SUPPLEMENT

to

TRECOM TECHNICAL REPORT 64-3

CRASH INJURY EVALUATION
PERSONNEL RESTRAINT SYSTEM STUDY
CV-2 DeHAVILLAND CARIBOU

Contract DA 44-177-AMC-888(T)

April 1964

prepared by:

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SUPPLEMENT

to
PERSONNEL RESTRAINT SYSTEM STUDY,
CV-2 DeHAVILLAND CARIBOU

Crash Injury Evaluation
AvCIR 62-16

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<table>
<thead>
<tr>
<th>CONTENTS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-1-10 Installation of Restraint Harness</td>
<td>1</td>
</tr>
<tr>
<td>AC-1-11 Modification of Shoulder Strap (Pilot's Seat Back)</td>
<td>2</td>
</tr>
<tr>
<td>AC-1-12 Guide Rod Assembly</td>
<td>3</td>
</tr>
<tr>
<td>AC-1-13 Installation of Tie-Down Straps (Alternate 1)</td>
<td>4, 5</td>
</tr>
<tr>
<td>AC-1-14 Slide (Pilot's Seat)</td>
<td>6</td>
</tr>
<tr>
<td>AC-1-15 Modification of Pilot's and Copilot's Seat</td>
<td>7, 8</td>
</tr>
<tr>
<td>AC-1-16 Installation of Tie-Down Straps (Alternate 2)</td>
<td>9, 10</td>
</tr>
<tr>
<td>AC-1-17 Reinforcement of Floor Track (Pilot's Seat)</td>
<td>11</td>
</tr>
<tr>
<td>AC-1-18 Reinforcement of Diagonal Brace (Crew Seat)</td>
<td>12</td>
</tr>
<tr>
<td>AC-1-20 Strap Clamp Attachment (Troop Seat)</td>
<td>13</td>
</tr>
<tr>
<td>AC-1-21 Ring Bolt Safety Belt Attachment (Troop Seat)</td>
<td>14</td>
</tr>
<tr>
<td>AC-1-22 Modification of Lap Belt Attachment (Troop Seat)</td>
<td>15, 16</td>
</tr>
<tr>
<td>AC-1-23 Modification of Rail Attachment (Troop Seat)</td>
<td>17</td>
</tr>
<tr>
<td>AC-1-24 Modification of Lap Belt Attachment (Troop Seat)</td>
<td>18</td>
</tr>
<tr>
<td>AvCIR-10 Lap Belt Tie-Down Strap</td>
<td>19</td>
</tr>
<tr>
<td>AvCIR-15 Pilot's Tie-Down Strap</td>
<td>20</td>
</tr>
</tbody>
</table>
MODIFICATION -
PILOTS SEAT - AC-1
DETAILS AND SUB:
AC-1-11 SHOULDER
AC-1-12 GUIDE ROI
AC-1-13 TIE DOWN
AC-1-14 SLIDE - F
AC-1-16 SIDE TIE I

SHOULDER HARNESS
TYPE MB-2A
PART N\# 57DG77

AC-1-18, REINFORCEMENTS
AC-1-17, REINFORCEMENTS
COCKPIT FLOOR A
MODIFICATION - LAP BELT ATTACHMENT
TROOP SEATS AC-1-22
DETAILS AND SUB-ASSEMBLES REF:-
AC-1-20 STRAP
AC-1-21 RING BOLT
AC-1-24 DETAILS

REFERENCE DRAWINGS (OHANILLAND) -
C4F1035, C4F1035 C4F103G PILOTS SEAT
C4F1075 TROOP SEAT INSTALL.
C4B1450 RAIL INSTALL (TROOP COMPT)
C4B1170 BLKD STA. GO

NOTE:
- ASSEMBLES REF-
- R STRAP GUIDE
- OD ASSEMBLY
- N STRAP INSTALL (ALT *1)
PILOT SEAT
DOWN STRAPS INSTALL. (ALT *2)

SS (REF)

EXT, DIAG BRACE, CREW SEAT
EXT,
AT STA. GO BLKD
#30 (1/28) Dia. Drill
Radius Plate and Tube
Locate at Assem
4 Places
AN530C8-8 Screw

Guide Rod
55° ± 5

Seat Pan Assem
C4-F1037 (Ref.)

Section A-A
Full Size
THESE SURFACES TO BE FREE OF ALL BURRS AND SLAG.

*1G DIA. DRILL THRU. 4 PLACES
NOTES

1. AFTER -1 & -2 ARE FORMED WELD THE PIECES TOGETHER & HEAT TREAT TO THE TG CONDITION.

2. AFTER HEAT TREATING DIP ASSEMBLY IN ZINC CHROMATE PRIMER. THE PRIMER IS TO BE IN ACCORDANCE WITH SPEC. MIL-P-6889.

3. IF 5/16 TUBE IS NOT AVAILABLE, 3/8 x .040 MAY BE USED.
STRAP IS TO COME OVER FORWARD EDGE OF CUSHION.

AVCIR-15 TIE BAR

BRACKET SEE SHEET #2

EXCESS WEBBING - SEE DETAIL B

AN36SC-3 NUT

CLEVIS BOLT AN23-11A

SECTION A-A FULL SIZE

1. CEMENT CLAMPIN
2. THIS TIE TYPICAL
NOTES

DETAIL-2 TO WEBBING BEFORE INSTALLING. USE HOUSEHOLD CEMENT.

THE DOWN STRAP INSTALLATION IS SAME FOR BOTH PILOT & CO-PILOT SEAT.
NOTES

MENT DETAIL-2 TO WEBBING BEFORE AMPLING. USE HOUSEHOLD CEMENT.
S TIE DOWN STRAP INSTALLATION IS TICAL FOR BOTH PILOT & CO-PILOT SEAT.
SEE ATTACHED \( ^{50} \) LOCATION.

DEALER ASSEMBLY

THIS VIEW SHOWING:http://...

SURE TO BE?

SEAT BRACKET.
DIA. 012. TELL 3 PLACES

ALL 3 PLACES MARKED "M".
ALIGN WASHERS WITH EXISTING HOLES

SPOT WELD (HI-FREQUENCY)

-1 WASHER TO SLIDE 4 PLACES AS SHOWN

1.0

.10 STOCK

.25 x 45° 2 CORNERS

1.0 SQUARE

-1 WASHER DETAIL

OPTIONAL CONSTRUCTION

DRILL 1/4 (25G) THRU
Modification Detail B
Full Size

AC-118 (Ref.)
SEAT TUBE
C4-F-1076 (Ref.)

SURFACE EXISTING CHERRY DOTS
DRILL #1, .50 .001
ANB-144 BOLT
WAS .122-24, W.V.
1/8" ECO PER SEAT

C4-F-1071 (Ref.)

SECTION FULL SIZE

FULL SIZE

SEAT TUBE (Ref)
C4-F-2036-17

(2) SPACER

(1) CHANNEL

SEAT TUBE
WS-2143 2145 AL, REF

CUT OUT CHANNEL

do dimension shown

CHANNEL DETAIL
TAKE FROM STANDARD SECTION
ADO105-07C WTL-2014-14

(3) SPACER DETAIL

2.00
1.30
0.50

D-1-1.5

2G2

2.00
1.30
0.50

3. NET WEIGHT WITH ALTERNATE #1 2155-1.16 + 2.01-05
   NET WEIGHT WITH ALTERNATE #2 210-24 + 1.56-05
   THESE PARTS REPLACE EXISTING PARTS NO WEIGHT ADDITION
   TOTAL EXISTING WEIGHT REMOVED
   PART NO C4-F-109, PLATE C092, 4474
Modification Detail B
Full Size

Modification A
See Detail
Seat tie down straps alternate #2 AC-1-16

Modification B
See Detail
Seat tie AC-1-14

Modification C
See Detail

Section D-D
Full Size

Gusset (Ref) CAF035-43
Gusset (Ref) CAF035-8
Gusset (Ref) CAF035-8

AC-1-18 (Ref)

Seat tube CAF035-19

Replace existing Cherry Sheets DRILL #11 (0.0) "a"
AN3-44 bolt
NAG1022-03 nut
4 ea PRO per seat

Existing part #

Bolt, UN-CUT-02 # 1-3/4

See A

(-2) Spacer

Channel

Seat tube CAF035-17

Section A-A
Full Size

0.10
20

40

162

切断背起

TRUCK SLIDE EXTENSION THIS DISTANCE

Cut back of truck slide extrusion this distance

-2 Spacer Detail

Drill #11 (0.0) "a"
AN3-44 bolt
NAG1022-03 nut
4 PRO per seat

Drill thru (37) "a"

-2 Spacer Detail

Stop lug (Ref)

20 (Typ 2 Pcs)

Slide (Ref) CAF035-15

-120
45°

120
75

150
28

0.60
0.70
0.35
0.50
2.62
SEAT TUBE (REF) CAF 035-1

SECTION FULL SIZE
-ICAL SECTION WITH FASTENER

10 FASTENERS ADDED AS SHOWN
12 PER SEAT ASSEMBLY

EXISTING M6C9 BOLT AND SLEEVE NUT (REF)

LOCATION DETAIL A
FULL SIZE

LT BACK CHANNEL 5 DIMENSION SHOWN

10.75

1

3 NET WEIGHT WITH ALTERNATE #1 2.25-24 X 2.01-.05
NET WEIGHT WITH ALTERNATE #2 2.10-24 X 1.86-.05
2 THESE PARTS REPLACE EXISTING PARTS NO WEIGHT ADDITION
1 TOTAL EXISTING WEIGHT REMOVED

NOTES
- REF W3 CAF 035-4 PLATE (G301 M) # 01
- FOR C5A
MODIFICATION
FULL SIZE

PLATE - 5
EYE BOLT - 5-

SEAT RAIL ASSEM [Ref]
CABR 107
CABR 200
CABR 207
(SEC CV 300)

REPLACE RIVET 4 PLACES PER PLATE
WITH N520901AD5-4
CABR 011-12 MILL TUBE

SECT H-H DOUBLE SIZE
NEW RIVET-4 RADS
N520901AD5-4

-5 DETAIL - PLATE - DOUBLE SIZE
POURING J/12.014 PART NR CABR 035-4
2 REQ PER RIVET 1 REQ PER AIRCRAFT
MATEL

430 STEEL - 125 - 80 - 300
FINISH - ZINC CHROMATE SPRAY AFTER DRILLING
DETAIL - EYE BOLT  - 36.4

DOUBLE SIZE
REPLACING DEMAN SYSTEM PART NO. 04500072-01 EYE BOLT

MATERIAL:
- SHE 430 STEEL 1/8 x .56 - .40
- BOLT 430 STEEL 1/4 DA 300 - 175 CS

HEAT TREAT:
- 200 - 320,000 PSI
- AFTER WELDING ROCHWELL 342-05

FINISH:
- JACQUIN DURATE AFTER HEAT TREAT

SEAT NOT SHOWN

+ POE (Ref)
+BOLT (Ref)

BOLT (Ref)
FWD.

54H19651 (MD-2) or 54H19650 (MD-1) MODIFIED.
SEE SHEET 2.

C4F-1065

NOTES

1. CEMENT DETAIL-1 TO WEBBING CLAMPING. USE WEAK CEMENT.
2. LEFT SIDE OF SEAT IS SHOWN OF SEAT SAME.
3. THIS INSTALLATION IS TYPICAL & CO-PILOT SEAT.
4. THE NOTES & DIMENSIONS ON TYPICAL FOR ALL LAP BELTS TO THE AC-1 AIRCRAFT. SEE SHEET 5.
5. DACRON WEBBING TYPE II PER " .085 THICK X 1.72 WIDE MAX. WT.
6. LOCATE ALL DIMENSIONS AFTER
BEFORE DRILLING

1. DRILL 2 PLACES.

2. 35° APPROX PULL OFF.

AN970D-10L

C4F-1037 (REF.)

SPEC. MIL-W-25361, .065 -

2.10 OZ./YD. MAX.

LAP BELT IS POSITIONED TO 35° PULL OFF.
NOTES

DETAIL - 1 TO WEBBING BEFORE G. USE WEAK CEMENT.
IDE OF SEAT IS SHOWN, RIGHT HAND SIDE T.'SAME.
INSTALLATION IS TYPICAL FOR BOTH PILOT & LOT SEAT.

TES & DIMENSIONS ON THIS SHEET ARE
FOR ALL LAP BELTS THAT MAY BE USED ON
1 AIRCRAFT. SEE SHEET 2.
WEBBING TYPE II PER SPEC. MIL-W-25361, 065-
K x 1.72 WIDE MAX. WT. 2.10 OZ/YD. MAX.

ALL DIMENSIONS AFTER LAP BELT IS POSITIONED TO 35° PULL OFF.
Cushion Bottom

Strap is to come between seat bucket and cushion.

Excess webbing

ANZ3 - 12A
AN365C - 10
AVCIR - 15

Section A-A
Full Size
NOTES:

1. LEFT HAND SIDE SHOWN RIGHT HAND SIDE TO BE AS SHOWN AND SHALL
   NYLON CORD, MIL-T-780TB NO.3 SIZE TYPE I, AND SHALL CONTAIN NOT LESS THAN 6
   STITCHES PER INCH IN ACCORDANCE WITH DOD-S-751-301.

2. ENDS OF STITCHING SHALL BE BACK STITCHED.

3. STITCHING INDICATED --------.

FOLD STRAP UNDER BEFORE STITCHING.

SECTION B-B
FULL SIZE
FOLDED CORNER.

FULL SIZE VIEW OF CIRCLED AREA.
SEE NOTES 1, 2, 3, 4 & 5.

-2 REF.

54H19651 (MD-2) OR 56H19651 (MD-3)
H19650 (MD-1) REF.

**NOTES**

The hand side shown right hand side opposite. Ching is to be as shown and shall be with in cord, MIL-T-7807B NO.3 SIZE TYPE I OR II, CLASS D shall contain not less than 6 nor more than 12 stitches per inch in accordance with spec. — S-771-301.

Of stitching shall be back stitched .50 min. or ends of all webbing to prevent fraying. Ching indicated ————.
3. INDICATES NEW RIVET LOCATION PER THIS DWG (AN470CG RIVET)
2. ALL VIEWS LOOKING FORWARD EXCEPT WHERE OTHERWISE NOTED
1. EXISTING TOOLING HOLES AT BL 20-61; B-86L, 20-15 & B-86R TO BE UTILIZED FOR AN470CG RIVET

NOTES

FORWARD
STA 60

SECTION A-A
FULL SIZE LOOKING OUTBOARD AFT

ANGLE 4 REQ. PER AC

1ST CHOICE FORMED FROM SHEET
ZX CHOICE ENTRANCED SECTION
AN0134 2001
(A = 1) 125 55R

TOP OF FLOOR BEAM
FLOOR PLATE NOT SHOWN (REF)

EXISTING TOOLS HOLE (REF)
IN FLOOR BEAM

EXISTING RIVET PATTERN
ANNOTATIONS (REF)

REMOVE EXISTING RIVETS
CALL #1 (91) 6 PLACES
ANNOTATION RIVET 0 REQ

CHANNEL SECTION
(C4B TO 36 REF)

CEILING ASSEMBLY STA 30 PLAC
C4B 172 03 REF

STEP WELL (REF)
**NOTE:**

1. This drawing applies to both the pilot's seat and co-pilot's seat.
5/8 dia blind rivets (6#)

N52000404 rivets in existing rivets
on both sides (O#)

.75R. of .25 = 45° CHANFER
TYPICAL

.75R. of .25 = 45°
CHANFER, TYPICAL

APPLIED TO PILOT AT.
2. WT. OF EYE BOLT REMOVED = .029 LBS.
   WT. OF EYE BOLT AC-1-21 = .144 LBS.
   WT OF EYE BOLT C4FM1287-1 = .173 LBS.

1. ZINC CHROMATE PRIMER DIP ON REWORKED AREA

NOTE:-
DETAIL C

FULL SIZE) INDICATED BY SYMBOL

TYPICAL AND USED AT

FOLLOWING STATIONS:

1 220.5
2 245.5
3 270.5
4 295.5

DETAIL II

FULL SIZE
227 - 8
3. EXISTING WEIGHT REMOVED; PART NO. 14FC143-3
   AND 14FC143-3, 3.56 LBS = -3.56 LBS
2. PART NO. 14FM287-1 MODIFIED = -3.56 LBS
1. TOTAL EXISTING WEIGHT REMOVED = -7.16 LBS

NOTE:

SPICE TUBE SECURED TO
ONE TUBE ONLY WITH
SPRING PIN MS50048-23
4 PLACES PER AIRCRAFT

HARD EDGE OF
TUBE WITH
0.06 RADIUS

EXISTING SEAT TUBE
(C141875-13 REF.)

EXISTING GAP IN
SEAT TUBES

+0.008
BAGS DIA.
OD = OREG WALL 5/16 DIA.
FINISH SATISFACTORY
OD AFTER MACHINING
1. TOTAL EXISTING WEIGHT REMOVED = -2.46 LBS
2. PART NO CAF1875-1 MODIFIED = -168 LBS
3. EXISTING WEIGHT REMOVED, PART NO C4FC1849-3
   AND C4FC1849-1, .3 LBS + .3 PARTS = -0.78 LBS

NOTE:
Details

Detail A

Full Size Indicated by Symbol and Typical at the Following Stations:

- 100.5
- 200.5
- 300.5
- 158
- 238
- 358.5
- 408
- 240.5
- 335.5
- 165
- 255
- 360.5
- 157.5
- 268
- 365
- 180.5
- 280.5
- 375.5
- 195
- 295
- 388

Detail B

C4F1875-11 Existing Seat Tube Location Unchanged

C4F1875-11 Existing Seat Tube Location Unchanged

Safety Belt (Ref) Type W2/1...

Former Section (Ref)

C4B1450-11-12 Rail Section (Ref)

W.L. 24.5 (Ref)

NAS287A5 Anchor Nut AN426AD4 Rivet

AN5-17A Bolt 52 Req

C4FC1849-3 Clamp - Upper 52 Req per A/C

C4FC1849-1 Clamp - Lower 52 Req per A/C

C4B450 Panel (Ref)

Aircraft

R.H. Side Shown
R.H. Side Fuselage Section
3. EXISTING WEIGHT REMOVED, PART NO. C4FC1849-3 AND C4FC1849-4, .13 LBS. - G PARTS = -0.78 LBS.
2. PART NO. C4FG1287-1 MODIFIED = -1.68 LBS
1. TOTAL EXISTING WEIGHT REMOVED = -2.46 LBS

NOTE:
DETAIL C

NOTE THIS TIE NOT TO BE USED ON LH SIDE OF AIRCRAFT

SECTION B-B
FULL SIZE

AC-1-24-3

FORMER ASSEMBLY (REF)

RAIL C4B450-1C (REF)

STRAP FWD C4B450-33 (REF)

BEARING BLOCK 1 REQ
AC-1-24-3

REPLACE EXISTING AN470AD4 RIVET
AN5-6A BOLT
NAS670-A5 NUT
AN530 - PD10 WASHER
1 REQ EA

REPLACE EXISTING AN470AD4 RIVET
AN5-6A BOLT
NAS670-A5 NUT
AC-1-24-4 BEARING BLOCK
1 REQ EA

C4D1850 PANEL B
C4D450 PANEL (REF)

RIB C4B450 (REF)

FORMER ASSEMBLY C4B1012 (REF)

SECTION A-A
FULL SIZE - LOOKING AFT
TYPICAL AT FS SHOWN L & R
EXCEPT FS 83 L & R ND FS 295 L
VIEW LOOKING OUTBOARD
R.H. SIDE OF AIRCRAFT
SCALE: 1/10
L.H. SIDE IDENTICAL EXCEPT AS NOTED

FWD SIDE OF STA 03 BULD CAB403 (REF)
CORRUGATED SECTION (REF)

SECTION D-D
THRU 6 & OF TIE
FULL SIZE

REPLACE EXISTING RIVET WITH
AN5-7 A. BOLT (1)
NASG79 - A3 NUT (1)
ANBSO PDD WASH. (2)
THRU RAIL STRAP SPACER
BLOCK AND ANGLE

CORRUGATED
SECTION (REF)

FWD STRAP
CAB1450-59 (REF)

RAIL SECTION
CAB4511-12 (REF)

RIB AT STA 03 BULD
CAB450-13-14 (REF)

DETAL C
RAIL-TIE AT STA 03
FULL SIZE

VIEW LOOKING FWD RH SIDE AT STA 03

NOTE: USE ADDITIONAL SAMS IF NECESSARY.
A * NOTE THIS TIE NOT TO BE USED ON L.H SIDE OF AIRCRAFT

VIEW LOOKING OUTBOARD
R.H. SIDE OF AIRCRAFT

SCALE: 1/10
L.H. SIDE IDENTICAL EXCEPT AS NOTED

RAIL CAB 450-12 (REF)

STRAP FWD CAB 450-39 (REF)

BEARING BLOCK 1 REQ
AC-1-24-3

REPLACE EXISTING AN 470AD4 RIVET
AN 3-6A BOLT
NASG79-AS NUT
AN 530-PD SO WASHERS 1 REQ EA.

REPLACE EXISTING AN 470AD4 RIVET
AN 5-7A BOLT
NASG79-AS NUT
AC-1-24-4 BEARING BLOCK 1 REQ EA.

CAB 450 PANEL B
CAB 450 PANEL (REF)

RIB CAB 450-15-G (REF)

ON A-A
SIZE LOADING AFT
AT F.S. SHOWN L & R
F.S. 85 L & R AND F.S. 295 L

RAIL TIE AT STA 95
FULL SIZE

VIEW LOOKING FWD
SECTION D-D
THRU & OF THE
FULL SIZE

CHANNEL SECTION
CABO03-71-72(REF)

OUTSIDE CONTOUR OF
FUSELAGE AT STA 93(REF)

AN3-3A BOLT (2)
NASG79-A3 NUT (2)

ANGLE
AC-1-24-1

SPACER BLOCK
AC-1-24-2
NOTE: USE ADDITIONAL SPACERS IF NECESSARY

W/D RH SIDE AT STA 93
-2 Spacer Block

Drill thru 3/16 (0.187) diameter hole

Hole

.040

0.80

.20

.28

.06

.08

.08

.68

.34

.62 (stock)

1/4 (stock)

Drill 40 (.060) diameter 2 holes

Min. bend radius

1.62

.56

.32

.34

.68

Angle

-1
NOTES:

1. BREAK ALL SHARP EDGES ON FINISHING BAR STOCK .02 RADIUS

-3 BEARING BLOCK

-4 SAME AS -3 EXCEPT AS NOTED

DRILL THRU 3/16 (.187) DIA.

.08 R. OR CHAMFER

1/4 (STOCK)
Drill thru 3/16 (187) Dia.
1 hole
Same as -3 except as noted
-4 Bearing Block

Notes:
1. Break all sharp edges on finished bar stock .02 radius
5. DACRON WEBBING TYPE II PER SPEC. MIL-W-25361 .065-.085 THICK X 1.72 WIDE MAX.
   WT. 2.10 OZ./YD. MAX.
4. STITCHING SHALL BE WITH NYLON CORD, MIL-T-7807 NO. 3 SIZE TYPE I OR II, CLASS I, AND SHALL CON
   NOT LESS THAN 6 NOR MORE THAN 8 STITCHES PER
   IN ACCORDANCE WITH SPEC. DDD-S-751 TYPE 301
3. ENDS OF STITCHING SHALL BE BACK STITCHED 0.5 IN. MAX
2. SEAR ENDS OF ALL WEBBING TO PREVENT FRAYING
1. STITCHING INDICATED BY DOTTED LINES

NOTES:
<table>
<thead>
<tr>
<th>AIRCRAFT</th>
<th>&quot;L&quot; DIM.</th>
<th>NEXT ASSEMBLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HC-1</td>
<td>18.1</td>
<td>HC-1-14</td>
</tr>
<tr>
<td>HU-1</td>
<td>16.5</td>
<td>HU-1-11</td>
</tr>
<tr>
<td>AC-1</td>
<td>20.8</td>
<td>AC-1-10</td>
</tr>
</tbody>
</table>

BBING

SEE NOTE #3
1. Break sharp edges .02 R.

NOTE:-

DRILL THRU 3/16 DIA.
2 HOLES

3/16 STOCK

.31
.62

.25
1.94
2.44