ELEVATOR CONTROL COMPONENTS

PART NUMBER: SEE CONTENTS, PAGE 1

COMPONENT MAINTENANCE MANUAL
WITH
ILLUSTRATED PARTS LIST

REVISION RECORD

- Retain this record in front of manual. On receipt of revision, insert revised pages in the manual, and enter revision number, date inserted and initial.

REVISION NUMBER	REVISION DATE	DATE FILED	BY	REVISION NUMBER	REVISION DATE	DATE FILED	BY

TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL

PAGE	DATE	CODE
27-31-25		
TITLE PAGE		
1	OCT 10/84	01
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REVISION RECORD		
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TR & SB RECORD		
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LIST OF EFFECTIVE PAGES		
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1013	OCT 10/84	01
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* = REVISED, ADDED OR DELETED

TABLE OF CONTENTS

NOTE: This manual contains overhaul data for various components of the Elevator Control System. Functions which cannot be performed by the use of standard industry practices are included in repair instructions for each component.

ELEVATOR CONTROL COMPONENTS

INTRODUCTION

The instructions in this manual provide the information necessary to perform maintenance functions ranging from simple checks and replacement to complete shop-type repair.

This manual is divided into separate sections:

1. Title Page
2. Record of Revisions
3. Temporary Revision & Service Bulletin Record
4. List of Effective Pages
5. Table of Contents
6. Introduction
7. Procedures & IPL Sections

Refer to the Table of Contents for the page location of applicable sections. An asterisked flagnote *[ ] in place of the page number indicates that no special instructions are provided since the function can be performed using standard industry practices.

The beginning of the REPAIR section includes a list of the separate repairs, a list of applicable standard Boeing practices, and an explanation of the True Position Dimensioning symbols used.

An explanation of the use of the Illustrated Parts List is provided in the Introduction to that section.

All weights and measurements used in the manual are in English units, unless otherwise stated. When metric equivalents are given they will be in parentheses following the English units.

Design changes, optional parts, configuration differences and Service Bulletin modifications create alternate part numbers. These are identified in the Illustrated Parts List (IPL) by adding an alphabetical character to the basic item number. The resulting item number is called an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless otherwise indicated.

REPAIR - GENERAL

1. Content

   A. Each separate repair includes, as applicable, check, repair, and refinish instructions.

2. Standard Practices

   A. Refer to the following standard practices as applicable, for details of procedures in individual repairs.

      20-10-04 Grinding of Chrome Plated Parts
      20-20-02 Penetrant Methods of Inspection
      20-30-02 Stripping of Protective Finishes
      20-41-01 Decoding Table for Boeing Finish Codes
      20-42-03 Hard Chrome Plating
      20-43-01 Chromic Acid Anodizing
      20-50-03 Bearing Installation and Retention

3. Materials

   NOTE: Equivalent substitutes may be used.

   A. Primer -- BMS 10-11, type 1 (Ref 20-60-02)

   B. Grease -- MIL-G-23827 (Ref 20-60-03)

   C. Sealant -- BMS 5-95 (Ref 20-60-04)

   D. Enamel -- BMS 10-11, type 2, color white (BAC702) (Ref 20-60-02)

4. Dimensioning Symbols

A. Standard True Position Dimensioning Symbols used in applicable repair procedures are shown in Fig. 601.

⏤	STRAIGHTNESS
▱	FLATNESS
⊥	PERPENDICULARITY (OR SQUARENESS)
//	PARALLELISM
○	ROUNDNESS
⌭	CYLINDRICITY
⌒	PROFILE OF A LINE
⌓	PROFILE OF A SURFACE
◎	CONCENTRICITY
⌯	SYMMETRY
∠	ANGULARITY
↗	RUNOUT
⌖	THEORETICAL EXACT POSITION OF A FEATURE (TRUE POSITION)
∅	DIAMETER
BASIC (BSC) OR [DIM]	A THEORETICALLY EXACT DIMENSION USED TO DESCRIBE SIZE, SHAPE OR LOCATION OF A FEATURE FROM WHICH PERMISSIBLE VARIATIONS ARE ESTABLISHED BY TOLERANCES ON OTHER DIMENSIONS OR NOTES.
[-A-]	DATUM
Ⓜ	MAXIMUM MATERIAL CONDITION (MMC)
Ⓢ	REGARDLESS OF FEATURE SIZE (RFS)
Ⓟ	PROJECTED TOLERANCE ZONE

EXAMPLES

⏤ 0.002	STRAIGHT WITHIN 0.002
⊥ B 0.002	PERPENDICULAR TO B WITHIN 0.002
// A 0.002	PARALLEL TO A WITHIN 0.002
○ 0.002	ROUND WITHIN 0.002
⌭ 0.010	CYLINDRICAL SURFACE MUST LIE BETWEEN TWO CONCENTRIC CYLINDERS, ONE OF WHICH HAS A RADIUS 0.010 INCH GREATER THAN THE OTHER
⌒ A 0.006	EACH LINE ELEMENT OF THE SURFACE AT ANY CROSS SECTION MUST LIE BETWEEN TWO PROFILE BOUNDARIES 0.006 INCH APART IN RELATION TO DATUM PLANE A
⌓ A 0.020	SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES 0.02 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE
◎ C ∅ 0.0005	CONCENTRIC TO C WITHIN 0.0005 DIAMETER (FULL INDICATOR MOVEMENT)
⌯ A 0.010	SYMMETRICAL WITH A WITHIN 0.010
∠ A 0.005	ANGULAR TOLERANCE 0.005 WITH A
⌖ B ∅ 0.002 Ⓢ	LOCATED AT TRUE POSITION WITHIN 0.002 DIA IN RELATION TO DATUM B, REGARDLESS OF FEATURE SIZE
⊥ A ∅ 0.010 Ⓜ 0.510 Ⓟ	AXIS IS TOTALLY WITHIN A CYLINDER OF 0.010-INCH DIAMETER, PERPENDICULAR TO, AND EXTENDING 0.510-INCH ABOVE, DATUM A, MAXIMUM MATERIAL CONDITION
[2.000] OR 2.000 BSC	EXACT DIMENSION IS 2.000

True Position Dimensioning Symbols
Figure 601

143994

QUADRANT ASSY - REPAIR 1-1

251T2430-1, -4
251T2431-1, -4

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601. Item numbers refer to IPL Fig. 1.

1. Penetrant check quadrant (70, 75) per 20-20-02.

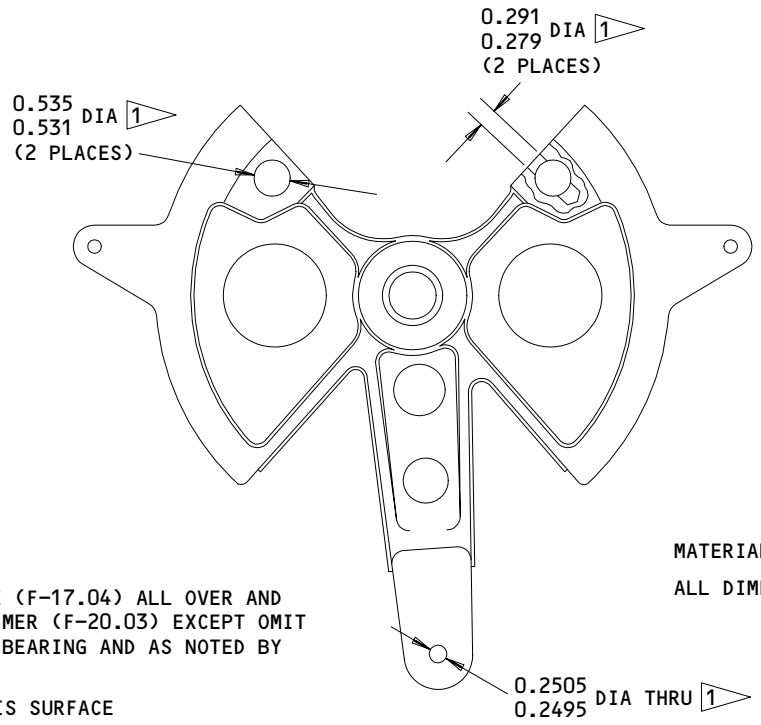
2. Repair

   A. Quadrant refinish -- Fig. 601

   B. Bearing (65) replacement

      (1) Remove bearing.

      (2) Install replacement bearing with grease and roller swage per 20-50-03.



REFINISH

CHROMIC ACID ANODIZE (F-17.04) ALL OVER AND APPLY 2 COATS OF PRIMER (F-20.03) EXCEPT OMIT PRIMER IN BORES FOR BEARING AND AS NOTED BY 1

1 OMIT PRIMER THIS SURFACE

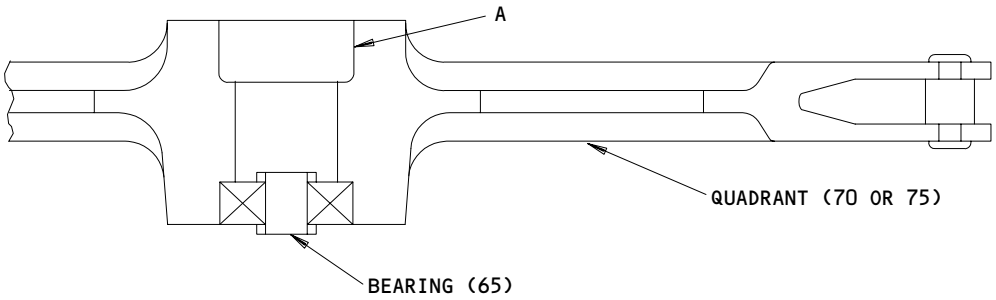
MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

Quadrant Refinish
Figure 601

143999

3. Fits and Clearances



Ref Letter Fig.602	Mating Item No. IPL Fig.1	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance *[1]		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 70,75	0.9012	0.9017	-0.0002	0.0008		0.9022	0.0013
	OD *[2]	0.9009	0.9014			0.9004		

*[1] NEGATIVE VALUES DENOTE INTERFERENCE FIT

*[2] INSTALLATION PART BACB10BY4

ALL DIMENSIONS ARE IN INCHES

Fits and Clearances
Figure 602

144008

BELLCRANK ASSY - REPAIR 2-1

251T2651-1, -4

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601. Item numbers refer to IPL Fig. 2.

1. Penetrant check bellcrank (10) per 20-20-02.

2. Repair

   A. Bolt hole repair (Fig. 601)

      (1) Machine hole, as required, within limit shown to remove defects.

      (2) Manufacture repair bushing per Fig. 602.

      (3) Install repair bushing using shrink fit method except use BMS 5-95 sealant.

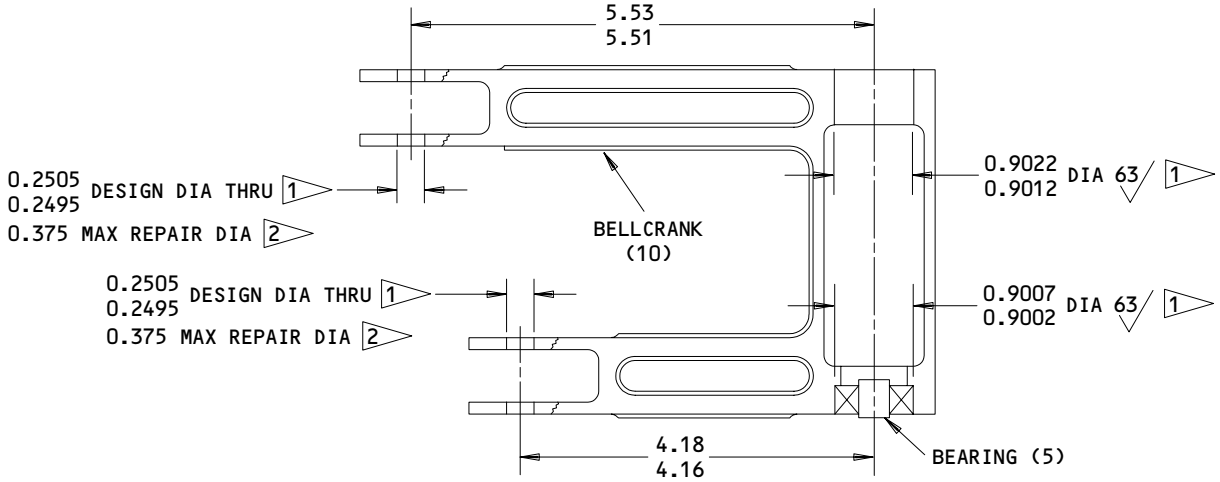
      (4) Check bushing I.D. and machine to design dimension if required.

   B. Bellcrank refinish -- Fig. 601

   C. Bearing replacement

      (1) Remove bearing.

      (2) Install bearing and roller swage per 20-50-03.



REFINISH

CHROMIC ACID ANODIZE (F-17.04) ALL OVER AND APPLY 2 COATS OF PRIMER (F-20.03) EXCEPT OMIT PRIMER IN AREA INDICATED BY 1

1 OMIT PRIMER THIS SURFACE

2 REPAIR LIMIT FOR INSTALLATION OF REPAIR BUSHING

REPAIR

REF 2

125 ALL MACHINED SURFACES EXCEPT AS NOTED

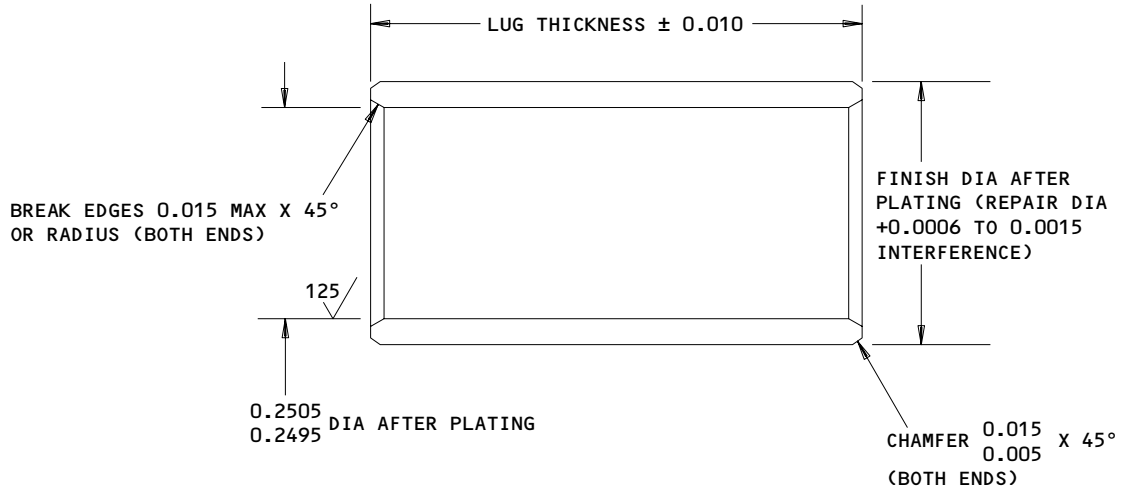
BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

Bellcrank Repair and Refinish
Figure 601

144017



MATERIAL: AL-NI-BR PER AMS 4640

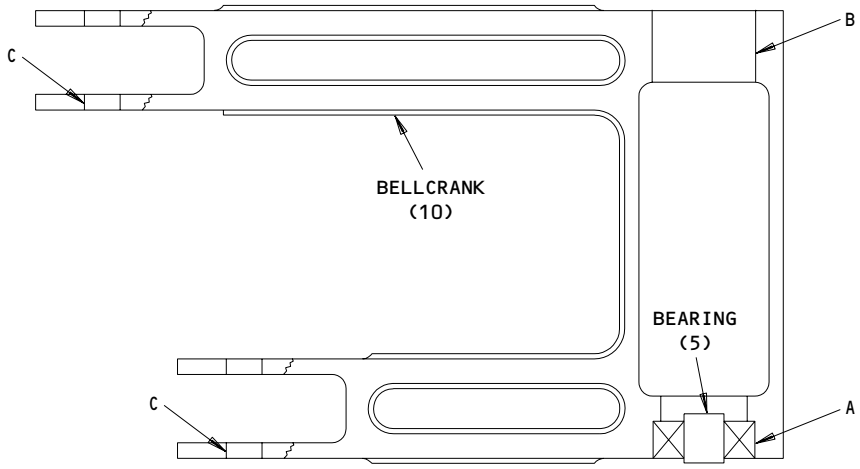
CADMIUM PLATE (F-15.06) ALL OVER

ALL DIMENSIONS ARE IN INCHES

Repair Bushing Details
Figure 602

144123

3. Fits and Clearances



Ref Letter Fig.603	Mating Item No. IPL Fig.2	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance *[1]		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 10 OD 5	0.9002 0.9009	0.9007 0.9014	-0.0012	-0.0002	0.9008	0.9013	-0.0001
B	ID 10 OD *[2]	0.9012 0.9009	0.9022 0.9014	-0.0002	0.0013	0.9008	0.9028	0.0014
C	ID 10 OD *[3]	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2475	0.2525	0.0030

*[1] NEGATIVE VALUES DENOTE INTERFERENCE FIT

*[2] INSTALLATION PART BACB10BY4

*[3] INSTALLATION PART BACB30NF4

ALL DIMENSIONS ARE IN INCHES

Fits and Clearances
Figure 603

144025

BELLCRANK ASSY - REPAIR 3-1

251T2652-1, -2, -7, -8

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601. Item numbers refer to IPL Fig. 3.

1. Penetrant check bellcrank (15, 20) per 20-20-02.

2. Repair

   A. Bolt hole repair (Fig. 601)

      (1) Machine hole as required, within repair limit shown to remove defects.

      (2) Manufacture repair bushing per Fig. 602.

      (3) Install repair bushing using shrink fit method with sealant, BMS 5-95.

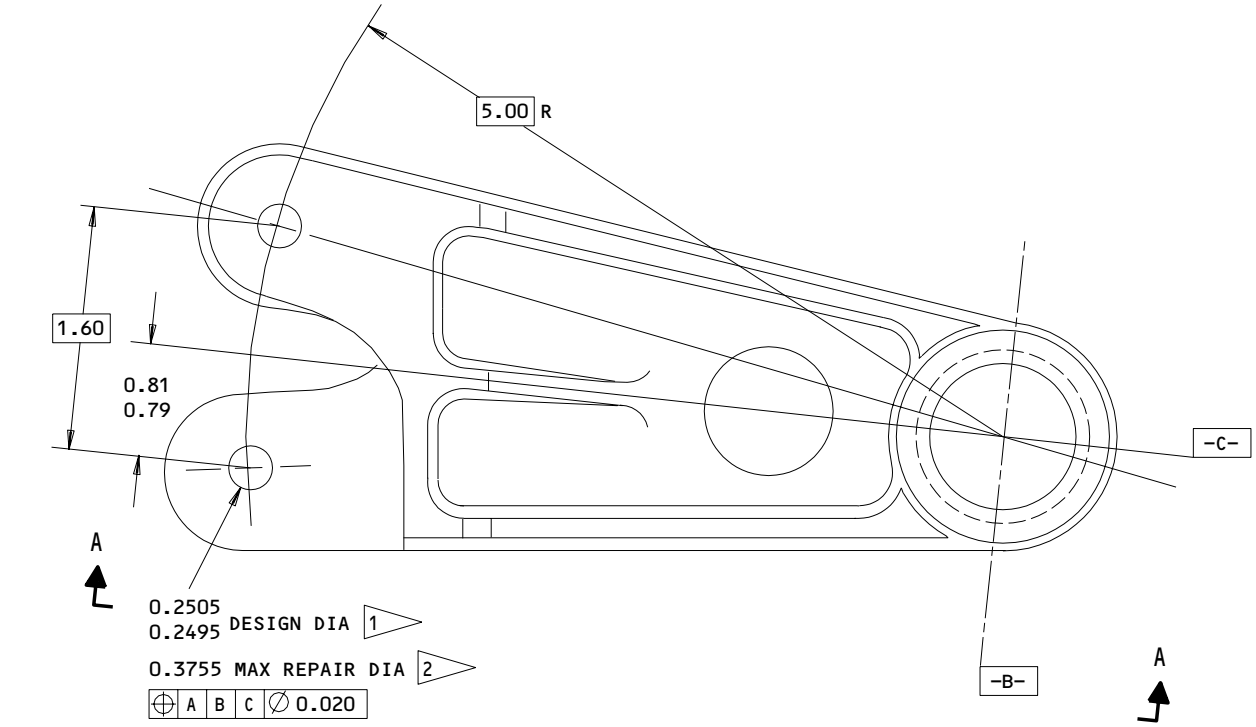
      (4) Check bushing I.D. and machine to design dimension if required.

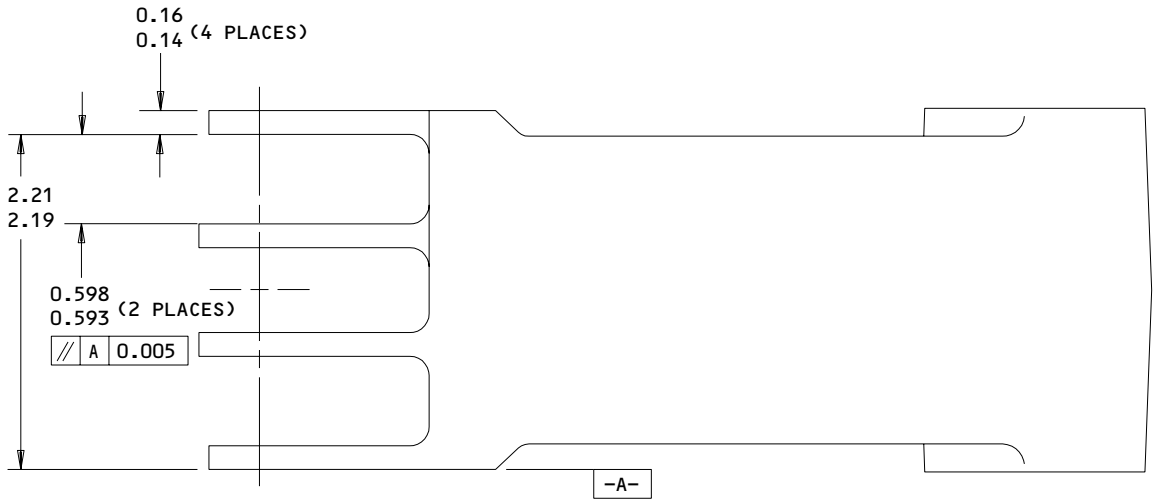
   B. Bellcrank refinish -- Fig. 601

   C. Bearing (10) replacement

      (1) Remove bearing.

      (2) Install replacement bearing and roller swage per 20-50-03 except use wet sealant, BMS 5-95.





A-A

REFINISH

CHROMIC ACID ANODIZE (F-17.04) ALL OVER AND APPLY 2 COATS OF PRIMER (F-20.03) EXCEPT OMIT PRIMER IN BORES FOR BEARINGS AND AS NOTED BY 1

1 OMIT PRIMER THIS SURFACE

2 REPAIR LIMIT FOR INSTL OF REPAIR BUSHING

REPAIR

REF 2

125 ALL MACHINED SURFACES EXCEPT AS NOTED

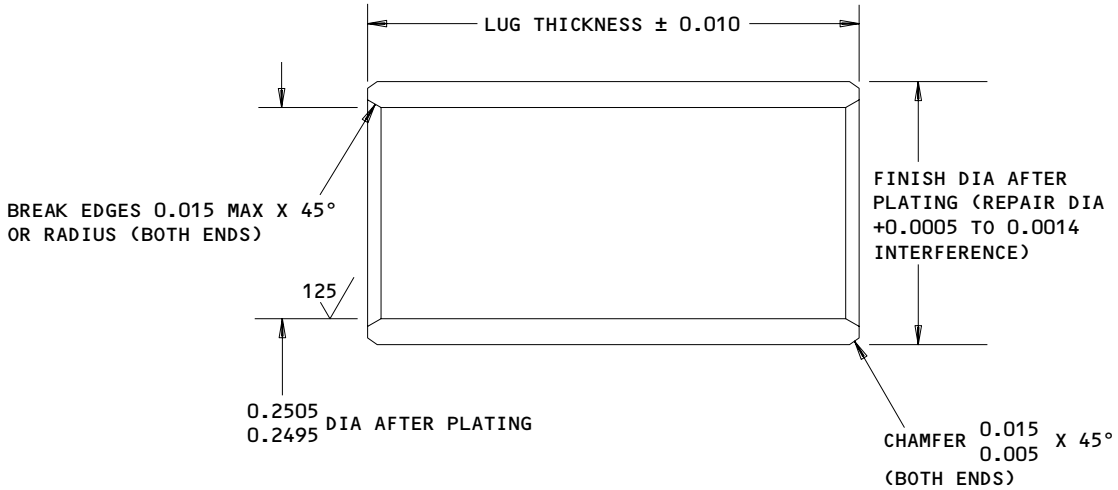
BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

Bellcrank Repair
Figure 601

144121



MATERIAL: AL-NI-BR PER AMS 4640

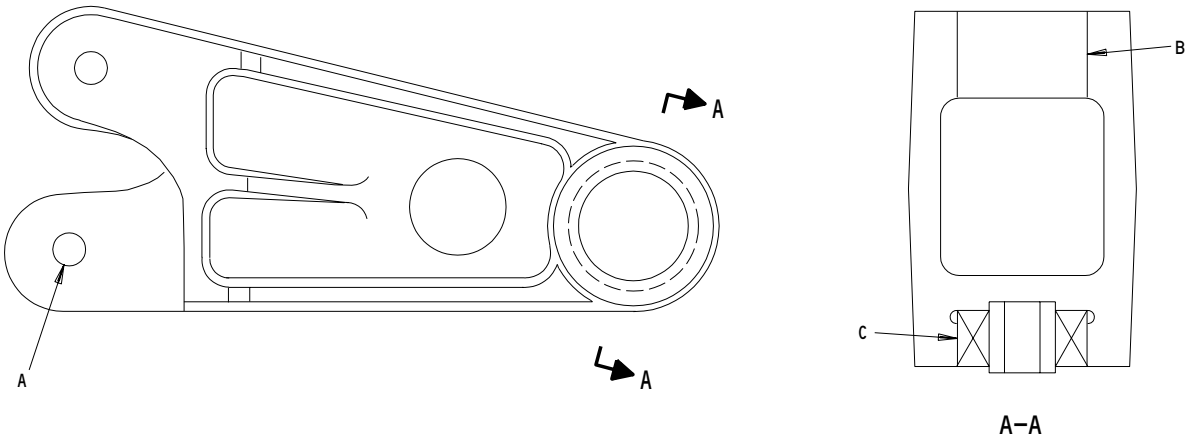
CADMIUM PLATE (F-15.06) ALL OVER

ALL DIMENSIONS ARE IN INCHES

Repair Bushing Details
Figure 602

144124

3. Fits and Clearances



A-A

Ref Letter Fig.603	Mating Item No. IPL Fig.3	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance *[1]		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 15,20 OD *[2]	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2475	0.2525	0.0030
B	ID 15,20 OD *[3]	0.9012 0.9009	0.9022 0.9014	-0.0002	0.0013	0.9009	0.9044	0.0030
C	ID 15,20 OD 10	0.9002 0.9009	0.9007 0.9014	-0.0012	-0.0002	0.9009	0.9008	-0.0001

*[1] NEGATIVE VALUES DENOTE INTERFERENCE FIT
*[2] INSTALLATION PART BACB30NF4
*[3] INSTALLATION PART BACB10BY4
ALL DIMENSIONS ARE IN INCHES

Fits and Clearances
Figure 603

769941

IDLER CRANK ASSY - REPAIR 4-1

251T2663-1

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601. Item numbers refer to IPL Fig. 4.

1. Penetrant check crank (10) per 20-20-02.

2. Repair

   A. Bolt hole repair (Fig. 601)

      (1) Machine hole as required, within repair limit shown to remove defects.

      (2) Manufacture repair bushing per Fig. 602.

      (3) Install repair bushing per 20-50-03 except use wet sealant, BMS 5-95.

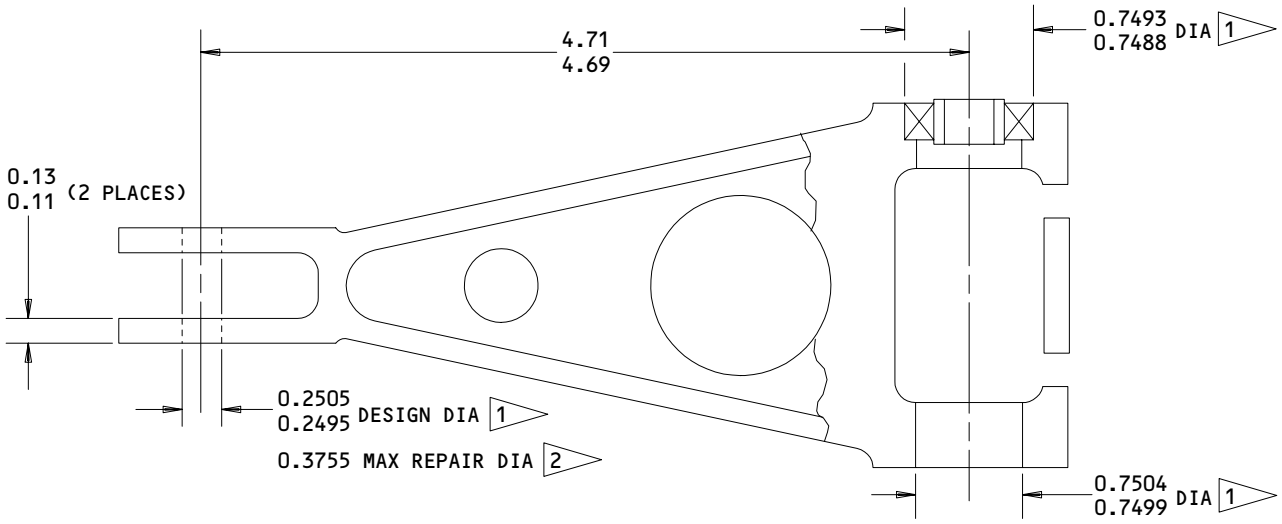
      (4) Check bushing I.D. and machine to design dimension if required.

   B. Crank (10) refinish -- Fig. 601

   C. Bearing (5) replacement

      (1) Remove bearing.

      (2) Install replacement bearing and roller swage per 20-50-03 except use wet sealant, BMS 5-95.



REFINISH

CHROMIC ACID ANODIZE AND APPLY 1 COAT OF PRIMER (F-18.13) EXCEPT OMIT PRIMER AS NOTED IN 1

1 OMIT PRIMER THIS SURFACE

2 REPAIR LIMIT FOR INSTL OF REPAIR BUSHING

REPAIR

REF 2

125 ALL MACHINED SURFACES

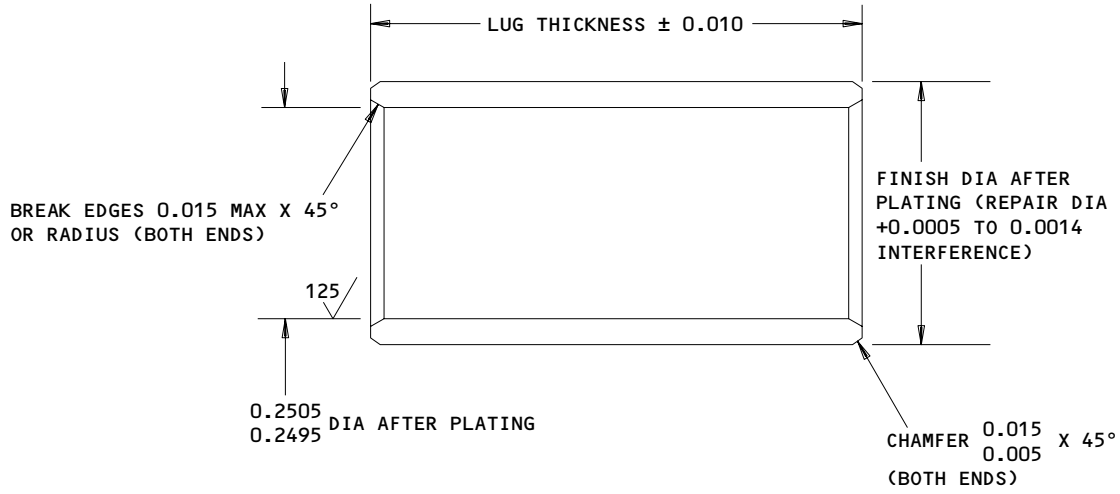
BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

Crank Repair
Figure 601

144115



MATERIAL: AL-NI-BR PER AMS 4640

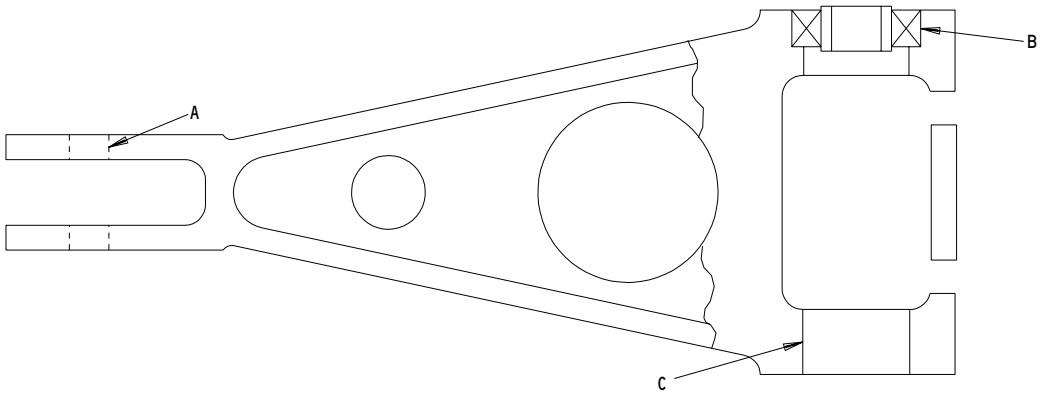
CADMIUM PLATE (F-15.06) ALL OVER

ALL DIMENSIONS ARE IN INCHES

Repair Bushing Details
Figure 602

144125

3. Fits and Clearances



Ref Letter Fig.603	Mating Item No. IPL Fig.4	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance *[1]		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 10 OD *[2]	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2475	0.2515	0.0040
B	ID 10 OD 5	0.7488 0.7495	0.7493 0.7500	-0.0012	-0.0002	0.7495	0.7494	-0.0001
C	ID 10 OD *[3]	0.7499 0.7495	0.7504 0.7500	-0.0001	0.0009	0.7495	0.7520	

*[1] NEGATIVE VALUES DENOTE INTERFERENCE FIT
*[2] INSTALLATION PART BACB30NF4
*[3] INSTALLATION PART BACB10BX4
ALL DIMENSIONS ARE IN INCHES

Fits and Clearances
Figure 603

144098

CRANK - REPAIR 5-1

253T2211-4 thru -7

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601.

1. Penetrant check crank per 20-20-02.

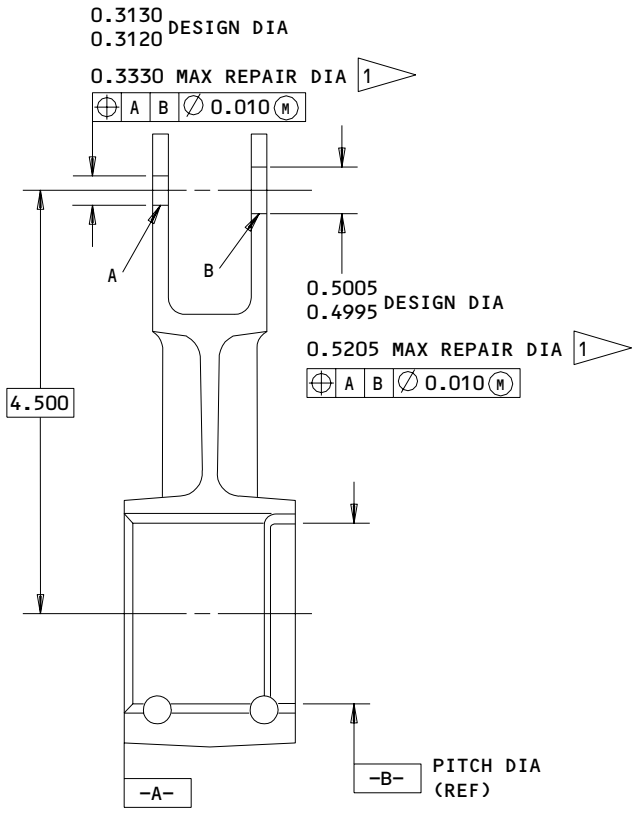
2. Repair

   A. Bolt hole repair

      (1) Machine hole as required, within repair limit shown to remove defects.

      (2) Build up repair surface with chrome plate and grind to design dimension and finish shown.

   B. Crank refinish -- Fig. 601.



REFINISH

CHROMIC ACID ANODIZE AND APPLY 1 COAT OF PRIMER (F-18.13) EXCEPT OMIT PRIMER IN ALL HOLES AND ON SPLINES

1 BUILD UP WITH CHROME PLATE (F-15.03) AND GRIND TO DESIGN DIMENSION AND FINISH SHOWN

2 INSTALLATION PARTS

REPAIR

REF 1

125 ALL MACHINED SURFACES

BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

Ref Letter Fig.601	Mating Item No. IPL Fig.1	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 30	0.3120	0.3130	0.0001	0.0020		0.3150	0.0060
	OD 2	0.3110	0.3120			0.3090		
B	ID 30	0.4995	0.5005	0.0015	0.0035		0.5025	0.0075
	OD 2	0.4970	0.4980			0.4950		

ALL DIMENSIONS ARE IN INCHES

253T2211-4 thru -7
Crank Repair
Figure 601

144100

BEARING HOUSING - REPAIR 6-1

253T2214-3, -4

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601.

1. Penetrant check housing per 20-20-02.

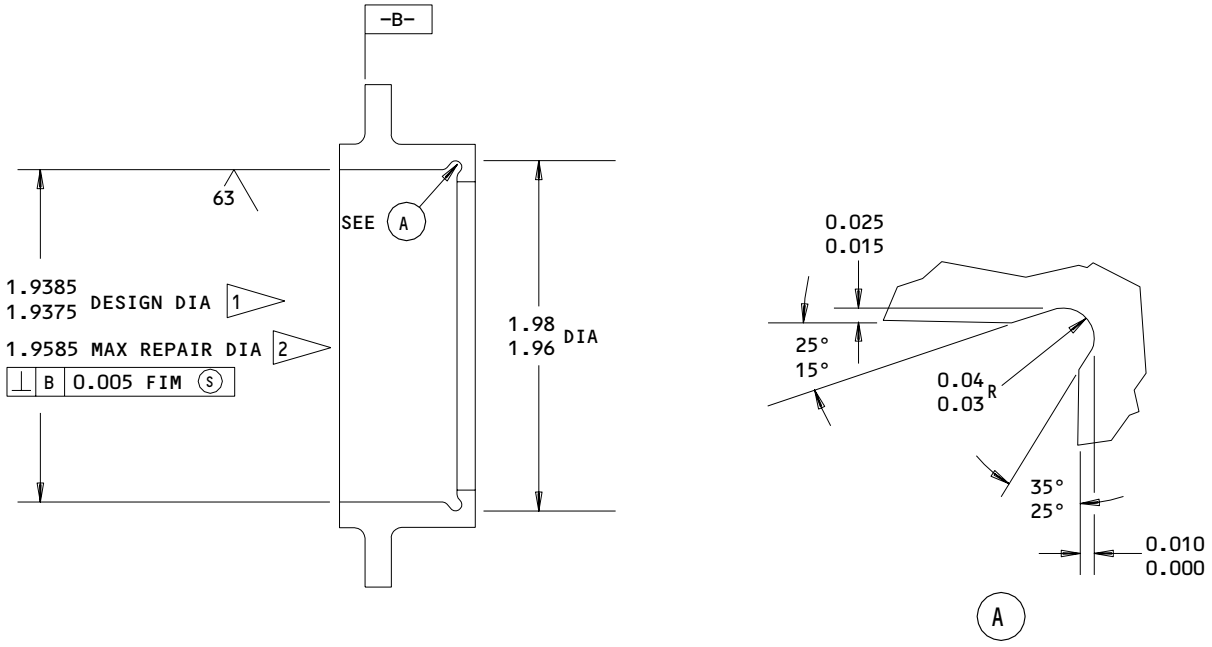
2. Repair

   A. Bearing seat repair (Fig. 601)

      (1) Machine bearing seat as required, within repair limit shown to remove defects.

      (2) Build up repair surface with chrome plate and grind to design dimension and finish shown.

   B. Housing refinish -- Fig. 601.



REFINISH

CHROMIC ACID ANODIZE (F-17.04) ALL OVER. APPLY 1 COAT OF PRIMER (F-20.02) AND ENAMEL (F-21.03) ALL OVER EXCEPT OMIT PRIMER AND ENAMEL AS NOTED BY 1

1 OMIT PRIMER AND ENAMEL THIS SURFACE

2 BUILD UP WITH CHROME PLATE AND GRIND TO DESIGN DIMENSION AND FINISH SHOWN. CHROME PLATE RUN OUT 0.00-0.06. STOP CHROME PLATE 0.00-0.02 FROM EDGE OR CORNER RADIUS

REPAIR

REF 2

125 ALL MACHINED SURFACES EXCEPT AS NOTED

BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

Ref Letter Fig.601	Mating Item No. IPL Fig.1	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 35 OD *[1]	1.9375 1.9365	1.9385 1.9375	0.0000	0.0020	1.9345	1.9415	0.007

*[1] INSTALLATION PART BACB10EX16
ALL DIMENSIONS ARE IN INCHES

253T2214-3,-4
Housing Repair
Figure 601

144102

BEARING HOUSING - REPAIR 7-1

69B81723-1

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require stripping and restoration of original finish, refer to REFINISH instruction, Fig. 601.

1. Penetrant check housing per 20-20-02.

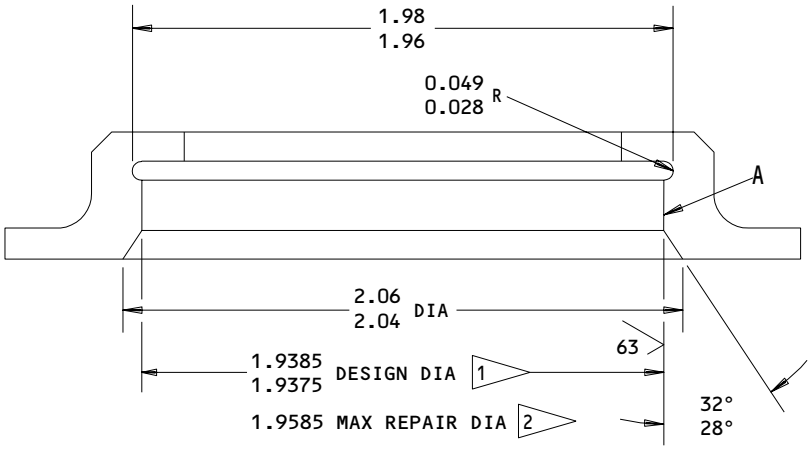
2. Repair

   A. Bearing seat repair (Fig. 601)

      (1) Machine bearing seat as required, within repair limit shown to remove defect.

      (2) Build up repair surface with chrome plate and grind to design dimension and finish shown.

   B. Housing refinish -- Fig. 601.



REFINISH

CHEMICAL TREAT (F-17.01) ALL OVER AND APPLY 1 COAT OF PRIMER (F-20.02) EXCEPT OMIT PRIMER AS NOTED IN 1

1 OMIT PRIMER THIS SURFACE

2 BUILD UP WITH CHROME PLATE AND GRIND TO DESIGN DIMENSION AND FINISH SHOWN. CHROME PLATE RUN OUT 0.00-0.06. STOP CHROME PLATE 0.00-0.02 FROM EDGE OR CORNER RADIUS

REPAIR

REF 2

125 ALL MACHINED SURFACES EXCEPT AS NOTED

BREAK SHARP EDGES 0.008R

MATERIAL: AL ALLOY

Ref Letter Fig.601	Mating Item No. IPL Fig.1	Design Dimension				Service Wear Limit		
		Dimension		Assembly Clearance		Dimension		Maximum Clearance
		Min	Max	Min	Max	Min	Max	
A	ID 40	1.9375	1.9385	0.0000	0.0020		1.9415	0.007
	OD *[1]	1.9365	1.9375			1.9345		

*[1] INSTALLATION PART BACB10EX16
ALL DIMENSIONS ARE IN INCHES

69B81723-1
Housing Repair
Figure 601

144103

ILLUSTRATED PARTS LIST

1. This section lists and illustrates replaceable or repairable component parts. The Illustrated Parts Catalog contains a complete explanation of the Boeing part numbering system.

2. Indentures show parts relationships as follows:

    Assembly
      Detail Parts for Assembly
      Subassembly
      Attaching Parts for Subassembly
        Detail Parts for Subassembly

    Detail Installation Parts (Included only if installation parts may be returned to shop as part of assembly)

3. One use code letter (A, B, C, etc.) is assigned in the EFF CODE column for each variation of top assembly. All listed parts are used on all top assemblies except when limitations are shown by use code letter opposite individual part entries.

4. Letter suffixes (alpha-variants) are added to item numbers for optional parts, Service Bulletin modification parts, configuration differences (Except left- and right-hand parts), product improvement parts, and parts added between two sequential item numbers. The alpha-variant is not shown on illustrations when appearance and location of all variants of the part is the same.

5. Service Bulletin modifications are shown by the notations PRE SB XXXX and POST SB XXXX.

    A. When a new top assembly part number is assigned by Service Bulletin, the notations appear at the top assembly level only. The configuration differences at detail part level are then shown by use code letter.

    B. When the top assembly part number is not changed by the Service Bulletin, the notations appear at the detail part level.

6. Parts Interchangeability

Optional (OPT)	The parts are optional to and interchangeable with other parts having the same item number.
Supersedes, Superseded By (SUPSDS, SUPSD BY)	The part supersedes and is not interchangeable with the original part.
Replaces, Replaced By (REPLS, REPLD BY)	The part replaces and is interchangeable with, or is an alternate to, the original part.

VENDORS

11815 TOWNSEND DIV OF TEXTRON INC CHERRY FASTENER UNIT
BOX 2157 1224 EAST WARNER AVENUE
SANTA ANA, CALIFORNIA 92707

15653 MICRODOT AEROSPACE FASTENING SYS DIV OF MICRODOT INC
800 SOUTH COLLEGE BLVD PO BOX 3001
FULLERTON, CALIFORNIA 92634

21335 TEXTRON INC FAFNIR BEARING DIVISION
37 BOOTH STREET
NEW BRITAIN, CONNECTICUT 06050

30163 DAYRON CORP
333 MAGUIRE BLVD PO BOX 20394
ORLANDO, FLORIDA 32814

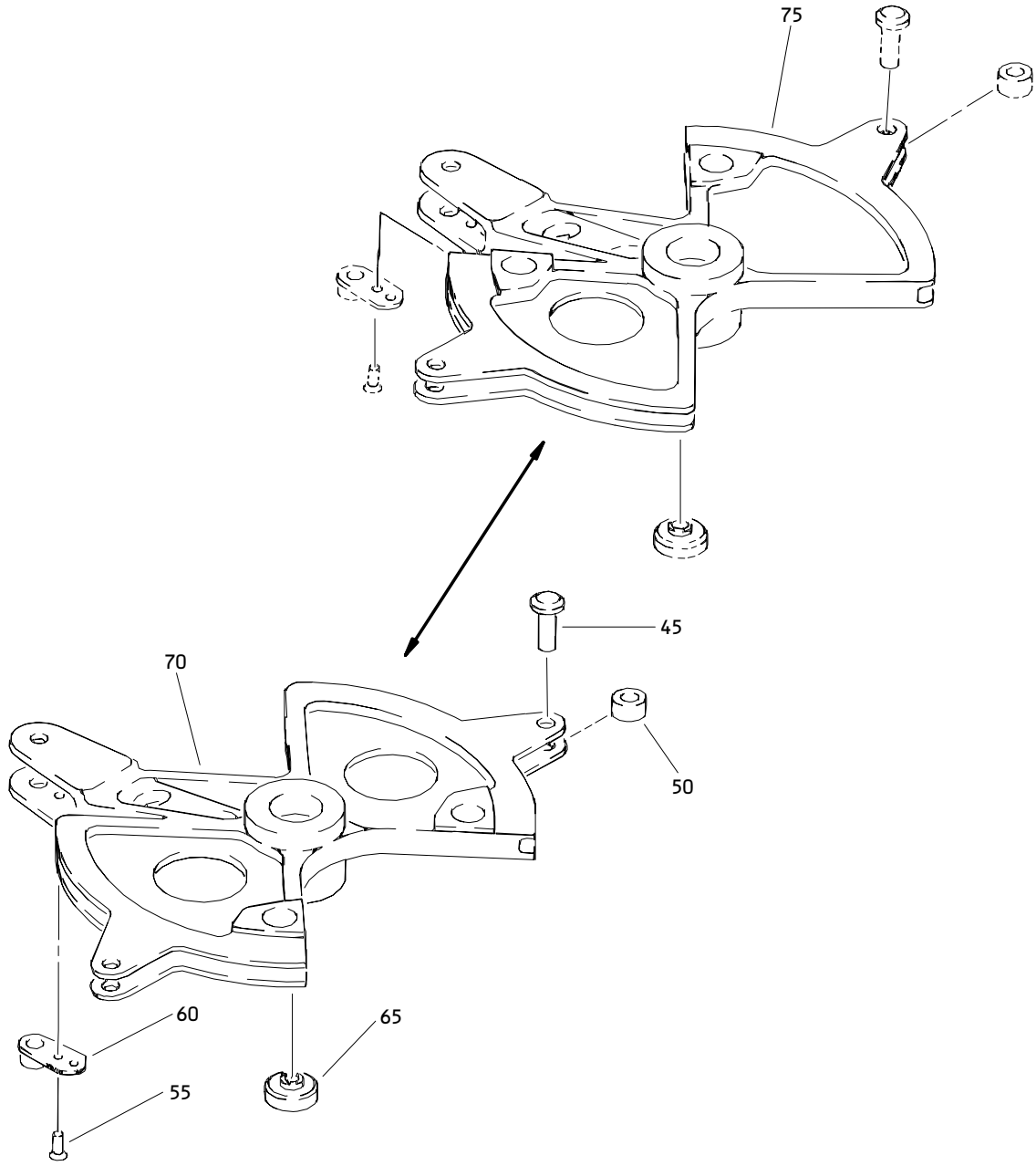
38443 TRW INC BEARING DIV
402 CHANDLER STREET
JAMESTOWN, NEW YORK 14701

43991 FAG BEARING INCORPORATED
HAMILTON AVENUE
STAMFORD, CONNECTICUT 06904

52828 REPUBLIC FASTENER MFG CORP
1300 RANCHO CONEJO BLVD
NEWBURY PARK, CALIFORNIA 91320

72962 AMERACE CORP ESNA DIV
2330 VAUXHALL ROAD
UNION, NEW JERSEY 07083

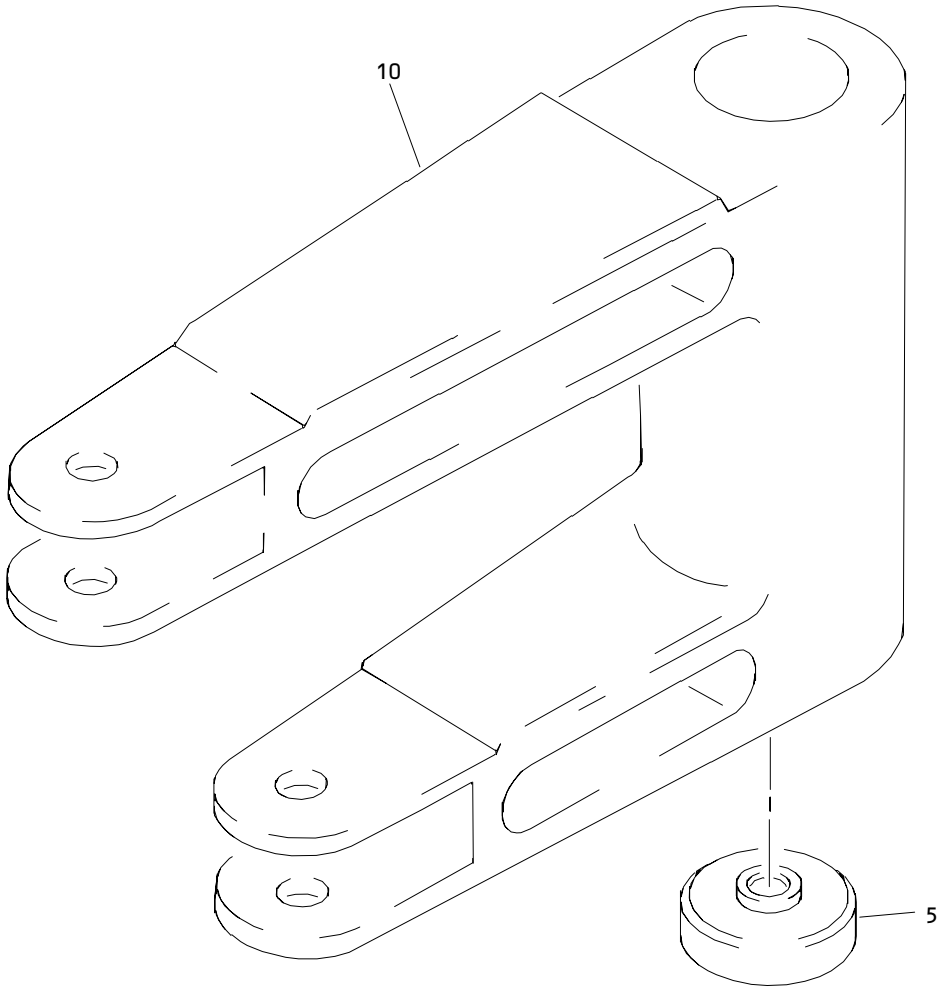
92215 VOI-SHAN DIV OF VSI CORP SUB OF FAIRCHILD INDUSTRIAL INC
8463 HIGUERA STREET
CULVER CITY, CALIFORNIA 90230



Elevator Slave Cable System Quadrant Assembly
Figure 1

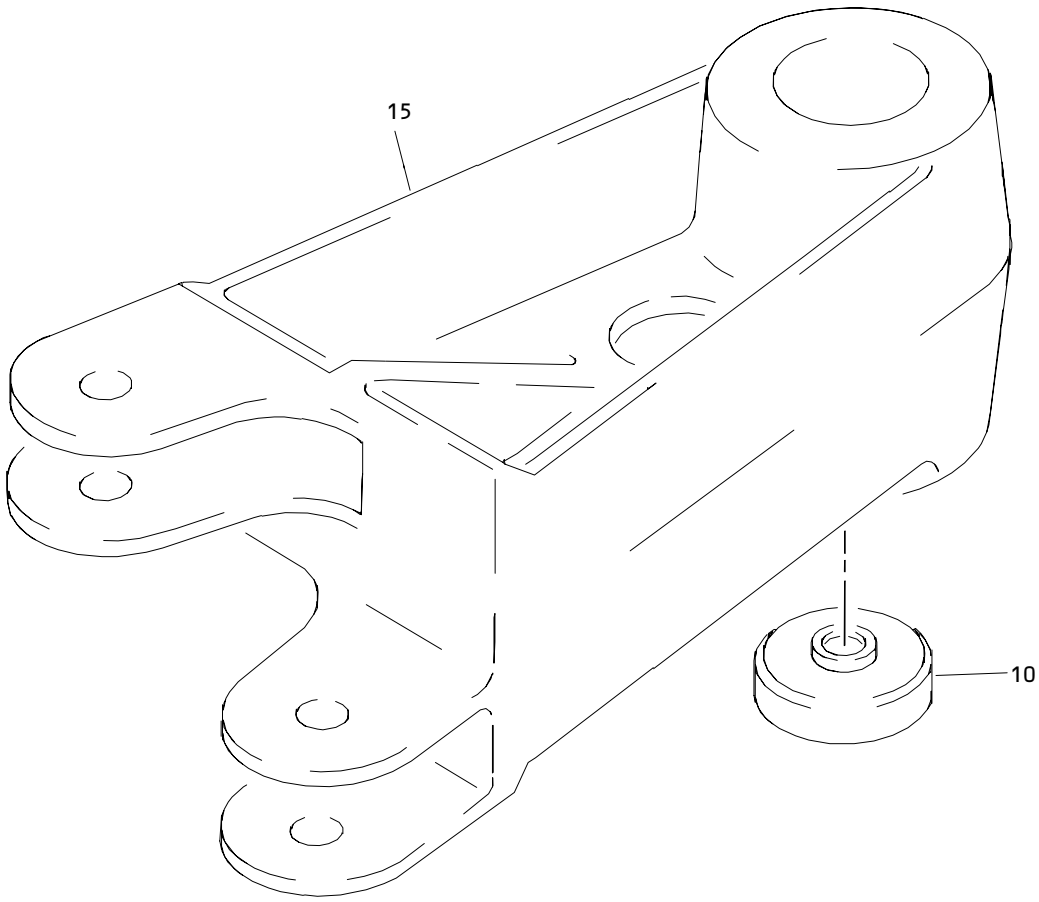
FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-			COMPONENTS-ELEVATOR CONTROL		
-5	251T2430-1		QUADRANT ASSY-ELEV R SIDE SLAVE CABLE SYS	A	RF
-5A	251T2430-4		QUADRANT ASSY-ELEV R SIDE SLAVE CABLE SYS	B	RF
-10	251T2431-1		QUADRANT ASSY-ELEV L SIDE SLAVE CABLE SYS	C	RF
-10A	251T2431-4		QUADRANT ASSY-ELEV L SIDE SLAVE CABLE SYS	D	RF
-15	251T2651-1		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 2)	E	RF
-15A	251T2651-4		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 2)	F	RF
-20	251T2652-1		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 3)	G	RF
-20A	251T2652-2		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 3)	H	RF
-20B	251T2652-7		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 3)	J	RF
-20C	251T2652-8		BELLCRANK ASSY-ELEV CONT SYS (FOR DETAILS SEE FIG. 3)	K	RF
-25	251T2663-1		CRANK ASSY-ELEV CONT IDLER (FOR DETAILS SEE FIG. 4)	L	RF
-30	253T2211-7		CRANK-ELEV CONT QUADRANT	Q	RF
-30A	253T2211-4		CRANK-ELEV CONT QUADRANT	M	RF
-30B	253T2211-5		CRANK-ELEV CONT QUADRANT	N	RF
-30C	253T2211-6		CRANK-ELEV CONT QUADRANT	P	RF
-35	253T2214-3		HOUSING-ELEV TNSN REGULATOR INBD BRG	R	RF
-35A	253T2214-4		HOUSING-ELEV TNSN REGULATOR INBD BRG	S	RF
-40	69B81723-1		HOUSING-TNSN REGULATOR UPR BRG	T	RF

FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
45	BACR15FT5AD		.RIVET	A-D	2
50	NAS42HT5-17		.SPACER	A-D	2
55	BACR15BA3KE		.RIVET	A-D	2
60	BRF100A4		.NUTPLATE- (V52828) (SPEC BACN10KB4F) (OPT F2000-4 (V15653)) (OPT RMF9207-4 (V72962)) (OPT T8114S428S (V11815)) (OPT VN151A1-048 (V92215)) (OPT F2000-4 (V15653))	A-D	1
65	KP4FS428		.BEARING- (V21335) (SPEC BACB10BY4) (OPT KP4-2TS (V43991)) (OPT KP4TT (V43991)) (OPT LLKP4 (V38443)) (OPT KP4G27 (V30163))	A-D	1
70	251T2430-2		.QUADRANT	A	1
-70A	251T2430-5		.QUADRANT	B	1
75	251T2431-2		.QUADRANT	C	1
-75A	251T2431-5		.QUADRANT	D	1



Elevator Control System Bellcrank Assembly
Figure 2

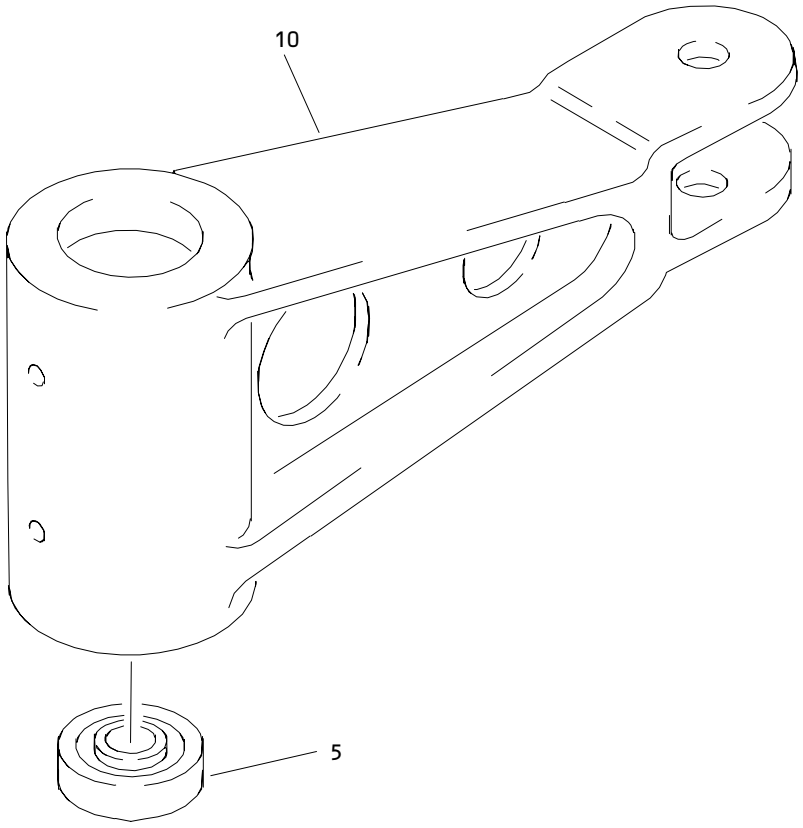
FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
02-					
-1	251T2651-1		BELLCRANK ASSY-ELEV CONT SYS	A	RF
-1A	251T2651-4		BELLCRANK ASSY-ELEV CONT SYS	B	RF
5	KP4FS428		.BEARING- (V21335) (SPEC BACB10BY4) (OPT KP4-2TS (V43991)) (OPT KP4TT (V43991)) (OPT LLKP4 (V38443)) (OPT KP4G27 (V30163))		1
10	251T2651-2		.BELLCRANK	A	1
-10A	251T2651-5		.BELLCRANK	B	1



Elevator Control System Bellcrank Assembly
Figure 3

T93257

FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
03-					
-1	251T2652-1		BELLCRANK ASSY-ELEV CONT SYS	A	RF
-1A	251T2652-7		BELLCRANK ASSY-ELEV CONT SYS	B	RF
-5	251T2652-2		BELLCRANK ASSY-ELEV CONT SYS	C	RF
-5A	251T2652-8		BELLCRANK ASSY-ELEV CONT SYS	D	RF
10	KP4FS428		.BEARING- (V21335) (SPEC BACB10BY4) (OPT KP4-2TS (V43991)) (OPT KP4TT (V43991)) (OPT LLKP4 (V38443)) (OPT KP4G27 (V30163))		1
15	251T2652-3		.BELLCRANK	A	1
-15A	251T2652-9		.BELLCRANK	B	1
-20	251T2652-4		.BELLCRANK	C	1
-20A	251T2652-10		.BELLCRANK	D	1



Elevator Control Idler Crank Assembly
Figure 4

T93258

FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
04-					
-1	251T2663-1		CRANK ASSY-ELEV CONT IDLER		RF
5	KP4AFS428		.BEARING- (V21335) (SPEC BACB10BX4) (OPT KP4A2TS (V43991)) (OPT LLKP4A (V38443)) (OPT KP4AG27 (V30163))		1
10	251T2663-2		.CRANK		1