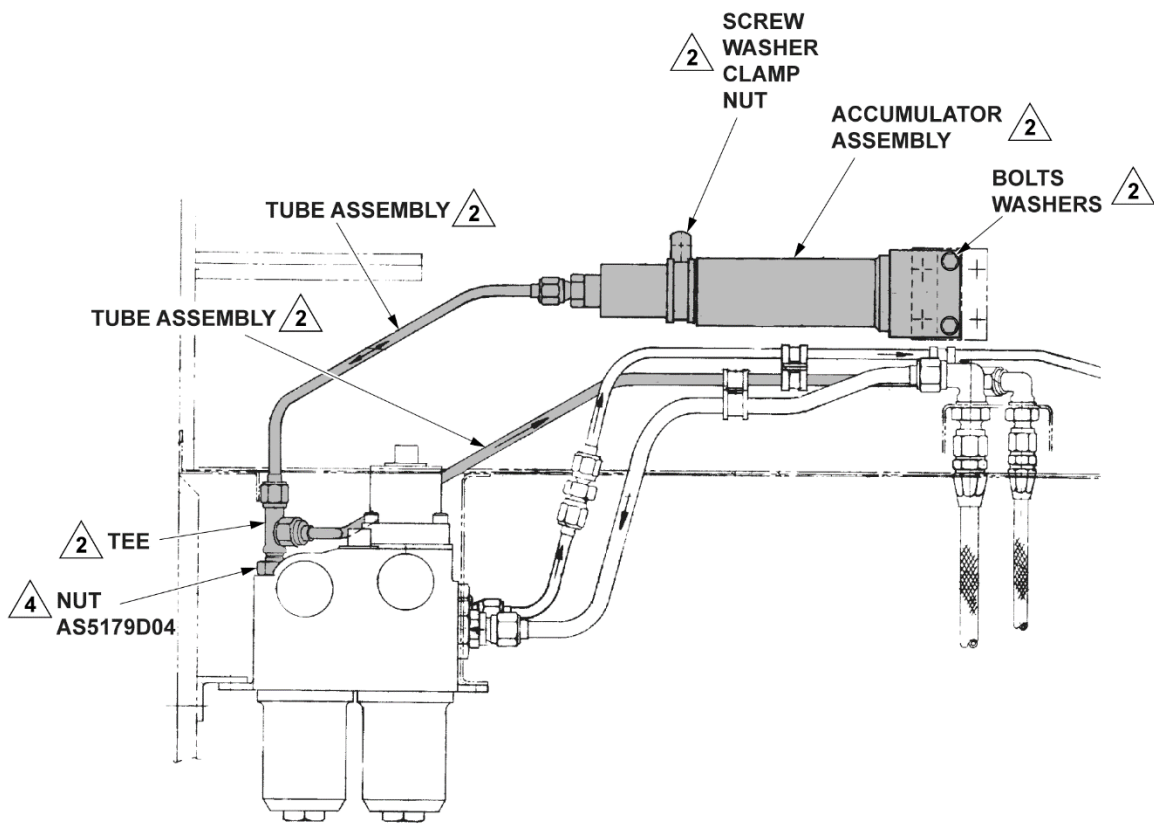


NOTES

- 1 Retain parts for relocation.
- 2 Parts no longer required.

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Figure 1
Hydraulic System I Pre TB 212-17-216 Configuration

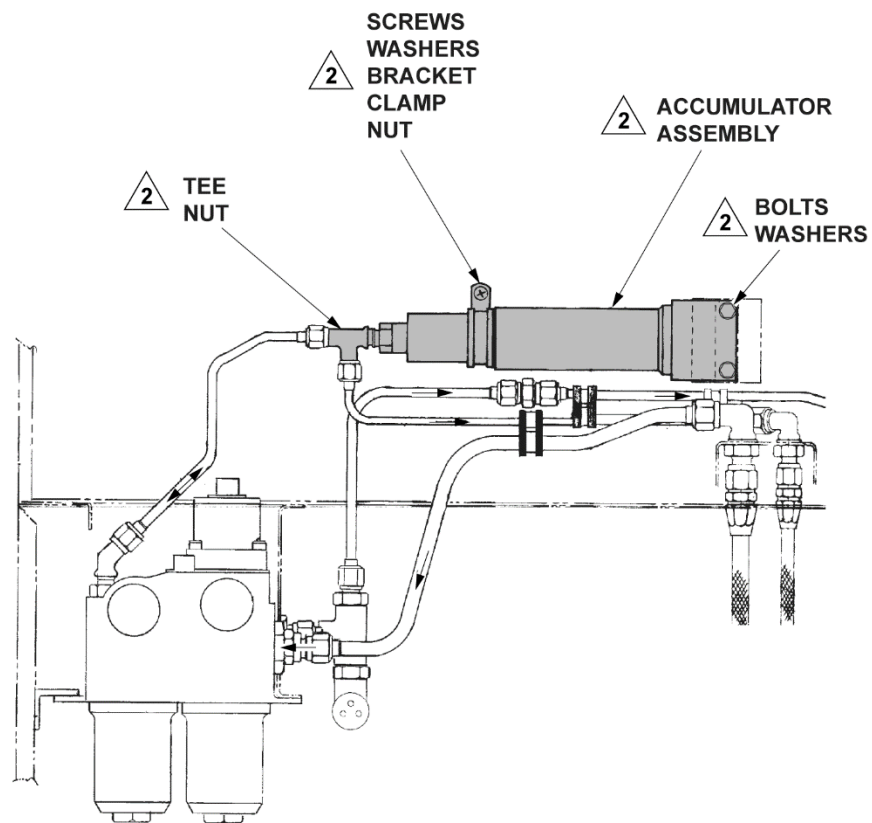


NOTES

- △ 2 Parts no longer required.
- △ 4 Retain for re-use.

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Figure 2
 Hydraulic System II Pre TB 212-17-216 Configuration
 S/N 30504 through 30755



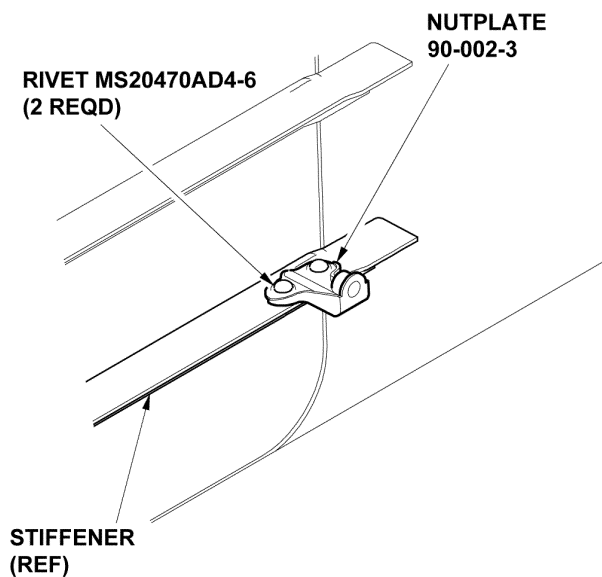
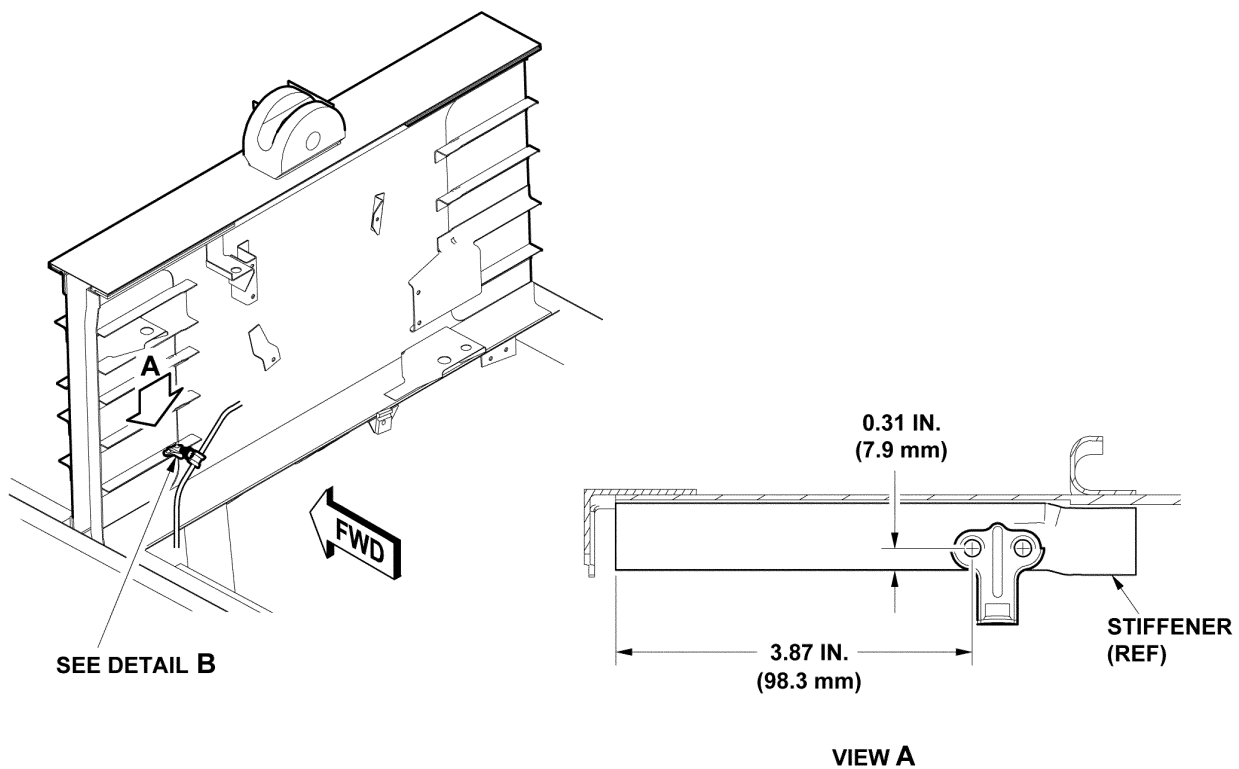
NOTE

2 Parts no longer required.

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Figure 3

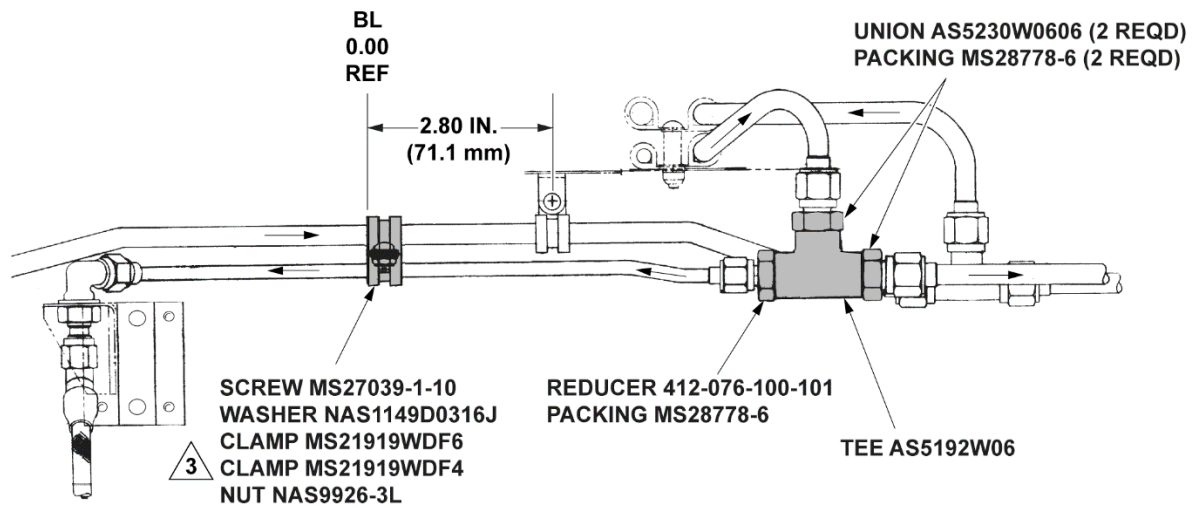
Hydraulic System II Pre-TB 212-17-216 Configuration
30756 through 31311, 32101 through 32142 and 35001
through 35103



DETAIL B

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Figure 4
Modification

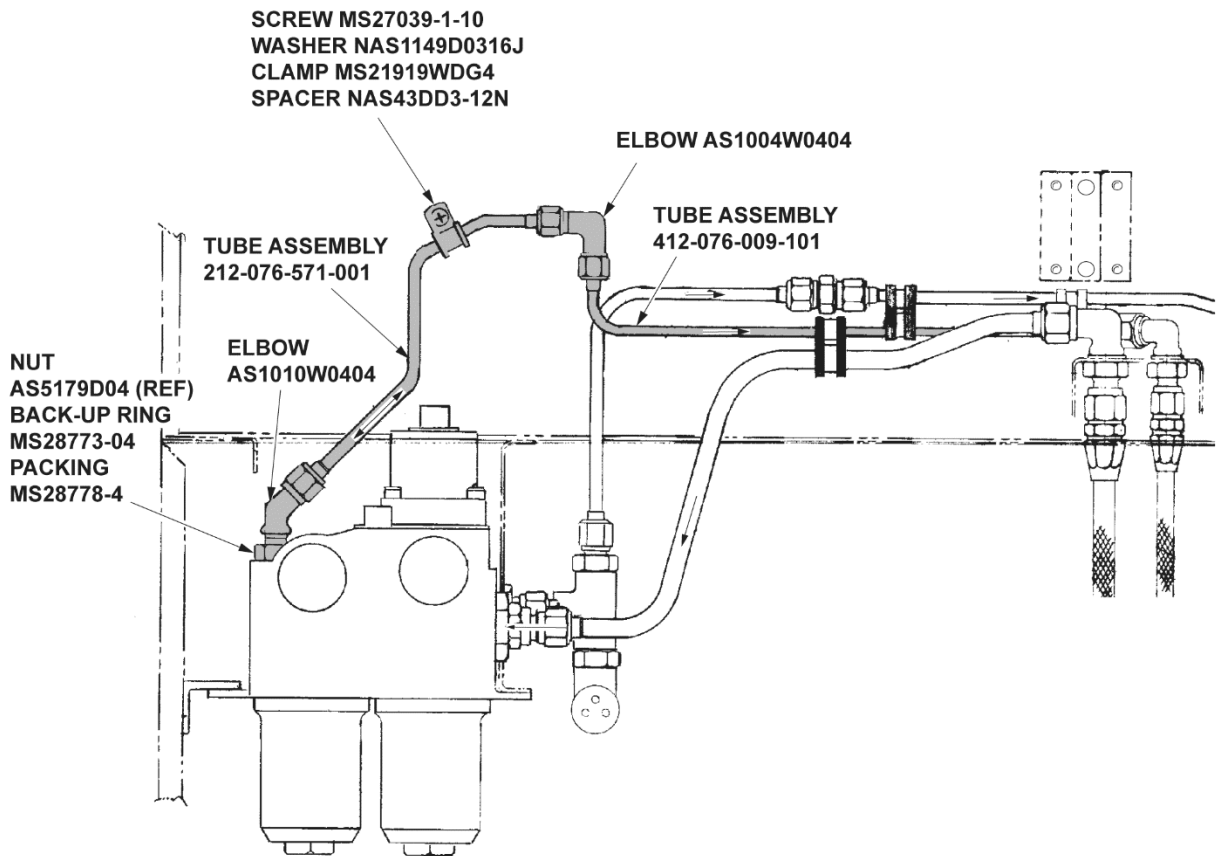


NOTES

- 3 Relocate clamps and hardware 2.80 inches (71.1 mm) away from center of bracket.

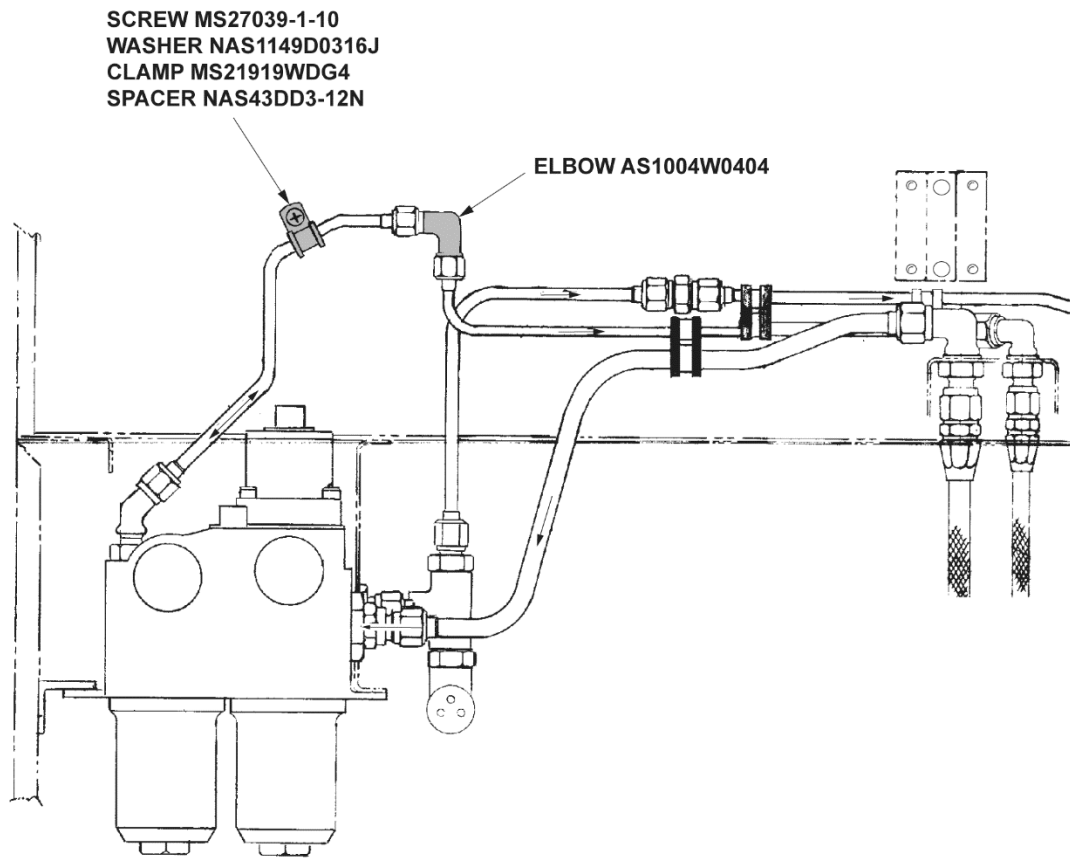
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Figure 5
Hydraulic System I Post TB 212-17-216 Configuration



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Figure 6
 Hydraulic System II Post TB 212-17-216 Configuration
 30504 through 30755



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Figure 7
 Hydraulic System II Post TB 212-17-216 Configuration
 30756 through 31311, 32101 through 32142 and 35001
 through 35103