

2001-2002

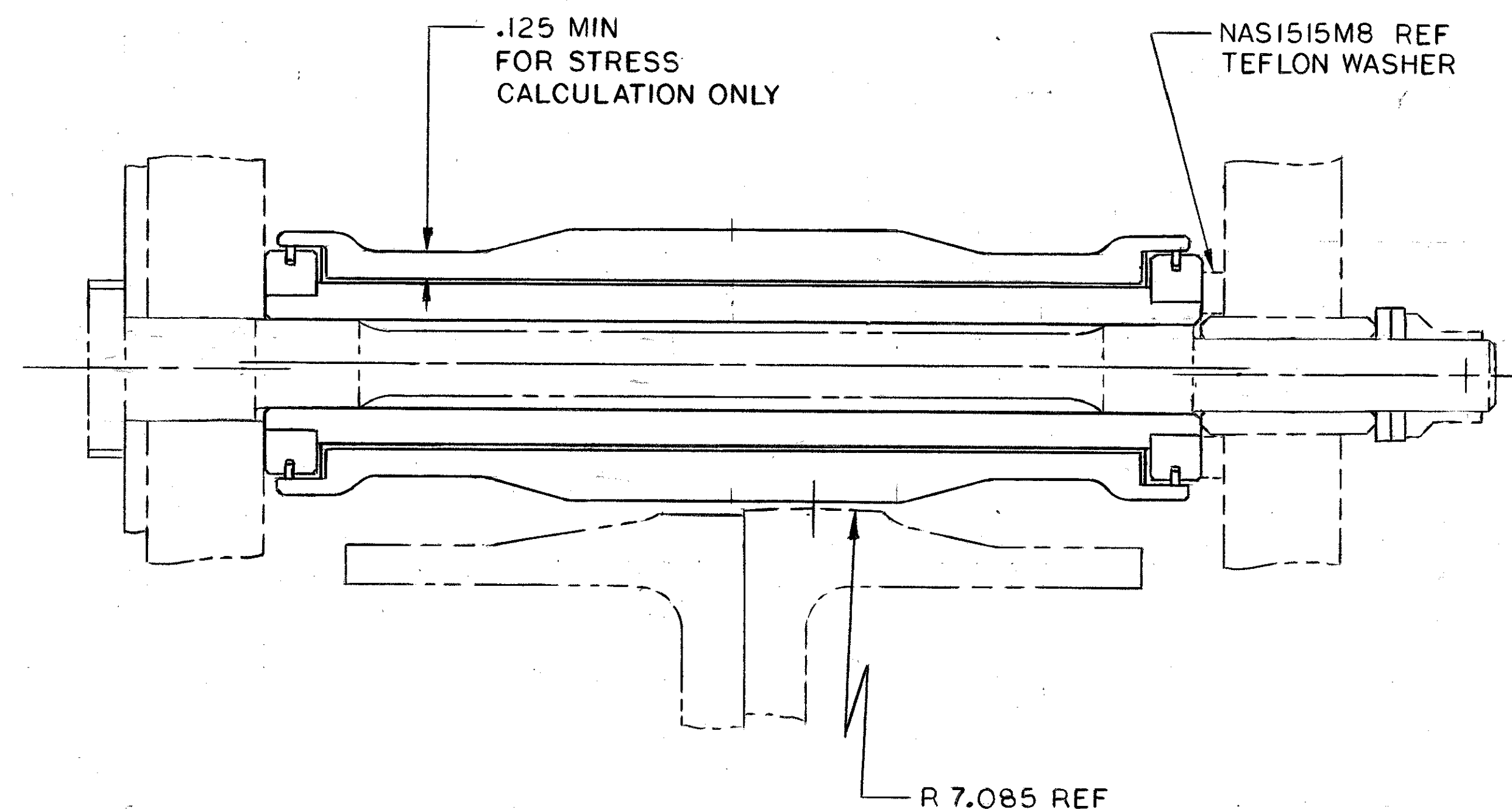
DSC 505 SH 2

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REPORT ALL DRAWING ERRORS TO  
ENGINEERING

REVISIONS

| REVISION | ITEM NO. | ZONE | DESCRIPTION                                               | ENG. AUTH. | VA. OPS. | ENG. RELEASE | DATE | DRAWN | CHECKED | STRESS | APPROVED |
|----------|----------|------|-----------------------------------------------------------|------------|----------|--------------|------|-------|---------|--------|----------|
| 1        |          |      | PRELIMINARY -<br>FOR TRIAL INSTALLATION<br>OF MOD 8/2508. |            |          |              |      |       |         |        |          |

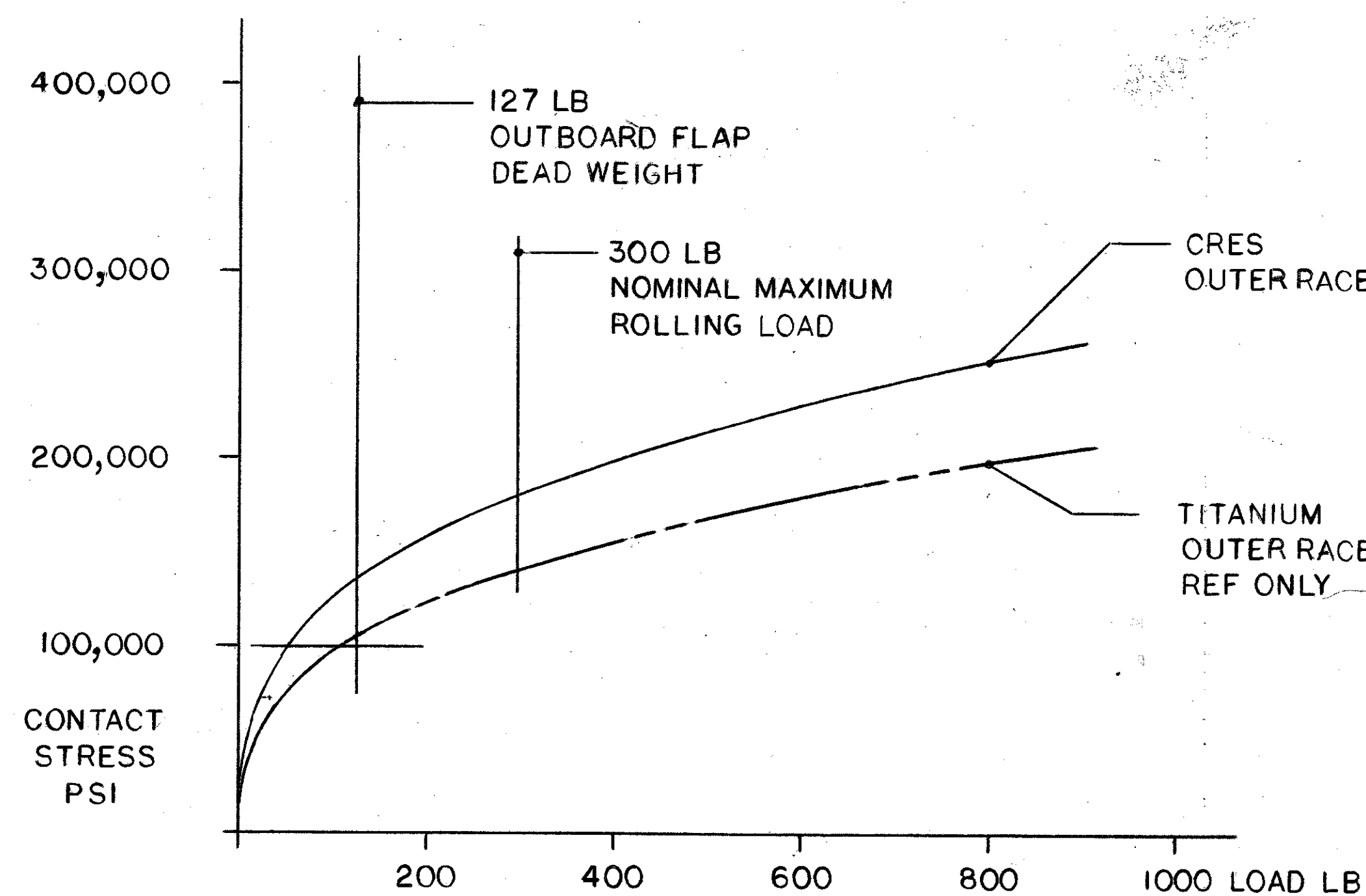


INSTALLATION UPPER DEAD WEIGHT ROLLER  
VIEW LOOKING FWD REF ONLY

THE BEARING/ROLLER IS SUPPORTED ON A SHAFT HAVING AN ECCENTRIC OFFSET OF .025. THE SHAFT MATERIAL IS CRES 17-4 PH (H1150) WITH PROTECTIVE TREATMENT NICKEL STRIKE PRIOR TO CADMIUM PLATE. THE SUPPORTS AT EACH END ARE .3739 - .3744 DIA. THE ROLLER IS CLAMPED BETWEEN AN ANODIZED ALUM PLATE AND A CADMIUM PLATED STEEL BUSHING. THE BUSHING O.D. (.498) IS CHAMFERED .031 LEAVING A CLAMPING FACE APPROXIMATELY .34 I.D AND .44 O.D.

THE BEARING DESIGN SHOWN IS GENERIC AND THE PICTORIAL VIEW IS INTENDED TO HIGHLIGHT MOUNTING DETAILS WHICH MAY AFFECT THE INDIVIDUAL DESIGNS OF THE SUPPLIERS.

CERTAIN FEATURES OF THE BEARING AS SHOWN OR DESCRIBED MAY BE SUBJECT TO PATENT PROTECTION BY THE VENDORS.



ROLLER - TRACK CONTACT STRESS (HERTZIAN STRESS)

TRACK MATERIAL 300M STEEL PER AMS 6419, HEAT TREAT 280 KSI TO 305 KSI. TRACK IS COATED WITH NIBROLUBE.

ALLOWABLE CONTACT STRESS FOR TRACK 504,000 PSI.

ALLOWABLE CONTACT STRESS FOR CUSTOM 455 OUTER RACE 292,500 PSI.

NOMINAL LIMIT STRESS FOR ROLLING CONTACT 250,000 PSI.

|                                                                |                 |              |                      |             |
|----------------------------------------------------------------|-----------------|--------------|----------------------|-------------|
| <b>de Havilland Inc.</b><br>Downsview, Ontario, Canada         |                 | ENG. AUTH.   | CSI 22604            |             |
|                                                                |                 | DRAWN        | D.W.S. 1 Dec 95      |             |
|                                                                |                 | CHECKED      | Frederick 7/2/96     |             |
|                                                                |                 | APPROVED     | C.KIRKIS 22/4/96     |             |
|                                                                |                 | STRESS       | J. Almon 19/12/96    |             |
| SEE SHEET 1 OF DWG<br>FOR BILL OF MATERIAL<br>AND EFFECTIVITY. |                 | MAT. TECH.   | 82 AD                |             |
|                                                                |                 | ENG. RELEASE | D. B. HUNNE 96-05-01 |             |
|                                                                |                 | TECH. DES.   | -                    |             |
|                                                                |                 | VA. OPS.     | CS 00 6/3/96         |             |
| DWG<br>SIZE                                                    | CODE IDENT. NO. | DRAWING NO.  | RELEASE              | REV.        |
| D                                                              | 71867           | DSC 505      | R                    | -           |
| SCALE                                                          | 2/1             | WGT. CALC.   | ACTUAL               | SHT. 2 OF 2 |

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