TO: ALL HOLDERS OF RUDDER PEDAL STEERING SYSTEM ASSEMBLY OVERHAUL MANUAL, 32-57-01

REVISION NO. 9, DATED JUL 1/05

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D&O	D/Assy	Cleaning	Insp/Chk	Repair	Assy	F/C	Test	T/Shooting	S/Tools	Storage	IPL	L/Overhaul
Changed bore depth callouts on steering crank (60)					X								

RUDDER PEDAL STEERING SYSTEM ASSEMBLY

32-57-01

BOEING P/N 65-26174-7, -9, -12, -14, -16, -18, thru -21, -23, -25, -27, -30, -32

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT
		PRR 22670	Aug 15/68
		PRR 30745	Aug 15/68
		PRR 23158-85	Aug 10/72
32-198		PRR 23251	May 10/73
		PRR 32070-22	Jun 25/74
		PRR 24017	Jan 5/80
		PRR 32625	Jan 5/80
		PRR 33321	Mar 5/85

LIST OF EFFECTIVE PAGES

* Indicates pages revised, added or deleted in latest revision
F Indicates foldout pages - print one side only

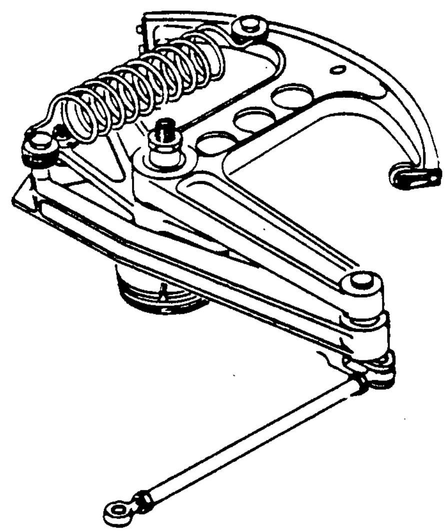
	PAGE	DATE	PAGE	DATE	PAGE	DATE
	32-57-01					
	T-1	Dec 5/86				
	T-2	BLANK				
*	LEP-1	Jul 1/05				
	LEP-2	BLANK				
	T/C-1	Mar 5/85				
	T/C-2	BLANK				
	1	Mar 5/85				
	2	Mar 5/85				
	101	Dec 5/86				
	102	BLANK				
	301	Dec 5/86				
	302	BLANK				
	401	Dec 5/86				
	402	Dec 5/86				
	403	Dec 5/86				
	404	Dec 5/86				
	405	Dec 5/92				
*	406	Jul 1/05				
*	407	Jul 1/05				
	408	Dec 5/86				
	409	Dec 5/86				
	410	Dec 5/86				
	411	Dec 5/86				
	412	Dec 5/86				
*	413	Jul 1/05				
	414	Jun 5/88				
	415	Dec 5/86				
	416	Dec 5/86				
	417	Dec 5/86				
	418	Dec 5/86				
	419	Dec 5/86				
	420	BLANK				
	501	Dec 5/86				
	502	Dec 5/86				
	601	Dec 5/86				
	602	Dec 5/86				
	603	Dec 5/86				
	604	Jun 1/95				
	1101	Aug 15/68				
	1102	Nov 20/93				
	1103	Dec 5/86				
	1104	Dec 5/86				
	1105	Dec 5/86				
	1106	Dec 5/86				

TABLE OF CONTENTS

*[1] Special instructions not required. Use standard industry practices and the information contained in 20-30-01 and 20-30-03.

*[2] Special instructions not required. Use standard industry practices and the information contained in 20-44-02 and 20-70-01.

RUDDER PEDAL STEERING SYSTEM ASSEMBLY



Rudder Pedal Steering System Assembly
Figure 1

DESCRIPTION AND OPERATION

1. The rudder pedal steering system assembly consists of a steering crank, a clutch arm, a cable drum, an eccentric mounted in a clutch crank and a quadrant.

2. The assembly connects the rudder pedals to the nose wheel steering and is activated when the nose gear is compressed by the airplane weight. This compression movement of the nose gear is transmitted by linkage and cables to move the eccentric and reposition the clutch crank to prevent stops on the clutch crank from contacting the clutch arm. Instead, the clutch arm contacts the stops on the steering crank allowing any movement of the rudder pedals to be transmitted from the steering arm to the quadrant. This quadrant connects to the nose wheel steering cables and is free to move with the cables whenever nose wheel steering is used, or to drive the cables when positioned by the rudder pedal system.

3. When the nose gear shock strut is not compressed, the action of the eccentric moves the stops on the clutch crank into contact with the clutch arm. This prevents any movement of the rudder pedals from reaching the clutch arm and moving the quadrant.

4. Leading Particulars (Approximate)

   Length -- 17 inches
   Width -- 9 inches
   Height -- 6 inches
   Weight -- 6 pounds

DISASSEMBLY

NOTE: Refer to Fig. 1101 for item numbers.

1. Remove parts (1 thru 7) and spring (8).
2. Remove parts (9 thru 13). Separate rod (15) from steering arm (14) and steering crank (53). Do not dissassemble rod (15), or remove rivet (25) and idler rod (26) from clutch crank (73) unless necessary for repair or replacement.
3. Remove parts (27 thru 30) and cable end plate (31) from quadrant (46).
4. Remove parts (32 thru 37) and clutch arm (38). Do not disassemble clutch arm (38) unless necessary for repair or replacement.
5. Remove parts (41 thru 45) and quadrant (46) from shaft (81). Do not disassemble quadrant (46) unless necessary for repair or replacement.
6. Remove bearings (50), spacers (51, 52) and steering crank (53). Do not disassemble steering crank (53) unless necessary for repair or replacement.
7. Remove drum and eccentric assembly (61) from shaft (81).
8. Unscrew nuts (62). Remove screws (63), eccentric (64), items (67 thru 72A) and bearing (82) from clutch crank (73). Do not disassemble eccentric (64) or clutch crank (73) unless necessary for repair or replacement.

INSPECTION/CHECK

1. Check all parts for obvious defects in accordance with standard industry practices. Refer to Fits and Clearances for design dimensions and wear limits.

2. Magnetic particle check shaft (81) per 20-20-01.

3. Penetrant check clutch arm (40), quadrant (49), steering crank (60), eccentric (66), drum (71) and clutch crank (80) per 20-20-02.

4. Check spring per Fig. 301. Spring shall return to free length with no permanent set.

Index No. Fig.1101	Approximate Free Length (Inches)	Test Length (Inches)	Allowable Load Limits (Pounds)
8	3.47	9.98 - 10.02 7.48 - 7. 52	20.43 - 22.57 13.30 - 14.70

Spring Check Data
Figure 301

REPAIR

1. Materials

   NOTE: Equivalent substitutes may be used.

   A. Primer -- Zinc Chromate, TT-P-757, color Y (Ref 20-60-02)

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

   C. Corrosion Preventive Compound -- MIL-C-16173, grade 2 (Ref 20-60-02)

2. Repair (Fig. 1101)

   A. Repair minor defects in accordance with standard industry practices. Refer to Fits and Clearances for design dimensions and wear limits.

   B. Clutch arm (40) (Fig. 401)

      (1) Machine bores as required, within repair limits, to remove defects.

      (2) Manufacture repair bushings (Fig. 408) as required, to compensate for amount of material removed in step (1).

      (3) Install bushings by shrink fit method per 20-50-03, with wet primer BMS 10-11, type 1 on faying surfaces.

      (4) Machine bushing bores to finish dimensions shown. On arm 65-25861-2, this upgrades original slip fit of bearing (39) to press fit.

   C. Quadrant (49), steering crank (60), eccentric (66), clutch crank (80) (Fig. 402, 403, 404, 406)

      (1) Machine bores as required, within repair limits, to remove defects.

      (2) Manufacture repair bushings (Fig. 408) as required, to compensate for amount of material removed in step (1).

      (3) Install bushings by shrink fit method per 20-50-03, with wet primer BMS 10-11, type 1 on faying surfaces.

      (4) Machine bushing bores to design dimensions and finish.

D. Drum (71) (Fig. 405)

(1) Machine bore as required, within repair limits, to remove defects.

(2) Manufacture repair bushing (Fig. 408) as required, to compensate for amount of material removed in step (1).

(3) Install bushing by shrink fit method per 20-50-03, with wet primer BMS 10-11, type 1 on faying surfaces.

(4) Machine bushing bore to design dimensions and finish. Restore slots and drilled holes as necessary.

2. Refinish (Fig. 1101)

NOTE: Refer to 20-30-02 for stripping of protective finishes and to 20-41-01 for explanation of F and SRF finish codes.

A. Spring (9) -- Cadmium plate and apply primer, BMS 10-11, type 1 (SRF-1.92). Material: Music wire, QQ-W-470.

B. Steering arm (14) -- Chromic acid anodize and apply primer, BMS 10-11, type 1 (SRF-2.30). Material: Al Alloy.

C. Tubes (20, 24) -- Alodize and apply primer, BMS 10-11, type 1 (SRF-2.901). Material: Al alloy.

D. Plate (31) -- Cadmium plate (F-1.913). Material: 4130 steel, normalized.

E. Bolt (35) -- Cadmium plate (F-1.1923). Material: 4340 or 8740 steel.

F. Spacers (37, 43, 45, 51, 52, 68, 69) -- Cadmium plate (F-1.1913). Material: 4340 or 4330M steel, 200-220 ksi.

G. Clutch arm (40) -- Fig. 401.

H. Quadrant (49) -- Fig. 402.

I. Steering crank (60) -- Fig. 403.

J. Eccentric (66) -- Fig. 404.

K. Drum (71) -- Fig. 405.

L. Plate (72) -- Chromic acid anodize and apply primer, BMS 10-11, type 1 (SRF-2.30). Material: Al alloy.

M. Clutch crank (80) -- Fig. 406

N. Shaft (81) -- Fig. 407.

3. Replacement (Fig. 1101)

   A. Replace all cotter pins.

   B. Rod (15) components -- Fig. 409

      CAUTION: DO NOT SUBSTITUTE OTHER TYPES OF RIVET FOR RIVET (19), OR CONTROLLED SHEAROUT CHARACTERISTICS WILL BE AFFECTED.

   C. Bearings (39, 48, 57, 65, 77, 78) (Fig. 410 thru 414)

      (1) Remove existing bearing.

      (2) Install replacement bearing, using wet primer on bearings (39, 48) only.

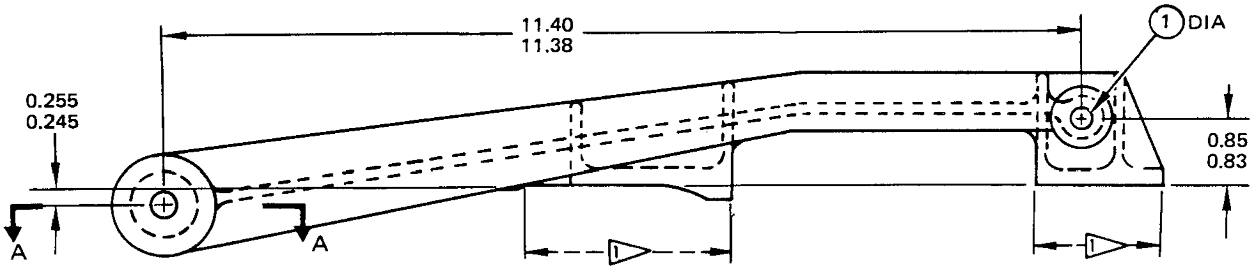
      (3) Roller swage bearings (39, 46, 78).

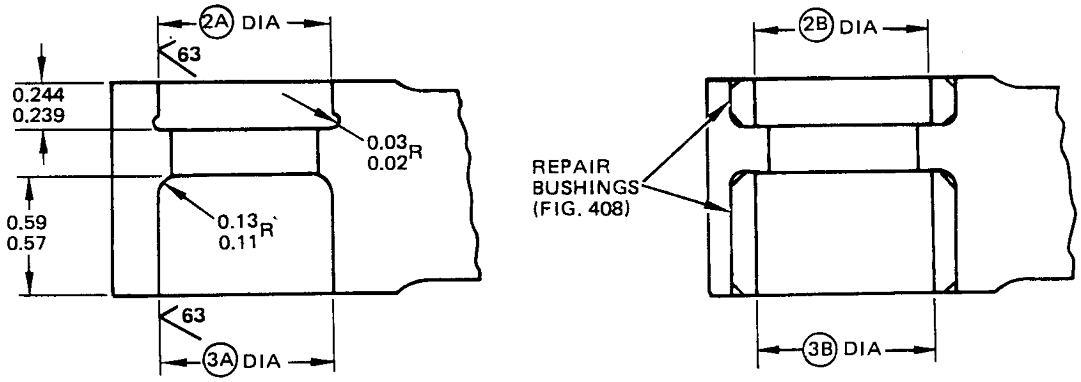
      (4) Install fasteners for bearings (57, 77) as indicated.

   D. Bushing (47) (Fig. 411)

      (1) Remove existing bushing.

      (2) Apply wet primer and press bushing in place.





ORIGINAL CONFIG

REPAIRED CONFIG

A–A

	1	2A	2B	3A 4	3A 5	3B
DESIGN DIM	0.261 0.250	0.8118 0.8113	0.8120 0.8115	0.8135 0.8125	0.8118 0.8113	0.8120 0.8115
REPAIR LIMIT 3	––	0.94	––	0.94	0.94	––

REFINISH

ALODIZE OR CHROMIC ACID ANODIZE AND APPLY PRIMER, BMS 10–11, TYPE 1 (SRF–2.30), EXCEPT OMIT PRIMER IN HOLES AND AREAS NOTED 1

1 HARD ANODIZE (F–2.204)

2 THESE DIAS CONCENTRIC WITHIN 0.005 TIR

3 LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

4 65–25861–2

5 65–25861–7

REPAIR

REF 3

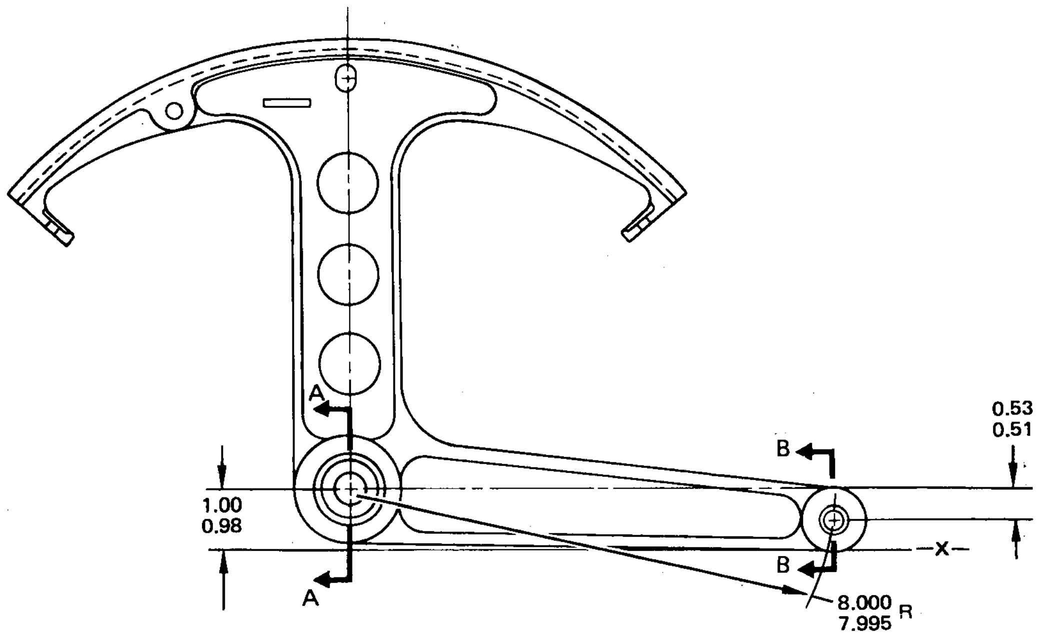
125 MACHINE FINISH EXCEPT AS NOTED

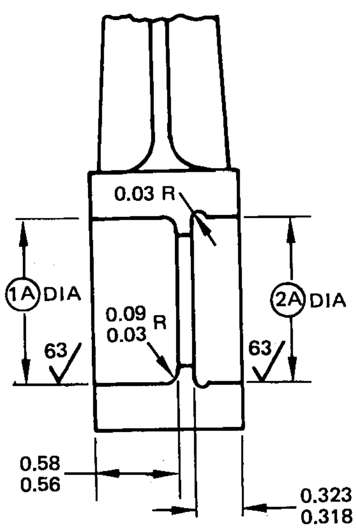
MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

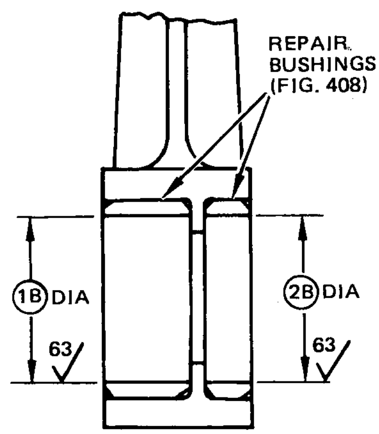
CLUTCH ARM (40)
65–25861–2, –7

Clutch Arm Repair and Refinish
Figure 401

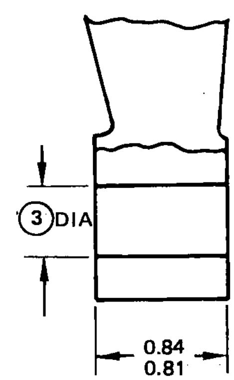




ORIGINAL CONFIG
A–A



REPAIRED CONFIG
A–A



B–B

	1A	1B	2A	2B	3
DESIGN DIM	1.1243 1.1238	1.1243 1.1238	1.1243 1.1238	1.1243 1.1238	0.4381 0.4376
REPAIR LIMIT 1	1.25	——	1.25	——	——

REFINISH

ANODIZE OR TREAT AND APPLY PRIMER, BMS 10–11, TYPE 1 (SRF–3.30), EXCEPT OMIT PRIMER IN GROOVE AND BORES FOR BUSHING & BEARINGS

1 LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

QUADRANT (49)
65–25843–2

REPAIR

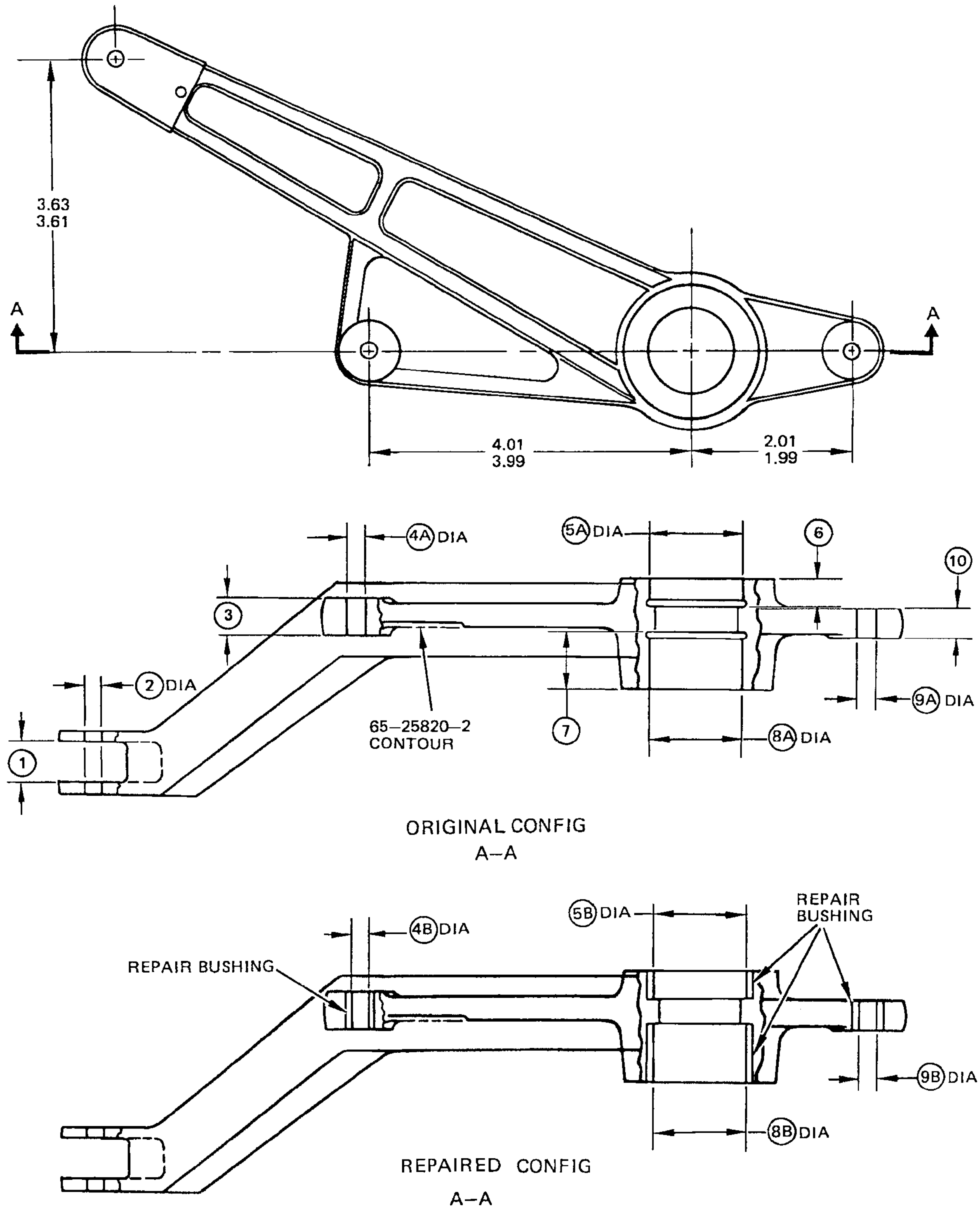
REF 1

125 MACHINE FINISH EXCEPT AS NOTED

MATERIAL: AZ91C MG ALLOY

ALL DIMENSIONS ARE IN INCHES

Quadrant Repair and Refinish
Figure 402



STEERING CRANK (60)
65-25820-2,-5,-10

Steering Crank Repair and Refinish
Figure 403 (Sheet 1)

	1	2	3	4A	4B	5A	5B	6	7
DESIGN DIM	0.438 0.437	0.194 0.190	0.435 0.425	0.192 0.191	0.192 0.191	1.1243 1.1238	1.1243 1.1238	0.373 0.363	0.705 0.675
REPAIR LIMIT 1	--	--	--	0.32	--	1.25	--	--	--

	8A	8B	9A	9B	10
DESIGN DIM	1.1243 1.1238	1.1243 1.1238	0.192 0.191	0.192 0.191	0.345 0.335
REPAIR LIMIT 1	1.25	--	0.32	--	--

REFINISH

CHROMIC ACID ANODIZE AND APPLY BMS 10-11 TYPE 1 PRIMER (SRF-2.30), BUT NO PRIMER IN BORES.

1 LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

REPAIR

REF 1

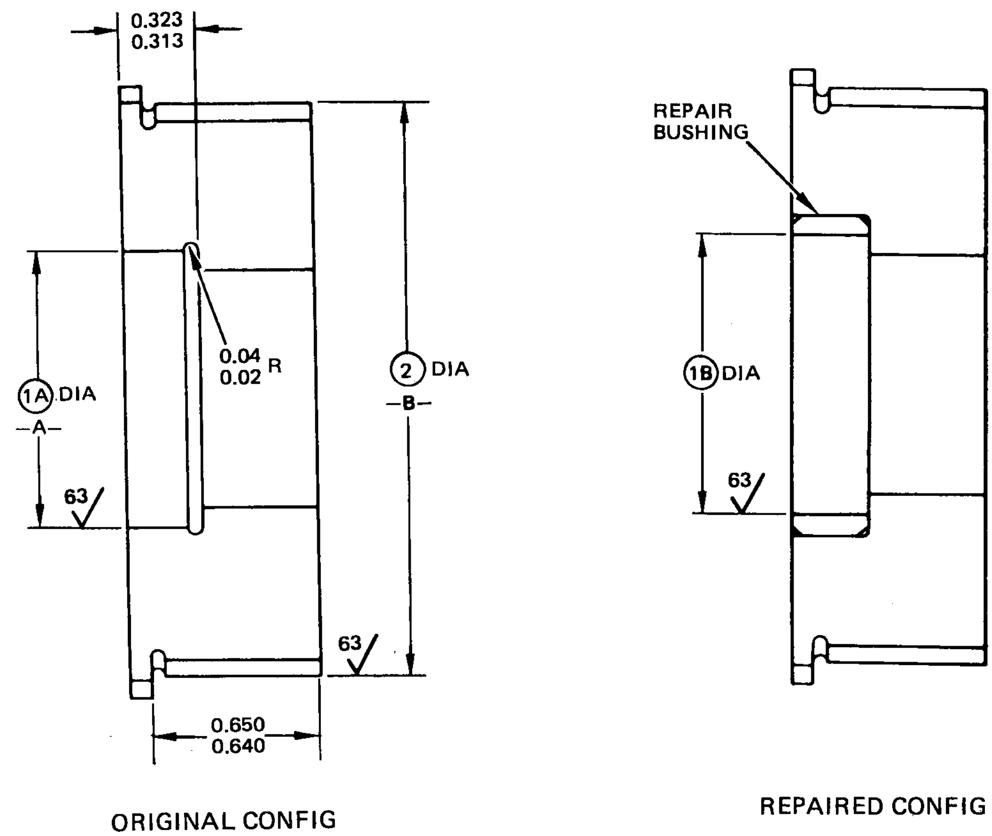
125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

STEERING CRANK (60)
65-25820-2,-5,-10

Steering Crank Repair and Refinish
Figure 403 (Sheet 2)



	1A	1B	2
DESIGN DIM	1.1245 1.1240	1.1245 1.1240	2.3115 2.3105
REPAIR LIMIT 1	1.25	--	--

REFINISH

CHROMIC ACID ANODIZE AND APPLY PRIMER, BMS 10-11, TYPE 1 (SRF-2.30) EXCEPT OMIT ENAMEL ON DIAS -A- , -B-

1 LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

REPAIR

REF 1

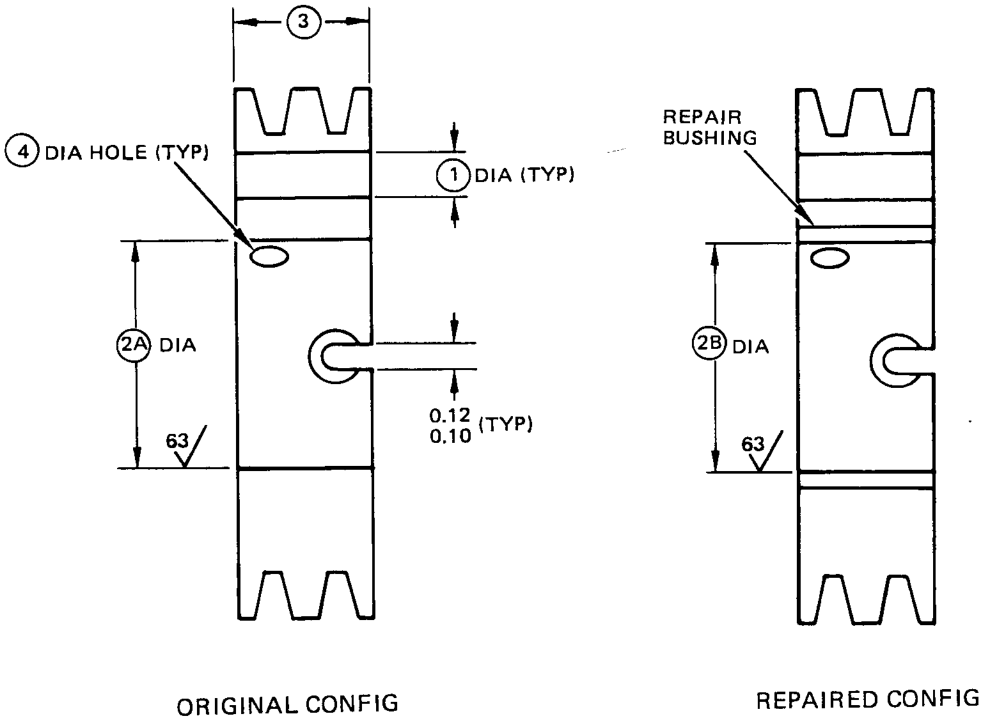
125 MACHINE FINISH EXCEPT AS NOTED

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

ECCENTRIC (66)
69-20309-2

Eccentric Repair and Refinish
Figure 404



	1	2A	2B	3	4
DESIGN DIM	0.254 0.253	1.1245 1.1240	1.1245 1.1240	0.685 0.675	0.258 0.255
REPAIR LIMIT [1]	——	1.25	——	——	——

REFINISH

CHROMIC ACID ANODIZE AND APPLY PRIMER, BMS 10-11, TYPE 1 (SRF-2.30) EXCEPT OMIT PRIMER FROM GROOVES

[1] LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

REPAIR

REF [1]

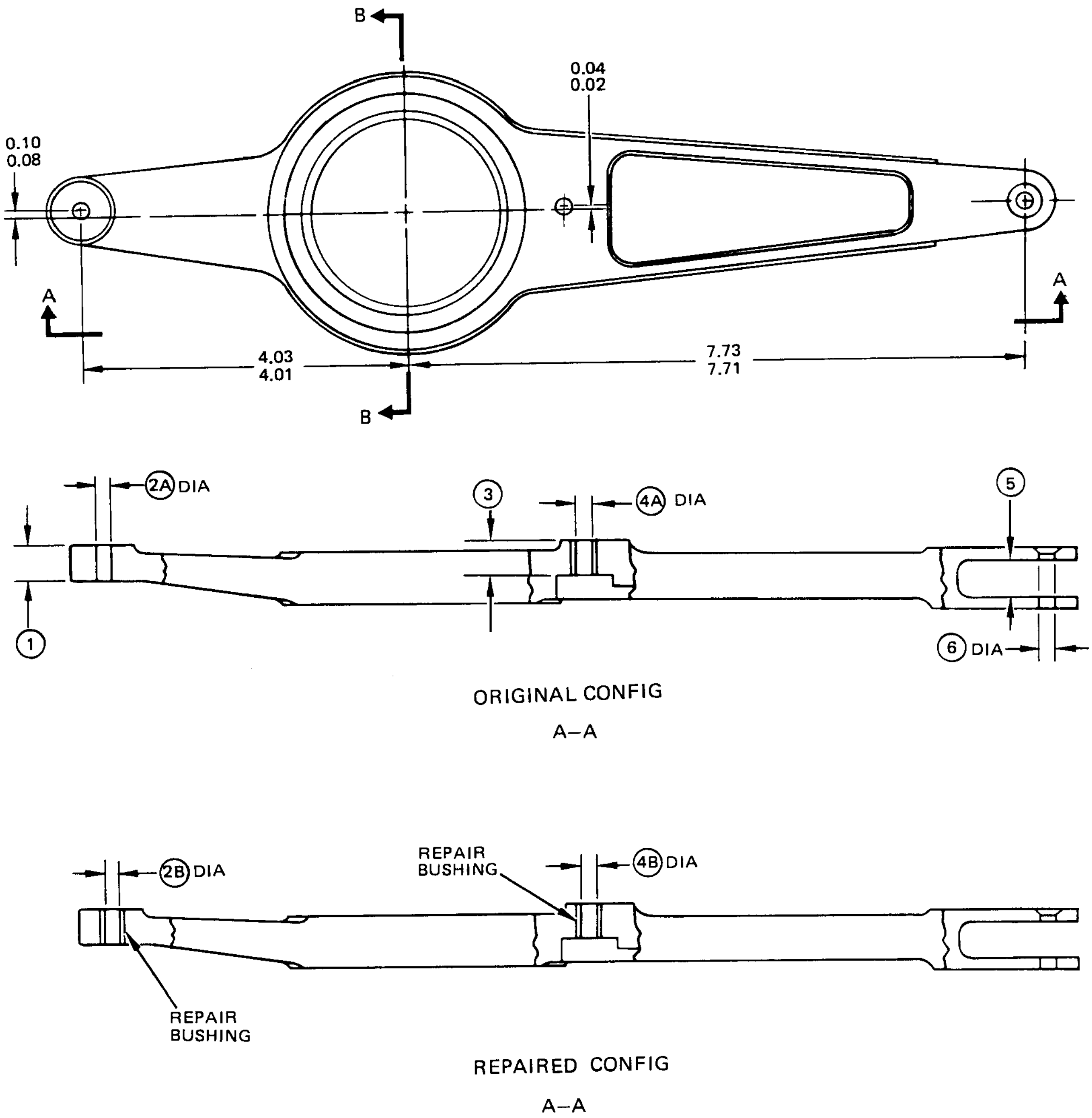
125 MACHINE FINISH EXCEPT AS NOTED

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

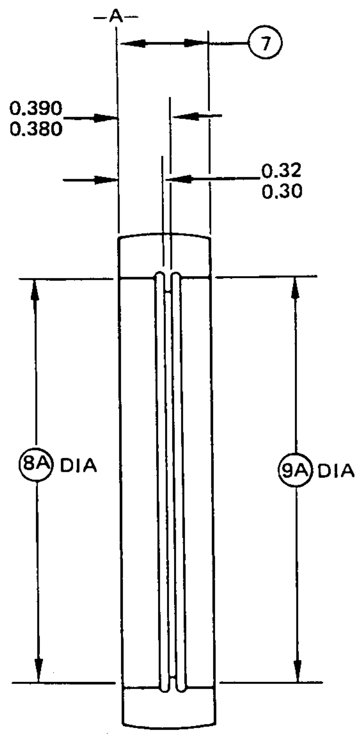
DRUM (71)
69-20285-2

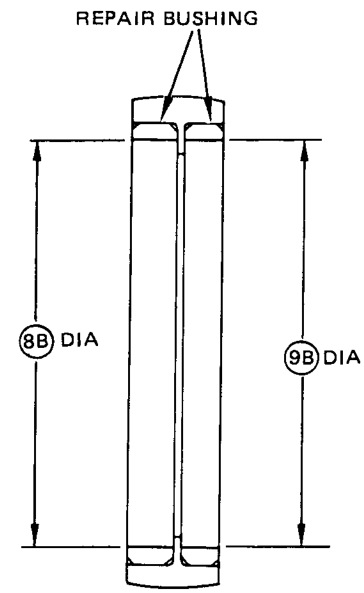
Drum Repair and Refinish
Figure 405



CLUTCH CRANK (80)
65–25844–2, –6, –9

Clutch Crank Repair and Refinish
Figure 406 (Sheet 1)





	1	2A	2B	3	4A	4B	5	6	7
DESIGN DIM	0.44 0.40	0.192 0.191	0.192 0.191	0.44 0.40	0.192 0.191	0.192 0.191	0.438 0.437	0.199 0.190	0.641 0.639
REPAIR LIMIT 1	--	0.32	--	--	0.32	--	--	--	--

	8A	8B	9A	9B
DESIGN DIM	2.8760 2.8750	2.8760 2.8750	2.8760 2.8750	2.8760 2.8750
REPAIR LIMIT 1	3.00	--	3.00	--

REFINISH

CHROMIC ACID ANODIZE AND APPLY PRIMER, BMS 10-11, TYPE 1 (SRF-2.30), ALL OVER.

1 LIMIT FOR INSTL OF REPAIR BUSHING (FIG. 408)

REPAIR

REF 1

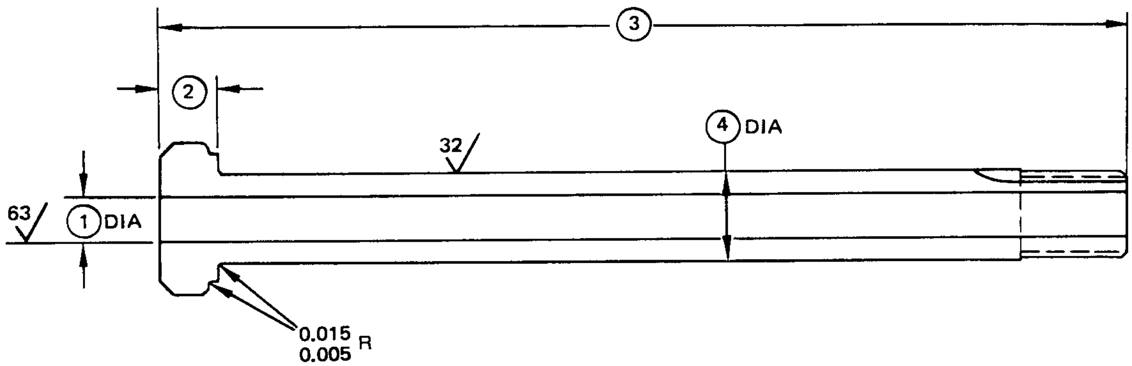
125 MACHINE FINISH

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES.

CLUTCH CRANK (80)
65-25844-2, -6, -9

Clutch Crank Repair and Refinish
Figure 406 (Sheet 2)



	1	2	3	4
DESIGN DIM	0.255 0.250	0.275 0.265	5.505 5.495	0.4991 0.4982
REPAIR LIMIT	--	--	--	--

REFINISH

CADMIUM PLATE (F-1.1913) EXCEPT ON THREADS. APPLY CORROSION PREVENTIVE COMPOUND MIL-C-16173 GRADE 2 ON THREADS AND IN BORE.

REPAIR

(SAME AS REFINISH)

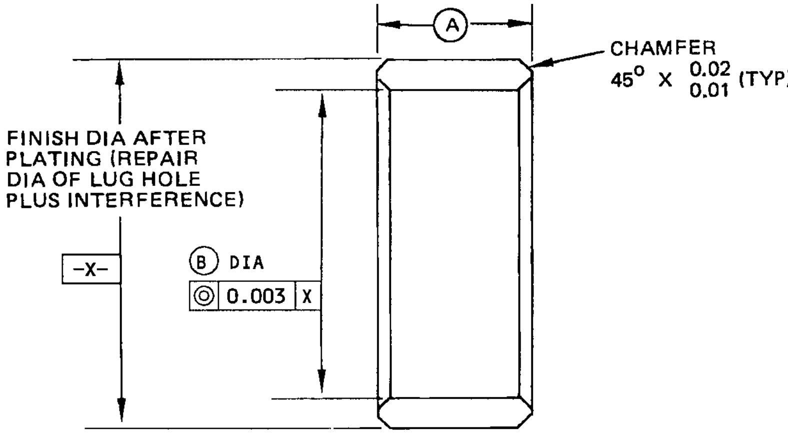
125 MACHINE FINISH EXCEPT AS NOTED

MATERIAL: 4340 STEEL, 200-220 KSI

ALL DIMENSIONS ARE IN INCHES

SHAFT (81)
66-15669-1

Shaft Repair and Refinish
Figure 407



APPLICATION		A [1]	B	INTERFERENCE	REMARKS
FIG.	LOCATION				
401	2A	0.24 0.23	0.810 0.800	0.0012 0.0004	
401	3A	0.57 0.56	0.810 0.800	0.0012 0.0004	
402	1A	0.56 0.55	1.12 1.11	0.0025 0.0005	
402	2A	0.32 0.31	1.12 1.11	0.0025 0.0005	
403	4A	0.425 0.420	0.425 0.420	0.0013 0.0002	[2]
403	5A	0.363 0.358	1.12 1.11	0.0025 0.0005	
403	8A	0.675 0.670	1.12 1.11	0.0025 0.0005	
403	9A	0.335 0.330	0.191 0.190	0.0013 0.0012	[2]
404	1A	0.313 0.308	1.12 1.11	0.0025 0.0005	
405	2A	0.675 0.670	1.12 1.11	0.0025 0.0005	
406	2A	0.40 0.39	0.191 0.190	0.0013 0.0002	[2]
406	4A	0.40 0.39	0.191 0.190	0.0013 0.0002	[2]
406	8A	0.30 0.29	2.875 2.865	0.0039 0.0019	
406	9A	0.25 0.24	2.875 2.865	0.0039 0.0019	

FINISH

CADMIUM PLATE (F-15.06); OPT IN ID

[1] OR AS REQUIRED FOR FLUSH INSTL IN HOLE

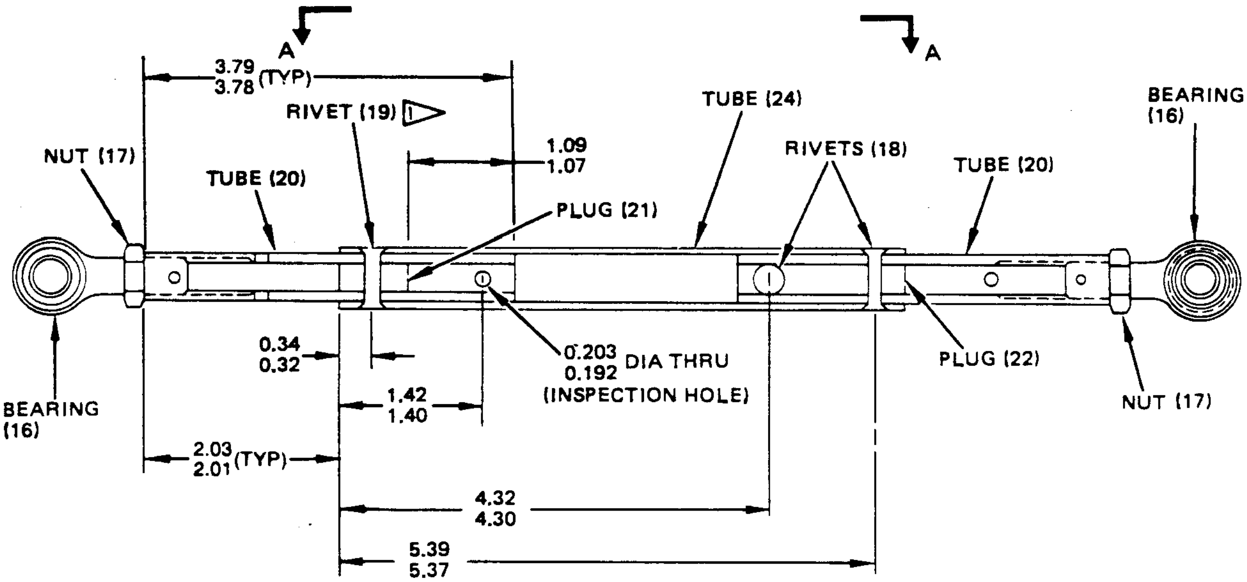
[2] NAS75-3 OR EQUIVALENT CAN BE USED

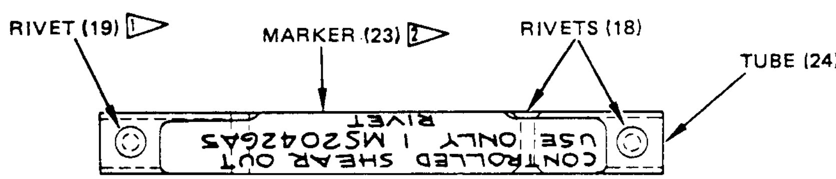
125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

MATERIAL: 4130 OR 8630 STEEL, 125-145 KSI

ALL DIMENSIONS ARE IN INCHES

Repair Bushing Details
Figure 408





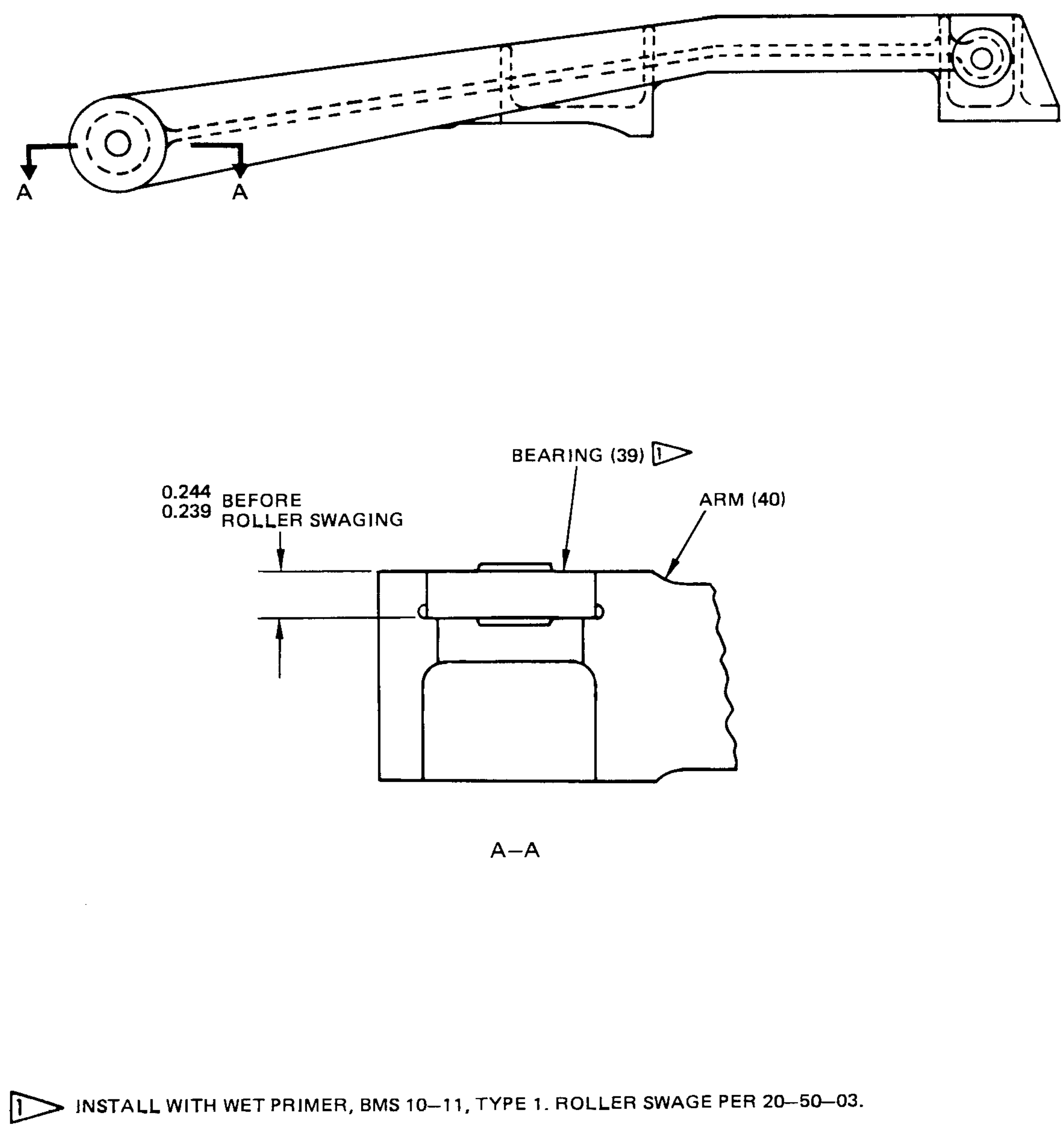
A–A

1 DO NOT SUBSTITUTE OTHER TYPES OF RIVET

2 APPLY MARKER, AND EDGE SEAL WITH TYPE 41 PROTECTIVE COATING, PER 20–50–05.

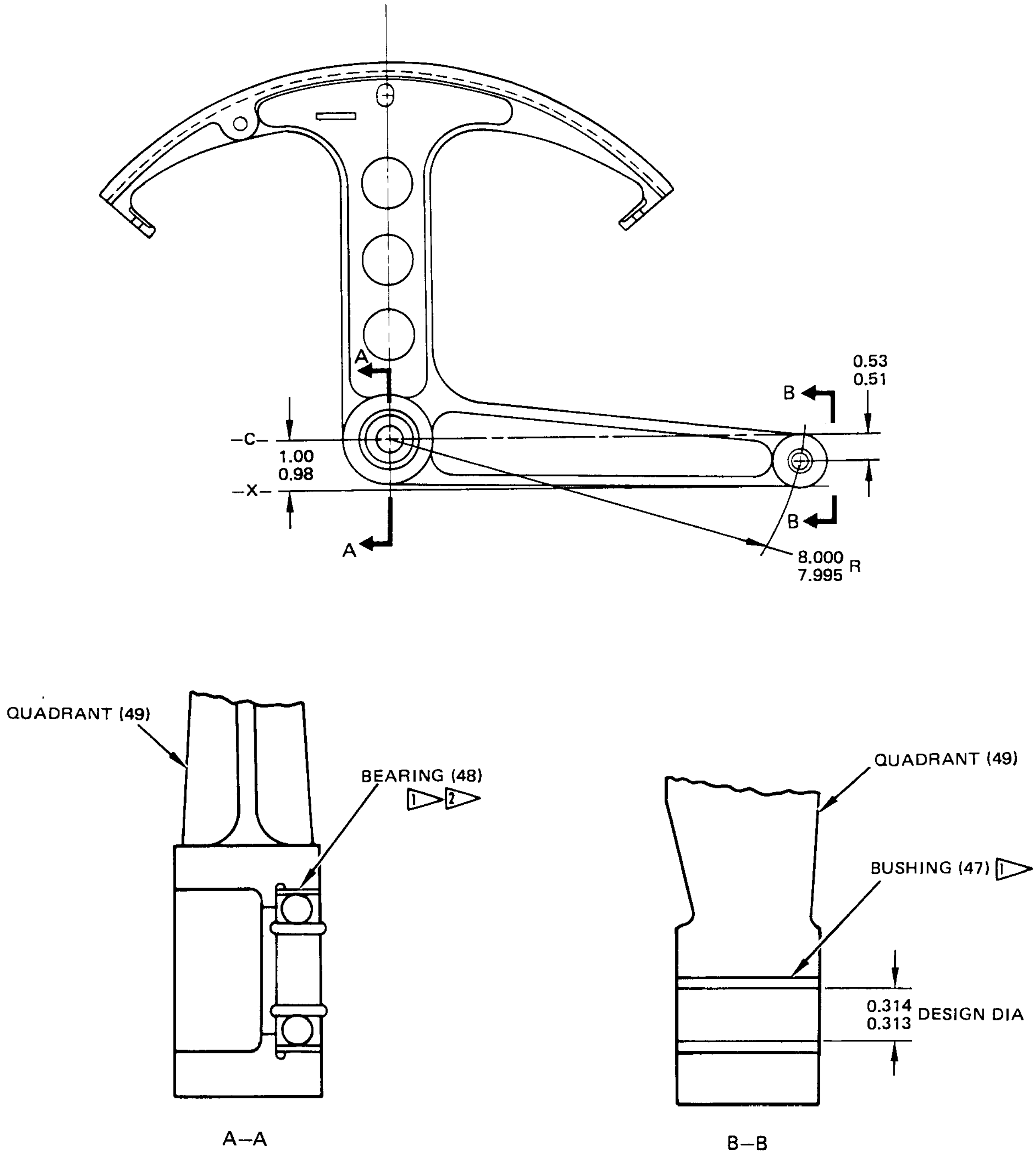
ROD ASSEMBLY (15)
69–20495–1

Rod Assembly Parts Replacement
Figure 409



CLUTCH ARM (38)
65–25861–1, –6

Clutch Arm Bearing Replacement
Figure 410

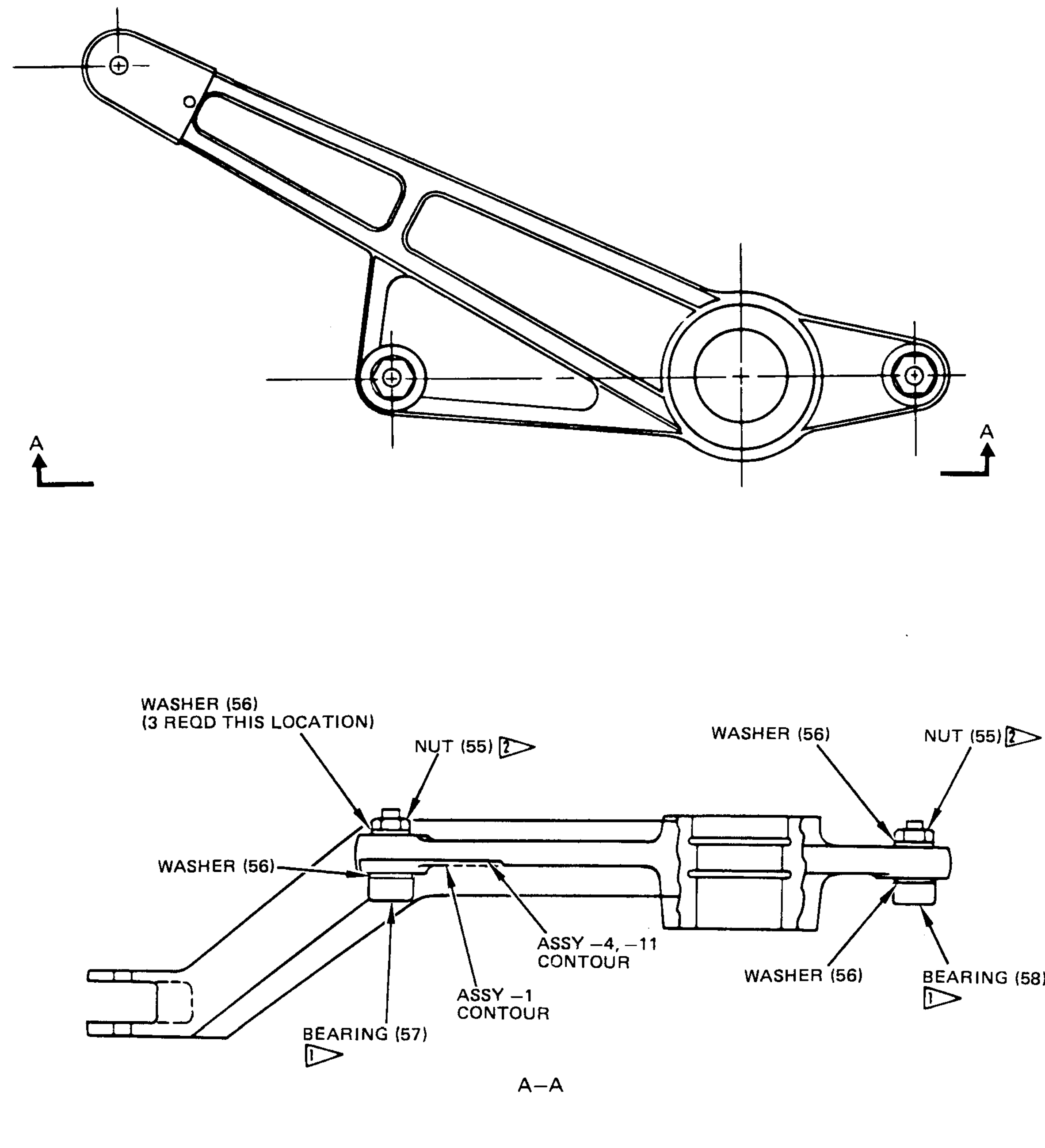


1 INSTALL WITH WET PRIMER BMS 10-11 , TYPE 1. (PRESS FIT)

2 ROLLER SWAGE PER 20-50-03

QUADRANT (46)
65-25843-1

Quadrant Parts Replacement
Figure 411

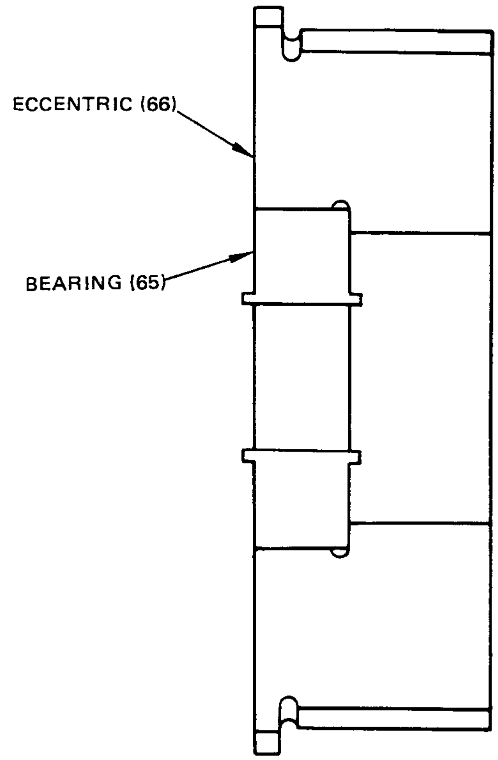


1 NAS516 LUBE FITTING SHALL NOT PROTRUDE BEYOND EDGE OF BEARING. IF PROTRUSION OCCURS, REMOVE FITTING AND PLUG HOLE WITH PLUG (59).

2 COTTER PIN (54) NOT SHOWN

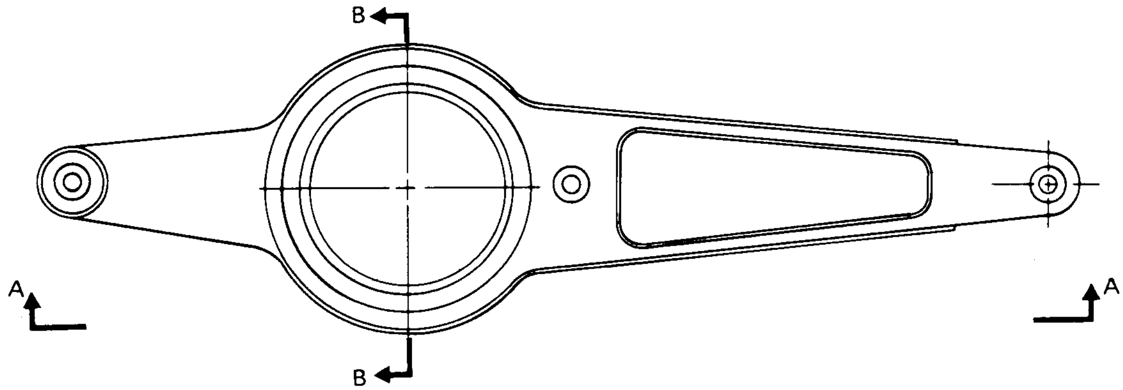
CRANK (53)
65-25820-1, -4, -11

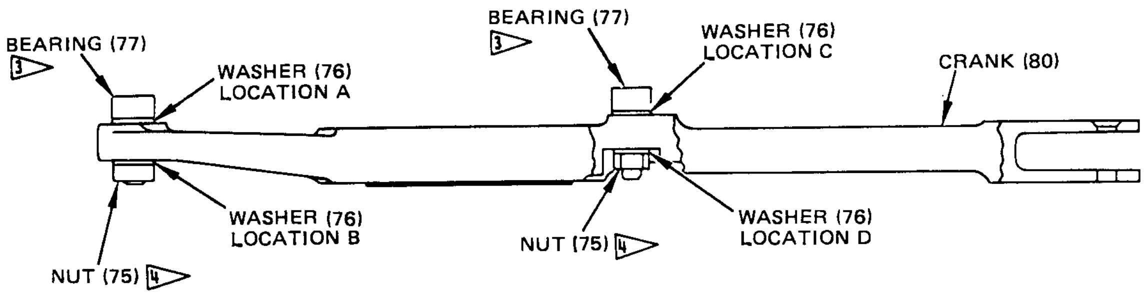
Steering Crank Parts Replacement
Figure 412



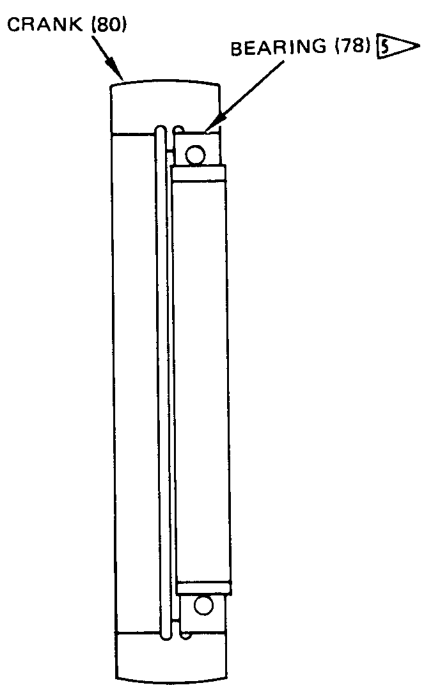
ECCENTRIC (64)
69-20309-1

Eccentric Parts Replacement
Figure 413





A–A



B–B

PART NO.	A	B	C	D
65–25844–1	2	2	2	2
65–25844–4	1	2	1	2
65–25844–5	– –	2	– –	2
65–25844–8	– –	2	– –	2

WASHER (76) USAGE

1 AN960PD10

2 AN960PD10L

3 NAS516 LUBE FITTING SHALL NOT PROTRUDE BEYOND EDGE OF BEARING. IF PROTRUSION OCCURS, REMOVE LUBE FITTING AND PLUG HOLE WITH PLUG (79).

4 COTTER PIN (74) NOT SHOWN

5 ROLLER SWAGE PER 20–50–03

CLUTCH CRANK (73)
65–25844–1, –4, –5, –8

Clutch Crank Parts Replacement
Figure 414

ASSEMBLY

NOTE: Refer to Fig. 1101 for item numbers. Refer to Fig. 501 for assembly details.

1. Drum and eccentric assembly (61)

   A. Assemble clutch crank (73), parts (72A thru 64), bearing (82), and secure with bolts (63) and nuts (62).

   B. Adjust thickness of shim (72A) to obtain 0.002-0.010-inch gap between retainer plate (72) and eccentric (64).

2. Install drum and eccentric assembly (61) on shaft (81).

3. Install steering crank (53), spacers (52 and 51), and bearings (50) on shaft (81).

4. Install quadrant (46), parts (45 thru 42) and nut (41). Tighten nut to 100-125 lb-in. Lock in place by bending up washer (42) tab which is nearest to a flat of nut (42).

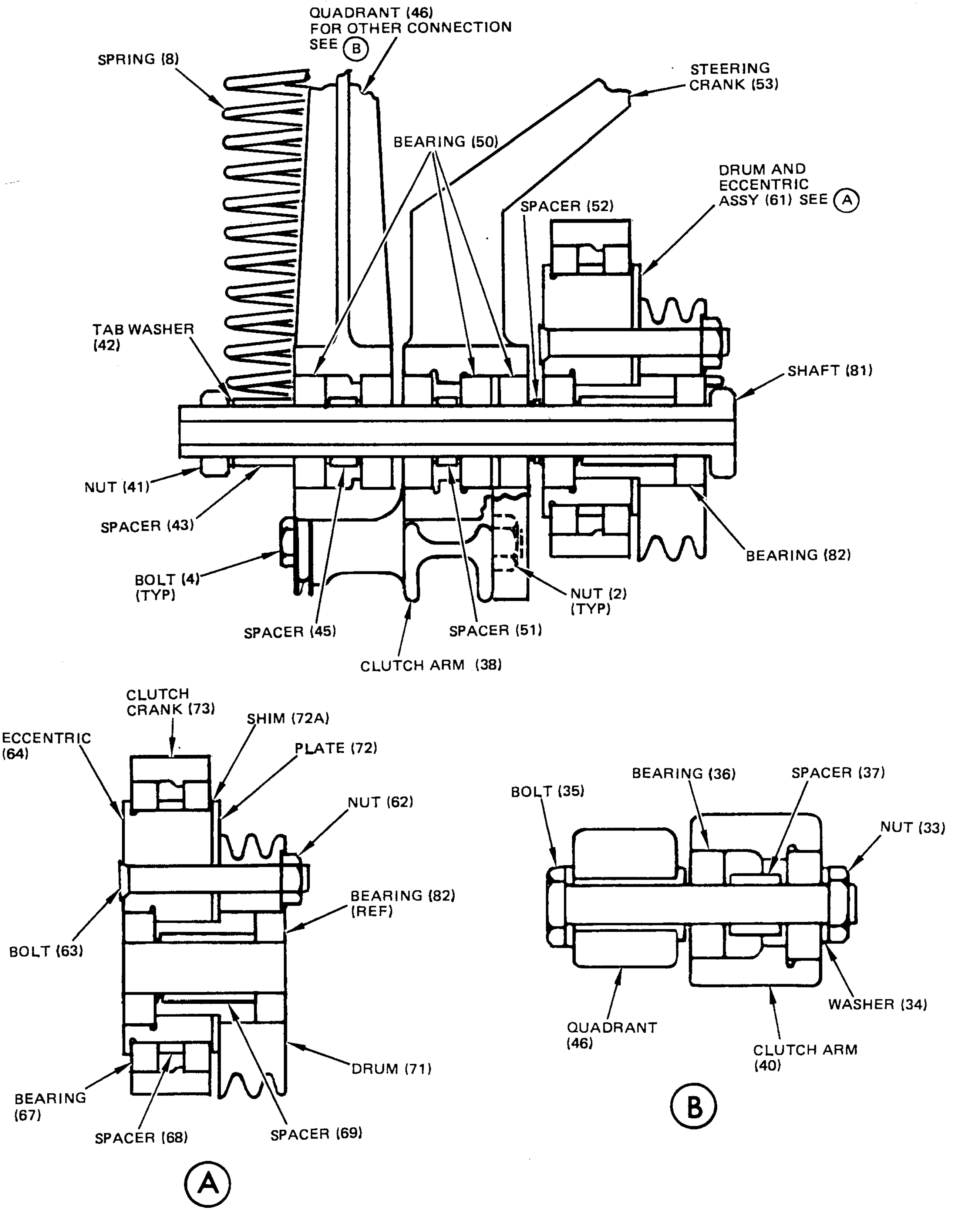
5. Install clutch arm (38) and parts (37 thru 32) on quadrant (46). Tighten nut (32) to 100-140 lb-in.

6. Install cable end plate (31) and items (30 thru 28) on quadrant (46).

7. If removed, install idler rod (26) on drum and eccentric assembly (61). Install rivet (25) with wet primer BMS 10-11, type 1.

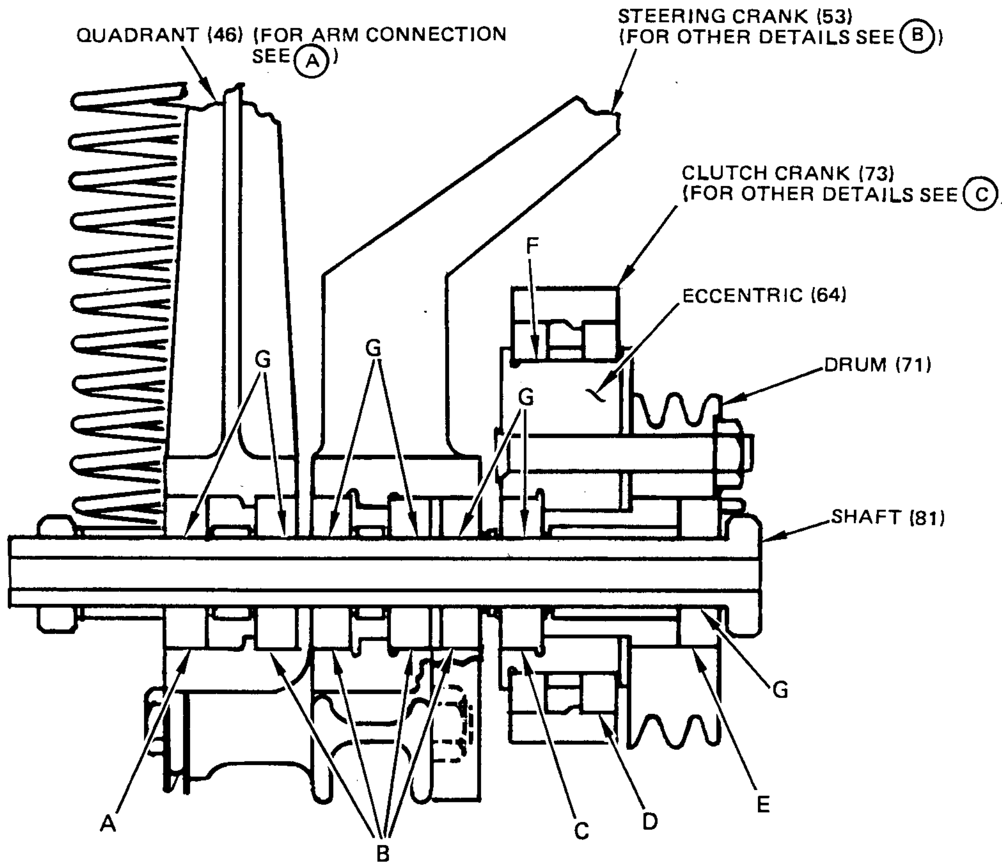
8. Install rod (15) on steering arm (14) with parts (13 thru 10). On assemblies incorporating SB 32-198, install rod (15) at aft hole of arm (14). Do not tighten nut (10) or bend pin (9) at this time. Arm (14) and rod (15) will be disassembled for installation on the airplane.

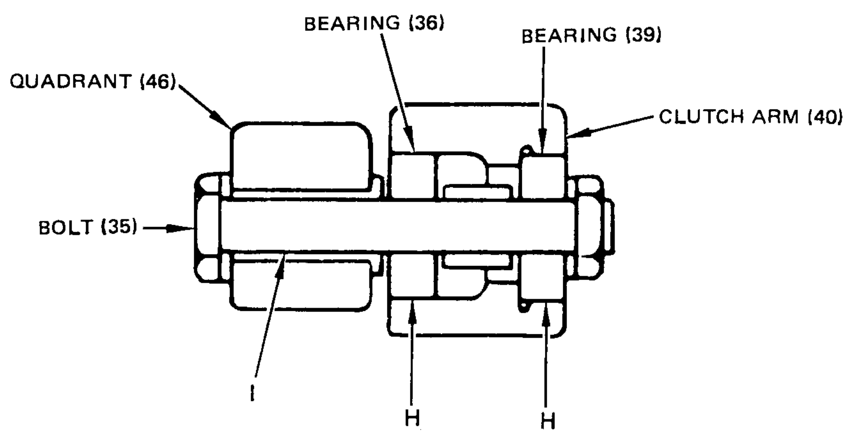
9. Install spring (8) between quadrant (46) and clutch arm (38) with parts (7 thru 2).



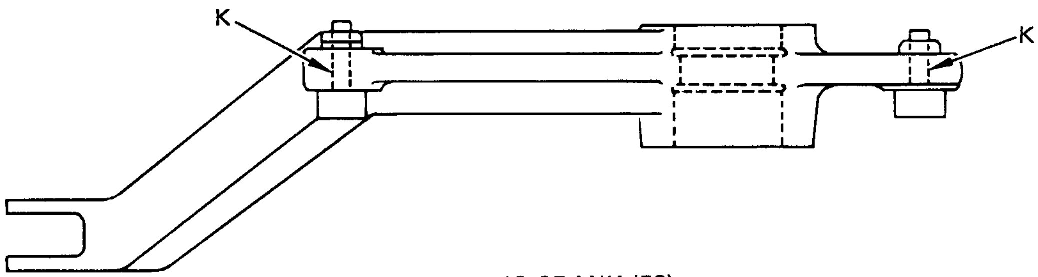
Assembly Details
Figure 501

FITS AND CLEARANCES



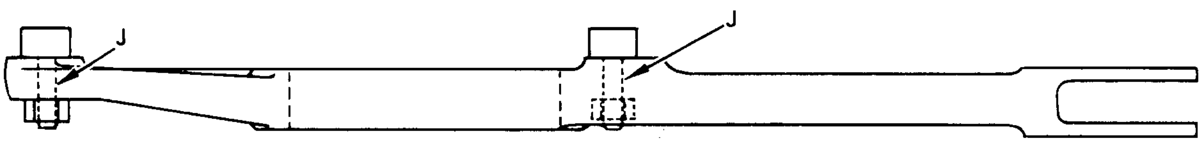


A



STEERING CRANK (53)

B



CLUTCH CRANK (73)

C

Fits and Clearances
Figure 601 (Sheet 2)

		Design Dimensions				Service Wear Limits		
Ref Letter Fig.601	Mating Item No. Fig.1101	Dimensions (inches)		Assembly Clearance (inch)		Dimension Limits (inches)		Maximum Allowable Clearance (inch)
		Min	Max	Min	Max	Min	Max	
A	ID 49	1.1238	1.1243	-0.0012	-0.0002		1.1258	0.0008
	OD 44,48	1.1245	1.1250			1.1240		
B	ID 60	1.1238	1.1243	-0.0012	-0.0002		1.1258	0.0008
	OD 50	1.1245	1.1250			1.1240		
C	ID 66	1.1240	1.1245	-0.0010	-0.0000		1.1260	0.001
	OD 65	1.1245	1.1250			1.1240		
D	ID 80	2.8750	2.8760	0.0000	0.0025		2.8800	0.005
	OD 78	2.8735	2.8750			2.8725		
E	ID 71	1.1240	1.1245	-0.0010	-0.0000		1.1260	0.001
	OD 82	1.1245	1.1250			1.1240		
F	ID 67	2.3115	2.3135	0.0000	0.0030		2.3175	0.006
	OD 64	2.3105	2.3115			2.3085		
G	ID 44,48 50,65,82	0.4995	0.5000	0.0004	0.0018		0.5027	0.0036
	OD 81	0.4982	0.4991			0.4973		

Fits and Clearances
Figure 601 (Sheet 3)

Ref Letter Fig.601	Mating Item No. Fig.1101	Design Dimensions: Dimensions (inches) Min	Design Dimensions: Dimensions (inches) Max	Design Dimensions: Assembly Clearance (inch) Min	Design Dimensions: Assembly Clearance (inch) Max	Service Wear Limits: Dimension Limits (inches) Min	Service Wear Limits: Dimension Limits (inches) Max	Service Wear Limits: Maximum Allowable Clearance (inch)
H	ID 40 *[1]	0.8125	0.8135	0.0000	0.0015		0.8155	0.0025
	OD 39	0.8120	0.8125			0.8115		
H	ID 40 *[2]	0.8113	0.8118	-0.0012	-0.0002		0.8125	-0.0002
	OD 36,39	0.8120	0.8125			0.8115		
I	ID 46	0.313	0.314	0.001	0.003		0.319	0.007
	OD 35	0.311	0.312			0.310		
J	ID 80	0.191	0.192	0.001	0.003		0.197	0.007
	OD 77	0.189	0.190			0.188		
K	ID 60	0.191	0.192	0.001	0.003		0.197	0.007
	OD 57	0.189	0.190			0.188		

-INTERFERENCE FIT

*[1] 65-25861-2

*[2] 65-25861-7

Fits and Clearances
Figure 601 (Sheet 4)

ILLUSTRATED PARTS LIST

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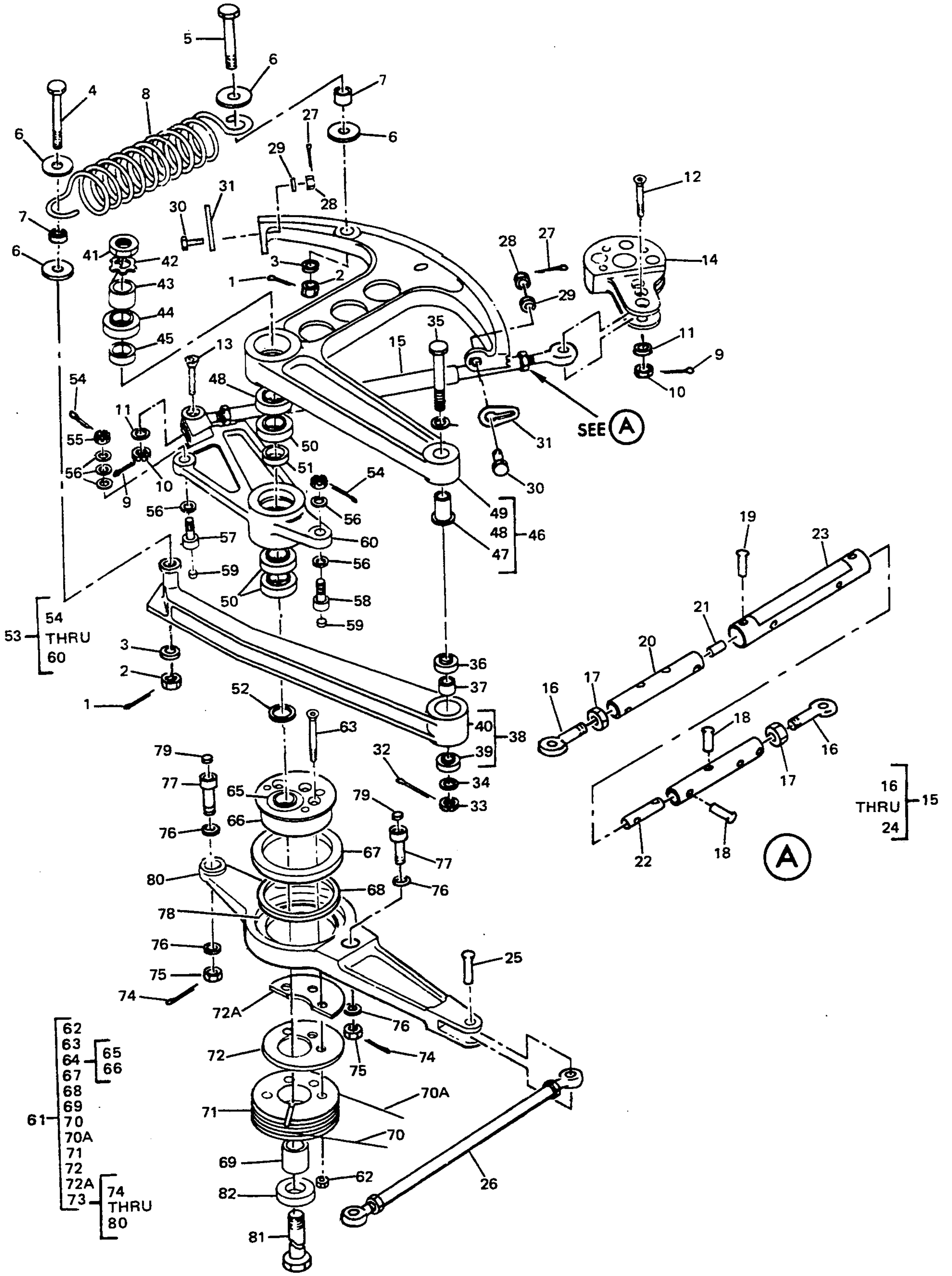

Rudder Pedal Steering System Assembly
Figure 1101

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
	65-26174-7		STEERING SYSTEM ASSY, RUDDER PEDAL	A	RF
	65-26174-9		STEERING SYSTEM ASSY, RUDDER PEDAL	B	RF
	65-26174-12		STEERING SYSTEM ASSY, RUDDER PEDAL	C	RF
	65-26174-14		STEERING SYSTEM ASSY, RUDDER PEDAL	D	RF
	65-26174-16		STEERING SYSTEM ASSY, RUDDER PEDAL	E	RF
	65-26174-18		STEERING SYSTEM ASSY, RUDDER PEDAL	F	RF
	65-26174-19		STEERING SYSTEM ASSY, RUDDER PEDAL	G	RF
	65-26174-20		STEERING SYSTEM ASSY, RUDDER PEDAL	H	RF
	65-26174-21		STEERING SYSTEM ASSY, RUDDER PEDAL	I	RF
	65-26174-23		STEERING SYSTEM ASSY, RUDDER PEDAL	J	RF
	65-26174-25		STEERING SYSTEM ASSY, RUDDER PEDAL	K	RF
	65-26174-27		STEERING SYSTEM ASSY, RUDDER PEDAL	L	RF
	65-26174-30		STEERING SYSTEM ASSY, RUDDER PEDAL	M	RF
	65-26174-32		STEERING SYSTEM ASSY, RUDDER PEDAL	N	RF
1	MS24665-132		. PIN, COTTER (USED WITH AN320-4)		2
2	BACN10JC4		. NUT		2
3	AN960PD416L		. WASHER		2
4	BACB30NF4-30		. BOLT		1
5	BACB30NF4-13		. BOLT		1
6	BACW10P128A		. WASHER		4
7	NAS43DD4-7		. SPACER		2
8	69-20539-2		. SPRING		1
9	MS24665-132		. PIN, COTTER (USED WITH AN320-3)		2
10	BACN10JC3		. NUT		2
11	AN960PD10L		. WASHER		2
12	BACB30LU3-13		. BOLT		1
13	NAS623-3-12		. SCREW		1
14	69-34900-1		. ARM, STEERING	ABCMN	1
14	69-20327-1		. ARM, STEERING (OPT)	ABC	1
14	69-20327-1		. ARM, STEERING (SB 32-198)	DEF	1
14	69-20327-1		. ARM, STEERING	G-L	1
15	69-20495-1		. ROD ASSY		1
16	BACB10AD3		. . BEARING		2
17	AN316-6R		. . NUT		2
18	MS20426B5		. . RIVET		2
19	MS20426A5		. . RIVET		1
20	69-20495-2		. . TUBE		2
21	69-20495-4		. . PLUG		1
22	69-20495-5		. . PLUG		1
23	BACM10L1CWM		. . MARKER		1
24	69-20495-3		. . TUBE		1
25	MS20426D6		. RIVET		1
26	BACR24E4C95		. ROD, IDLER		1
26	BACR24E4C93		. ROD, IDLER (OPT)		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
27	AN380-2-2		. PIN, COTTER (USED WITH NAS679A3W)		2
28	BACN10JC3		. NUT		2
29	AN960PD10		. WASHER		2
30	BACS12CA3-4		. SCREW		2
31	66-15707-1		. PLATE, CABLE END		2
32	MS24665-134		. PIN, COTTER (USED WITH AN320-5)		1
33	BACN10JC5		. NUT		1
34	AN960PD516L		. WASHER		2
35	BACB30NF5-31		. BOLT	A-F	1
35	66-25793-1		. BOLT	G-N	1
36	BACB10BX5		. BEARING		1
37	66-15736-7		. SPACER		1
38	65-25861-1		. ARM ASSY, CLUTCH	AB	1
38	65-25861-6		. ARM ASSY, CLUTCH	C-N	1
39	BACB10BX5		. . BEARING		1
40	65-25861-2		. . ARM (USED ON 65-25861-1)		1
40	65-25861-7		. . ARM (USED ON 65-25861-6)		1
41	AN316-8R		. NUT, CHECK		1
42	MS27111-5		. WASHER, TAB		1
43	66-15736-1		. SPACER		1
44	BACB10BX8		. BEARING		1
45	66-15736-2		. SPACER		1
46	65-25843-1		. QUADRANT ASSY		1
47	NAS538-5P78		. . BUSHING		1
48	BACB10BX8		. . BEARING		
49	65-25843-2		. . QUADRANT		1
50	BACB10BX8		. BEARING		3
51	66-15736-3		. SPACER		1
52	66-15736-5		. SPACER		1
53	65-25820-1		. STEERING CRANK ASSY	AB	1
53	65-25820-4		. STEERING CRANK ASSY	CDEH	1
53	65-25820-11		. STEERING CRANK ASSY	FGI-N	1
54	MS24665-132		. . PIN, COTTER		2
55	BACN10JD103		. . NUT		2
56	AN960D10L		. . WASHER		6
57	BACB10B72CF6		DELETED		
57	BACB10AF3F7H		. . BEARING		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
58	BACB10B72CF5		DELETED		
58	BACB10AF3F5H		. . BEARING		1
59	66-1354-2		. . PLUG		2
60	65-25820-2		. . CRANK (USED ON 65-25820-1)		1
60	65-25820-5		. . CRANK (USED ON 65-25820-4)		1
60	65-25820-10		. . CRANK (USED ON 65-25820-11)		1
61	65-26174-6		. DRUM AND ECCENTRIC ASSY	A	1
61	65-26174-10		. DRUM AND ECCENTRIC ASSY	B	1
61	65-26174-13		. DRUM AND ECCENTRIC ASSY	CE	1
61	65-26174-15		. DRUM AND ECCENTRIC ASSY	DHI	1
61	65-26174-17		. DRUM AND ECCENTRIC ASSY	FG	1
61	65-26174-22		. DRUM AND ECCENTRIC ASSY	J	1
61	65-26174-24		. DRUM AND ECCENTRIC ASSY	K	1
61	65-26174-26		. DRUM AND ECCENTRIC ASSY	LM	1
61	65-26174-31		. DRUM AND ECCENTRIC ASSY	N	1
62	BACN10JC4		. . NUT		3
63	BACB30LU4-22		. . BOLT		3
64	69-20309-1		. . ECCENTRIC ASSY		1
65	BACB10BX8		. . . BEARING		1
66	69-20309-2		. . . ECCENTRIC		1
67	BACB10CF37PP		. . BEARING		1
68	66-15736-6		. . SPACER		1
69	66-15736-4		. . SPACER		1
70	BACC13AP3F425		. . CABLE ASSY (USED ON 65-26174-6, -13,-17)		1
70	BACC13AP3G110		. . CABLE ASSY (USED ON 65-26174-10, -15,-22)		1
70	BACC2A3A00 425CH		. . CABLE ASSY (USED ON 65-26174-24)		1
70	BACC2A3A00 110DH		. . CABLE ASSY (USED ON 65-26174-26, -31)		1
70A	BACC13AP3G545		. . CABLE ASSY (USED ON 65-26174-6, -13,-17)		1
70A	BACC13AP3F97		. . CABLE ASSY (USED ON 65-26174-10, -15,-22)		1
70A	BACC2A3A00 545DH		. . CABLE ASSY (USED ON 65-26174-24)		1
70A	BACC2A3A00 097CH		. . CABLE ASSY (USED ON 65-26174-26, -31)		1
71	69-20285-2		. . DRUM		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
72	69-20427-1		. . PLATE, RETAINER		1
72A	69-58176-1		. . SHIM		AR
73	65-25844-1		. . CRANK ASSY, CLUTCH (USED ON 65-26174-6,-10)		1
73	65-25844-4		. . CRANK ASSY, CLUTCH (USED ON 65-26174-13,-15)		1
73	65-25844-5		. . CRANK ASSY, CLUTCH (USED ON 65-26174-17,-22,-24, -26)		1
73	65-25844-8		. . CRANK ASSY, CLUTCH (USED ON 65-26174-31)		1
74	MS24665-132		. . . PIN, COTTER		2
75	BACN10JD103		. . . NUT		2
76	AN960PD10L		. . . WASHER (USED ON 65-25844-1)*[1]		4
76	AN960PD10		. . . WASHER (USED ON 65-25844-4)*[2]		2
76	AN960PD10L		. . . WASHER (USED ON 65-25844-4,-5, -8)*[3]		2
77	BACB10AF3F7H		. . . BEARING		2
78	BACB10CF37PP		. . . BEARING		1
79	66-1354-2		. . . PLUG		2
80	65-25844-2		. . . CRANK (USED ON 65-25844-1,-4)		1
80	65-25844-6		. . . CRANK (USED ON 65-25844-5)		1
80	65-25844-9		. . . CRANK (USED ON 65-25844-8)		1
81	66-15669-1		. SHAFT		1
82	BACB10BX8		. BEARING		1

*[1] USE ONE WASHER EACH UNDER BEARING (77) AND NUT (75)
*[2] USE ONE WASHER UNDER BEARING (77)
*[3] USE ONE WASHER UNDER NUT (75)