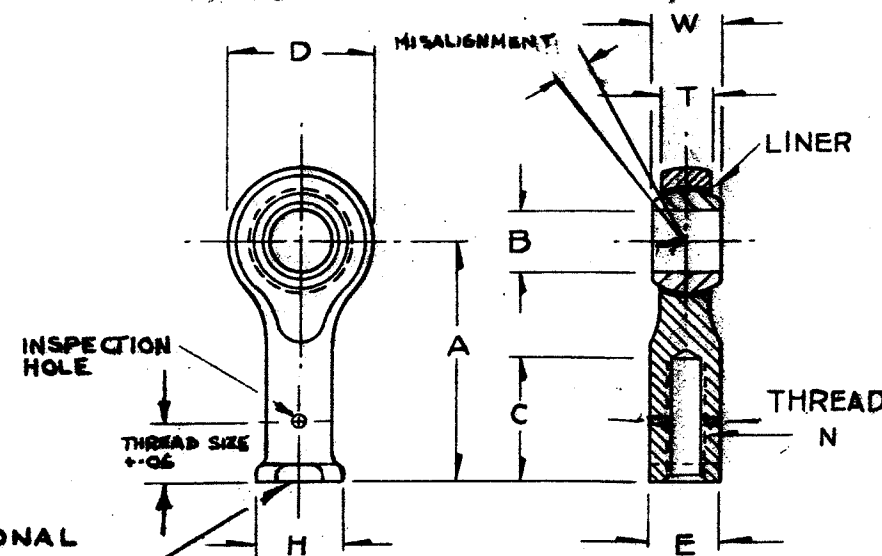


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THE DE HAVILLAND AIRCRAFT OF CANADA LIMITED

REPORT ALL DRAWING ERRORS TO ENGINEERING

REVISIONS

PART	MATERIAL
BALL	STEEL — HARD CHROME PLATED — OR — STAINLESS STEEL
HOUSING	STAINLESS STEEL
LINER	CLOTH OR SINTERED BRONZE IMPREGNATED WITH TEFLON
RACE	STAINLESS STEEL



THIS AREA MAY BE HEXAGONAL
OR MAY HAVE WRENCHING FLATS

PART NUMBER	N	A	B	C	D	E	H	T	W	MISA- LIGN- MENT	RADIAL LOAD ULTIMATE	STATIC AXIAL LIMIT LOAD
	UNF 3B THREAD	+060 -060	+0000 -0005	+000 -090	MAX	+010 -010	NOM	+005 -005	+000 -005	MAX	DYNAMIC	STATIC
DSC 7-4	1/4-28	1.312	.2500	.750	.875	.375	.437	.281	.375	14°	3700	6000
DSC 7-5	5/16-24	1.375	.3125	.750	.906	.437	.500	.344	.437	12°	6000	9300
DSC 7-6	3/8-24	1.625	.3750	.937	1.062	.562	.625	.406	.500	11°	8100	13250
DSC 7-7	7/16-20	1.812	.4375	1.062	1.125	.625	.750	.437	.562	12°	10200	15700
DSC 7-8	1/2-20	2.125	.5000	1.187	1.312	.750	.875	.500	.625	11°	12900	22400
DSC 7-10	5/8-18	2.500	.6250	1.500	1.500	.875	.937	.562	.750	13°	17700	27000
DSC 7-12	3/4-16	2.875	.7500	1.750	1.750	1.000	1.062	.687	.875	11°	25500	41000

CHANGE	ITEM NO.	DESCRIPTION	DATE	DRAWN	CHECKED	STRESS	APPROVED
C		REDRAWN. "LIMIT" CHANGE TO "ULTIMATE". MATERIAL AND NOTES REGARDING "SALT WATER" WERE DELETED. RADIAL LOADS REVISED. AT DSC 7-4 DIM "D" WAS .750. 3-PIECE BEARINGS ACCEPTABLE. DSC 7-6 "D" WAS 1.000	19 JUL 1966 SFG		SHRATNER		
D		DSC 7-5 "D" DIM. WAS .875	17 MAY 67				
E		INSPECTION HOLE SHOWN ON DSC DRAW.	23 JUN 67				
F		STEEL OPTION FOR BALL DELETED - RALEIGH. ADD	28 JUN 67				
G		STATIC AXIAL LIMIT LOAD COLUMN & NOTE 6 ADDED. NOTE 1 DELETED IN PART	14 APR 83				
H		VENDOR'S NAME & ADDRESS CHANGED (ON SHT 2)	23 OCT 68 ED				

NOTES

1. MIN AXIAL LOAD TO BE 10% OF THE ULT RADIAL STATIC LOAD. —
ULT RADIAL STATIC LOAD — CATASTROPHIC FAILURE.
2. THE BEARING BALL MUST BE MOVEABLE WITH THE FINGERS THROUGH THE MISALIGNMENT ANGLE.
3. LINER HAS TO BE POSITIVELY RETAINED.
4. THREE PIECE BEARING CONSTRUCTION IS ACCEPTABLE IF THE BEARING IS RETAINED POSITIVELY BY AN ANNULAR SWAGING METHOD IN THE BANJO HOUSING.
5. MAXIMUM RADIAL CLEARANCE IS .0008.
6. MAXIMUM AXIAL CLEARANCE IS .005

NUMBERING OF PARTS

IF A LEFT HAND THREAD IS REQUIRED, ADD LETTER "L" AS A PREFIX TO THE BASIC DASH NUMBER.
EXAMPLE: DSC 7-L5

▶ AVAILABLE IN DHC STOCK.

SOURCE CONTROL DRAWING

ONLY THE ITEM(S) LISTED ON THIS DRAWING AND IDENTIFIED BY VENDOR'S NAME(S), ADDRESS(ES) AND PART NUMBER(S) HAVE BEEN APPROVED BY THE DE HAVILLAND AIRCRAFT OF CANADA LIMITED FOR THE USE IN DHC AIRCRAFT. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR APPROVAL BY THE DE HAVILLAND AIRCRAFT OF CANADA LTD.

MOD NO.		THE DE HAVILLAND AIRCRAFT OF CANADA LIMITED DOWNSVIEW ONTARIO			
DRAWN	SFGUNG JUL 66	DRAWING TITLE			
CHECKED		BEARING, ROD END			
APPROVED		INTERNALLY THREADED, SELF ALIGNING SPHERICAL HEAVY DUTY			
STRESS					
		CODE IDENT NO.	DWG SIZE	DRAWING NO.	RELEASE
		71867	B	DSC 7	H
		SCALE	WGT. CALC	ACTUAL	SHEET 1 OF 2

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REPORT ALL DRAWING ERRORS TO ENGINEERING

THE PROCUREMENT DEPT SHALL SPECIFY THE DSC AND THE MANUFACTURERS PART NUMBER ON THE PURCHASE ORDER.

⑥ THESE PART NUMBERS INACTIVE FOR FUTURE ORDER

⑦. SPECLINE - 11185 TUXFORD ST, SUN VALLEY, CALIF. 91352, U.S.A.

PART NO	ASTRO DU LINED	ASTRO TFE LINED	ASTRO TFE LINED	HEIM	TORCO	KAHR	TRANSPORT DYNAMICS	HEIM	HEIM CORPORATION TFE LINED	HEIM	HEIM
DSC 7-4	ARM-4-53	ATN-4-53	NHNDE 4	HFLV-4DE	TP4SL	KBN 4-83		HFR-4DE	ART 4-12	FSSRR-4DE	FSSE-4DE
5	ARM-5-5	ATN-5-52	NHNDE 5	HFLV-5DE	TP5SL	KBN 5-83		-5DE	ART 5-12	FSSRR-5DE	FSSE-5DE
6	ARB-6-53	ATN-6-52	NHNDE 6	HFLV-6DE	TP6SL	KBN 6-83		-6DE	ART 6-12	FSSRR-6DE	FSSE-6DE
7	ARB-7-5	ATN-7-52	NHNDE 7	HFLV-7DE	TP7SL	KBN 7-83	77444-07	-7DE	ART 7-12		
8	ARM-8-5	ATN-8-52	NHNDE 8	HFLV-8DE	TP8SL	KBN 8-83	77444-08	-8DE	ART 8-12		
10	ARB-10-5	ATN-10-52	NHNDE 10	HFLV-10DE	TP10SL	KBN 10-83	77444-10	-10DE	ART 10-12		
DSC 7-12	ARB-12-5	ATN-12-52	NHNDE 12	HFLV-12DE	TP12SL	KBN 12-83	77444-12	HFR-12DE	ART 12-12		

NOTE: IF A LEFT HAND THREAD IS REQUIRED ADD 'L' TO THE

VENDOR PART NUMBER AS SHOWN:

SPECLINE: PREFIX 53 IN PART NO 12 53E04-308

ASTRO - ARML, ARBL, ATNL, NHNDEL

HEIM - HFLV, HFLR

KAHR - KBNL

TORCO - TPL

⑥ TRANSPORT DYNAMICS - CHANGE 1ST DIGIT FROM 7 TO 6 ie 677444-10

⑥ NMB - ARTL

VENDOR'S ADDRESSES

1. ASTRO DIV. NEW HAMPSHIRE BALL BEARINGS INC, 155 LEXINGTON DR. LACONIA N.H. 03246

2. SARGENT INDUSTRIES, KAHR BEARING DIV, 3010 N. SAN FERNANDO BLVD
BURBANK, CALIFORNIA 91503

3. LEAR SIEGLER, TRANSPORT DYNAMICS DIV, 3131 WEST SEGERSTRON AVE
SANTA ANA, CALIFORNIA 92702

4. HEIM BEARING CO, 60 ROUNDHILL RD, FAIRFIELD, CONNECTICUT

5. TORCO - OUT OF BUSINESS, REF ONLY

SOURCE CONTROL DRAWING

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REVISIONS

REV	DATE	DESCRIPTION	BY	CHKD	APPD
G	26 9 90	HEIM & SPECLINE PART NUMBERS ADDED	PK	PK	PK
H	23 10 90	ASTRO PART NOS & NOTE ⑥ ADDED	PK	PK	PK
J	23 OCT 90	VENDOR'S ADDRESS NO. 8 CHANGED. VENDOR'S NAME MODIFIED ON NOTE & TABLE.	ED	ED	ED

PART NUMBER	⑥ SPECLINE	⑦ ASTRO
DSC 7-4	51E04-308	ADNDE4
5	51E05-308	ADNDE5
6	51E06-308	ADNDE6
7	51E07-308	ADNDE7
8	51E08-308	ADNDE8
10	51E10-308	ADNDE10
DSC 7-12	51E12-308	ADNDE12

6. NMB/MINEBEA CO. LTD., ROD END MANUFACTURING DIVISION, 4106-73 OAZA MIYOTA, MIYOTA MACHI, KITASAKI-GUN, NAGANO-KEN, 387-0293, JAPAN

DRAWN	S F GUNG
CHECKED	
STD. M&P	
STRESS	
CH. DRAFT	
DATE	
THE DE HAVILLAND AIRCRAFT OF CANADA LIMITED DOWNSVIEW ONTARIO	
DRAWING TITLE BEARING, ROD END	
INTERNALLY THREADED, SELF ALIGNING SPHERICAL, HEAVY DUTY	
CODE IDENT NO.	DWG SIZE
71867	
DRAWING NO.	RELEASE
DSC 7	J
SCALE	WGT. CMC
	ACTUAL
SHEET 2 OF 2	