



EUROCOPTER CANADA LIMITED

SUBJECT: CARGO PODS INSTALLATION (P/N 130-201024)

This Instruction for Continued Airworthiness defines the required maintenance for aircraft with the subject modification installed.

The Cargo Pods are extensions to the side compartment for increased cargo capacity,

APPLICABILITY :

This Instruction for Continued Airworthiness must be used when the subject Cargo Pods is installed on the helicopter.



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| | NAME AND SIGNATURE | DATE | COMPANY DEPARTMENT |
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| APP'D / ACCEPTED (Civil A/W Authority) | (SEE TCCA STAMP) | | TCCA |
| RELEASED BY: | R. Manson <i>[Signature]</i> | 8 Sept. '04 | ECL ENGINEERING |



RECORD OF REVISIONS

| Revision | Pages with this Issue Number | Description and Reason (& page nos. that have changes) | Prepared (name and date) | Checked (name and date) | App'd/Acc'd (Civil A/W Authority) (name and date) | Released (name and date) |
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| 0 | 1 through 11 | Original Issue (Replaces MMS) | D. Kerr 19 Dec., 2003 | C. Timmins 19 Dec., 2004 | TCCA E. Cheung 19 Dec., 2004 | R. Manson 19 Dec., 2004 |
| 1 | 1 through 15 | Changes to pages 1 to 15. General view added, details added to Inspection Schedule and Troubleshooting as per FAA request. Format revised. | D. Kerr 29 July 2004 | C. Timmins 29 July 2004 | N/A | R. Manson 4 Aug., 2004 |
| 2 | 1 through 16 | Changes to pages 1 to 16. Revised General view, Inspection Schedule and Troubleshooting as per TCCA request. | See page 1. | See page 1. | See page 1. | See page 1. |
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NOTE: Revisions to this document will be distributed to operators of this equipment by the STC holder.

NOTE: Revised portions of affected pages are identified by a vertical black line in the margin adjacent to the change.

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1. GENERAL

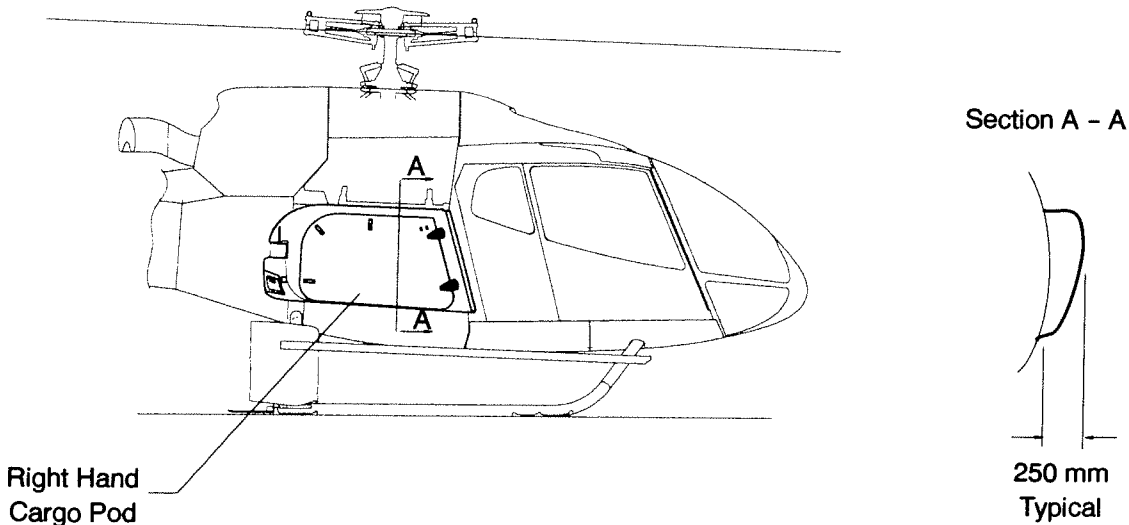
A. This installation of large, lightweight pods offers increased cargo bay capacity. For instructions for initial installation, see IP-ECL-109.

The glass fiber cargo pods installation consists of:

- 1) Cargo Pod, RH complete (130-201044)
- 2) Cargo Pod, LH complete (130-201034)

B. This Instruction for Continued Airworthiness on EC 130 B4 helicopters covers the required maintenance action for the Cargo Pod Installation LH/RH (P/N 130-201024).

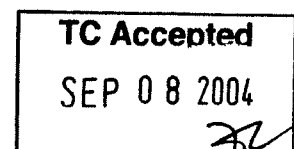
C. For weight and balance data of the Cargo Pods Installation LH/RH, see IP-ECL-109.



View showing Right Hand Cargo Pod location
(left hand side pod similar)

Figure 1 Cargo Pod Location

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1.1 REFERENCES

| DOCUMENT | DOCUMENT TITLE |
|------------|---|
| AC43.13 | Advisory Circular No. 43.13-1B |
| AMM | Aircraft Maintenance Manual |
| IPC | Illustrated Parts Catalog |
| MTC | Standard Practices Manual |
| IP-ECL-109 | Installation Procedure, Cargo Pods Installation |

1.2 LIST OF ABBREVIATIONS

| ABBREVIATIONS OR SYMBOLS | DEFINITION |
|--------------------------|---------------------------|
| EC | Eurocopter |
| ECL | Eurocopter Canada Limited |
| P/N | Part Number |
| RH | Right Hand |
| LH | Left Hand |

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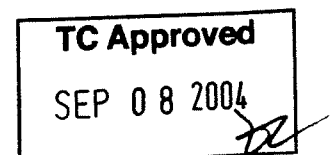
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2. AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is approved by the Minister and specifies maintenance required by any applicable airworthiness or operating rule unless an alternative program has been approved by the Minister.

No airworthiness limitations associated with this installation.

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3. CONTROL AND OPERATION

Not applicable.

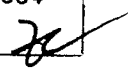
4. INSPECTION SCHEDULE AND MAINTENANCE ACTION

| NO. | INSPECTION OR MAINTENANCE WORK | INTERVAL | ACTION |
|-----|---|--|---|
| A | Visually inspect LH and RH Cargo Pods Installation for: a. general condition b. secure installation | Every 100 flight hrs or 12 months to coincide with the 100 hrs or 12 month helicopter inspection | a. Minor repairs may be accomplished in accordance with EC MTC, Volume 3, Chapter 20.03.07.101, or AC 43.13-1B, Chapter 3, Section 3.1 - 3.4. For major repairs, contact ECL or local airworthiness authority. b. Ensure screws are torqued in accordance with EC MTC, Volume 2, Chapter 20.02.05.404. |
| B | Visually inspect hinges for: a. security | Every 100 flight hrs or 12 months to coincide with the 100 hrs or 12 month helicopter inspection | a. Tighten as required. |
| C | Visually inspect seal between LH and RH cargo pods and airframe for: a. deterioration (refer to IP-ECL-109) | Every 100 flight hrs or 12 months to coincide with the 100 hrs or 12 month helicopter inspection | a. Clean area and reseal with PR1422-B2 in accordance with EC, MTC, Volume 4, Chapter 20.05.01.219. |
| D | Visually inspect placards for: a. legibility b. secure mounting (refer to Chapter 10, Placards and Markings, of this document) | Every 100 flight hrs or 12 months to coincide with the 100 hrs or 12 month helicopter inspection | a. Replace placards as required b. Secure, reattach placards as required |

Table 1 Inspection Schedule

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5. TROUBLESHOOTING

| No. | Trouble Symptom | Probable Cause | Corrective Action |
|-----|--|---|--|
| 1 | Lamp does not illuminate when door is open | Faulty Failure Warning Panel Faulty switch | Refer to AMM, Volume 1, Chapter 31-51.00, 5-1. Replace switch and test in accordance with AMM, Volume 2, Chapter 52-31.00, 5-1. Refer to IPC, Chapter 52 for part number. |

Table 2 Troubleshooting Guide

6. OVERHAUL REQUIREMENTS

No overhaul requirements for this installation.

7. SPECIAL TOOLING

Not applicable

8. REMOVAL

Proceed as follows if any of these items need to be removed.

Refer to Figure 2.

A. Door Assembly

- 1) With the cargo pod door open, disconnect strut assembly (1) from door by removing self-locking nut (2), and washer (3).
- 2) Close door assembly, latch, and remove cotter pin (23), washer (22), and hinge pin (20) (2 places).
- 3) Carefully open door latch assemblies and lift out door (4).

B. Door Latch Assemblies

- 1) With the door open and the door latches in the unlatched position, remove bolt (12) and washer (3) and remove latch cover (13).
- 2) Remove bolt (14) and remove latch assembly (5 or 6).

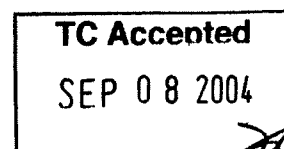
C. Latch Open Warning Switch Assembly

- 1) With the cargo pod door open, remove screws (17), washers (18), and nuts (19) (4 places) that secure the switch (7), switch cover (9), switch spring (8), and switch support (10) to the cargo pod assembly.
- 2) Remove switch.

D. Cargo Pod

- 1) Cargo Pod installation is a permanent installation.

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9. INSTALLATION

Re-install as required.

A. Door Assembly

- 1) Position the cargo pod door assembly (4) and install hinge pin (20) into door hinge (21).
- 2) Close, latch and align cargo pod door assembly. Install the washer (22) and cotter pin (23) to secure the cargo pod door assembly.
- 3) Adjust latch screw (15) and nut (16) to ensure even seal contact around perimeter of door and cargo pod flange.

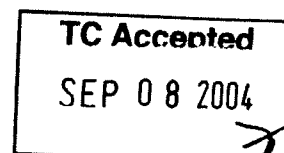
B. Door Latch Assemblies

- 1) With the cargo pod door open, position door latch assembly (5 or 6) in the latch cutout in cargo pod door assembly.
- 2) When installing a new latch, remove switch contact (11) and install on the replacement latch.
- 3) Align the latch assembly and tighten bolt (14) to secure the latch assembly in place.
- 4) Install latch cover (13) using bolt (12) and washer (3).
- 5) Tighten bolt in accordance with EC, MTC, Volume 2, Chapter 20.02.05.404.

C. Latch Open Warning Switch Assembly

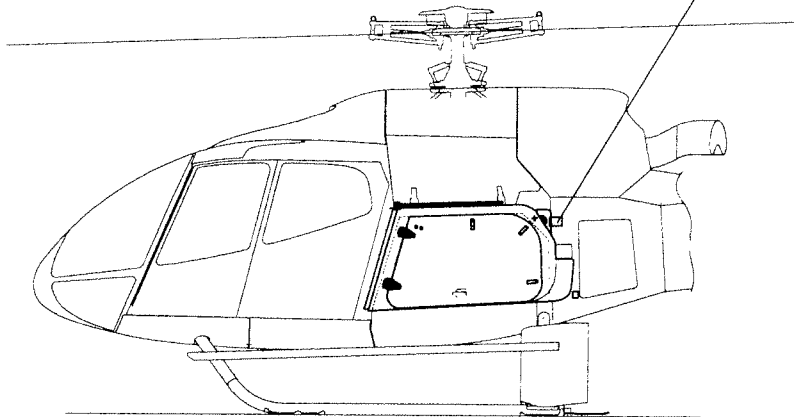
- 1) Position the switch (7) on switch support (10), and place switch spring (8) into position on backside of the switch support (10).
- 2) Install screws (17) and washers (18) (4 places), and secure switch support (10), switch spring (8) and switch cover (9) using washers (18) and self-locking nut (19).
- 3) Tighten nut in accordance with EC, MTC, Volume 2, Chapter 20.02.05.404.

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10. PLACARDS AND MARKINGS

**CARBURANT: JP1-JP5-JP8
JET A1-JET A**
FUEL : F34-F35-F43-F44
CAPACITE / CAPACITY:
142.7 U.S. GALLONS
118.9 IMP. GALLONS
540 LITRES/LITERS
427 KG

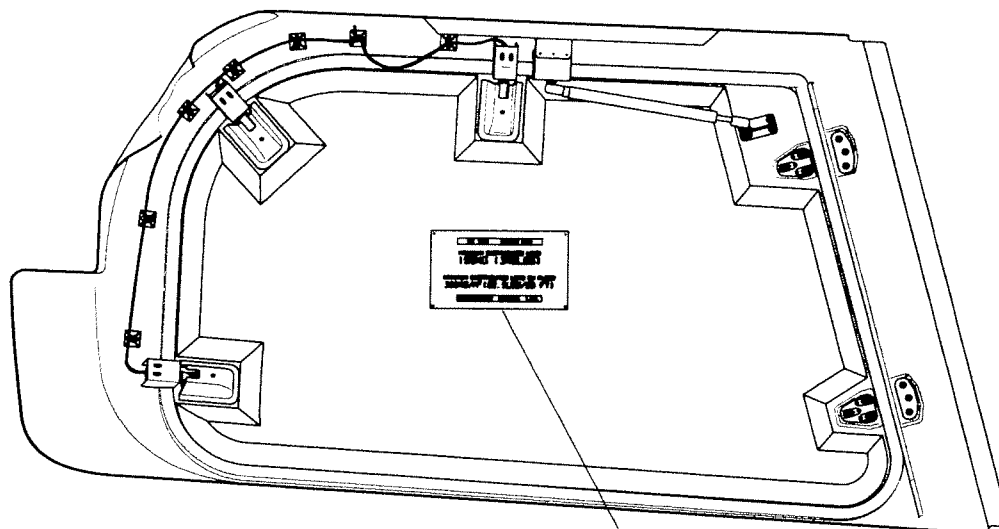


**View showing marking location
on Left Hand Side Cargo Pod**

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10. **PLACARDS AND MARKINGS** (continued)



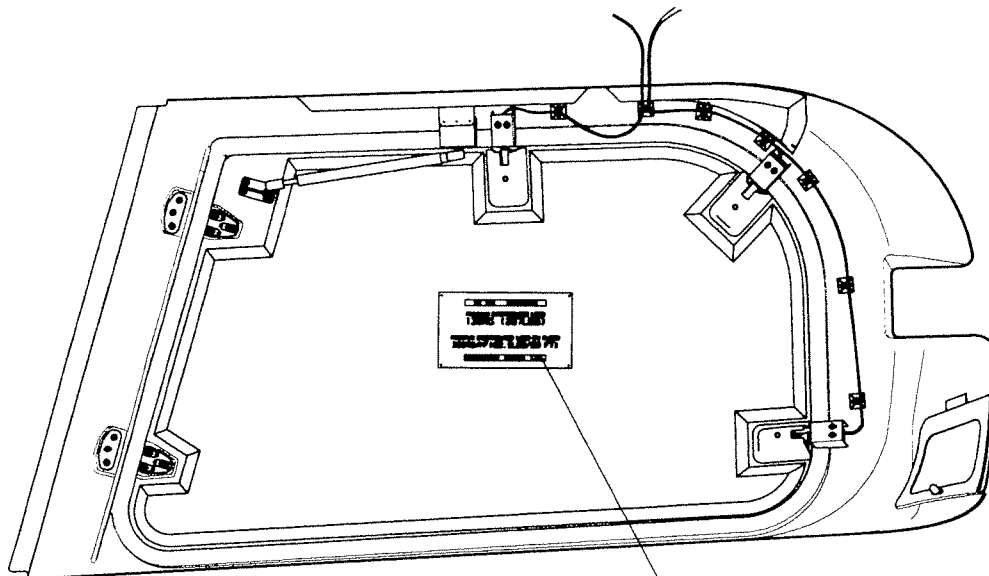
EC 130 CARGO POD
MAXIMUM DISTRIBUTED LOAD
155KG (342LBS)
MAXIMUM DISTRIBUTED LOAD ON FLOOR
300KG/M² (62.5LBS/SQ FT)
EUROCOPTER CANADA LTD.

View showing placard located
inside of Left Hand Cargo Pod

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10. **PLACARDS AND MARKINGS** (continued)

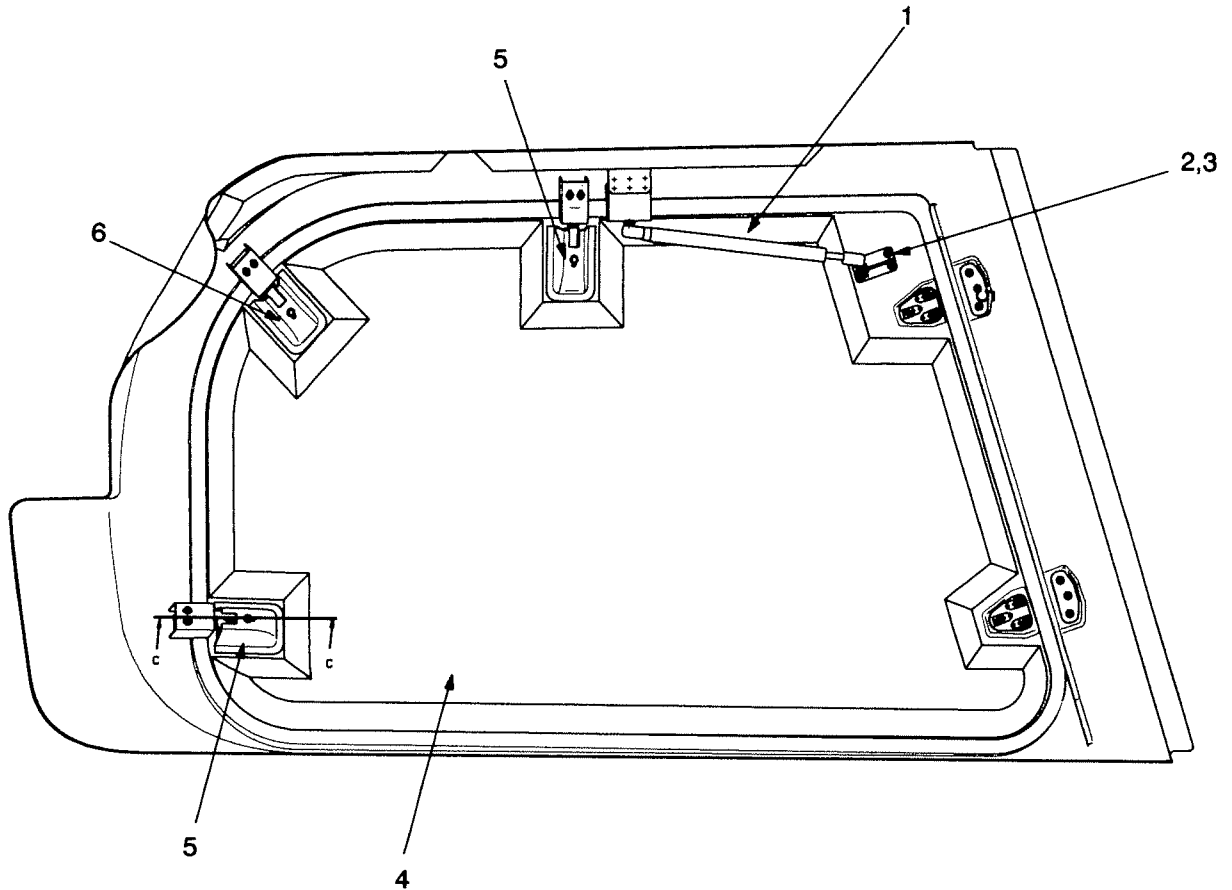


EC 130 CARGO POD
MAXIMUM DISTRIBUTED LOAD
120KG (287LBS)
MAXIMUM DISTRIBUTED LOAD ON FLOOR
300KG/M² (62.5LBS/SQ FT)
EUROCOPTER CANADA LTD.

View showing placard located
inside of Right Hand Cargo Pod

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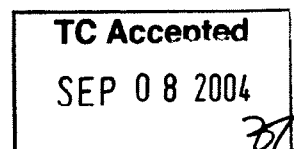
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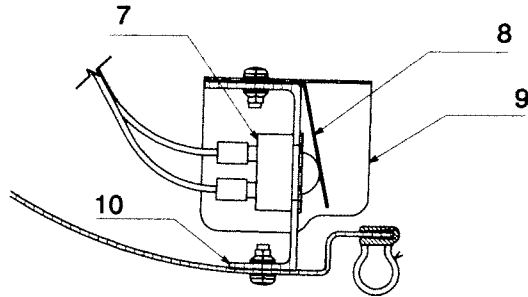


Inside view of looking outboard

Figure 2 Cargo Pod Door Assembly (Sheet 1 of 3)

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**SECTION C-C
(POD DOOR OPENED)**

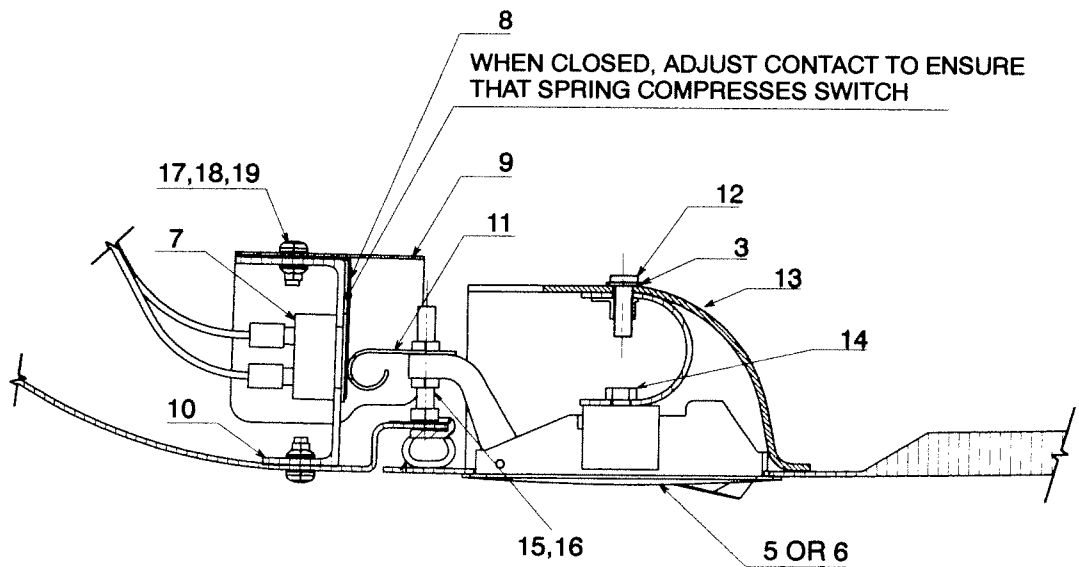
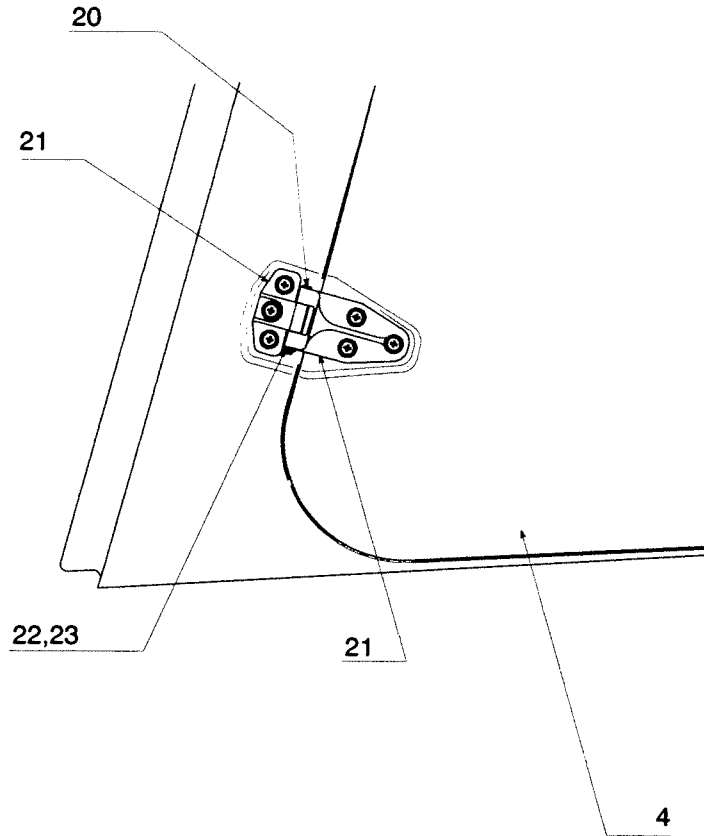


Figure 2 Cargo Pod Door Assembly (Sheet 2 of 3)

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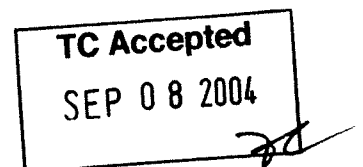
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| | | | |
|----|-----------------------------|----|------------------|
| 1 | STRUT ASSEMBLY | 13 | LATCH COVER |
| 2 | SELF-LOCKING NUT | 14 | BOLT |
| 3 | WASHER | 15 | LATCH SCREW |
| 4 | LH CARGO POD DOOR | 16 | JAMNUT |
| 5 | LATCH ASSEMBLY, NON-LOCKING | 17 | SCREW |
| 6 | LATCH ASSEMBLY, LOCKING | 18 | WASHER |
| 7 | SWITCH | 19 | SELF-LOCKING NUT |
| 8 | SWITCH SPRING | 20 | HINGE PIN |
| 9 | SWITCH COVER | 21 | HINGE |
| 10 | SWITCH SUPPORT | 22 | WASHER |
| 11 | SWITCH CONTACT | 23 | COTTER PIN |
| 12 | BOLT | | |

Figure 2 Cargo Pod Door Assembly (Sheet 3 of 3)

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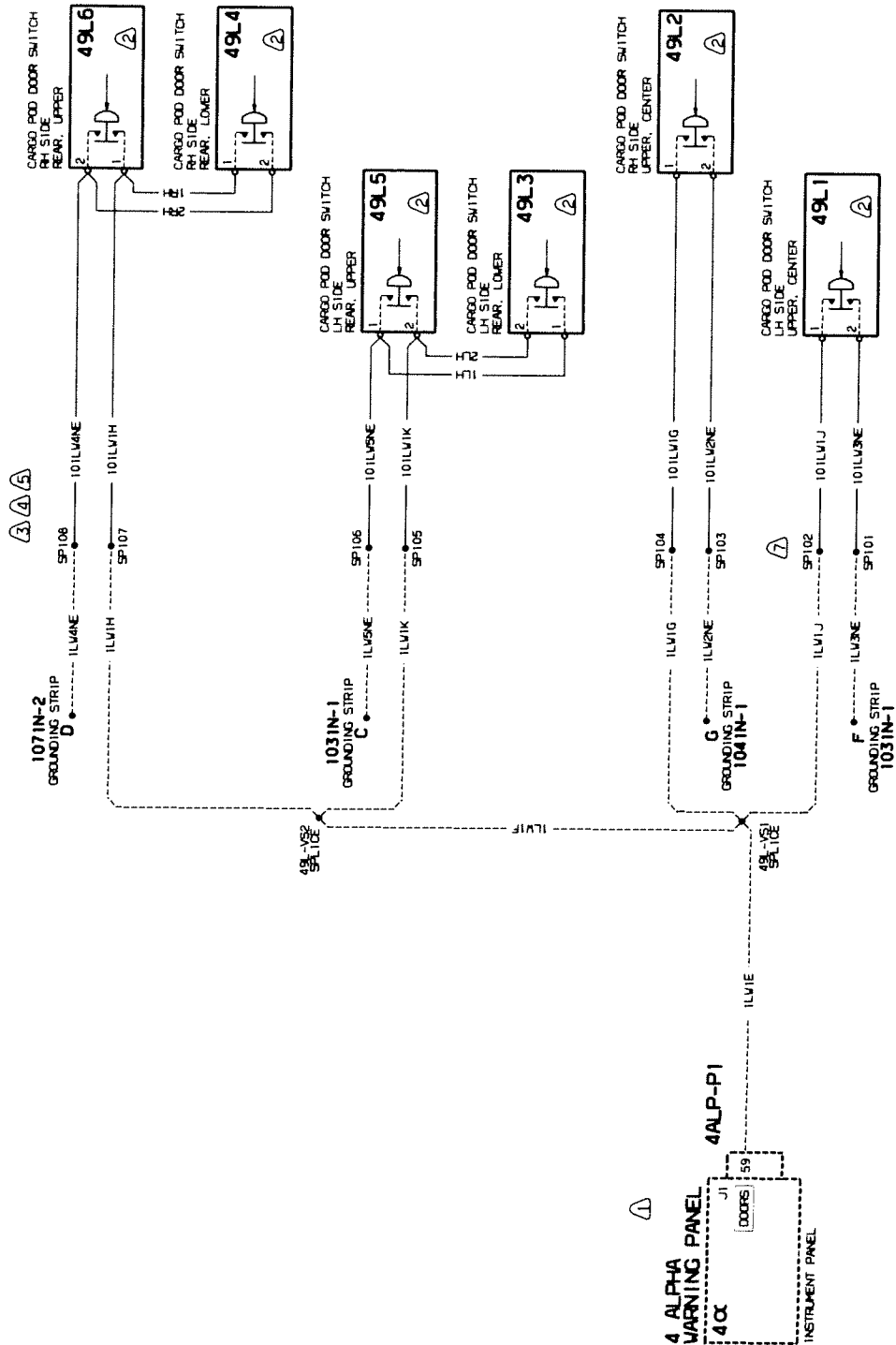


Figure 3 Cargo Pods Installation, Wiring Diagram

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