

TDC-3

Supplemental Type Certificate

Number ST00372DE

This certificate, issued to

Missoula Technology & Development Center
USDA Forest Service
Ft. Missoula, Building #1
Missoula, Montana 59801

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 4B of the Civil Aviation Regulations.

Original Product—Type Certificate Number:

A-669

Make:

McDonnell Douglas

Model:

DC-3

Description of the Type Design Change:

Installation of smokejumper equipment (Primary Cable Anchor Assembly, Horizontal Tether Anchor Assembly, Cargo Floor Anchor Assembly, Jump Door Handrail, and Communication Guard Assembly) in accordance with Master Drawing List TDC-3, Rev. B, dated February 4, 1999 or later FAA approved revision.

Limitations and Conditions:

1. STC SA4840NM must be installed on aircraft prior to this modification.
2. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the interrelationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft.
3. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.
4. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: April 28, 1998

Date reissued:

February 4, 1999

Date amended:

By direction of the Administrator
Ronald F. May

Ronald F. May (Signature) Manager
Northwest Mountain Region
Denver Aircraft Certification Office
(Title)



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



U.S. Department
of Transportation
**Federal Aviation
Administration**

TRANSPORT AIRPLANE DIRECTORATE
Denver Aircraft Certification Office
26805 E. 68th Avenue., Room 214
Denver, Colorado 80249
Phone: (303) 342-1080 Fax: (303) 342-1088

February 4, 1999

Mr. Dick Karsky
Missoula Technology & Development Center
USDA Forest Service
Ft. Missoula, Building #1
Missoula, Montana 59801

Ref. Supplemental Type Certificate (STC) No. ST00372DE
Project No. ST1567DE-T

Dear Mr. Karsky:

We have completed our evaluation of your Supplemental Type Certificate (STC) project and find that you have satisfactorily demonstrated compliance with the applicable certification regulations. Accordingly, we have enclosed your STC No. ST00372DE, dated February 4, 1999, which indicates our approval for the installation of smokejumper equipment (Primary Cable Anchor Assembly, Horizontal Tether Anchor Assembly, Cargo Floor Anchor Assembly, Jump Door Handrail, and Communication Guard Assembly) on McDonnell Douglas DC-3 aircraft.

This STC is official Federal Aviation Administration (FAA) approval of your installation and may be used to authorize identical installations on other aircraft of the same model, subject to the limitations noted on the certificate. It may be transferred or otherwise made available to another party by means of a licensee arrangement in accordance with Federal Aviation Regulations (FAR) 21.47. If you grant licensee rights or transfer of the STC, you are requested to advise your local FAA office within 30 days in order that we may take the necessary recording or reissuance action.

In accordance with Federal Aviation Regulation (FAR) 21.3, and as a recipient of this certificate, you are required to report any failure, malfunction, or defect, except as provided in FAR 21.3(d), in any product or part manufactured by you or your contracted suppliers, and which you have determined has resulted or could result in any occurrences listed in FAR 21.3(c). The report should be communicated initially by telephone to the Manager, Denver Aircraft Certification Office, telephone no: (303) 342-1080, within 24 hours after it has been determined a failure has occurred and followed up with a written notice to the address shown above. FAA form 8010-4 Malfunction or Defect Report, or other appropriate format is acceptable in transmitting the required details.

"Expect Excellence"

If you plan to manufacture replacement or modification parts for sale in conformance with approved data listed on the Certificate, you are required to comply with FAR 21.303. A Parts Manufacturer Approval (PMA) may be issued under the provisions of FAR 21.303(d) when you submit a statement certifying you have established the fabrication inspection system as required by FAR 21.303(h). The identification requirements for parts produced under a PMA are in FAR 45.15. Your statement may be in letter form, with reference to STC ST00372DE, and should be addressed to the address indicated below.

Federal Aviation Administration
Seattle Manufacturing Inspection District Office, ANM-108S
2500 E. Valley Road, Ste. C2
Renton, WA 98055

You, as the STC holder, are responsible for any design changes necessary to correct unsafe conditions as well as for submitting those design changes to this office for approval. This requirement is contained in FAR 21.99. In addition, you are required to advise this office of any change of address or ownership.

Also, FAR 21.50 requires that maintenance procedures for continued airworthiness, as applicable to this change in type design, be made available to the operator at the time the aircraft is returned to service.

By accepting this certificate, you acknowledge that you have read and understand your responsibilities as an STC holder.

Sincerely,



Ronald F. May
Manager, Denver Aircraft Certification Office

Enclosure(s)

Accessories Required For Smokejumping:

Primary Overhead Anchor

Cable:

MTDC-884 - Horizontal Anchor Assembly, Primary
Strength: 2,000 pounds
STC#: ST00372DE

Secondary Overhead Anchor

Cable:

Basler Turbo Conversions* dwg #5130 (15 sheets)
Strength: 750 pounds
STC#: ST00372DE

*Basler Turbo Conversions Inc.

P.O. Box 2305
Oshkosh, WI 54903-2305
(414)-236-7820

Cargo Floor Mount Anchor

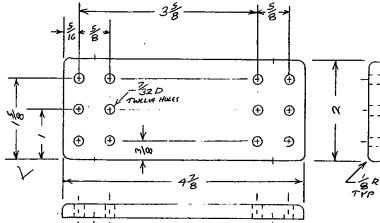
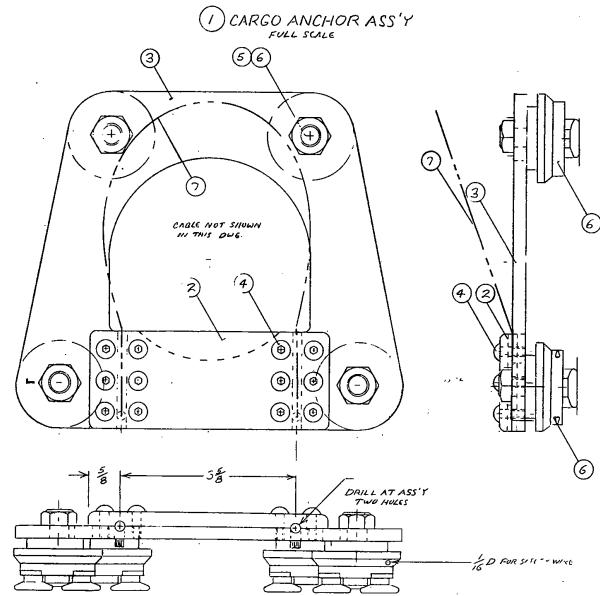
Cable:

MTDC-883 - Cargo Anchor Assembly Floor: DC-3
Strength: 750 pounds
STC#: ST00372DE

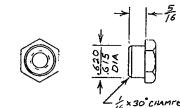
Handrails:

MTDC-885 - Handrail & Communication Box Guard

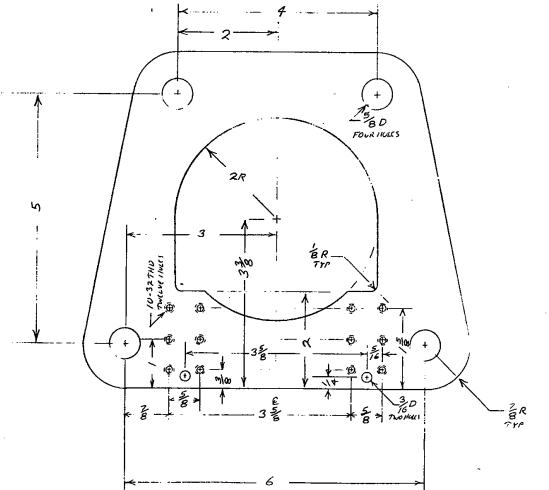
MATERIALS LIST				
NO.	PART NAME	REQD.	MATERIAL-DESCRIPTION	SHEET
1	CARGO ANCHOR	1	PARTS 2 thru 7	
2	ASSEMBLY	1	1/2" 7075-T6 PLATE ALUMINUM	
3	ARM PLATE	1	1/2" 7075-T6 PLATE ALUMINUM	
4	CAP SCREWS	12	10-32X3/8" BSC BUTTON HEAD SOCKET CAP SCREWS	
5	TRACK LUGS	4	1/2"-14 AUTOMOTIVE LUG NUT W/ 5/8" FLAT WASHER	
6	TRACK CITTCHES	4		
7	CABLE	18"	3/16" STAINLESS, AIRCRAFT	



(2) CLAMP PLATE
FULL SCALE



5 TRACK NUT
FULL SCALE



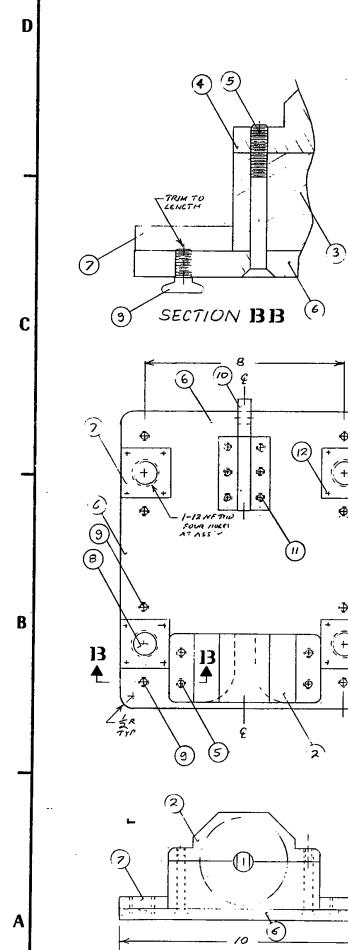
(3) BASE PLATE
FULL SCALE

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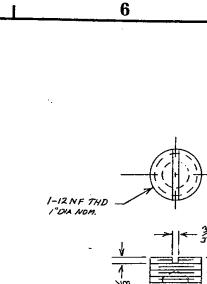
UNLESS OTHERWISE SPECIFIED		DATE	REVISION	BY
TOLERANCES:	FRACTIONS \pm DECIMALS \pm ANGLES \pm	U.S. DEPT. OF AGRICULTURE FOREST SERVICE		
DIMENSIONS ARE IN INCHES <small>(BEAR SHAPED CODES)</small>	TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA			
DRAWN BY <u>KIRBY</u>	DESIGNED <u>MISSOURI AFD</u>	TITLE		
APPROVED <u> </u>	SCALE <u>1/4"</u>	<u>CARGO ANCHOR ASSEMBLY</u>		
DATE <u>3/12</u>		<u>FLOOR - DC-3</u>		
		SHEET <u>1</u> OF <u>1</u>	MTDC-883	

8

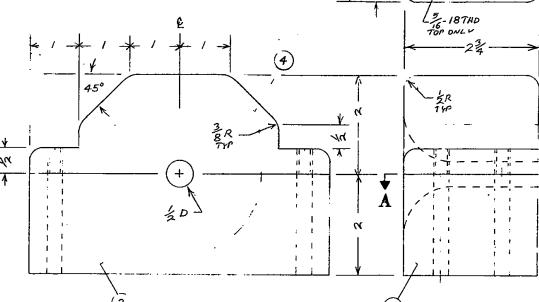
BHGBA 40219-13



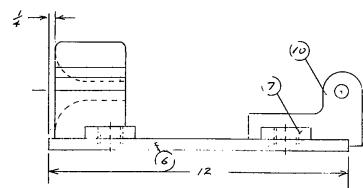
1 AFT ANCHOR PLATE ASS'Y
HALF SCALE
TRACK FITTINGS AND STOP LUGS NOT
SHOWN FOR CLARITY



⑧ STOP LOCK
FULL SCALE

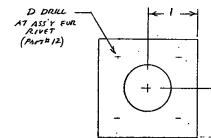


② CABLE GUIDE
FULL SCALE



SECTION A A

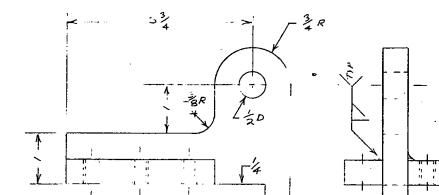
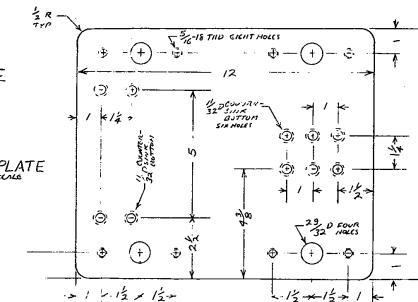
1 3



⑦ LOCK PLATE



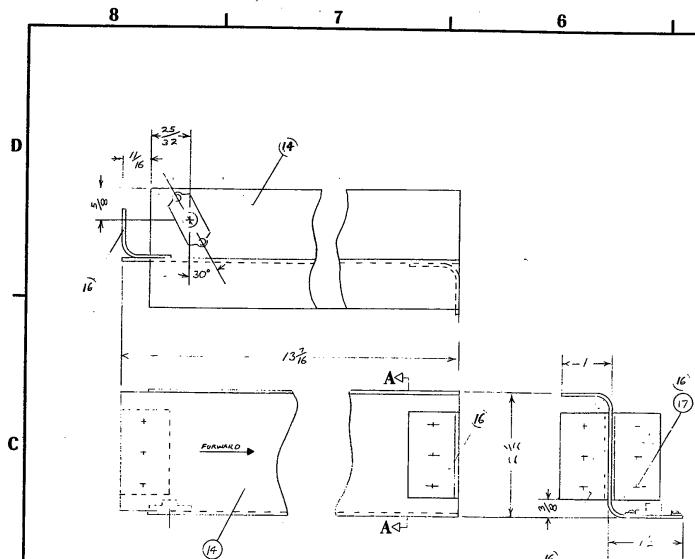
⑥ BASE PLATE



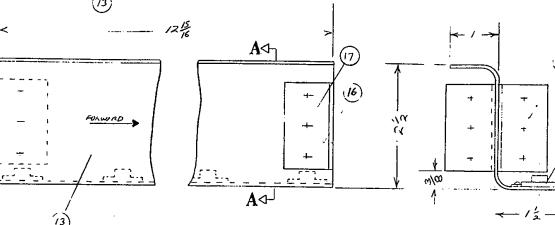
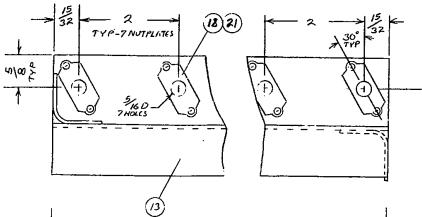
ANCHOR
EACH SIDE

WILCOX CONTINUOUS MACHINERY		DATE	REVISION	BY
FRACTIONS $\frac{1}{2}$ DECIMALS .5 ANGLES DIMENSIONS IN INCHES <small>BREAK SHAPES EQUAL</small>		U.S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA		
DRAWN	DESIGNED	TITLE		
CHECKED	APPROVED	<small>-Preliminary Draft-</small> AFT ANCHOR PLATE ASSY - DC-3		
SCALE	DATE	SHEET <u>1</u> OF <u>1</u> MTDC-884		

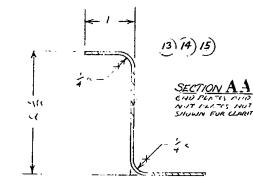
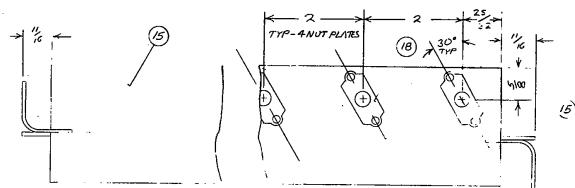
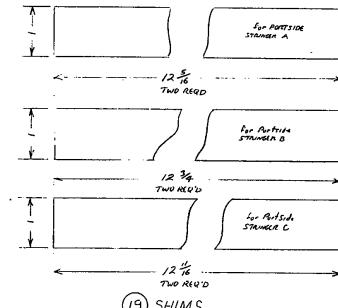
MATERIALS LIST			
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13	STRANGER PLATE A	2	.063 2024-T3 ALUMINUM PLATE
14	STRANGER PLATE B	2	" " "
15	STRANGER PLATE C	2	" " "
16	END PLATE	2	" " "
17	RIVET	72	" " "
18	NUF PLATE	22	MS 21078-6
19	SHIPS	6	.100 2024-T3 ALUMINUM PLATE
20	SEAT TRACK	36'	SERIES L-20020-2 TRACK
21	RIVET	44	" " "
22	SCREW	9	1/4-28 X 1/2" MS 264 08-200 (MATERIAL #401R1)



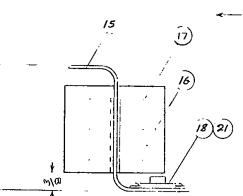
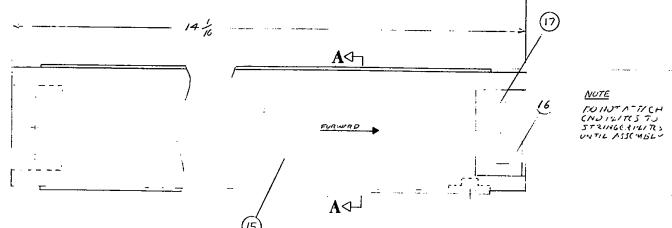
STRINGER PLATE BASSY DETAIL



STRINGER PLATE A ASS'Y DETAIL
FULL SCALE
USE B.C.W.E. STA # 4700 E 402



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STRINGER PLATE CASS'Y DETAIL
FULL SCALE
USE ACTUAL SIZES

UNLESS OTHERWISE SPECIFIED	DATE	REVISION	BY
TOLERANCES: PARALLELISM ± DECIMALS ± ANGLES ± DIMENSIONS ARE IN INCHES SPEC. SHARP EDGES	U.S. DEPT. OF AGRICULTURE FOREST SERVICE TECHNOLOGY & DEVELOPMENT CENTER MISSOULA, MONTANA		
DRAWN	TITLE		
DESIGNED	HORIZONTAL ANCHOR CARL ASS'Y		
CHECKED	BASLER TURBO-67 (DC-3 CONV.)		
APPROVED			
SCALE			
DATE	SHEET <u>2</u> OF <u>4</u> MTDC-884		

