

ENGINE - ELECTRICAL POWER - REVISED IDG OIL COOLER WITHOUT OIL INLET THERMOCOUPLE PORT
- CATEGORY CODE 7. ACCOMPLISH WHEN SUPPLY OF SUPERSEDED PARTS HAS BEEN DEPLETED -
MOD.ENG-24-0002

1. Planning Information

A. Effectivity

(1) Airplane:

(a) Airbus A320

(2) Engine:

(a) V2500-A1 Engines prior to Serial Numbers V0203 and V0227 through V0253 and V0255, V0257, V0259.

(3) All Part Number 5L0024, Fuel Cooled IDG Oil Coolers (Hughes-Treidler Mfg. Corp. Part Number 14844-000, Fuel Cooled IDG Oil Coolers)

B. Reason

(1) Condition

Potential oil leakage of the Fuel Cooled IDG Oil Cooler through the blanking for oil inlet thermocouple port.

(2) Background

A design review for the existing Fuel Cooled IDG Oil Cooler suggested an elimination of the unnecessary oil inlet thermocouple flange and port.

(3) Objective

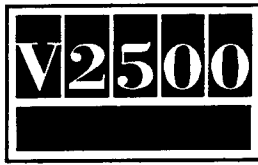
The change in configuration recommended in this Service Bulletin is designed to maintain the engine reliability.

(4) Substantiation

Substantiation test is not required.

(5) Effect of Bulletin on workshop procedure:

V2500-ENG-24-0002



SERVICE BULLETIN

Removal/Installation	Affected (See Supplemental Information)
Disassembly/Assembly	Not affected
Cleaning	Not affected
Inspection/Check	Not affected
Repair	Not affected
Testing	Not affected

(6) Supplemental Information

The Removal/Installation of the Post-Service Bulletin configuration are affected due to a new Fuel Cooled IDG Oil Cooler without oil inlet thermocouple flange and port.

C. Description

(1) The changes introduced by this Service Bulletin are as follows:

- (a) A new Fuel Cooled IDG Oil Cooler without oil inlet thermocouple flange and port has been introduced (See Figure 1).
- (b) The existing Bolts, Sealing Ring and Cover which are used to blank off the oil inlet thermocouple port have been deleted (See Figure 1).

D. Approval

The Part Number changes and/or part modifications described in Sections 2 and 3 of this Service Bulletin have been shown to comply with the applicable Federal Aviation Regulations and are FAA-APPROVED for the Engine Model listed.

E. Compliance

Category Code 7.

Accomplish when supply of superseded parts has been depleted.

F. Manpower

Estimated Manhours to incorporate the full intent of this Bulletin:

Venue	Estimated Manhours
(1) In service 	Not applicable
(2) At Overhaul 	Not applicable

G. Material- Price and Availability

(1) Modification Kit is not required. Parts supplied as single line items.

V2500-ENG-24-0002



SERVICE BULLETIN

- (2) See Material Information section for prices and availability of future spares.

H. Tooling - Price and Availability

Special tools are not required to accomplish this Service Bulletin.

I. Weight and Balance

- | | |
|-------------------|---|
| (1) Weight change | Minus 0.164 lb (0,074 kg) |
| (2) Moment arm | No effect |
| (3) Datum | Engine front mount centerline
(Powerplant Station (PPS) 100) |

J. Electrical Load Data

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

K. References

- (1) Internal Reference No.

EC90VJ050
ECM90VJ050-01
ECM90VJ050-02
ECM90VJ050-03

- (2) Hughes-Treidler Mfg. Corp. Service Bulletin No. 11844-001.

- (3) V2500 Illustrated Parts Catalog, Chapter/Section 24-21-42.

- (4) V2500 Engine Manual, 72-00-32 Removal and Installation.

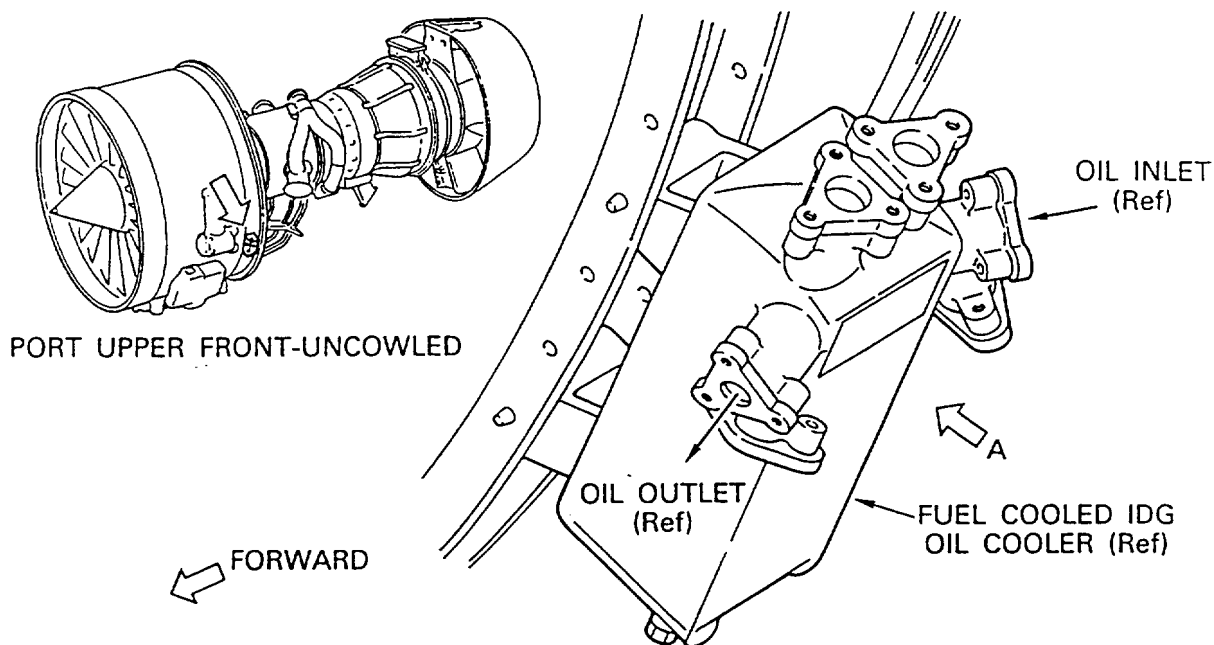
L. Other Publications Affected

- (1) V2500 Power Plant Illustrated Parts Catalog, Chapter/Section 24-21-42.

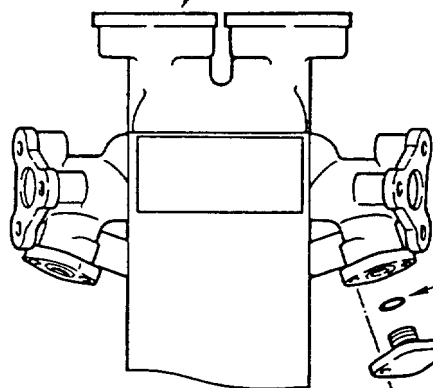
- (2) V2500 Engine Illustrated Parts Catalog, Chapter/Section 24-21-42.

- (3) A320 Aircraft Maintenance Manual, 24-21-42 Removal/Installation.

V2500-ENG-24-0002

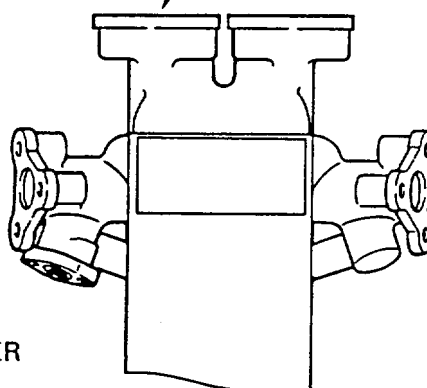


5L0024 (14844-000)
FUEL COOLED IDG OIL COOLER

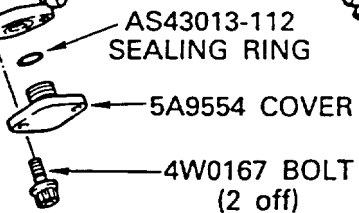


VIEW AT A
BEFORE ALTERATION

5L0033 (15844-000)
FUEL COOLED IDG OIL COOLER

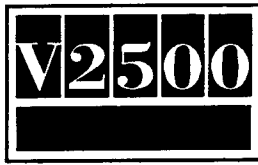


VIEW AT A
AFTER ALTERATION



Fuel Cooled IDG Oil Cooler - Before and After Alteration
Figure 1

V2500-ENG-24-0002



2. Accomplishment Instructions

A. Rework Instructions

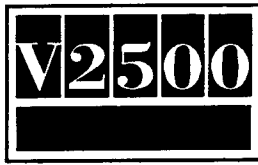
- (1) There are no rework instructions necessary to accomplish this Service Bulletin.

B. Assembly Instructions

- (1) Install 5L0033 (15844-000) Fuel Cooled IDG Oil Cooler, to the engine by the approved procedures in the Engine Manual, 72-00-32, Installation.

C. Recording Instructions

- (1) A record of accomplishment is necessary.



SERVICE BULLETIN

3. Material Information

Applicability: For each V2500-A1 Engine to incorporate this Bulletin.

A. Kits Associated with this Bulletin:

None

B. Parts Affected by this Bulletin:

New Part No. (ATA No.)	Qty	Est'd Unit Price (\$)	Keyword	Old Part No. (IPC No.)	Instructions Disposition
5L0033 (15844-000) (24-21-42)	1		.Cooler, IDG Oil- Fuel Cooled	5L0024 (14844-000) (01-100)	(A) (B) (S1)
- (24-21-42)	2		.Bolt	4W0167 (01-200)	(C) (S2)
- (24-21-42)	1		.Ring, Sealing	AS43013-112 (01-205)	(C) (S2)
- (24-21-42)	1		.Cover	5A9554 (01-210)	(B) (S2)

C. Instruction/Disposition Code Statements:

- (A) New part is currently available for sale.
- (B) Old part will no longer be available for sale.
- (C) Old part will continue to be supplied on the other applications
- (S1) Old and new parts coded (S1) are fully interchangeable, both physically and functionally.
- (S2) Parts coded (S2) can only be used with old part coded (S1).

NOTE: The estimated 1992 unit price shown are provided for planning purposes only and do not constitute a firm quotation. Consult the IAE Price Catalog or contact IAE's Spare Parts Sales Department for information concerning firm prices.

V2500-ENG-24-0002



HUGHES - TREITLER MFG. CORP.

300 ENDO BOULEVARD • GARDEN CITY, NEW YORK 11530

AREA CODE 516/832-8811 • TWX 510 220-6642

FAX 516 832-8054

SERVICE BULLETIN No. 11844-001

INTEGRATED DRIVE GENERATOR (IDG) SYSTEM - INTRODUCTION OF A NEW FUEL COOLED IDG OIL COOLER

(IAE SB No. V2500-ENG-24-0002)

1. Planning Information

A. Effectivity

- (1) Airplane: Airbus A320
- (2) Engine: IAE V2500-A1
- (3) Fuel Cooled IDG Oil Cooler:

This Bulletin applies to all Part Number 14844-000 (IAE Part Number 5L0024), Unit Serial Number 001 through 271, and 278 through 293.

B. Reason

(1) Condition

This Service Bulletin introduces a new Fuel Cooled IDG Oil Cooler without Oil Inlet Thermocouple Flange and Port.

(2) Background

There is a requirement for the existing design of the Fuel Cooled IDG Oil Cooler to eliminate unnecessary Oil Inlet Thermocouple and Port.

(3) Objective

The change in configuration recommended in this Service Bulletin is designed to maintain the Fuel Cooled IDG Oil Cooler reliability.

(4) Substantiation

Engineering analysis has completed satisfactorily.

Aug. 1/91

11844-001

Page 1 of 4



HUGHES - TREIDLER MFG. CORP.

300 ENDO BOULEVARD • GARDEN CITY, NEW YORK 11530

AREA CODE 516/832-8811 • TWX 510 220-6642

FAX 516 832-8054

C. Description

(1) The changes introduced by this Service Bulletin are as follows:

- (a) The Thermocouple Flange and Port on Oil Inlet Casting are removed from the Fuel Cooled IDG Oil Cooler (see Figure 1).

D. Compliance

Category Code 7

Accomplish when supply of superseded parts has been depleted.

E. Approval

Service Bulletin No. 11844-001, (IAE SB No. V2500-ENG-24-0002), was technically approved by IAE on June 20/91. The Part Number changes and/or part modifications described in this Service Bulletin have been shown to comply with the appropriate Federal Aviation Regulations and are FAA APPROVED for those units listed in this Bulletin.

F. Manpower

Not applicable.

G. Material - Price and Availability

- (1) See "Material Information" section for prices and availability of future spares.

H. Tooling - Price and Availability

Not applicable.

I. Weight and Balance

- (1) Weight change None.
- (2) Moment arm No effect.
- (3) Datum Engine front mount centerline
(Powerplant Station (P.P.S.) 100)

J. References

None.

Aug. 1/91

11844-001

Page 2 of 4



HUGHES - TREITLER MFG. CORP.

300 ENDO BOULEVARD • GARDEN CITY, NEW YORK 11530

AREA CODE 516/832-8811 • TWX 510 220-6642

FAX 516 832-8054

K. Other Publications Affected

- (1) Hughes-Treidler Mfg. Corp. Component Maintenance Manual, 24-21-42
Fuel Cooled IDG Oil Cooler P/N 14844-000.

2. Accomplishment Instructions

Not applicable.

3. Material Information

Applicability: For each P/N 14844-000, Fuel Cooled IDG Oil Cooler to incorporate this Bulletin.

(A) Kits Associated with this Bulletin:

None.

(B) Parts Affected by this Bulletin:

<u>New Part No.</u> <u>(ATA No.)</u>	<u>Qty.</u>	<u>Est'd Unit</u> <u>Price (\$)</u>	<u>Keyword</u>	<u>Old Part No.</u> <u>(IPL No.)</u>
15844-000 (24-21-42)	Ref	\$ 7,000	Cooler, IDG Oil Fuel Cooled	14844-000 (1-1)

Aug. 1/91

11844-001

Page 3 of 4

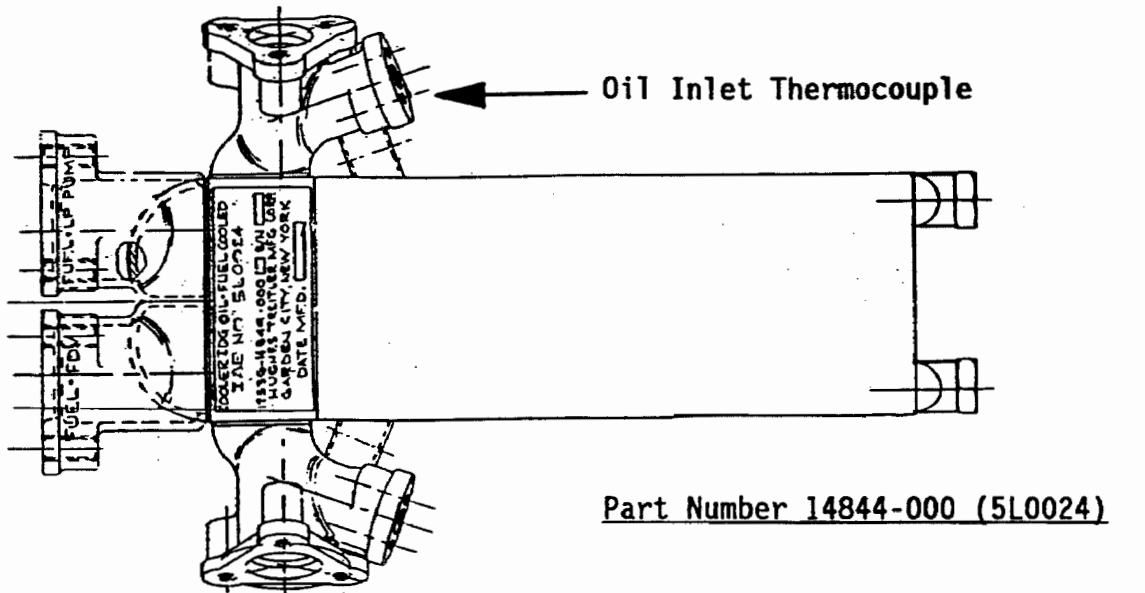


HUGHES - TREITLER MFG. CORP.

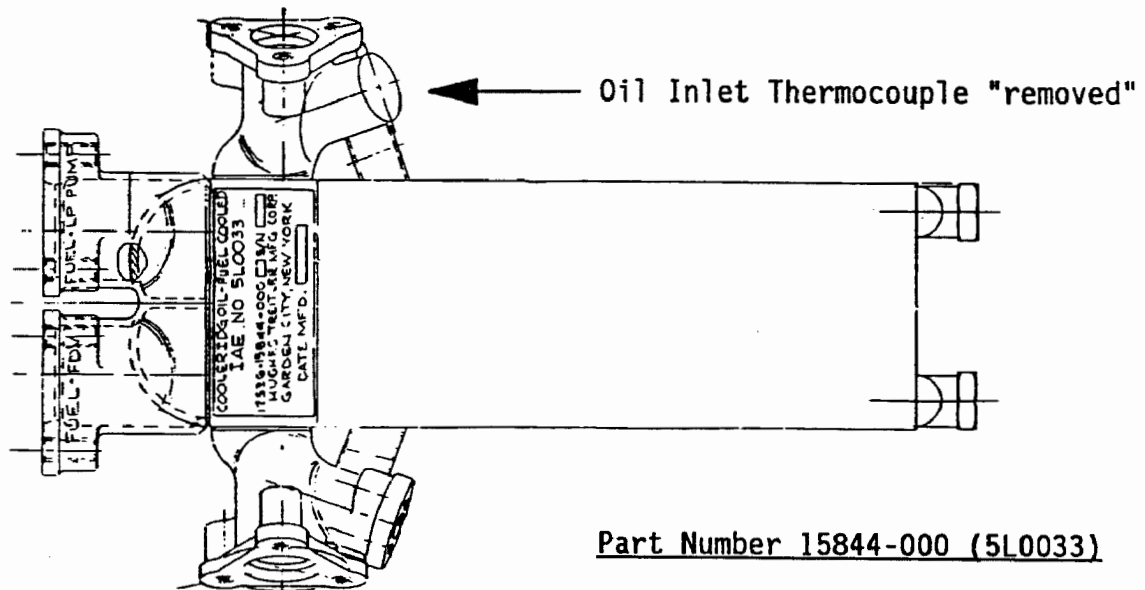
300 ENDO BOULEVARD • GARDEN CITY, NEW YORK 11530

AREA CODE 516/832-8811 • TWX 510 220-6642

FAX 516 832-8054



BEFORE ALTERATION



AFTER ALTERATION

Fuel Cooled IDG Oil Cooler - Before and After Alteration
Figure 1

Aug. 1/91

11844-001

Page 4 of 4