



**International
Aero Engines**

DATE: Sep.20/99

Subject: Transmittal of Revision 1 to Service Bulletin No.V2500-ENG-79-0064

Service Bulletin Revision History:

<u>Event</u>	<u>Date</u>
Basic issue	Apr.17/98
Revision 1	Sep.20/99

Reason for Issuance of Revision

To incorporate editorial changes and clarify disposition codes.

List of Effective pages:

<u>Bulletin Page No.</u>	<u>Rev. No.</u>	<u>Effective Date</u>
1	1	Sep.20/99
2 to 10	basic	Apr.17/98
11 to 12	1	Sep.20/99

V2500-ENG-79-0064

Transmittal

Page 1 of 1



International Aero Engines
SERVICE BULLETIN

ENGINE – MAIN GEARBOX ASSEMBLY – INTRODUCTION OF REVISED OIL SCAVENGE
TUBES TO STOP OIL LEAKS

MODEL APPLICATION

V2500–A1
V2522–A5
V2524–A5
V2527–A5
V2430–A5
V2533–A5
V2525–D5
V2528–D5

BULLETIN INDEX LOCATOR

79–22–00

Compliance Category Code

8

Internal Reference No.

EC95VF014



**International Aero Engines
SERVICE BULLETIN**

**ENGINE – MAIN GEARBOX ASSEMBLY – INTRODUCTION OF REVISED OIL SCAVENGE
TUBES TO STOP OIL LEAKS**

1. Planning information

A. Effectivity

(1) Aircraft:

- (a) Airbus A319 A320 A321
- (b) Boeing–Douglas MD–90

(2) Engines V2500 : Engines prior to Serial Number S/N V20055

- (a) V2500–A1 Engines prior to Serial No V0362
- (b) V2522–A5 Engines prior to Serial No V10471
- (c) V2524–A5 Engines prior to Serial No V10471
- (d) V2527–A5 Engines prior to Serial No V10471
- (e) V2530–A5 Engines prior to Serial No V10471
- (f) V2533–A5 Engines prior to Serial No V10471
- (g) V2525–D5 Engines prior to Serial No V20262
- (h) V2528–D5 Engines prior to Serial No V20262

B. Concurrent Requirements

None

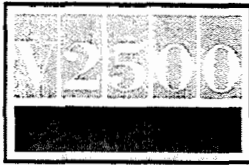
C. Reason

(1) Problem

Oil leaks can occur at the connections of the main casing and the oil filter housing.

(2) Background

During engine ground–run tests of A5 and D5 models, oil was found to leak from the oil tubes connections at the gearbox casing and the oil filter housing. The oil leaks were found during the initial engine ground–run tests after installation of the oil tubes. The leaks are caused by the pre-formed packing as they do not give a sufficient seal.



International Aero Engines SERVICE BULLETIN

(3) Substantiation

Satisfactory rig tests have been done on the changes introduced by this Service Bulletin. The installation of these changes has also been successful on ten gearboxes.

(4) Objective

The purpose of this Service Bulletin is to make the installation of the the packing better.

(5) Effect of Bulletin on:

(a) Operation

Not affected.

(b) Maintenance

Not affected.

(c) Overhaul

Not affected.

(d) Repair Schemes

Not affected.

(e) Interchangeability

No affected.

(f) Fits and Clearances

Not affected.

D. Description

(1) The oil tubes for the gearbox have changed as follows:

- (a) A different sleeve has been installed on the oil tubes.

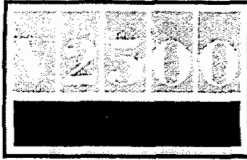
E. Compliance

Category Code 7.

This Service Bulletin can be done when there are no initial parts remaining.

Apr. 17/98

V2500-ENG-79-0064



International Aero Engines SERVICE BULLETIN

F. Approval

The part number changes and/or modification are given in Section 2 and 3 of this Service Bulletin. They obey the applicable Federal Aviation Regulations and are FAA-APPROVED for the engine model listed.

G. Manpower

Estimate of man-hours necessary to do this Service Bulletin in full:

<u>Venue</u>	<u>Estimated Man-hours</u>
In Service	Not applicable
At Overhaul	No additional time is necessary to do this Service Bulletin

NOTE: It is possible to get access to the parts affected by this Service Bulletin at overhaul.

H. Material Price and Availability

- (1) A modification kit is not necessary.
- (2) Refer to 3. Material Information for the prices and availability of future spares.

I. Tooling Price and Availability

Special tools are not necessary.

J. Weight and Balance

- (1) Weight Change

Not affected.

- (2) Moment Arm

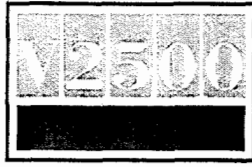
Not affected.

- (3) Datum

Engine front mount centreline (Power Plant Station - (PPS) 100).

K. Electrical Load Data

This Service Bulletin has no effect on the aircraft electrical load.



International Aero Engines SERVICE BULLETIN

L. References

- (1) A1/A5 and D5 Engine Manual (EM), Chapter/Section 72-00-60, Removal-11/Installation-11.

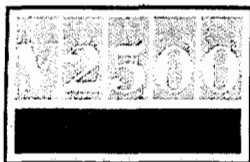
M. Other Publications Affected

- (1) A1/A5 and D5 Illustrated Parts Catalogue (IPC), Chapter/Section 79-22-40, Figures 01 and 05.

Apr. 17/98

V2500-ENG-79-0064

Page 5 of 12



International Aero Engines SERVICE BULLETIN

2. Accomplishment Instructions

A. Rework Instructions

None

B. Assembly Instructions

None

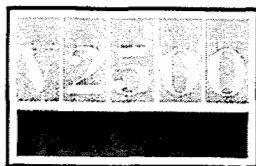
C. Recording Instructions

A record of accomplishment is necessary.

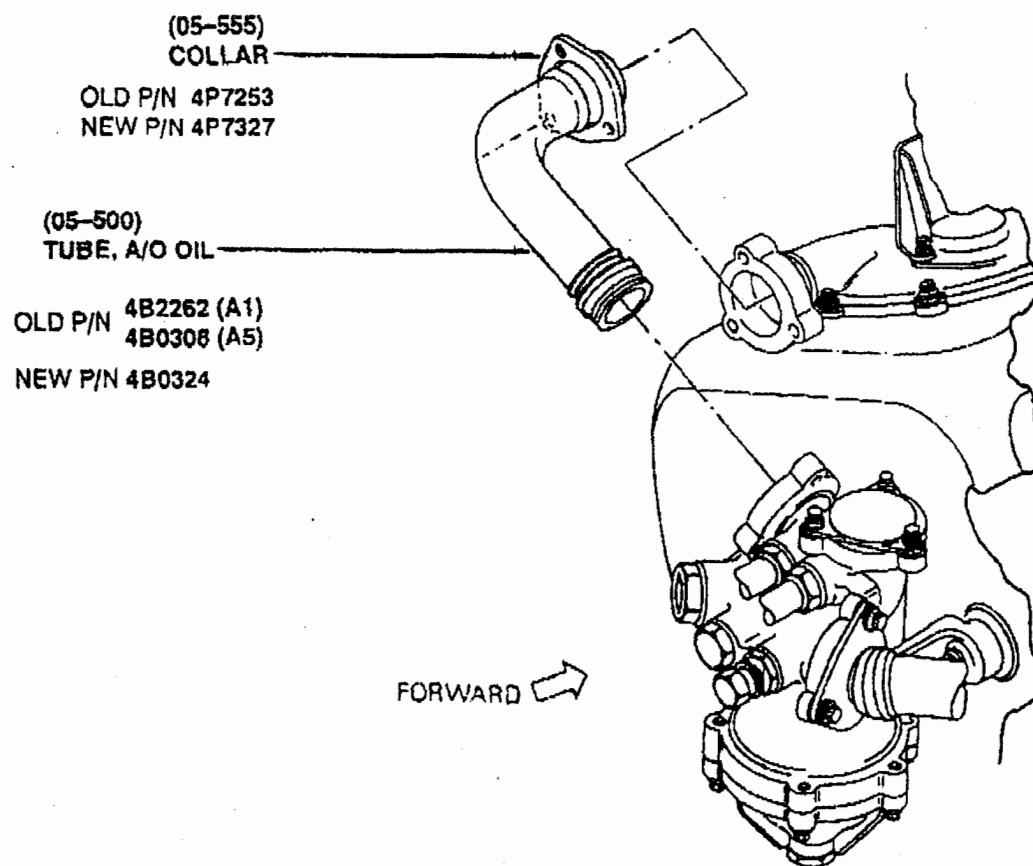
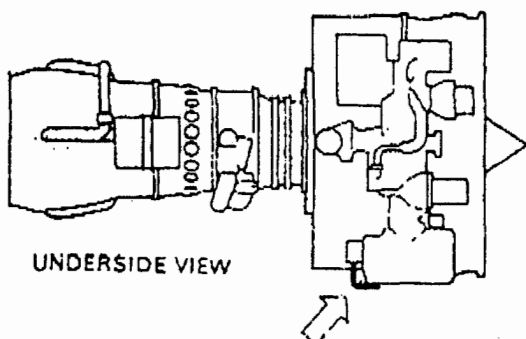
Apr. 17/98

V2500-ENG-79-0064

Page 6 of 12



International Aero Engines
SERVICE BULLETIN



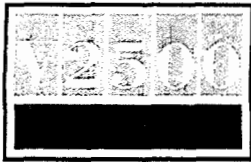
ded0002549

Figure 1
Scavenge oiltubes - Gearbox - Filter to oil tank (A1/A5)

Apr. 17/98

V2500-ENG-79-0064

Page 7 of 12



International Aero Engines
SERVICE BULLETIN

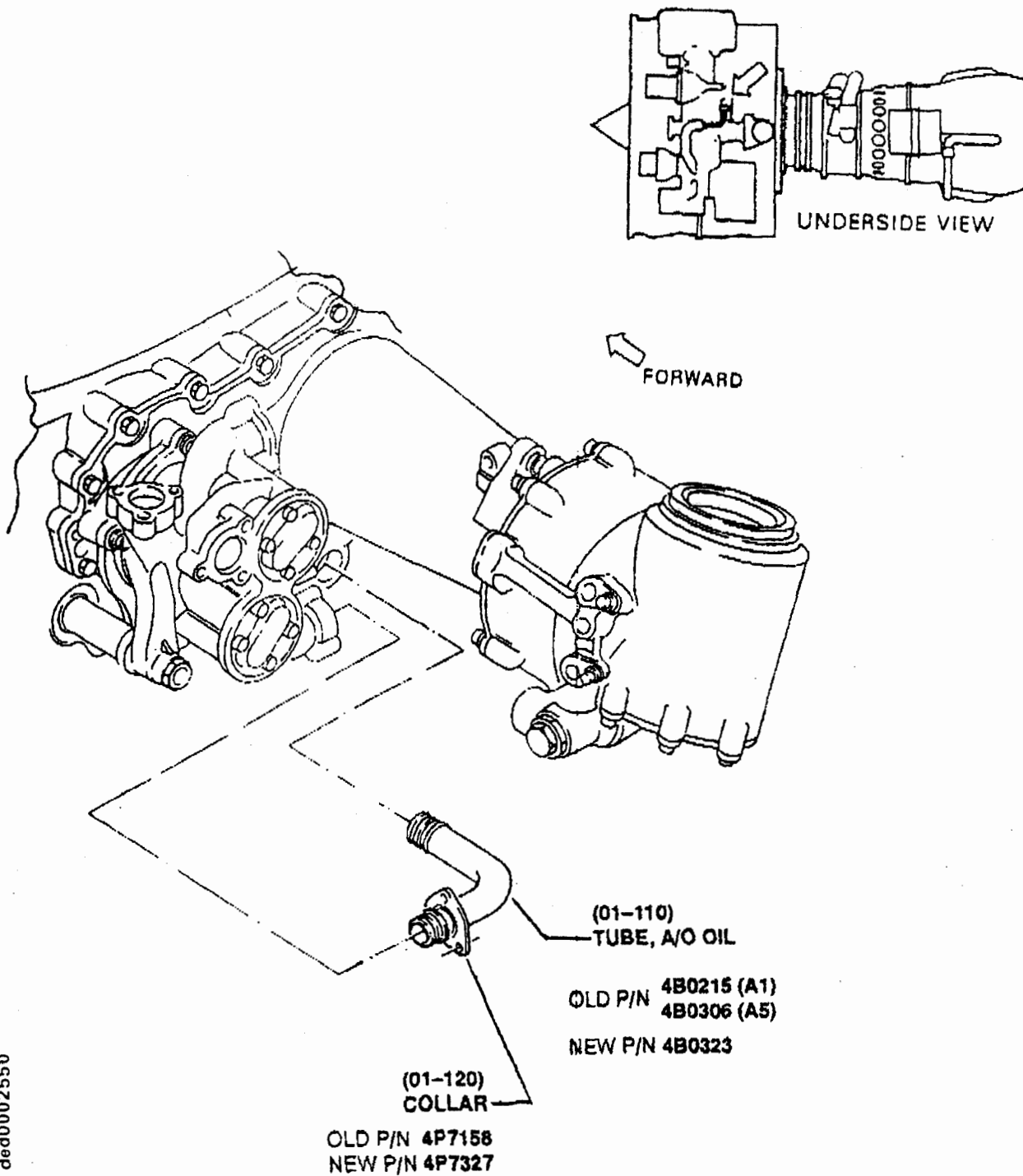
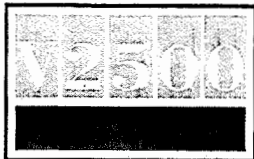


Figure 2
Scavenge oil tubes - Gearbox - Gearbox to oil pumps (A1/A5)

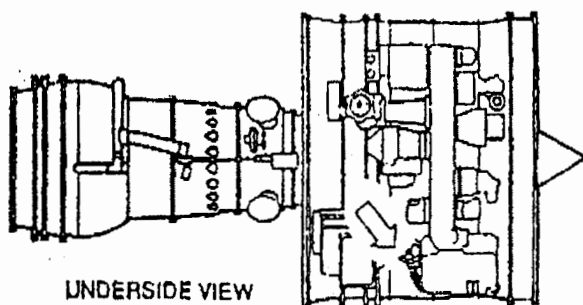
Apr. 17/98

V2500-ENG-79-0064

Page 8 of 12



International Aero Engines
SERVICE BULLETIN

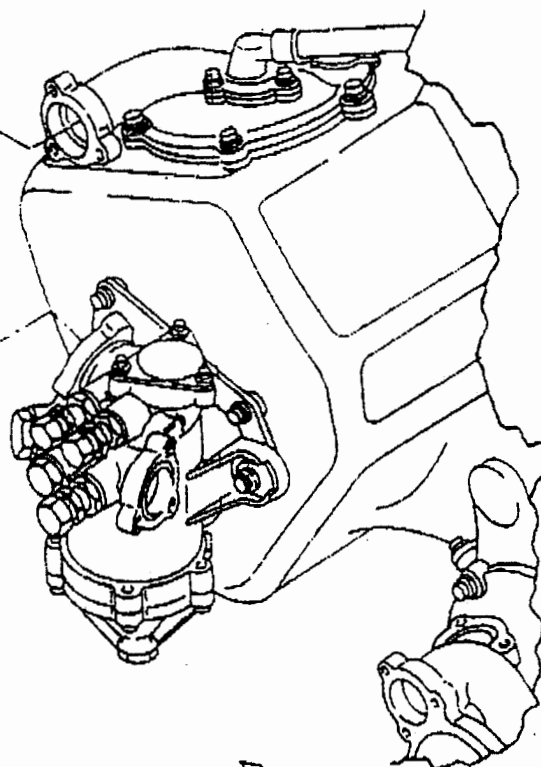


UNDERSIDE VIEW

(05-535)
COLLAR
OLD P/N 4P7253
NEW P/N 4P7327

(05-500)
TUBE, A/O SCAV. GBX

OLD P/N 4B2261
NEW P/N 4B2298



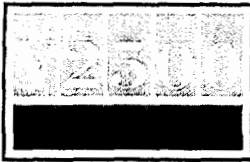
FORWARD

ded0002551

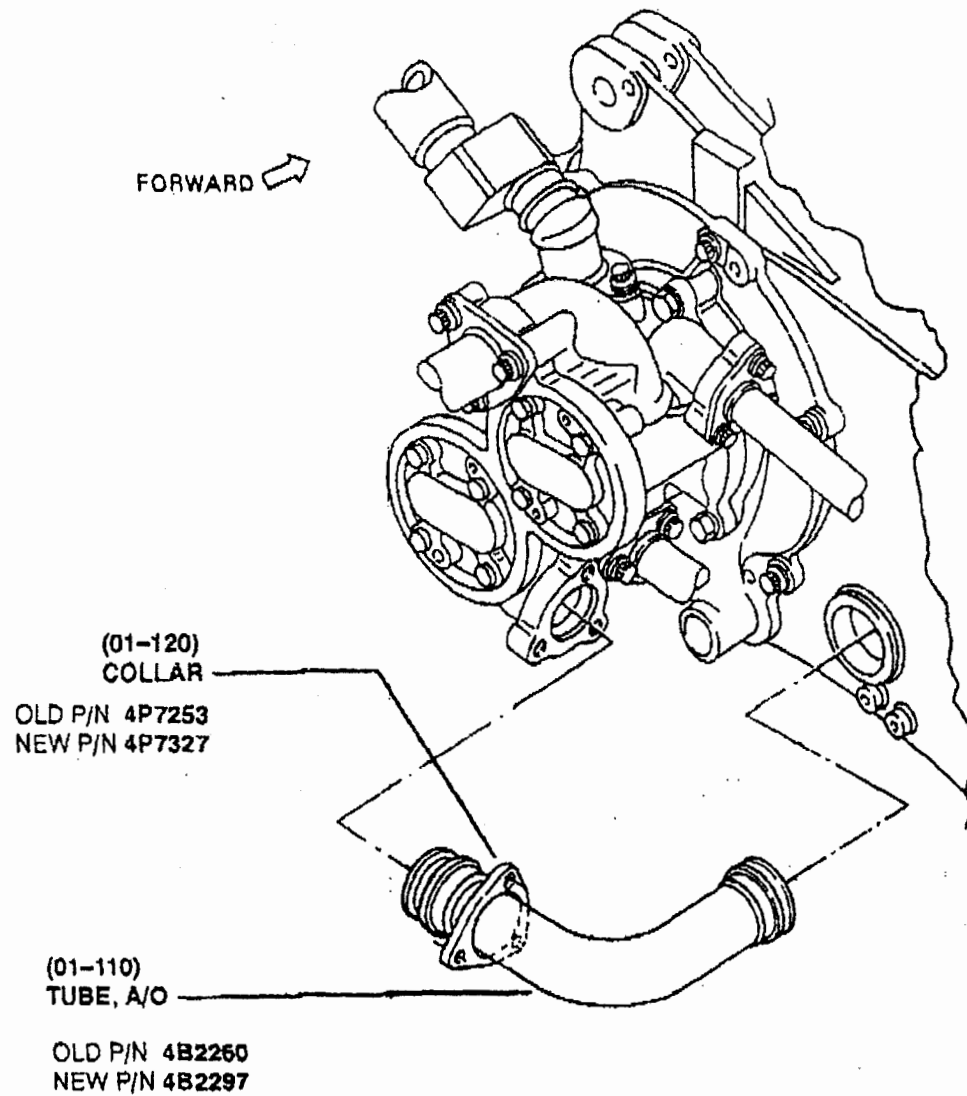
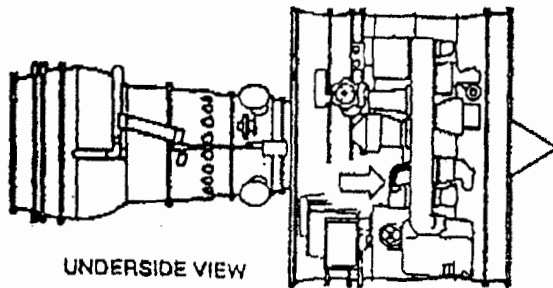
Figure 3
Scavenge oil tubes - Gearbox - Filter to oil tank (D5)

Apr. 17/98

V2500-ENG-79-0064



International Aero Engines
SERVICE BULLETIN



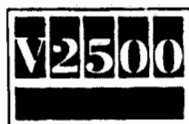
ded0002552

Figure 4
Scavenge oil tubes - Gearbox - Gearbox to oil pumps (D5)

Apr. 17/98

V2500-ENG-79-0064

Page 10 of 12



International Aero Engines SERVICE BULLETIN

3. Material Information

Applicability: For each V2500 engine to incorporate this Service Bulletin

A. Kits associated with this Service Bulletin

None

B. Parts affected by this Bulletin

NEW PART NO. (ATA NO.)	QTY	EST'D UNIT PRICE(\$)	KEYWORD	OLD PART NO. (IPC NO.)	INSTR/ DISPOS
R A1 ENGINES					
R 4B0323 R (79-22-48)	1		.Tube, A/O Oil	4B0215 (01-110)	(A) (S1) (S2)
R 4P7327 R (79-22-48)	1		.Collar	4P7158 (01-120)	(A) (B) (S1) (S2)
R 4B0324 R (79-22-48)	1		.Tube, A/O Oil	4B2262 (05-500)	(A) (S1)
R - R (79-22-48)	3		.Bolt, Machined Head Hexagonal	4W0165 (05-510)	
R - R (79-22-48)	3		.Washer, Flat	MS9321-10 (05-520)	
R 4P0125 R (79-22-48)	1		.Packing	AS3209-217 (05-530)	(A) (S1) (S2)
R A5 ENGINES					
R 4B0323 R (79-22-48)	1		.Tube, A/O Oil	4B0306 (01-110)	(A) (S3)
R 4P7327 R (79-22-48)	1		.Collar	4P7158 (01-120)	(A) (B) (S3)
R 4B0324 R (79-22-48)	1		.Tube, A/O Oil	4B0308 (05-500)	(A) (S1) (S4)
R 4P7327 R (79-22-48)	1		.Collar	4P7253 (05-555)	(A) (B) (S1) (S4)

Apr. 17/98

V2500-ENG-79-0064



International Aero Engines
SERVICE BULLETIN

NEW PART NO. (ATA NO.)	EST'D UNIT PRICE(\$)	KEYWORD	OLD PART NO. (IPC NO.)	INSTR/ DISPOS
R D5 ENGINES				
R 4B2297 R (79-22-48)	1	.Tube, A/O Oil	4B2260 (01-110)	(A) (S1) (S5)
R 4P7327 R (79-22-48)	1	.Collar	4P7253 (01-120)	(A) (B) (S1) (S5)
R 4B2298 R (79-22-48)	1	.Tube, A/O Scav- enge Gearbox	4B2261 (05-500)	(A) (S1) (S6)
R 4P7327 R (79-22-48)	1	.Collar	4P7253 (05-535)	(A) (B) (S1) (S6)

NOTE: The unit prices, if shown, are an estimate and they are given for the purpose of planning only. For information about actual prices, refer to IAE Price Catalog or contact IAE's spare parts sales department.

C. Instruction/Disposition Codes

- R (A) New part is available.
- (B) The old part is not available
- R (S1) Old and new parts coded (S1) are fully interchangeable.
- R (S2) Parts coded (S2) must be fitted as a set.
- R (S3) Parts coded (S3) must be fitted as a set.
- R (S4) Parts coded (S4) must be fitted as a set.
- R (S5) Parts coded (S5) must be fitted as a set.
- R (S6) Parts coded (S6) must be fitted as a set.