TECHNICAL MANUAL

GS MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST

REMOTE ATTITUDE INDICATOR

PART NUMBER DSA 274

WARNING

PRECAUTIONARY DATA

Personnel performing instructions involving operations, procedures, and practices which are included or implied in this technical manual shall observe the following instructions. Disregard of these warnings and precautionary information can cause serious injury, death, or an aborted mission.

USING TOXIC MATERIALS. Due to the toxicity of the solvents and solutions used in the cleaning procedures, adequate ventilation must be provided, Avoid prolonged contact with solutions and chemicals.

CHANGE No. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC., 19 November 1975

GS Maintenance Manual Including Repair Parts and Special Tools List

REMOTE ATTITUDE INDICATOR

PART NUMBER DSA 274

TM 55-6610-296-40, 28 May 1971, is changed as follows:

1. Remove and insert pages as indicated below.

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3-7 and 3-8

3-7 and 3-8

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DISTRIBUTION:

To be distributed in accordance with DA Form 12-31 Direct and General Support Maintenance Requirements for UH-1B, UH-1C/M and UH-1D/H aircraft.

CHANGE)

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DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 6 December 1974

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SECTION I

INTRODUCTION

1-1. General Information.

a. This technical manual comprises overhaul instructions and test procedures for Remote Attitude Indicator, Model DSA 274 (fig. 1-1), manufactured by Consolidated Airborne Systems, Inc., Carle Place, Long Island, New York, Federal Manufacturer's Code 05808.

b. Report of errors, omissions, and recommendations for improving this publication is encouraged. Use DA Form 2028 (Recommended Changes to DA Publications) and forward it directly to the Commanding General, U.S. Army Aviation Systems Command, ATTN: AMSAV-R-M, P.O. Box 209, St. Louis, Missouri 63166,

1-2. Purpose of Equipment.

The remote attitude indicator presents to the aircraft pilot, or co-pilot, information showing the pitch and roll angles of an aircraft relative to the earth's surface.

1-3. Equipment Records.

The Army Maintenance Management system established in TM 38-750 applies to this equipment. The applicable forms as referenced by TM 38-750 will be used.

1-4. Description of Equipment.

The remote attitude indicator is controlled by an external vertical gyroscope which provides attitude reference signals to the pitch and roll servo systems in the indicator. The actuation of the pitch and roll servos causes the yoke and spherical assembly to rise and fall and to rotate left and right. A stationary pointer on the yoke indicates roll attitude and is shown by indication markings on the light guide dial assembly. Markings on the sphere, with respect to a stationary miniature airplane attached to the cover glass, indicate pitch attitude. The indicator operates on 115vac power; the indicator lights utilize 28vdc power. When power is not applied, a flag alarm marked OFF is visible through the cover of the indicator. A pitch control knob, located at the lower right corner, and roll control knob, located at the upper right corner of the indicator, have an arrow and scale, respectively, indicating whether the aircraft is in level flight, a right bank, or left bank attitude.

1-5. Leading Particulars.

The major characteristics of the remote attude indicator are given in table 1–1.

Table 1-1. Leading Particulars

ITEM	CHARACTERISTIC
Power requirements:	
Indicator	115 vac, ±2 vac, 400±20 cps
Lighting	$28V \pm 0.6 \text{ vdc}$
Power consumption	20 VA maximum
Dimensions	
(overall)	
Height	5-1/2 inches
Width	5 inches
Depth	8-1/2 inches
Mounting-hole spacing:	
Horizontal	4.505 inches maximum
Vertical	4.755 inches maximum
Weight	5.5 pounds

Table 1-1. Leading Particulus-Continued

ITEM	CHARACTERISTIC
Operating Ambient temperature	-56° C to +71° c
HumiditY	up to 100%
Altitude	80,500 feet maximum
Filling medium	90% nitrogen, 10% helium, 99.95% pure.
_	Containing not more than 0.006 milligrams of water per liter.
Leak rate	Not to exceed 0.522 micron cubic feet per hour at one atmosphere pressure differential

1-6. Test Equipment.

The test equipment listed in table 1-2 is required to support overhaul activities.

1-7. Special Tools.

No special tools or jigs are required for overhaul of the DSA 274 indicator. However

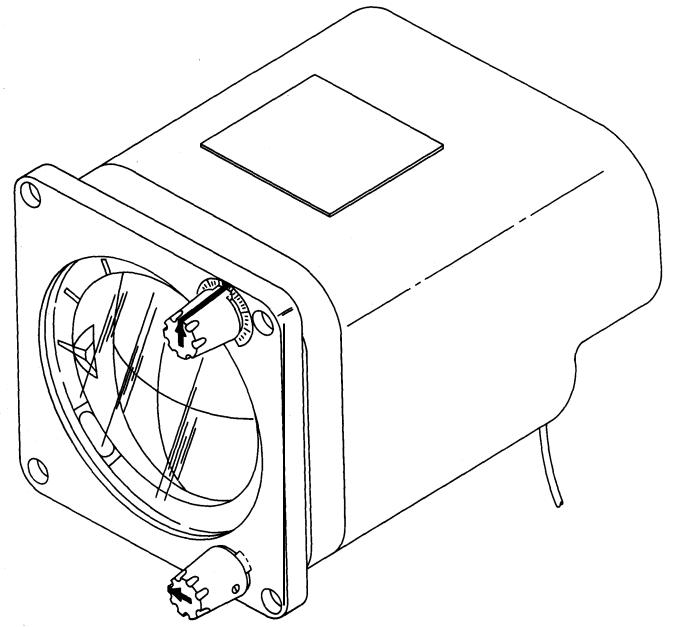


Figure 1-1, Remote Attitude Indiator, DSA 274.

two items to be fabricated locally are listed in table 1-3.

1-8. Consumable Materials.

The consumable materials required for over-haul are listed in table 1-4.

Table 1-2. Test Equipment Required

PART, MOOR MIL		NOMENCLATURE	TECHNICAL DESCRIPTION	FMC
	TE217A	Test Fixture	Processes and routes test signals to indicator	05808
	TE286	Test Transmitter	Consists of master synchro transmitter	05808
TS-352-B/U	1L200	AC Voltmeter	synemo transmitter	28480
13616–3A		Power Supply	0–28VDC, 0.05VDC resolution	06840
	TE176A	Test Synchro	Consists of synchro and manual synchro positioner	05808
(with T-311)	TE244	Test Fixture	For null adjustment of pitch synchro	05808

Table 1-3. Special Tools Required

PART, MODEL, OR MIL DES (OR EQUIVALENT)	NOMENCLATURE	APPLICATION OR DESCRIPTION
Local Manufacture; (fig. 2-10)	Solderband block	Shaping of solderband. 1.670 inches long by 0.7690 inches wide.
		Dimension of depth is not critical, but should be at least 0.25 inches. Can be constructed from any rigid material.
Local Manufacture; (figure 1-2)	Brush-block shield	Protective cover for brush block during disassembly of indicator. Refer to figure 1–2 for description.

Table 1-4. Consumable Materials Required

ITEM NO	MATERIAL	TYPE OR	GOVERNMENT SPECIFICATION OR
ITEM NO.	MATERIAL	GRADE	MANUFACTURER'S NO.
1	Solvent, Dry Cleaning		P-D-680
2	Enamel, Black, Lusterless		MIL-E-5556
			Color code: 37038
3	Polishing Powder	4/0 crocus	
		paper, Type 1	
4	Lubricating Oil, General		MIL-L-7870
	Purpose, Low Temperature		
5	Twine, Impregnated		MIL-T-713A
	(Spot Ties)		Change 1 1-3

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Table 1-4. Consumable Materials Required-Continued

ITEM NO.	MATERIAL	TYPE OR GRADE	GOVERNMENT SPECIFICATION OR MANUFACTURER'S NO.
6	Adhesive	EC 2216	FMC 76381
7	Tape, Adhesive, Pressure Sensitive	Corrosion resistant	MIL-T-4053
8	Tube, Copper, 0.125 In. Dia., 0.018 In. Thk.		

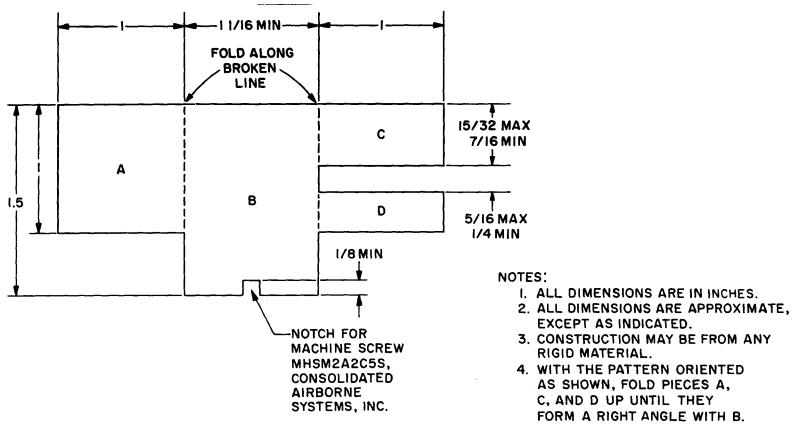


Figure 1-2. Construction of Brush-Block Shield.

SECTION II

ITEM MAINTENANCE

NOTE

Before overhauling the indicator, perform the final test procedures of Section III to determine the extent of overhaul required. Disassemble the indicator, if necessary, only to the extent required to replace the defective part or make repairs.

2-1. Disassembly.

Disassemble the indicator in accordance with the following procedures.

- a. Disassembly of Overall Indicator.
 - (1) Cut evacuation tube (6, fig. 2-1).
- (2) Loosen four setscrews (8) securing knobs (7) to indicator. Remove knobs.
 - (8) Remove connector gasket (10).
- (4) Remove tearband (2) by stripping away paint with scraper, running a hot soldering iron along edges of tearband, and lifting loose edge with scraper.
- (5) Remove solderband (3) on case (1) by applying hot soldering iron to edges of band,

starting at one corner, and prying off band with pliers,

- (6) Remove case (1). Perform additional troubleshooting.
- (7) Remove insulator (4) and evacuation tube (6).
 - (8) Remove dial (9) by prying loose.
- (9) Visually inspect all parts for signs of damage.

CAUTION

Install brush-block shield over brush-block assembly (22 and 25, fig. 2-5) as a protective measure before proceeding with the overhaul.

- *b. Disassembly of Indicator Subassembly.* Disassemble the indicator subassembly in accordance with the following procedures.
- (1) Remove four screws (2 and 3, fig. 2–2), eight washers (4 and 5), eight sleeve spacers (6), two terminal studs (7), and two posts (8), and remove the electronic components assembly (1) and electronic control amplifier (9).

FIG. & INDEX NO.	PART NO. 1 2 3 4 5 6 7	UNITS PER ASSY
2-1-	DSA 274 INDICATOR, ATTITUDE REMOTE	1
-1	MEC317 CASE	1
	. (ATTACHING PARTS)	
-2	MAT305 TEARBAND	1
- 3	MV204-4 SOLDERBAND	1
- 4	MV1307 INSULATOR	1
- 5	MDP336 PLATE, Identification	1
- 6	M3V03C002 TUBE, Evacuation	1
-7	MNC301KNOB	2
	(ATTACHING PARTS)	

FIG. &		DESCRIPTION	UNITS
INDEX			PER
NO.		1 2 3 4 5 6 7	ASSY
2-1-8	MS51030-3	SETSCREW	4
- 9	MDS335	.DIAL, Scale	1
		.GASKET, Connector	
-11		.INDICATOR Subassy, Attitude	
	1000	(See figure 2-2 for breakdown)	•
FIG. &		DESCRIPTION	UNITS
INDEX	DADE NO		PER
NO.	PART NO.	1 2 3 4 5 6 7	ASSY
2-2-	1853	INDICATOR Subassy, Attitude	REF
		(See item 11, figure 2-1 for NHA)	
- 1	1678	.ELECTRONICS COMPONENTS ASSEMBLY	- 1
		(See figure 2-3 for breakdown)	
		(ATTACHING PARTS)	
-2	MHSM1A4C18S	.SCREW, Machine	- 2
-3		SCREW, Machine	
-4	MS35337-78	WASHER, Lock	- 4
- 5	MS15795-303	WASHER, Flat	- 4
- 6	M3V03B039	SPACER, Sleeve	- 8
-7		.TERMINAL, Stud, insulated	
-8	M3V03B040	.POST, Electrical mechanical equipment	- 2
-9	1670	.AMPLIFIER, Electronic control	- 2
		(See figure 2-4 for breakdown)	
-lo	1856	. SERVO ASSEMBLY, Roll	- 1
		(See figure 2-5 for breakdown)	
		(ATTACHING PARTS)	
-11		.POST, Electrical mechanical equipment	
-12	MHSM2A3C2S	.SCREW, Machine	- 4
-18	MS35337-77	WASHER, Lock	- 4
-14	1857	SERVO AND SPHERIOD ASSEMBLY, Pitch	- 1
		(See figure 2-6 for breakdown)	
		(ATTACHING PARTS)	
-15	MHSM2A4C12S	SCREW, Machine	- 4
-16	MS35337-78	.WASHER, Lock	- 4
-17		.BLOCK, Clamping	
-18	MCS 328	.BRACKET, Bank pointer	- 2
		(ATTACHING PARTS)	
-19	MHSM2A2C2S	. SCREW, Machine	- 4
-20		POINTER, Dial	
-21	1854	.FRONT END ASSEMBLY	- 1
		(See figure 2-7 for breakdown)	
			

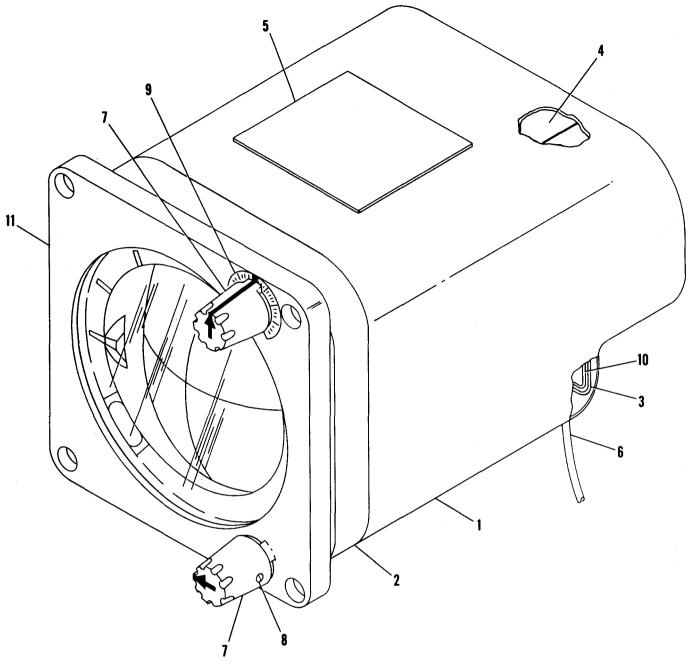


Figure 2-1. Remote Attitude Indicator.

(2) Cut spot ties on posts (11).

CAUTION

When removing roll servo assembly in next step, be careful not to pull too hard on wires.

- (3) remove two posts (11), two screws (12), and two washers (13). Remove roll servo assembly (10).
- (4) With a pencil, draw a line across bracket (18) and item to which bracket is at-

tached. Also draw a line around the edge of the bracket. These lines will be used as guides for proper orientation and alignment during reassembly.

- (5) Remove four screws (19) and remove bracket (18).
- (6) remove dial pointer (20) and front end assembly (21).
- (7) Remove four screws (15), four washers (16), and clamping block (17).

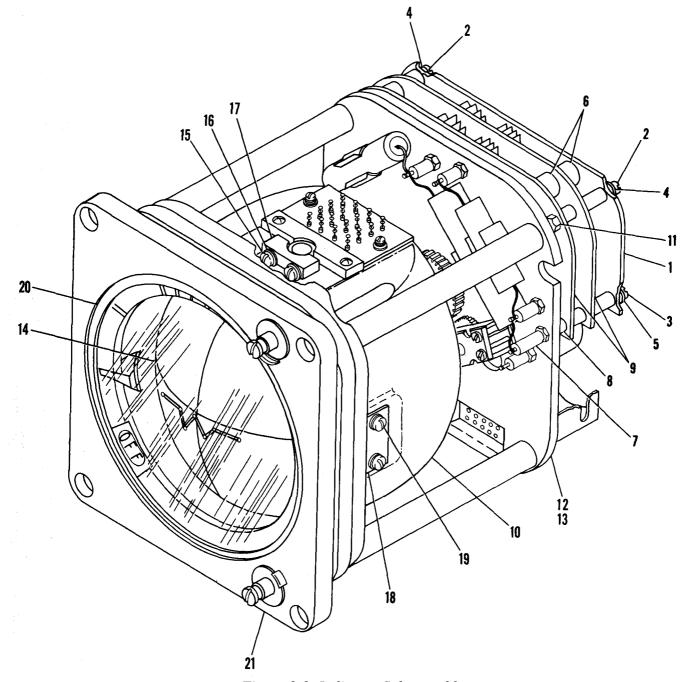


Figure 2-2. Indicator Subassembly.

- (8) Remove screws (2, fig. 2-6) holding either the black or gray half of spheroid (1) to plate of spur gear (17). (The spheroid will require a few rotations to gain access to all screws.)
 - (9) Remove spheroid half (1).
- (10) Remove screws (2) holding the other half of spheroid (1) to plate of spur gear (17).
 - (11) Remove other spheroid half (1).
 - (12) Remove pitch servo and spheroid

- assembly (14, fig. 2–2), exerting care not to pull on wires connected from assembly to terminal board (40, fig. 2-5).
- c. Disassembly of Electronic Components Assembly. Disassemble and repair as necessary.
- d. Disassembly of Electronic Control Amplifier. Disassemble and repair as necessary.
 - e. Disassembly of Roll Servo Assembly.
- (1) Remove screws (23, fig. 2-5) and washers (24) securing bracket (22) and remove bracket.

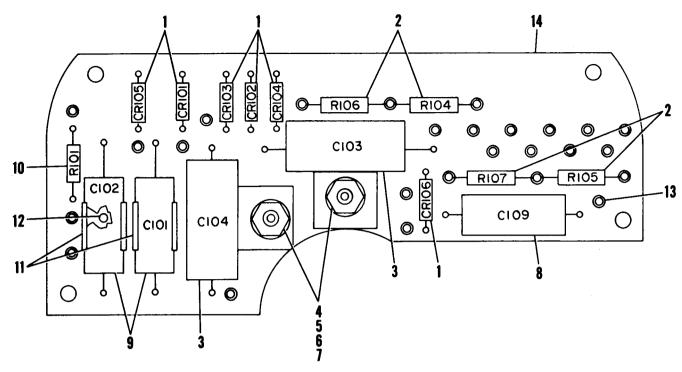


Figure 2-3. Electronic Components Assembly,

FIG. & INDEX NO.	DESCRIPTION PART NO. 1 2 3 4 5 6 7	UNITS PER ASSY
2-3-	1 6 7 3 ELECTRONIC COMPONENTS ASSEMBLY	REF
-1 -2	(See item 1, figure 2-2 for NHA) 1N645 SEMICONDUCTOR DEVICE, Diode	
-2 -3	RC20GF***J RESISTOR, Fixed, composition (select at assy)	
4	(ATTACHING PARTS)	
-4	MS35649-44NUT, Plain, hexagon	
- 5	MS35337-78WASHER, Lock	
-6	MS15795-303WASHER, Flat	2
-7	MS15795-303WASHER, Flat	2
-8	CS13AG100K CAPACITOR, Fixed, electrolytic	1
-9	CL65CJ250K3 CAPACITOR, Fixed, electrolytic	2
-10	RC07GF473JRESISTOR, Fixed, composition	1
_	MYT321TERMINAL BOARD	1
-11	MFC8-11A RETAINER, Capacitor (ATTACHING PARTS)	2
-12	MHE2R30B EYELET, Metallic	4
-13	SE12XC1 TERMINAL, Stud	26
-14	MYB320 PRINTED CIRCUIT BOARD	1

FIG. &		DESCRIPTION	UNITS
INDEX			PER
NO.	PART NO.	1 2 3 4 5 6 7	ASSY
2-4-	1670	AMPLIFIER, ELECTRONIC CONTROL	REF
		(See item 9, figure 2-2 for NHA)	
-1	RC07GF332J	. RESISTOR, Fixed, composition	2
-2	2N1893	. TRANSISTOR	4
-3	MHWS4-1	. INSULATOR, Transistor	4
-4	RC07GF331J	. RESISTOR, Fixed, composition	2
-5	RC20GF202J	. RESISTOR, Fixed, composition	8
-6		. FUSE, cartridge	
-7	CS13AE100K	. CAPACITOR, Fixed, electrolytic	
-8	2N657	.TRANSISTOR	2
-9	MHWS4-1	. INSULATOR, Transistor	
-10	MVD303	. HEAT SINK, Electrical-electronic component	2 :
-11	RC07GF103J	. RESISTOR, Fixed, composition	
-12	CS13AG1R8K	. CAPACITOR, Fixed, electrolytic	2
-13	RC20GF223J	. RESISTOR, Fixed, composition	2
-14		RESISTOR, Fixed, composition	
-15		. CAPACITOR, Fixed, electrolytic	
-16	RC07GF473 J	. RESISTOR, Fixed, composition	2
-17	1N645	SEMICONDUCTOR, DEVICE, diode	2
-18		RESISTOR, Fixed, composition	
-19	RC20GF331J	RESISTOR, Fixed, composition	
-2 0		RESISTOR, Fixed, composition	2
-21		CAPACITOR, Fixed, electrolytic	2
-22		RESISTOR, Fixed, composition	
-2 3		CAPACITOR, Fixed, ceramic dielectric	1
-24	MYB319	PRINTED CIRCUIT BOARD	1

CAUTION

Brush block (25), which is attached to bracket (22), can be easily damaged. Make certain that brush block is set aside and protected by brush-block shield.

- (2) Remove retaining ring (30), thrust washer (31), and shims (32).
 - (3) Remove yoke (54).
- (4) Remove bearing housing (33) by removing screws (34, 35, and 36) and washers (37).

- (5) Remove bearings (29) and (38).
- (6) Remove screws (41) and washers (42 and 43) and remove terminal board (40) on yoke (54),
- (7) Remove insulator (44) and remove trunnion block (45), by removing screws (46), washers (47), and nuts (48).
 - (8) Remove slip ring (49).
- (9) Remove spring pin (51), screws (52), and washer (53) and remove gear shaft assembly.
- (10) Remove bearing plate (55) by removing screws (56) and washers (57).

FIG. & INDEX		DESCRIPTION	UNITS
NO.	PART NO.	1 2 3 4 5 6 7	PER ASSY
2-5-	1856	SERVO ASSEMBLY, Roll	REF
-1	1680	(See item 10, figure 2-2 for NHA) CONNECTOR PLATE ASSEMBLY (ATTACHING PARTS)	1

FIG. &		DESCRIPTION	UNITS PER
NO.	PART NO.	1 2 3 4 5 6 7	ASSY
2-5-2	MHSM2A2C3S	SCREW, Machine	2
_3		. WASHER, Lock	
-4	ETP3132	. TRANSFORMER, Power(ATTACHING PARTS)	1
-5	MHSM2A8C4S	. SCREW, Machine	. 2
-6		. WASHER, Lock	
7	EB212	. SYNCHRO, Control transformer (ATTACHING PARTS)	. 1
-8	MHSM2A4C6S	. SCREW, Machine	. 2
-9	MS35337-78	. WASHER, Lock	. 2
-10	MFS2-2	. CLAMP, Rim, clenching	. 2
-11	MHSS1A1F2S	. SETSCREW	. 2
-12	EA209	. MOTOR, Tachometer, generator(ATTACHING PARTS)	. 1
-13	MHSM2A4C6S	. SCREW, Machine	. 2
-14	MS35337-78	. WASHER, Lock	. 2
-15		. CLAMP, Rim clenching	
-16	ESC301-01	. CAPACITOR, Fixed	. 2
-17		. CAPACITOR, Fixed	
-18		. RESISTOR, Fixed, wire-wound	
-19		. TERMINAL, Stud (ATTACHING PARTS)	
–20	MS35649-44	. NUT, Plain, hexagon	. 8
-21		. WASHER, Lock	
-22		. BRACKET, Brush block(ATTACHING PARTS)	
-23	MHSM2A2C5S	. SCREW, Machine	. 2
-24	MS35337-77	.WASHER, Lock	_ 2
-2 5	ESS301A	BLOCK, Brush(ATTACHING PARTS)	. 1
-26	MHSM2A2C7S	SCREW, Machine	. 4
-27	MS35337-77	WASHER, Lock	. 4
–28	MS15795-302	WASHER, Flat	. 4
–29		. BEARING, Ball(ATTACHING PARTS)	
-3 0		. RING, Retaining	
-31	MWT304	. WASHER, Thrust	. 1
–32		. SHIM*	
–33	MBH314	. HOUSING, Bearing(ATTACHING PARTS)	. 1
-34		. SCREW, Machine	
-35		. SCREW, Machine	
-36		. SCREW, Machine	

FIG, &		DESCRIPTION	UNITS PER
NO.	PART NO.	1 2 3 4 5 6 7	ASSY
2-5-37	MS35337-78	WASHER, Lock	4
22	367D 4 = 4.4	*	_
-38		BEARING, Ball	
-39	MGS316-1	. GEAR, Spur	1
	1858	YOKE ASSY	1
-4 0	MYB317-1	TERMINAL BOARD	1
		(ATTACHING PARTS)	
-41		SCREW, Machine	
-42		WASHER, Lock	
-4 3	MS15795-302	WASHER, Flat	2
		*	
-44		INSULATOR	
-4 5	MFB303	BLOCK, Trunnion	2
		(ATTACHING PARTS)	
-46		SCREW, Machine	
-47	MS35337-78	WASHER, Lock	4
-48	M2HNS23	NUT, Plain, hexagon	4
		*	_
-49	ESS301B	SLIP RING	1
5 0	MGR318	GEAR SHAFT ASSY	1
		(ATTACHING PARTS)	
-51		PIN, Spring	
-52		SCREW, Machine	
-53	MBW313	WASHER, Flat	1
~ 4	T.C.T.C. I.B.	*	_
-54	MCY317	.YOKE	1
		. GEAR ASSY, Speed decreaser	
-55	MZP305	PLATE, Bearing	1
E.C.	MITCH! A ACOC	(ATTACHING PARTS)	
-56		SCREW, Machine	
–57		WASHER, Lock	4
FO		DEADING D-11	0
-58		BEARING, Ball	
-59		POST, Gearplate GEAR CLUSTER	
-60		GEAR CLUSTER	
-61		PLATE, Bearing	
-62	WIZP303		T
63	MUGMOAACCG	(ATTACHING PARTS)	2
-63 -64	MIIOMAWACOO	SCREW, Machine	2 2
-64 -65		WASHER, Lock	
00	MIN00001-10	WASHER, LOCK	**
-66	MIRRO9CR	BEARING, Ball	2
-67	1681	PLATE ASSY, Servo	1
-01	TOOT	MILL INDI, DOLYU LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	-

⁽¹¹⁾ Remove bearing (58), gear plate post (59), and gear cluster (60 and 61).

⁽¹²⁾ Remove screws (63 and 64) and

washers (65) and remove bearing post (62).
(13) Remove bearing (66) from servo plate assembly (67).

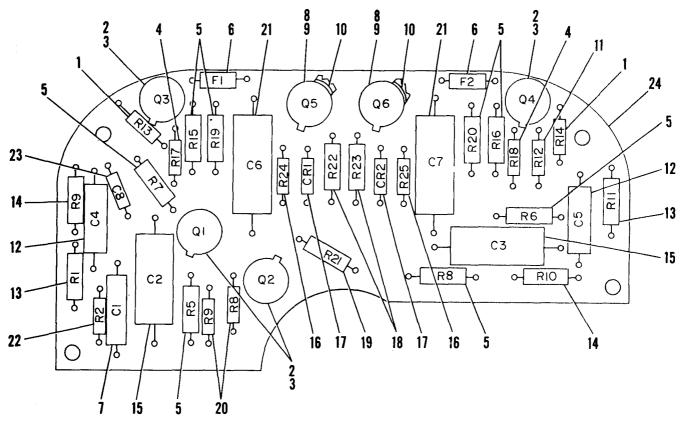


Figure 2-4. Electronic Control Amplifier.

f. Disassembly of Pitch Servo and Spheroid Assembly.

NOTE

Pitch servo and spheriod assembly (fig. 2-6) is wired to terminal board (40, fig. 2-6). The assembly can be disassembled without removing wires, except when disassembling bearings (15), end bell (16), collar (20), and counterweight (21).

- (1) Remove screws (3, fig. 2-6) and washers (4 and 5) and remove spheroid lighting assembly.
- (2) Remove lamp (6) and electrical contact (7).
- (3) Remove screw (9), washer (10), and nut (11), and remove lug (8).
- (4) Remove reflector (12) and loosen setscrew (14) securing shaft collar (13) and remove shaft collar and bearing (15).
- (5) Remove end bell (16), bearing (15), spur gear (17), and bearing (18).

- (6) Loosen setscrew (20) and remove collar (19).
- (7) Remove screws (22) and remove counterweight (21).
- (8) Remove setscrew (23) and remove spur gear assembly.
- (9) Remove spur gears (25 and 26) and gear shaft (27). Remove screws (30), washers (31), and clamps (32) and remove tachometer motor (28).
- (10) Remove screws (30), washers (31), and clamps (32), and remove control synchro (29).
- (11) Remove bearing plate (33) from gear assembly by removing screws (34 and 35) and washer (36).
- (12) Remove bearings (37), gear plate posts (38) and gear clusters (39 and 40).
- (13) Remove screws (42) and washers (43) and remove bearing plate (41).
- (14) Remove bearings (44) from disassembled mounting plate (45).

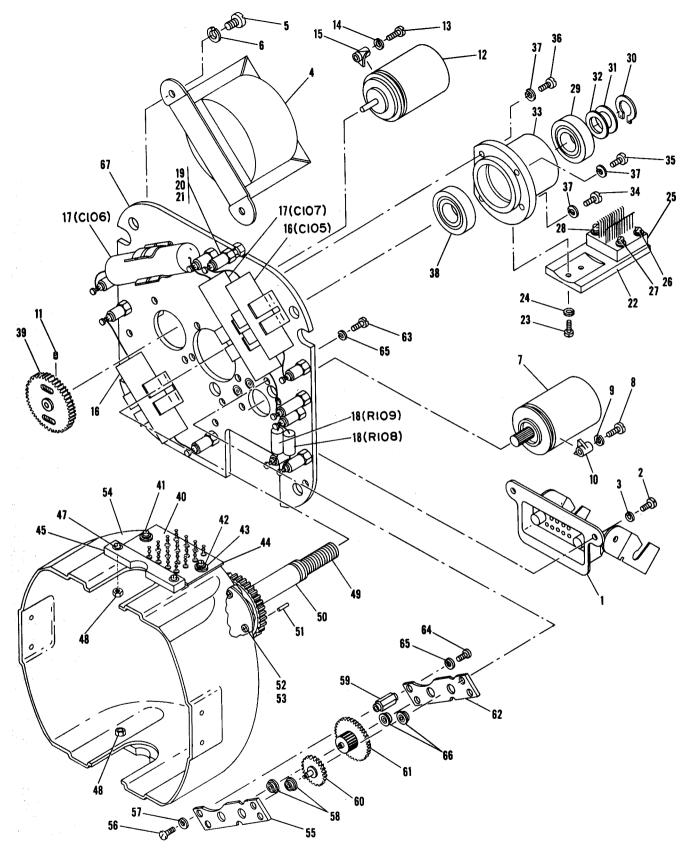


Figure 2-5. Roll Servo Assembly

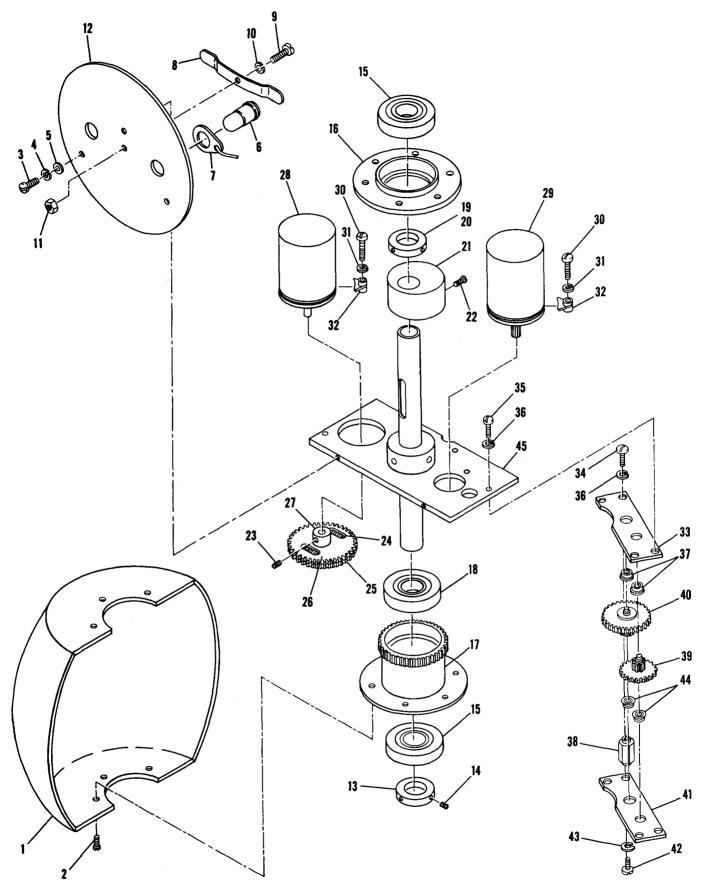


Figure 2-6. Pitch Servo and Spheroid Assembly.

TM 55-6610-296-40

- g. Disassembly of Front End Assembly.
- (1) Remove post (1, fig. 2-7) and washer (2).
- (2) Remove screw (4) and washer (5), and remove flag clamp (3).
 - (3) Remove flag (6) and remove the
- incandescent lamp (7) from the bank dial assembly.
- (4) Remove screw (9) and washer (10) and remove terminal board (8).
- (5) Remove terminal lug (11), scale dial (12), and dished lens (13) and lighting mask (14).

FIG. &		DESCRIPTION	UNITS
INDEX			PER
NO.	PART NO. 1 2 3	4 5 6 7	ASSY
2-6-	1857 SERVO	AND SPHEROID ASSY, Pitch	REF
	(Se	e item 16, figure 2-2 for NHA)	
-1	MDD333 SPHE	ROID	2
	(A ^r .	TTACHING PARTS)	
-2		V, Machine	12
		-*	
	1859 LIGHT	ING ASSY, Spheroid	1
•		TTACHING PARTS)	_
-3		V, Machine	
-4		IER, Lock	
- 5		ER, Flat	2
6			0
0 7	MSZ6Z57-5Z7R16 LAMI	P, Incandescent	2
-1 -8	EIL ASULT	TACT, Electrical	1 2
_0	LODAZUII IERA	TTACHING PARTS)	4
-9	MS35233_2 SCRI	EW, Machine	2
-10	MS35337-77 WASI	HER, Lock	2
-11	MS35649-24 NIIT.	Plain, hexagon	2
		* ~ ~ ~	_
-12	MYR31	LECTOR	
-13	MBC316	R, Shaft	1
	(A)	TTACHING PARTS)	
-14	MS51022-1 SETS	CREW	2
		- * _	
15	MJBA7-0A BEAR	ING, Ball	2
-16	MBB312 END 1	BELL, Bearing	1
-17	MGF317	Spur	1
-18		NG, Ball	
–19	MBC316	AR, Shaft	1
00	(A'I	TACHING PARTS)	_
–2 0	MS51022-1 SETSC	REW	2
-21	MDC01E COUNT		
-21		FERWEIGHT	1
-22	MUGMOAAC7G GCDDW	TTACHING PARTS) V, Machine	0
-64		v, wacmine	2
		ASSEMBLY, Spur	1
	/AT	TTACHING PARTS)	1
-23		REW	2
		*	4

FIG. &	DESCRIPTION	UNITS
INDEX		PER
NO.	PART NO. 1 2 3 4 5 6 7	ASSY
2-6-24	MKE302 SPRING, Helical, extension	2
-25	MGS316-1 GEAR, Spur	1
-26	MGS316-2GEAR, Spur	
-27	MGS316-3 GEARSHAFT	
-28	EA209	1
-29	EB212	
	(ATTACHING PARTS)	
_3 0	MHSM2A4C6S SCREW, Machine	4
-31	MS35337-78	
-32	MFS2-2	4
	~~_*~	
	1671-1	1
-33	MZP305	1
	(ATTACHING PARTS)	
-34	MHSM2A4C3S SCREW, Machine	2
-35	MHSM2A4C6S SCREW, Machine	
-36	MS35337-78 WASHER, Lock	4
	TEADING TO THE ADMINISTRATION OF THE ADMINIS	•
-37	MJBB02CB BEARING, Ball	
-38	MLP312	4
-39	MGC314	
-40	MGC315	
-41	MZP305 PLATE, Bearing (ATTACHING PARTS)	L
-42	MHSM1A4C3S SCREW, Machine	4
-42 -43	MS35337-78 WASHER, Lock	
-40	MISSOSI-10*	**
-44	MJBB02CB BEARING, Ball	2
-4 5	1682 PLATE, Mounting	

(6) Remove two resistors (15), retaining rings (16), glass cover (17) and bezel (18).

2-2. Cleaning.

To insure proper cleaning of vertical gyro indicator detailed parts, perform the following steps:

a. *Sphere Markings and Indices.* Remove dust or dirt from painted surfaces with pencil eraser. To remove grease, use a soft cloth damp-

ened with kerosene, followed by use of pure white soap on a damp cloth. Wipe dry with a clean, damp lint-free cloth.

b. Metallic Parts. Submerge solid nonporous metallic parts, which do not bear markings made with radio-active paint, in a bath of dry-cleaning solvent (item 1, table 1-4), and dry thoroughly with filtered, low-pressure air. Use a lint-free cloth, dampened with dry-cleaning solvent to clean porous metallic parts,

FIG. & INDEX	DESCRIPTION	UNITS PER
NO.	PART NO. 1 2 3 4 5 6 7	ASSY
2–7–	1854 FRONT END ASSEMBLY	REF
	(See item 23, figure 2-2 for NHA)	
-1	MLP313	4
-2	NAS620C10L	4

INDEX NO. PART NO. 1 2 3 4 5 6 7	PER ASSY
	1
2-7-3 MFC301	1
-4 MS35233-2 SCREW, Machine	2
-5 MS35337-77	
*	
-6 EF2123	1
1855 DIAL ASSEMBLY, Bank	1
-7 MS25237-327R15 LAMP, Incandescent	6
-8 MYL312-1	1
(ATTACHING PARTS)	
-9 MS35233-4 SCREW, Machine	
-10 MS35337-77 WASHER, Lock	6
*	_
-11 FJL305 TERMINAL, Lug	
-12 MDD334	
-13 MDD332 LENS, Dished	
-14 MCM315	
-15 ERT13 RESISTOR, Variable	
-16 MAR303 RING, Retaining	
-17 MAG304 COVER, Glas s	1
-18 MRB301	$\bar{1}$

CAUTION

Do not submerge any casting normally enclosed within the outer cover of vertical gyro indicator in drycleaming solvent. The cashings, being porous, will absorb some of the solvent. Normal heat generated by operating vertical gyro indicator evaporates the solvent, causing bezel glass to fog.

- **c.** *Electrical Parts.* Use a clean, lint-free cloth, dampened with dry-cleaning solvent (item 1, table 1-4) to wipe electrical parts clean,
- d. Oil-Lubricated *Ball Bearing*, Rinse oil-lubricated ball bearing clean in dry-cleaning sol-

vent (item 1, table 1–4). Let bearing drain, and dry with filtered, moisture-free, compressed air.

2-3. Inspection.

Perform the inspection requirements listed in table 2-1.

2-4. Repair or Replacement.

Replace all parts which are found damaged or defective during inspection and testing. Minor repairs on detailed parts can be accomplished by the following instructions:

- a. Bezel Casting. If paint is chipped, touch up with lusterless black enamel (item 2, table 1-4).
- b. Case. If paint is chipped, touch up with lusterless black enamel (item 2, table 1-4).

Table 2-1. Inspection Requirements

PART	LOOK FOR	
Bezel casting	Mutilation or chipped paint.	
Trim indicator	Restriction of movement.	

Table 2-1. Inspection Requirements—Continued

PART

Insulators and gaskets Bezel subassembly Paint markings Metal contacts Cover, plate and case

Sphere and horizon bar Bearing plate assembly Gears, gear clusters and

shafts Springs Bearings

LOOK FOR

Bend, distortion, cracks, deterioration, or other damage.

Flaws or chips; poor condition of metallized edges.

Chipped paint.

Bends, cracks, or other damage.

Bends, breaks, mutilation, and chipped paint.

Bent parts, wear, and disfigurement.

Bends, breaks, or distortion of bearing plate; excessive wear in bushings.

Stripped gear teeth; bent or distorted shafts.

Bends, distortion, or signs of fatigue due to stress.

Noisy, rough, or binding.

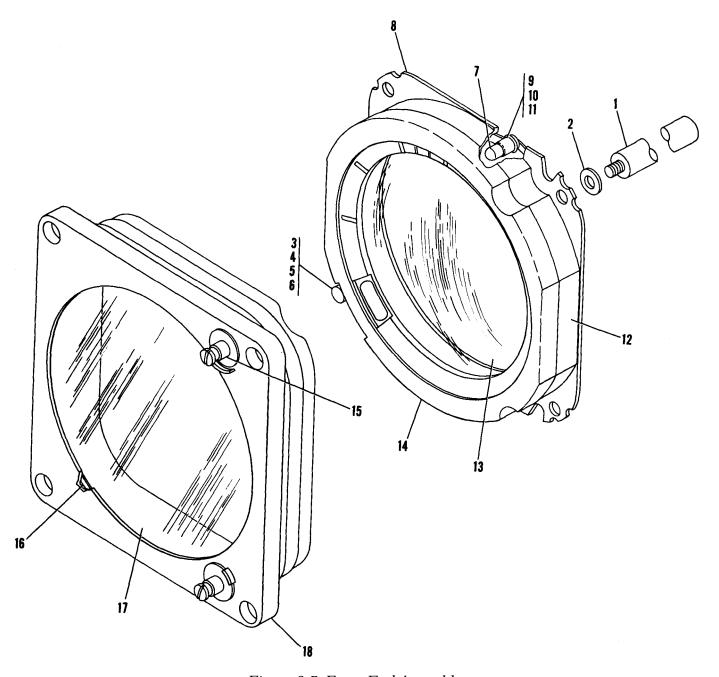


Figure 2-7. Front End Assembly.

CAUTION

Do not attempt to repair damaged or dirty electrical conductors. These should be replaced.

- c. Machined Surfaces. Burrs and deep scratches must be removed from machined surfaces. Where there is movement between surfaces, they must be visibly perfect. Use polishing powder (item 3, table 1-4) to smooth defective surfaces.
- *d, Soldered Connections.* Make all soldered connections in accordance with the following:
- (1) Secure the wire mechanically whenever possible before soldering. Use only resin core solder.
- (2) Clean the part thoroughly with alcohol to remove excess resin.

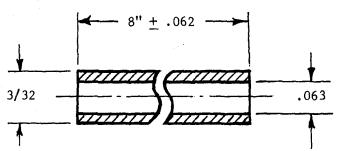


Figure 2-8. Fabrication Instructions for Evacuation Tube.

(3) Do not soften or char the insulation. Insulation must be more than 1/16 in. from soldered connections.

CAUTION

Do not drop solder, resin, flux, or other foreign materials into the vertical gyro indicator. Inspect carefully after soldering.

- e. Ball Bearings. Replace all worn or defective bearings.
- f. Hardware. Replace all hardware with stripped or damaged threads.
- g. Evacuation Tube. Replace tube if corroded, distorted, or damaged, Manufacture tube from copper tube (item 8, table 1-4) in accordance with figure 2-8.

2-5. Lubrication.

Bearings are the only parts that require lubrication. When necessary, lubricate very sparingly, using low temperature lubricating oil (item 4, table 1-4).

2-6. Painting Requirements.

Table 2-2 provides the only painting requirements.

Table 2-2. Painting Requirements

ITEM NAME	PAINT TYPE AND SPECIFICATION	METHOD OF APPLICATION	NO. OF COATS	NOTES
Case	Zinc Cromate Primer, MIL-P-8585	Spray	1	Exterior only
Case	Black Enamel, MIL-E-5556, Color Code: 37038	Spray	As required	Exterior only

2-7. Reassembly.

Reassemble components of the remote attitude indicator in accordance with the following procedures and referenced illustrations.

- a. Assembly of Front End Assembly.
- (1) Install two resistors (15, fig, 2-7), glass cover (17), and retaining ring (16) in bezel (18).
- (2) Test bezel subassembly at this point using a mixture of the filling medium (table 1-1), The leakage at 1 atmosphere pressure differential should not exceed 0.522 micron cubic feet per hour.
- (3) Assemble dished lens (13) to mask (14) using adhesive (item 6, table 1-4) at four equidistant places.

- (4) Install six terminal lugs (11) and bank dial scale (12).
- (5) Assemble terminal board (8) to assembly using six screws (9) and lockwashers (10).
- (6) Install incandescent lamp (7) in bank dial assembly and install flag (6).
- (7) Install flag clamp (3) using two screws (4) and lockwashers (5).
- (8) Install four flat washers (2) and four posts (1).
 - b. Assembly of Roll Servo Assembly.
- (1) Install two bearings (58, fig. 2-5) in bearing plate (55).
- (2) Install four screws (56) and lockwashers (57) in bearing plate (55) and thread screws into four gear plate posts (59). Do not tighten screws (56).
- (3) Install gear clusters (60 and 61) as shown in figure 2-5.
- (4) Assemble two bearings (66) to bearing plate (62), and carefully align bearing plate (62) with previously assembled speed decreaser assembled speed decreaser assembly components. Attach bearing plate (62) and entire speed decreaser assembly to servo plate assembly (67), using two screws (64) and two lockwashers (65). Thread screws (63 and 64) into gear plate posts (59). Do not tighten screws.
- (5) Refer to figure 2-5 and tighten all four screws (56). Now tighten screws (64). (Screws (64) are designated "Y" in fig. 2-9). Check that gears (60 and 61, fig. 2-5) can run freely. Do not tighten screws (63) (Screws 63 are designated "X" in fig. 2-9). Screws (63) should be engaged for. at least 1/16" of threads.
- (6) With "B" shaft assembly (fig, 2-9) locked, shaft "C" should be free and non-sticking. Replace gear clusters if backlash is excessive.
- (7) Install slip ring (49) on gear shaft assembly (50) and install gear shaft assembly using four screws (52), flat washer (53), and pin (51).
- (8) Install insulator (44), Install trunnion block (45) using four screws (46), four washers (47), and four nuts (48),
- (9) Install terminal board (40) using two screws (41), two washers (42) and two washers (43). This completes the yoke assembly.

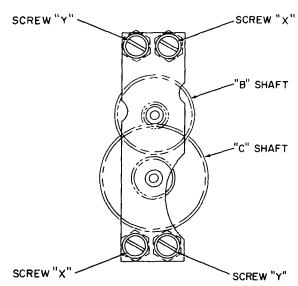


Figure 2-9. Speed Decreaser Adjustments.

- (10) Install spur gear (39) and tighten setscrew (11). Load spur gear by rotating gear approximately three teeth and then inserting a locking pin. (This pin is temporarily installed.)
 - (11) Install bearings (38) and (29).
- (12) Install bearing housing (33) using screws (34) and (35), two screws (36), and lockwashers (37).
 - (13) Install yoke (54).
- (14) Install shims (32) and thrust washer (31). Secure with retaining ring (30).
- (15) Remove locking pin from spur gear (39).
- (16) Referring to figures 2-5 and 2-9, position the speed decreaser so that there is minimum backlash or binding of speed decreaser gears (60 and 61, fig. 2–5). Then tighten both "X" screws (fig. 2–9). Again check gears for minimum backlash and binding. If necessary, loosen "X" screws and repeat adjustment to obtain required results.
- (17) Install brush block assembly (22 and 25, fig, 2-5), using two screws (23) and 'two washers (24).
- (18) Install eight terminal studs (19) using eight washers (21) and eight nuts (20).
- (19) Install two capacitors (16), two capacitors (17) and two resistors (18).
- (20) Install synchro control transformer (7) using two screws (8), two washers (9) and two clamps (10).

- (21) Install tachometer generator motor (12) using two screws (13), two washers (14) and two clamps (15).
- (22) Install power transformer (4) using two screws (5) and two washers (6).
- (23) Install connector plate assembly (1) using two screws (2) and two washers (3).
- c. Assembly of Electronic Control Amplifier. Reassemble as necessary.

NOTE

When installing heat sink (10, fig. 2-4), on transistors, make certain that the beveled edge of each heat sink faces the edge of the printed circuit board.

- d. Assembly of Electronic Components Assembly. Reassemble as necessary.
- e. Assembly of Pitch Servo and Spheroid Assembly.
- (1) Install two bearings (44, fig. 2-6) in bearing plate (41).
- (2) Install four screws (42) and lockwashers (43) in bearing plate (41) and thread screws into four gear plate posts (38). Do not tighten screws (42).
 - (3) Install gear clusters (39 and 40).
- (4) Assemble two bearings (37) to bearing plate (38), and carefully align bearing plate (33) with previously assembled speed decreaser assembly components. Attach bearing plate (33) using two screws (\$34), two screws (35) and four lockwashers (36). Thread screws (34 and 35) into gear plate posts (38). Do not tighten screws
- (5) Refer to figure 2-6 and tighten all four screws" (42). Now tighten two screws (34). (Screws 34 are designated "X" in figure 2-9.) Check that gears (39 and 40, fig. 2-6), can run freely. Do not fully tighten screws (35). (Screws (35) are designated "Y" in figure 2-9.) Screws (35) should be engaged for at least 1/16" of threads.
- (6) With "B" shaft assembly (fig, 2-9) locked, shaft "C" should be free and non-sticking. Replace gear clusters if backlash is excessive.
- (7) Install motor tachometer generator (28, fig. 2-6) and control synchro (29) using

- two rim clenching clamps (32), two washers (31) and two screws (30) for each.
- (8) Install spur gear assembly (24 through 27) with setscrew (23). Load spur gear assembly by rotating gear approximately three teeth and then installing locking pin. (Locking pin is installed temporarily.)
- (9) Install counterweight (21) with two screws (22).
- (10) Install collar (19) with two setscrews (20).
- (11) Install bearing (18), spur gear (17), bearing (15), and shaft collar (13). Secure shaft collar (13) with setscrew (14).
- (12) Install endbell (16) and bearing (15).
- (13) Remove locking pin from spur gear assembly (24 through 27). Referring to figures 2–6 and 11, position the speed decreaser so that there is minimum backlash and binding of gears (39 and 40, fig. 2–6). Then tighten both "Y" screws (figure 11). Again check the gears for minimum backlash and binding. If necessary, loosen "Y" screws and repeat adjustment to obtain the required results.
- (14) Install lug (8) on reflector (12) using screw (9), washer (10), and nut (11).
- (15) Install lamp (6) and electrical contact (7).
- (16) Install assembled reflector components to mounting plate (45) with two screws (3), two washers (4), and two washers (5).

NOTE

If the gears or synchro of the pitch servo and spheroid assembly have been previously disassembled, refer to the adjustment procedures of paragraphs 2-8a and 2-8b before performing step 17. If not, proceed directly to step 17.

- (17) Install both spheroids (1) with six screws (2).
- f. Assembly of Attitude Indicator Subassembly.
- (1) Secure dial pointer (20, fig. 2-2) to front end assembly (21).

- (2) Install two brackets (18) using four screws (19), (Be certain to align brackets with lines that were penciled during disassembly.)
- (3) Install pitch servo and spheroid assembly (14) using two clamping blocks (17), four washers (16), and four screws (15).
- (4) Install two electronic control amplifiers (9), roll servo assembly (10), and electronic components assembly (1) using eight sleeve spacers (6), two terminal studs (7), two posts (8), two posts (11), four washers (13) and screws (12), four washers (5), four washers (4), two screws (3), and two screws (2).
- (5) Apply spot ties (item 5, table 1-4) to posts (11).
- g. Final Assembly of Remote Attitude Indicator.
- (1) Mount connector gasket (10, fig. 2-1) to attitude indicator subassembly (11).
- (2) Attach dial (9) using adhesive (item 6, table 1-4) and install knobs (7). Secure with four setscrews (8).

NOTE

If the gears, synchro, or yoke assembly of the roll servo assembly have been previously disassembled, perform the adjustment procedures of paragraph 2-8c before performing step 3. If not, proceed directly to step 3.

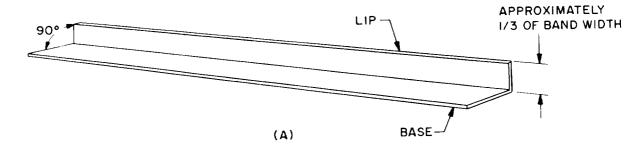
- (3) Install evacuation tube (6), identification plate (5), and insulator (4).
- (4) Refer to Section III and perform the final test procedures. When all tests are successfully completed, perform the remaining reassembly procedures below.
- (5) Construct the solderband (3) as follows: Cut off about 5-1/2 inches of solderband (MV204-4). Fold band along longitudinal axis as shown in 'A' of figure 2-10. Now shape the band by wrapping it around solderband block (table 1-3). (At the corners of the block, the base of the band must be slit so that the band can be bent.) When the solderband is completed, trim off excess band. The completed solderband is shown in 'B' of figure 2-10.
- (6) Solder base of solderband (8) to case (1).

- (7) Install case (1), Wrap adhesive tape (item 7, table 1-4) around case to hold case to chassis.
- (8) Cut off approximately 11 inches of tearband (MAT305). Solder the band to case (over adhesive tape) to form the solderband (2).

2-8. Adjustment Before Completion of Reassembly.

The pitch servo and spheroid assembly and the roll servo assembly may require adjustment before they are completely reassembled. Refer to paragraphs 2–7e and 2–7g to determine if the adjustments are applicable.

- a. Pitch-Synchro Null Adjustment. To null the output of the pitch synchro, proceed as follows:
- (1) Connect test fixture TE244 (with T-311 phasing unit) to 115-vac, 400-cps source. Set switch S1 to off position.
- (2) Unsolder the leads of the pitch synchro from the indicator. Connect the leads to the test-fixture terminals. Make certain that each lead is connected to the terminal of the same color (red lead to terminal marked RED, etc.).
- (3) Connect AC Voltmeter (TS-352 B/U) across terminals COM and M1 on the test fixture,
- (4) On the test fixture, set switch S1 to the on position,
- (5) Rotate the pitch synchro for a minimum null on the voltmeter, while holding 'A' as shown in figure 2-11.
- (6) Connect the voltmeter to terminals COM and M2 and observe the voltmeter indication.
- (7) On the test fixture, press switch S2 and observe that the voltmeter indication decreases.
- (8) If the indication increases, rotate the pitch synchro 180 degrees and repeat steps 3 through 7. Then place a small dot of paint as shown in figure 2-11.
- (9) Remove the pitch synchro from the test fixture and resolder to the indicator.
- *b. Pitch-Sgnchro Fine Adjustment.* To perform the fine adjustment of the pitch synchro, proceed as follows:
- (1) Connect the indicator to the test equipment, as shown in figure 3-3. Apply power



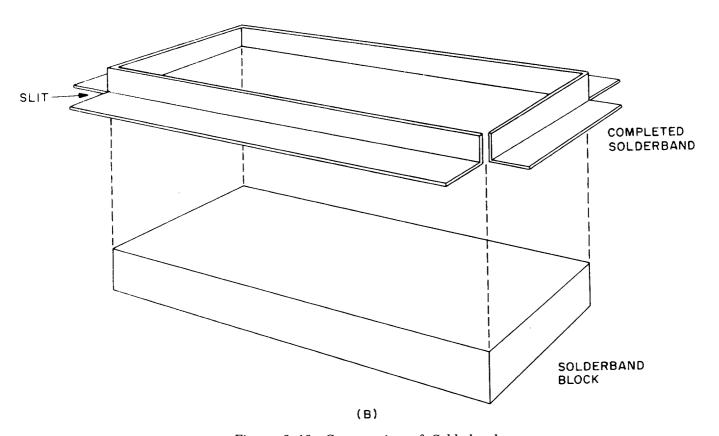


Figure 2–10. Construction of Solderband.

- (2) Set switch S6 to PITCH.
- (3) Adjust test synchro for 180°.
- (4) Adjust the pitch trim knob for minimum voltage, as measured at pin C. Do not disturb this setting once it is made.
- (5) Loosen the two screws (15, fig. 2-2) on either side of the sphere, using an offset, flat-tip screwdriver.
- (6) Insert the screwdriver into the inner shaft of the pitch servo and spheroid assembly and rotate the shaft for a zero pitch indication on the indicator.

- (7) Tighten screws (15, fig. 2–2). Make certain that the screws are tightened evenly.
- (8) Recheck the pitch for zero indication, $\pm 1/4^{\circ}$. Repeat steps 5 through 8, if necessary.
- (9) Remove test equipment. Complete the assembly procedures for the pitch servo and spheroid assembly (paragraph 2–7e, step 17).
- c. Roll Synchro Adjustment. To adjust the roll synchro, proceed as follows:
- (1) Connect the indicator to the test equipment, as shown in figure 3–3. Apply power.

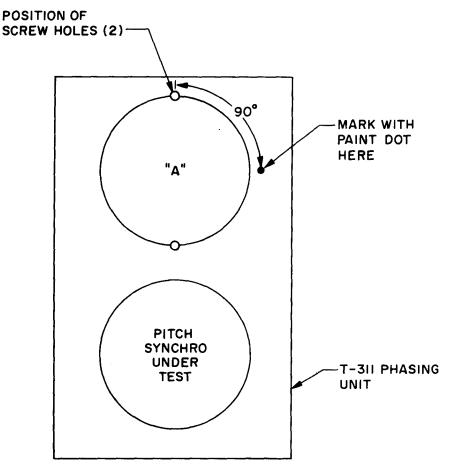


Figure 2-11. Pitch Synchro Null Adjustment.

- (2) Set switch S6 to ROLL.
- (3) Set test synchro to 180°.
- (4) Adjust the pitch trim knob for minimum voltage, as measured at PIN N. Do not disturb this setting once it is made.
- (5) Loosen the roll synchro (7, fig. 2-5) and rotate for an indicator display of zero roll.
 - (6) Retighten the synchro.
- (7) Again check the indicator display for a roll of $0^{\circ} \pm 1/4^{\circ}$. Repeat stepe 5 through 7, if necessary.
- (8) Remove test equipment. Complete the assembly procedures for the indicator (paragraph 2-7g, step 3).

2-9. Filling Procedures.

CAUTION

During the filling procedures, make certain that the following conditions are met:

Evacuation of both the indi-

cator and the chamber must be performed so that the internal indicator pressure does not exceed 5 inches Hg (2.5 psi) above the chamber pressure.

The baking temperature must always be $70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (158°F $\pm 4^{\circ}\text{F}$).

The vacuum pressure during the baking procedure must be 28 inches Hg or greater.

- a. Preheat the evacuation chamber to 70° C $\pm 2^{\circ}$ C (158° F $\pm 4^{\circ}$ F).
 - b. Place indicator in chamber.
- $\it c.$ Apply vacuum and bake indicator for 5 minutes,
- *d.* Fill indicator with filling medium (table 1-1) and bake for 25 minutes.
 - e. Repeat steps c and d.

f. Apply vacuum to indicator and then bake for 1 hour and 45 minutes.

- g. Fill indicator with filling medium and bake for 15 minutes.
 - h. Repeat steps f and g.
- i. Repeat steps c and d twice. At this point, six cycles of evacuating and filling have been completed and the indicator should be filled with gas.
 - j. Open chamber and seal indicator vent.
- *k.* Close chamber and bake the sealed indicator at ambient pressure for 15 minutes.

NOTE

The following fog test must be performed within 30 seconds after the indicator is removed from the chamber.

- *l.* Remove indicator from chamber, hold face up, and rub an ice cube on the indicator glass face for 55 to 65 seconds. When the cube is removed, observe that there is no evidence of fogging on the inside of the glass.
- m. Test the indicator for leakage. The leak rate should not exceed 0.522 micron cubic feet per hour at one atmospheric pressure differential.

NOTE

After the filling procedures are successfully completed, repeat the final test procedures in Section III.

SECTION III

FINAL TEST PROCEDURES

3-1. Final Testing.

These tests should be initially performed to determine the extent of overhaul required, and also after overhaul or any major repair to determine acceptability of the remote attitude indicater. The tests are arranged in a prescribed sequence. If for any reason, tests are stopped, the remote attitude indicator must be retested in full sequence. Refer to figures 3-1 and 3-2 for circuit-element values and location, and for any troubleshooting procedures that may be necessary. Unless otherwise specified, all tests must be performed under the following standard conditions:

- a. Temperature . . . Room ambient $25 \pm 10^{\circ}$ C
- b. Attitude ----- Normal ground
- c. Humidity -----Room ambient up to 90% relative

3-2. Preliminary Starting.

With all power off, connect the indicator as shown in figure 3-3. Apply power. The word OFF should disappear on the face of the indicator.

3-3 Pitch and Roll Trim Tests.

- a. Set switch S6 to PITCH and set the test synchro to 180°.
- b. Turn the pitch trim knob 1/4 turn CW from zero position. The horizon line should move up. Rezero the pitch indication with the test synchro. The test synchro shall require at least 8° shift, from the 180° position.
- c. Turn the pitch trim knob 1/2 turn CCW from zero position, The horizon line shall move down. Rezero the pitch indication with the test synchro. The test synchro shall require at least 16° shift, from the 180° position.
- d. Return the test synchro to 180° and the pitch trim knob to its zero position. The indicator shall indicate zero pitch within 1/2 of the horizontal line width.

- e. Set switch S6 to ROLL and set the roll trim knob to its maximum CW position. The airplane shall indicate right bank (right wind below horizon line).
- f. Rezero the roll indication with the test synchro. The. test synchro shall require 8° to 20° shift.
- g. Set the roll trim knob to its maximum CCW position and rezero the roll indication with the test synchro. The test synchro shall require between 8° and 20° shift.
- *h.* Turn power off and connect a second indicator to the test fixture (fig. 3-3). Set the roll and pitch trim knobs at zero.
- i. Apply power, set switch S6 to PITCH and zero the pitch indication of the second indicator with the test synchro.
- j. Set the pitch trim knob of the first indicator to its maximum CW position and rezero the pitch indication of the second. It shall not require a change in test synchro of more than $\pm 1/2^{\circ}$.
- k. Repeat steps i and j except set pitch trim knob to maximum CCW position.
 - 1. Remove power from test setup.
- m. Remove the second indicator from the test setup.

3-4. Pitch and Bank Zero Tests.

- a. Set switch S6 to the PITCH position and set the pitch indication to zero. The test synchro shall read 180° & $1/2^{\circ}$.
- *b.* Move indication off zero by several degrees and reset the pitch indication to zero. The test synchro shall read 180° & $1/2^{\circ}$ and be within $\pm 1/4^{\circ}$ of the value determined in step a.
- c. Set switch S6 to the ROLL position and set the roll indication to zero. The test synchro shall read $180^{\circ} \pm 1/2^{\circ}$.
- d. Repeat step b except set roll indication to zero,

3-5. Sensitivity Tests.

- a. With the pitch and roll trim knobs in their zero positions and switch S6 to ROLL, move the test synchro in right bank until the indicator display moves. The test synchro shall read not more than 180.25°(Return the test synchro to 180° and turn it for left bank until the indicator display moves. The test synchro shall read not less than 179.75°.
- b. Repeat step a for the pitch indication with switch S6 to PITCH position, The test synchro shift shall be not more than $1/4^{\circ}$.
- c. Repeat steps a and b with the pitch and roll trim knobs in their maximum CW positions except the test synchro shall not shift more than $1/2^{\circ}$ in each direction.
- d. Repeat steps a and b with the pitch and roll trim knobs in their maximum CCW positions except the test synchro shall not shift more than $1/2^{\circ}$ in each direction.

3-6. Follow-Up Rate Tests.

- a. Set switch S6 to PITCH and set the test transmitter to drive its transmitter at 90° per second (15 RPM). The error signal at the PIN N test point shall not exceed 1.65 volts ac when measured with a voltmeter,
- b. Set switch S6 to ROLL and set the test transmitter to drive its transmitter at 300° per second (50 RPM). The error signal at the PIN N test point shall not exceed 3.31 volts ac when measured with a voltmeter.
 - c. Return switch S6 to TE 176A.

3-7. Follow-Up Accuracy Tests.

- a. Set the switch S6 to ROLL and vary the test synchro for an indicator reading of 10° right bank. The test synchro shall read $190 \pm 1^{\circ}$.
- b. Repeat step a for 30° left bank, The test synchro shall read $150 \pm 1^{\circ}$.
- c. Repeat step a for 60° right bank. The tekt synchro shall read $240 \pm 2.0^{\circ}$.
- d. Repeat step a for 60° left bank. The test synchro shall read $120^{\circ} \pm 2.0^{\circ}$.
- e. Repeat step a for 90° right bank. The test synchro shall read $270 \pm 2.0^{\circ}$.
- f. Set switch S6 to PITCH and vary. the test synchro for an indicator reading of 10° climb. The test synchro shall read $190 \pm 1^{\circ}$.

- g. Repeat step f for 20° dive. The test synchro shall read $160 \& 1^{\circ}$.
- *h.* Repeat step f for 40° climb. The test synchro shall read $220 \pm 2.0^{\circ}$.
- *i.* Repeat step f for 60° dive. The test synchro shall read $120 \pm 2.0^{\circ}$.
- *j.* Repeat step f for 90° climb. The test synchro shall read $270^{\circ} \pm 2.0^{\circ}$.

3-8. Gimbal Freedom Tests.

- a. Repeat follow-up rate tests given in paragraph 3–5, except monitor test points at PIN N and PIN C with a VTVM.
- **b.** The indicator should follow smoothly without sticking and overshooting, The ac voltage at PIN N should not vary more than \pm 0.33 volts and the ac voltage at PIN C should not vary more than \pm 0.6 volts.
- c. Return S3 to TE 176A and set the test synchro to 180° .

3-9. Power Warning Indicator.

- a. Remove power. The word OFF should appear on the indicator face.
- *b.* Reapply power. The flag should cover the word OFF.
- c. Operate switch S5. The word OFF should appear.

3-10. Lighting Tests.

- a. Connect the indicator as shown in figure 3–4 and apply power.
 - b. Set dc power for $28.00 \pm .05$ vdc.
- c. Visually compare the two indicators displays. They shall appear identical in color.
 - d. Set the power for $15.00 \pm .05$ vdc.
- e. Visually compare the two indicators displays. There shall be no visual difference in brightness between the indicators.

3-11. Sense Tests.

- a. Connect the indicator as shown in figure 3-3, and apply power.
- b. Set switch S2 to 180° position and test synchro to 180°.
- c. Set switch S6 to PITCH. The indicator should indicate zero pitch and roll and the bank pointer should be pointing up.

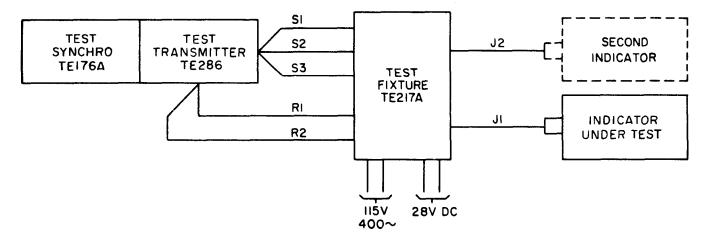


Figure 3-3. Normal Test Setup.

- $\it d.$ Increase scale setting of test synchro approximately 10°. The indicator should show a climb condition.
- *e.* Set switch S6 to ROLL. Indicator should show a right bank.

3-12. Damping Selection and Sensitivity Test.

- *a.* Connect light bulb to test points TP1 and TP2 and indicator to TE 217A. Set switch S4 to position 1 and apply power.
- *b.* Observe that light bulb appears dim. This indicates that there are no shorts in the indicator. If light bulb appears bright, there is a short and power should be removed.
- *e.* If there are no shorts, set switch S4 to position 2 and the pitch and roll trim knobs for nulls at PIN C and PIN N test points respectively.
- d. With power off connect the unit under test as shown in test setup (fig. 3-3) except replace test transmitter with TE 218 test. fixure. Connect green, yellow and blue terminals of TE 226 (resistance decade box) to terminals 7, 8, and 37, respectively, on electronic components assembly.
- *e.* Connect VTVM to PIN N test point and set switch S6 to ROLL.
- $\it f$. Set TE 218 to drive its transmitter at 300° per second (50 RPM) and adjust the TE 226 for a VTVM reading at PIN N test point of 3.0 + .2 -.3 volts ac.
- g. With the TE 226 still in the circuit, at the setting determined in step f, remove the TE 218 and reconnect the test transmitter.

- h. Set the pitch and roll trim knobs to their zero positions and set test transmitter to 180° (approach the 180° setting in the CW direction).
- i. Slowly move the test transmitter CW and observe the voltage at PIN N test point. This null voltage will increase slowly, then suddenly drop in value. Record reading at the moment of voltage drop.
- j. Reverse direction and watch for the same type of rise and drop in null voltage. Record the test transmitter reading. The difference between the test transmitter reading obtained in step i and the reading obtained in this step shall not exceed 30 minutes. Record this difference as sensitivity.
- k. Install two RC20GF-J resistors as R105 and R107 of the same value as shown on the TE 226 decade box.

NOTE

If both values above and below the ideal TE 226 setting result in too high or too low a null voltage. use the high value resistor of the lower setting and the low value resistor of the higher setting. For example: If the TE 226 setting falls between the 7.5/2.4 setting and the 8.2/1.8 setting and both result in an out of tolerance null, voltage at PIN N or PIN C test points, then use the 7.5/1.8 combination.

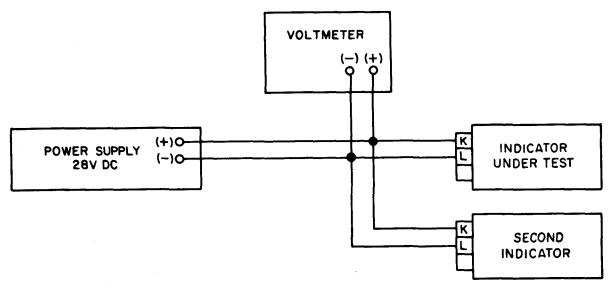


Figure 3-4. Lighting Test Setup.

- 1. Set switch S6 to PITCH and reconnect the green, yellow, and blue terminals of TE 226 to terminals 10, 11, and 38 respectively on the electronic components assembly.
- m. Remove test transmitter and install the, TE 218.
- n. Set TE 218 to drive its transmitter at 90° per second (15 RPM) and connect VTVM to monitor the PIN C test point.
- o. Adjust TE 226 for a VTVM reading at PIN C test point of 0.5 ± 0.1 volts ac.
- p. Remove TE 218 and install test transmitter.

- q. Set test transmitter to 180° (approach the 180° setting in the CW direction).
 - r. Repeat steps i and j.
- s. Repeat step k for resistors R106 and R104.
- t. Install a protective cover over the potentiometer knobs attached by 10/32 x 1 5/8 machine screws and 10/32 nuts. Two fabricated spacers made of 5/16" aluminum tubing 1 3/16" long will be required also. The protective cover can be fabricated from .040" aluminum stock 5 1/4" by 2 3/4". Bend the 2 3/4" dimension at right angle. Drill 2 holes in the 1 1/2" side to match the holes in the indicator. Insert the screws through the bracket, the spacers and the indicator and attach the two nuts (fig. 3-5).

★IU. S. GOVERNMENT PRINTING OFFICE: 1975--665689/99

SECTION IV

PRESERVATION, PACKAGING, PACKING, AND MARKING REQUIREMENTS

Preservation, packaging, packing, and marking requirements for remote attitude indicator, part number DSA 274, will be in accordance with figure 4-1.

	PRESERVA	TION, PACKAG	ING, PACKING	AND MARKING	REQUIREMENT	S					
NOMENCLATURE				STOCK NUMBER							
Indica	tor, Attitud	e Pemote		0-910-0210							
Indica	tor, Attitud	e, Remote		PART NUMBER DSA 274							
NET WEIGHT	DIN	MENS IONS		WEIGHT	CUBIC FE	ET					
4 1bs	11	0.5 x 10.5 x	12.9 12.	5 1bs	.5						
All apecific	ations and standards	applicable to the re	quirements herein s	hall be the issue in	effect on date of inv	vitation for bida.					
PACKAGING K	EVEL A	LEVE	L C								
			CE WITH SPECIFIC MENTS SHALL APP								
•	INIT PKG QTY	METHOD	PRESERVATIVE	WRAP	DUNNAGE	CONTAINER					
	1	IId	None	MIL-A-148	PPP-C-1120	MIL-D-6054					
07955		l	I,	İ	or	1					
OTHER					MIL-C-81013						
	TION AND PACKAG TO THE FIRST DES		H AS TO PREVENT	DETERIORATION	OR DAMAGE DURI	NG HANDLING AND					
PACKING	LEVEL A	X LEVEL C									
ITEMS SHAL			ORMING TO SPECIF	ICATION NO.							
			TH EXTERIOR GLU		F NN+P+530. THIS F	SI YWOOD SHALL					
BE TREATED WITH FILLER	NITH A WATER R	EPELLANT CONFO PANELS: EITHER I	RMING TO TT-W-5 BE BEVELED OR N 1/4 INCH CHANNE	72. PLYWOOD CON Otched 1/4 inch	TAINERS SHALL B	E CONSTRUCTED					
TAINERS SH	ALL BE IN ACCORD		E CARRIER ACCEF DRM FREIGHT CLAS SPORTATION.								
OTHER.											
MARK ING	<u></u>					-					
THE CONT	S. MARKING FOR	ARK ALL SHIPMEN SHIPMENT AND S	TS UNDER THIS CO	ECT AS OF THE DA	ATE OF THIS SOLIC	~ I T A TION					
			INTERIOR PACKA								
WITH A SIL APPLICAT ONE (1), N PACKED "	.HOUETTE OF THE 'ION OF TWO (2) LA ONE WILL BE REQ' 'LEVEL A'', EACH	E AIRCRAFT, (WHE BELS, A SINGLE L Uired,) when thi Container Shali	RE THE SIZE OF T ABEL SHALL BE A E UNIT CONTAINER L BE MARKED ON T THE SILHOUETTE	HE UNIT CONTAIN PPLIED。IF THE R IS THE SHIPPING [WO (2) SIDES, TOF	IER IS TOO SMALL PACKAGE IS TOO S CONTAINER AND AND ONE (1) END	TO PERMIT THE SMALL FOR THE ITEM IS WITH A					
FACILITA WILL SUPF INDICATE	TÉ EASY VISUAL IC PLY LABELS ON RE THE END ITEM AP	DENTIFICATION WI EQUEST. THE NOM PLICATION AND T	THOUT OBSCURING IENCLATURE OF T HE POSITION OF T PLICABLE AIRCRA	; OTHER MARKING HE MAJOR COMPO HE PART: e.g., GE	S. THE CONTRACT	TING OFFICER EXTENDED TO					
MATERIEL OR STORE PACKAGE: SECURELY MAXIMUM I PRINTED I BULK MAT	CONDITION TAG (D AERON AUTICAL S, CRATES OR MET ATTACHED TO TI PROTECTION FROM BLACK LEAD PENG ERIALS, ETC.) THE	OF THE APPLICAB OR AIR DELIVERY AL SHIPPING CON' ME EXTERIOR OF ' M HANDLING AND W CIL ENTRIES, ITEM IE SERVICEABILIT	ITEMS. WHEN SUG THINERS, A DUPLIC THE PACKAGE OR VEATHER. TAGS W MS OF A COMMON O Y OF WHICH IS OB IAL TAGS, LABEL!	SECURELY ATTAC CHITEMS ARE PLAN CATE MATERIEL CONTAINER IN SU ILL BE COMPLETI R NONTECHNICAL VIOUS, AND THE IC	CHED DIRECTLY T COED OR STORED I CONDITION TAG OR CH A MANNER THA ED EITHER BY TYF . NATURE (i.e., CO DENTITY AND INSP	O ALL UNINSTALLED N CARTONS, LABEL WILL BE LT WILL AFFORD PEWRITTEN OR MMON HARDWARE, ECTION REQUIRE-					
d. OTHER											

Figure 4-1. Preservation, Packaging, Packing, and Marking Requirements.

APPENDIX A REFERENCES

TM 38-750 The Army Maintenance Management System

APPENDIX B

REPAIR PARTS AND SPECIAL TOOLS LIST

(Current as of 1 December 1970)

Section I. INTRODUCTION

B-1. Scope.

This appendix. lists repair parts, special tools, test and support equipment, and ,maintenance supplies required for the performance of general support maintenance of the indicator, attitude.

B-2. General.

This Repair Parts and Special Tools Listing is divided into the following sections:

- a. Repair Parts—Section II. A list of repair parts authorized for the performance of maintenance at the general support level in figure and item number sequence. Maintenance supplies (MSUP) are listed within the section in ascending Federal stock number sequence.
- b. Special Tools, Test and Support Equipment-section III. A list of special tools, test and support equipment authorized for the performance at the general support level.
- c. Federal Stock Number and Reference Number Index—Section IV. This section is divided as follows:
- (1) A list of Federal stock numbers in ascending numerical sequence cross-referenced to the illustration figure and item number.
- (2) A list of reference numbers in ascending alphanumerical sequence cross-referenced to the manufacturer's Federal supply code, illustration figure and item number.

8-3. Explanation of Columns.

The following provides an explanation of columns in the tabular lists in sections II and III:

- a. Source, Maintenance and Recoverability Codes (SMR), Column 1.
- (1) Source code indicates the selection status and source for the listed item. Source codes are:

CODE

EXPLANATION

- P Repair Parts, Special Tools and Test Equipment supplied from the GSA/ DSA, or Army supply system, and authorized for use at indicated maintenance categories.
- P2 Repair Parts, Special Tools and Test Equipment which are procured and stocked for insurance purposes because the combat or military essentiality of the end item dictates that a minimum quantity be available in the supply system.
- P9 Assigned to items which are NSA design controlled: unique repair parts, special tools, test, measuring and diagnostic equipment, which are stocked and supplied by the Army COMSEC Logistic System and which are not subject to the provisions of AR 380-41.
- P10 Assigned to items which are NSA design controlled: special tools, test, measuring and diagnostic equipment for COMSEC support, which are accountable under the provisions of AR 380-41, and which are stocked and supplied by the Army COMSEC Logistic System.
- M Repair Parts, Special Tools and Test Equipment which are not procured or stocked, as such, in the supply system but are to be manufactured at indicated maintenance levels.
- A Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the re-

CODE

EXPLANATION

quired assembly at indicated maintenance categories.

- X Parts and assemblies that are not procured or stocked because the failure rate is normally below that of the applicable end item of component. The failure of such part or assembly should result in retirement of the end item from the supply system.
- X1 Repair parts which are not procured or stocked. The requirement for such items will be filled by the next higher assembly or component.
- X2 Repair Parts, Special Tools, and Test Equipment which are not stocked and have no foreseen mortality. The indicated maintenance category requiring such repair parts will attempt to obtain the parts through cannibalization or salvage. The item may be requisitioned with exception data, from the end item manager, for immediate use.
- G Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above the DS and GS level or returned to depot supply level.

NOTE: Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded Xl and aircraft support items as restricted by AR 700-42.

(2) Maintenance code indicates the lowest category of maintenance authorized to install the listed item. The maintenance level codes are:

CODE

EXPLANATION

- C Crew or operator maintenance.
- O Organizational maintenance.
- F Direct support maintenance.
- H General support maintenance.
- (3) Recoverability code indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are nonrecoverable, Recoverability codes are:

CODE

EXPLANATION

- R Applied to repair parts, (assemblies and components) special tools and test equipment which are considered economically reparable at direct and general support maintenance levels. When the item is no longer economically reparable, it is normally disposed of at the GS level. When supply considerations dictate, some of these repair parts may be listed for automatic return to supply for depot level repair as set forth in AR 710-50. When so listed, they will be replaced by supply on an exchange basis.
- S Repair Parts, Special Tools, Test
 Equipment and assemblies which
 are economically reparable at DSU
 and GSU activities and which normally are furnished by supply on
 an exchange basis. When items are
 determined by a GSU to be uneconomically reparable, they will be
 evacuated to a depot for evaluation
 and analysis before final disposition.
- T Higher dollar value recoverable repair parts, special tools, and test equipment which are subject to special handling and are issued on an exchange basis. Such items will be repaired or overhauled at depot maintenance activities only. No repair may be accomplished at lower levels.
- U Repair Parts, Special Tools and Test Equipment specifically selected for salvage by reclamation units because of precious metal content, critical materials, high dollar value or reusable casings or castings.
- b. Federal Stock Number, Column 2. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes, Items source coded A, M, X1, or X2 are not assigned a Federal stock number.
- c. Description, Column 3. Indicates the Federal item name and any additional description of the item required. The description column contains the following subcolumns.
- (1) Reference number and manufacturer's code. Indicates a part number or other

reference number for the listed item followed by the applicable five-digit Federal supply code for manufacturers, in parentheses.

- (2) Usable on code. Not applicable.
- d. Unit of Measure (U/M), Column 4. A 2-character alphabetical abbreviation indicating the amount or quantity of the item upon which the allowances are based, e.g., FT, EA, PR.
- e. Quantity Incorporated in Unit, Column 5. Indicates the quantity of the item used in the assembly. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated.
- f. Thirty-day GS Maintenance Allowance, Column 6.
- (1) The allowance column is divided into three subcolumns, Indicated in each subcolumn, opposite the first appearance of each item, is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in this column. Items authorized for use as required, but not for initial stockage, are identified with an asterisk (*) in the allowance column.
- (2) The quantitative allowance for GS level of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.
- (3) Determination of the total quantity of parts required for maintenance of more than 100 of these equipments can be accomplished by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized allowance for 51-100 allowance column. Example: authorized allowance for 51-100 equipments is 40; for 150 equipments, multiply 40 by 1,50, or 60 parts required.
- (4) The basis of issue for authorized special tools, test and support equipment is the number of end items of equipment supported.
- g. one-year Allowance per 100 Equipments/ Contingency Planning Purposes, Column 7. Indicates the first appearance of each item, the total quantity required for distribution and contingency planning purposes. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year,

- h. Depot Maintenance Allowance per 100 Equipments, Column 8. Not applicable.
- i. *Illustration, Column 9.* Illustrations appear in the narrative portion of this manual. This column is divided as follows:
- (1) Figure number, column 9a. Indicates the figure number of the illustration in which the item is shown. Appearances of the letters "MSUP" in this column indicate maintenance supplies located in section II; the letters "TOOL" indicate special tools located in section III.
- (2) *Item number, column 9b.* Indicates the callout number to reference the item in the illustration.

B-4. Special Information.

- a. Attaching parts are listed following the part (s) they attach and in the same indent. They are separated from the part(s) by the words "attaching parts" in the description column. When they attach an assembly which is broken down to show detail parts, the attaching parts are separated from the details of the assembly by the symbol "- -*- --." Details of the asembly are then indented one space to the right of their next higher assembly, which appears above the attaching parts.
- *b*. Parts which require manufacture or assembly at a category higher than that authorized for installation will indicate in the source code column the higher category.

B-5. How to Locate 'Repair Parts.

- a. When Federal Stock Number or Reference Number is Unknown:
- (1) First. Find the exploded view illustration of the assembly or subassembly to which the repair part belongs.
- (2) Second. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.
- (3) *Third*. Using the Repair Parts Listing, find the figure and item number listed in the illustration column.
- b. When Federal Stock Number or Reference Number is Known:
- (1) First. Using the Index of Federal Stock Numbers and Reference Numbers, find the pertinent Federal stock number or reference number. This index is in ascending Federal stock

TM 55-6610-296-40

	sequence followed by a list of reference	CODE	MANUFACTURER
cross-referitem num	in ascending alphanumerical sequence, erenced to the illustration figure and aber. Second. Using the Repair Parts Listing, figure and item number listed in the	77045	Edison Thomas A Instrument Division McGraw-Edison Company of Fort Lauderdale Florida 1400 Commercial Blvd P O Box 8364 Fort Lauderdale FL 33310
Federal S	on column referenced in the Index of Stock Numbers and Reference Numbers. eral 'Supply Codes for Manufacturers.	80205	National Aerospace Standards Committee Aerospace Industries Association of America Inc 1725 De Sales N W Washington DC 20036
CODE	MANUFACTURER	81349	Military Specifications Promulgated
06808	Consolidated Airborne Systems Inc 115 Old Country Rd Carle Place NY		by Standardization Div Directorate of Logistic Services DSA
	11514	82260	Hoffman Electronics Corp Military
35351	Lear Siegler Inc Instrument Division 4141 Eastern Ave S E Grand Rapids		Products Division Hoffman Electronic Park El Monte CA 91734
	MI 49508	96906	Military Standards Promulgated by
76381	Minnesota Mining and Mfg Co 3M Center St Paul MN 55101		Standardization Div Directorate of Logistic Services DSA

(1) SMR	(2) FEDERAL		DES	CRIPTION	USABLE	(4) UNIT OF MEAS	(5) QTY INC IN		(6) HDAY MAINTAL	GS .W	(7). I-YR ALWPER 100	(8) DEPOT MAINT ALWPER	ILLUST	9) RATION
CODE	STOCK Number	REFERENCE NUMBER & MFR CODE			ON		UNIT	(a) 1-20	(b) 21-50	(c) 51-100	EOUIP	100	(a) FIG NO	(E) ITEM NO
	6610-905-0210	DSA274	(05808)	INDICATOR, ATTITUDE		EA							1-1	
				SECTION II REPAIR PARTS										
				REMOTE ATTITUDE INDICATOR										
х2-н Рн	6610-244-2800	MEC317 MAT305	(05808) (05808)	HOUSING, INDICATORSHIM		EA EA	1 1	*	*	*			3-1 3-1	1 2
PH PH X2-H	6680-952-2263 5340-135-3043	MV204-4 MV1307 MDP336	(05808) (05808) (05808)	BAND, TEAR INSULATOR PLATE, I DENTIFICATION		EA EA EA	1 1 1	*	*	*			3-1 3-1 3-1 3-1	3 4 5
ИH РH	5355-220-2681	M3V03C002 MNC301	(05808) (05808)	SPACER, SLEEVE-TUBE		EA	1 2	*	*	*			3-1 3-1	6 7
PH PH K1	6610-131-2053 5935-948-7579	MDS335 MSG304-2 1853	(05808) (05808) (05808)	SCALE, ROLL TRIMGASKET, ELECTRICALINDICATOR SUBASSEMBLY		EA EA	1 1 1	. *	*	*			3-1 3-1 3-1	9 10 11
				INDICATOR SUBASSEMBLY							Transfer Avenue			
X1 PH	6610-128-7745	1853 1673	(05808) (05808)	INDICATOR SUBASSEMBLY		EA	1 1	*	*	*			3-2 3-2	1
PH	5305-820-5946 5305-403-7733	1889900632 MHSM1A4C24S	(82260) (05808)	SCREW, MACHINE.		EA EA	2 2	*	*	*			3-2 3-2	2
PH	5310-933-8118	MS35338-135	(96906)	.WASHER, LOCK		EA	4	*	*	*			3-2	4
PH PH	5310-595-6211 5340-107-2036	MS15795-303 M3V03B039	(96906) (05808)	WASHER, FLATSPACER, SLEEVE		EA EA	4 8	*	*	*			3-2 3-2	5
PH	5940-177-6764	EJT344 M3V03B040	(05808)	.TERMINAL,STUD		EA	2 2	*	*	*			3-2	7
PH	5340-135-5076 6110-133-1206	1670	(05808) (05808)	SPACER, SLEEVEPANEL ASSEMBLY, AMPLIFIER		EA EA	2	*	. *	*			3-2 3-2	8
K1	52/0 125 1021	1856	(05808)	.ROLL SERVO ASSEMBLY			1			١.			3-2	10
PH PH	5340-135-1031 5310-928-2690	MSL314 MS35338-134	(05808) (96906)	.POST,ELECTRICAL		EA EA	2 4	*	*	*			3-2 3-2	11 13
X1		1857	(05808)	ASSEMBLY			1						3-2	14
PH PH	5305-941-3570 5310-933-8118	MS35275-219 MS35338-135	(96906) (96906)	SCREW, MACHINE		EA	4 4	*	*	*			3-2	15 16
PH	6610-128-7778	MFB302	(95808)	WASHER, LOCK		EA EA	2	*	*	*			3-2 3-2	17
PH	6610-128-7752	MCS328	(05808)	.BRACKET, POINTER		EA	2	*	*	*			3-2	18
PH PH	5305-941-3538 6610-128-7743	MS35275-201 MPP306	(96906) (05808)	SCREW,MACHINE		EA EA	4 1	*	*	*			3-2 3-2	19 20
X1	3010 110 1140	1854	(05808)	BEZEL ASSEMBLY			1]]	1		3-2	21

	(1) SMR	(2) FEDERAL		DES	CRIPTION	USABLE	(4) UNIT OF MEAS	(5) OTY INC IN		(6) DAY MAINT AL	GS .W	(7) 1-YR ALWPER 100	(8) DEPOT MAINT ALWPER	(S ILLUSTR		
	CODE	STOCK NUMBER	REFERENCE NUMBER & MFR CODE			CODE		UNIT	(a) 1-20	(b) 21-50	(c) 51-100	EQUIP CNTGCY	100	(a) FIG NO	(b) ITEM NO	
	PH	5310-928-2690	MS35338-134	(96906)	WASHER,LOCK		EA	4	*	*	*			3-5	27	
	PH	3110-516-5413	MS115-00609-0100	(96906)	BEARING, BALL		EA	1	*	*	*			3-5	29	İ
	PH	5340-282-7120	MS16624-4037	(96906)	RING RETAINING		EA	1	*	*	*	1		3-5	30	
	PH	5310-199-1037	MWT304	(05808)	-WASHER, FLAT		EA	1	*	*	*			3-5	31	1
	PH	6610-128-7739	MBH314	(05808)	LINER, BEARING HOUSING		EA	1	*	*	*	1	i	3-5	33	1
1	PH	5305-941-3551	MS35275-213	(96906)	SCREW, MACHINE		EA	1	*	*	*			3-5	3/	1
	PH	5305-054-5648	MS51957-14	(96906)	SCREW, MACHINE		EA	1	*	*	*			3-5	35	1
1	PH	5305-925-4774	MS35275-214	(96906)	SCREW, MACHINE		EA	2	*	*	*			3-5	36	
-	PH	5310-933-8118	MS35338-135	(96906)	WASHER, LOCK		EA	4	*	*	*			3-5	37	1
-	PH X1	3110-516-5413	MS115-00609-0100 MGS316-1	(96906) (05808)	BEARING, BALLGEAR, SPUR		EA	1	~	_ ~	*			3-5 3-5	38 39	
- [X1		1858	(05808)	YOKE ASSEMBLY			1		ĺ				3-5	39	
l	PH	5305-922-8777	MS35275-202	(96906)	SCREW, MACHINE		EA	2	*	*	*			3-5	41	
	PH	5310-928-2690	MS35338-134	(96906)	WASHER,LOCK		EA	2	*	*	*			3-5	42	
	PH	5970-144-7301	MYB318	(05808)	.INSULATOR		EA	1	*	*	*			3-5	44	1
	PH	6610-128-7755	MFB303	(05808)	CLAMP, SHAFT, TRUNNION		EA	2	*	*	*			3-5	45	ĺ
ı	PH	5305-941-3551	MS35275-213	(96906)	SCREW MACHINE		EA	4	*	*	*			3-5	46	1
- 1	PH	5310-933-8118	MS35338-135	(96906)	WASHER, LOCK		EA	4	*	*	*			3-5	47	1
	PH	5310-486-2386	M2HNS23	(05808)	NUT, PLAIN, HEXAGON		EA	4	*	*	*			3-5	48	1
- }	PH	6610-128-7779	MGR318	(05808)	GEAR, ROLL		EA	1	*	*	*			3-5	50	1
	PH	5315-145-1635	MHPS8N5	(05808)	PIN,SPRING		EA	1	*	*	*			3-5	51	
ļ	PH	5305-925-4774	MS35275-214	(96906)	SCREW, MACHINE		EA	4	*	*	*			3-5	52	1
	PH	5365-221-9677	MBW313	(05808)	SPACER, PLATE		EA	1	*	*	*			3-5	53	
	PH	6610-128-7732	MCY317	(05808)	YOKE, INDICATOR		EA	1	*	*	*			3-5	54	
- }	X1	6610 121 2076	1671-2 MZP305	(05808)	.GEAR ASSEMBLY, SPEED DECREASER			1				İ		3-5		
	PH PH	6610-131-2076 5305-054-5646	MS51957-12	(05808) (96906)	PLATE, BEARING		EA EA	1 4	*	*	*			3-5 3-5	55	1
- 1	PH	5310-933-8118	MS35338-135	(96906)	- WASHER, LOCK		EA	4	*	*	*			3-5	56 57	
	PH	3110-628-3084	MJBB02CB	(05808)	BEARING, BALL		EA	2	*	*	*		l	3-5	58	1
-	PH	6610-128-7782	MLP312	(05808)	.POST, GEAR PLATE		EA	4	*	*	*	١.		3-5	59	
	PH	6610-132-1056	MGC314	(05808)	.GEARSHAFT, SPUR		EA	1	*	*	*			3-5	60	
1	PH	6610-131-2070	MGC315	(05808)	-GEARSHAFT, SPUR.		EA	ī	*	*	*] :]	3-5	61	Ì
	PH	6610-131-2076	MZP305	(05808)	.PLATE, BEARING		EA	1	*	*	*			3-5	62	1
	PH	5305-941-9437	MS35275-215	(96906)	SCREW, MACHINE		EA	2	*	*	*			3-5	63	1
	PH	5305-945-0505	MS35275-212	(96906)	SCREW, MACHINE		EA	2	*	*	*			3-5	64	
	PH	5310-933-8118	MS35338-135	(96906)	WASHER,LOCK		EA	4	*	*	*			3-5	65	1
.	PH	3110-628-3084	мјвв02Св	(05808)	BEARING,BALL		EA	2	*	*	*			3-5	66	
	PH	6610-128-7762	1681	(05808)	PLATE ASSEMBLY, ROLL		EA	1	*	*	*			3-5	67	
					PITCH SERVO AND SPHEROID ASSEMBLY											I W
																6
- [X1		1857	(05808)	PITCH SERVO AND SPHEROID ASSEMBLY			1	1		1			3-6	i	9
1	PH	6610-132-1057	MDD333	(05808)	.SPHEROID, MARKED		EA	2	*	*	*			3-6	1	9
	PH	5305-940-9442	NAS1635-00-2	(80205)	SCREW, MACHINE		EA	12	*	*	*			3-6	2	1 1
			1859	(05808)	LIGHTING ASSEMBLY, SPHEROID ATTACHING PARTS			1						3-6		6
Ţ	PH	5305-054-5636	MS51957-2	(96906)	SCREW, MACHINE		EA	2	*	*	*			3-6	3	2
4		ļ	<u> </u>	·					L	L	<u></u>	Ll	i			_

D (1)	(2)		DES	SCRIPTION		(4) UNIT	(5) OTY INC	30	(6) DAY	GS	(7) 1-YR ALWPER	(8) DEPOT	(ILLUST	9) Ration
SMR CODE	FEDERAL STOCK NUMBER	REFERENCE NUMBER & MFR CODE	DLC		USABLE On Code	OF MEAS	IN UNIT	(a) 1-20	MAINT AL (Ь) 21-50	(c)	100 EQUIP CNTGCY	ALWPER	(a) FIG	(b)
ļ	 										ļ		NO	NO
Рн	5310-928-2690	MS35338-134	(96906)	.WASHER,LOCK		EĄ	2	*	*	*			3-6	4
PH	6240-991-0091	MS25237-327R15	(96906)	.LAMP, INCANDESCENT		EA	2	*	*	*	j		3-6	6
PH	6610-179-4331	EJL306	(05808)	CONTACT		EA	1	*	*	*	1	[3-6	7
PH	6150-177-6563	EJLA2011	(05808)	BUS BAR		EA	2	*	*	*	ł		3-6	8
PH	5305-054-5636	MS51957-2	(96906)	SCREW, MACHINE		EA	2	*	*	*	}		3-6	9
PH	5310-928-2690	MS35338-134	(96906)	WASHER, LOCK		EA	2	*	*	*	1		3-6	10
PH	5310-938-2013	MS35649-224	(96906)	.NUT, PLAIN, HEXAGON		EA	2	*	*	*	ì		3-6	11
PH	6610-132-1055	MBC316	(05808)	.COLLAR, SHAFT		EA	1	*	*	*	}	, ,	3-6	13
PH	3110-516-5413	MS115-00609-0100	(96906)	BEARING, BALL, ANNULAR		EA	2	*	*	*	1		3-6	15
PH	6610-455-6193	MBB312	(05808)	.END BELL, ELECTRICAL		EA	1	*	*	*	ł		3-6	16
PH	3020-456-1317	MGF317	(05808)	GEAR, SPUR.		EA	1	*	*	*	ļ		3-6	17
PH	3110-516-5413	MS115-00609-0100	(96906)	.BEARING, BALL, ANNULAR		EA	1	*	*	*	1		3-6	18
PH	6610-132-1055	- MBC316	(05808)	.COLLAR, SHAFT		EA	1	*	*	*	ł		3-6	19
PH	6610-133-1280	MBC315	(05808)	.COUNTERWEIGHT		EA	1	*	*	*	ļ		3-6	21
PH	6610-229-6739	MGS316	(05808)	GEAR, ANTIBACKLASH, SPUR		EA	1	*	*	*			3-6	
PH	5305-689-7369	341-122-0042	(77045)	SETSCREW		EA	2	*	*	*			3-6	23
X1		MKE302	(05808)	SPRING, HELICAL, EXTENSION			2	-	[1			3-6	24
X1		MGS316-1	(05808)	GEAR, SPUR		1 1	1	ł	1	l	}		3-6	25
X1		MGS316-2	(05808)	GEAR, SPUR			1	1		İ			3-6	26
X1	1	MGS316-3	(05808)	.HUB, BODY			1			1			3-6	27
PH	5990-125-4100	EA209	(05808)	SYNCHRO, CONTROL		EA	1	*	*	*	1		3-6	28
PH	6105-228-1674	EB212	(05808)	MOTOR-TACHOMETER.		EA	1	*	*	*	l		3-6	29
PH	5305-941-9437	MS35275-215	(96906)	SCREW, MACHINE.		EA	4	*	*	*	[3-6	30
PH	5310-933-8118	MS35338-135	(96906)	WASHER, LOCK		EA	4	*	*	*	{		3-6	31
PH	5340-760-5724	MFS2-2	(05808)	.CLAMP.RIM CLENCHING.		EA	4	*	*	*	i		3-6	32
x1		1671-1	(05808)	GEAR ASSEMBLY, SPEED DECREASER		***	i		1		[3-6	1 32
PH	6610-131-2076	MZP305	(05808)	PLATE, BEARING		EA	ī	*	*	*	1		3-6	33
PH	5305-945-0505	MS35275-212	(96906)	SCREW MACHINE		EA	2	*	*	*			3-6	34
PH	5305-941-9437	MS35275-215	(96906)	SCREW, MACHINE		EA	2	*	*	*	(3-6	35
PH	5310-933-8118	MS35338-135	(96906)	.WASHER,LOCK		EA	4	*	*	*	ł		3-6	36
PH	3110-628-3084	млвво2св	(05808)	.BEARING, BALL		EA	2	*	*	*	1		3-6	37
PH	6610-128-7782	MLP312	(05808)	POST, GEAR PLATE		EA	4	*	*	*			3-6	38
PH	6610-132-1056	MGC314	(05808)	GEARSHAFT, SPUR		EA	1	*	*	*	1		3-6	39
PH	6610-131-2070	MGC315	(05808)	GEARSHAFT, SPUR.		EA	1	*	*	*]		3-6	40
PH	6610-131-2076	MZP305	(05808)	.PLATE, BEARING		EA	1	*	*	*			3-6	41
PH	5305-054-5646	MS51957-12	(96906)	SCREW, MACHINE		EA	4	*	*	*			3-6	42
PH	5310-933-8118	MS35338-135	(96906)	.WASHER,LOCK		EA	4	*	*	*	j		3-6	43
PH	3110-628-3084	МЈВВО2СВ	(05808)	BEARING, BALL		EA	2	*	*	*			3-6	44
PH	6610-128-7731	1682	(05808)	SERVO PLATE ASSEMBLY.		EA	1	*	*	*	1		3-6	44
"		1002	(03000)	SERVO FIRTE ASSEMBLE.		EA	•		•	-			3-6	45
				FRONT END ASSEMBLY										
							,							
Х1	5340-400-2778	1854 MLP313	(05808) (05808)	BEZEL ASSEMBLY		EA	1 4	*	*	*			3-7 3-7	1

CODE STOCK NUMBER REFERENCE NUMBER & MFR CODE STOCK NUMBER & MFR CODE STOCK NUMBER & MFR CODE STOCK	(1) Saar	(2) FEDERAL		DES	SCRIPTION	USABLE	(4) UNIT OF MEAS	(5) OTY INC IN		(6) I-Day Maint Al	GS W	(7) 1-YR ALWPER 100	(8) DEPOT MAINT ALWPER		9) RATION
P-H 5340-132-1424 MC132-1424 MC1301 (05808) STRAP, RETAINING.	CODE		REFERENCE NUMBER & MFR CODE			ON CODE		UNIT				EOUIP	100		(b)
P-H 5305-034-5636 MS51597-2 (96906) P-H 6610-230-1170 RS5233-134 (96906) P-H 6610-230-1170 RS5233-134 (96906) P-H 6610-230-1170 RS5237-27R15 (95808) P-H 6240-991-0091 MS52338-134 (96906) P-H 6301-33-4348 MS51597-2 (96906) P-H 53010-282-2690 MS53338-134 (96906) P-H 5310-282-2690 MS53338-134 (96906) P-H 6610-132-7783 MS5338-134 (96906) P-H 6610-128-7783 MS5338-134 (96906) P-H 6610-128-7746 MS5303 (95808) PS5308	PH								1	i	1			3-7	2
P-R-H- 5310-928-2690 MS55338-134 (96906) MASRER, LOCK PROPERTY PROPER									I		I				3
Part										l .	t	İ			4
1										1	1				5
R		6610-230-1170					KA		*	*	*				6
HH 530-504-5638 MS51957-4 (96906)HH 5310-928-2690 MS53338-134 (96906)H 5310-928-2690 MS53338-134 (96906)H 540-135-6747 EJL305 (05808)H 6610-128-7783 MDD332 (05808)H 6610-128-7783 MCM315 (05808)H 6610-128-7783 MCM315 (05808)H 6610-128-7746 MA303 (05808)H 6610-128-7746 MA303 (05808)H 6610-128-7746 MA303 (05808)H 6610-128-7746 MA303 (05808)H 6695-127-3067 MRE301 (05808)H 6695-127-3067 MRE301 (05808)H 6695-127-3067 MRE301 (05808)H 684-0100 8050-264-9038 8050-264-9038 8050-264-9038 8050-530-6375 8040-145-0019 8040-145-0019 8040-145-0019 9150-263-3490 EC2216 (76381) 8040-145-0019 9150-263-3490		6240-991-0091					PA					1			7
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12-H										*	1	İ		1	10
2-B 6610-128-77783 MDB32									*	*	*				11
P-H 6610-128-7751 MCM315 (05808) .RING,MASK. EA 1 * * * 3-7 KIL 5905-131-6468 ER13 (05808) .REZEL INBASSEMENT. 1 1	PH	6610-128-7783	MDD332		LENS, INDICATOR			1	*	*	*	}			13
P-H 5905-131-6468	2H	6610-128-7751	MCM315	(05808)	.RING,MASK		EA	1	*	*	*	İ		3-7	14
P-H 6610-128-7746 MAR303 (05808) MAR304 (05808) MAR301 (05808) MAR301 (05808) MAR301 MAR301 (05808) MAR301 MAR301					.BEZEL SUBASSEMBLY		1					Į		3-7	
P-H 6610-131-2052 MAG304 (05808)HINDOW, DIAL									1	ł .		j	İ		15
P0 4020-247-1737 PH 4710-684-0100 P0 5350-221-0872 P0 6850-264-9038 PF 8030-530-6375 PF 8030-530-6375 PF 8030-687-3490 P0 9150-263-3490 P0 9150-263-3490 P0 8650-263-3490 P0 86									,	l .	l				16
PO 4020-247-1737 PH 4710-684-0100 PO 5350-221-0872 PO 6850-264-9038 PF 8010-687-3636 PO 8030-530-6375 PF 8040-145-0019 PF 8040-145-0019 PO 8050-263-3490 MAINTENANCE SUPPLIES TWINE, VEGETABLE FIBER-TYPE N, FT V * * * MSUP MIL-T-713,1 LB TUBE TUBE, COPPER-0,125 IN.DiA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP TIDE, COPPER-0,125 IN.DIA, FT V * * * * MSUP TIDE, COPPER-0,125 IN.DIA, TIDE, C										1	l	į			17
TWINE, VEGETABLE FIBER-TYPE N, MIL-T-713,1 LE TUBE TUBE, COPPER-0.125 IN.DIA, P-0-0- 5350-221-0872 COUTH, ARRASIVE-9 IN.W,11 IN.LG, FI V * * * MSUP MSUP MSUP CLEANING SOLVENT-TYPE 1, FED P-0-680,5 GAL DRIM ENAMEL-BLACK, MIL-F-5557,1 QT CAN TAPP, PRESSURS, SENSITIVE ADMESSIVE 1 IN.W, 60 YD LG, MIL-T-4053 ADMESIVE KIT DIBERCATION III SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT TAPP, AND SUPPORT EQUIPMENT	YH	6693-127-3067	MKB301	(05808)	BEZEL, INSTRUMENT MOUNTING		EA	1	*	*	*			3-7	18
MIL-T-713,1 LE TUBE TUBE,COPPER-O.125 IN.DIA,					MAINTENANCE SUPPLIES										
MIL-T-713,1 LB TUBE TUBE, COPPER-0.125 IN.DIA,															
P-H 4710-684-0100 P0 5350-221-0872 P0 6850-264-9038 PF 8010-687-3636 P0 8030-530-6375 PF 8040-145-0019 PF 9150-263-3490 PF 9150-263-3490 TUBE,COPPER-0.125 IN.DIA,	P0	4020-247-1737					FT	v	*	*	*			MSUP	
P0 6850-264-9038 PF 8010-687-3636 P0 8030-530-6375 PF 8040-145-0019 P0 9150-263-3490 FED P-C-458 DRY CLEANING SOLVENT-TYPE 1,	PH	4710-684-0100			TUBE, COPPER-0.125 IN.DIA,		FT	v	*	*	*			MSUP	
PF 8010-687-3636 8030-530-6375 PF 9O 8040-145-0019 9150-263-3490 EC2216 EC2216 FED P-D-680,5 GAL DRUM ENAMEL-BLACK,MIL-E-5557,1 QT CAN TAPE, PRESSURE, SENSITIVE ADHESIVE 1 1N.W,60 YD LG,MIL-T-4053 ADHESIVE KIT LUBRICATING OIL, GENERAL PURPOSE MIL-L-7870,1 QT CAN SECTION III SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT					FED P-C-458						Ì				
PO 8030-530-6375 PF 8040-145-0019					FED P-D-680,5 GAL DRUM					ļ					
PF PO 8040-145-0019 9150-263-3490 EC2216 (76381) 1 IN.W, 60 YD LG, MIL-T-4053 ADHESIVE KIT LUBRICATING OIL, GENERAL PURPOSE MIL-L-7870, 1 QT CAN SECTION III SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT									ł	i	1				
PO 9150-263-3490 LUBRICATING OIL, GENERAL PURPOSE MIL-L-7870,1 QT CAN SECTION III SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT					1 IN.W,60 YD LG,MIL-T-4053					ļ					
SECTION III SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT			EC2216	(76381)	LUBRICATING OIL, GENERAL PURPOSE				1	Į.	1				
SPECIAL TOOLS, TEST, AND SUPPORT EQUIPMENT															
AND SUPPORT EQUIPMENT					1										
PH 6625-590-0168 LT3164 (35351) TESTER, ATTITUDE INDICATOR EA 1 * * * TOOL															
YH 6625-590-0168															
	/H	6625-590-0168	LT3164	(35351)	TESTER, ATTITUDE INDICATOR		EA	1	*	*	*			TOOL	

TM 55-6610-296-40

SECTION IV
FEDERAL STOCK NUMBER AND REFERENCE NUMBER INDEX

STOCK NUMBER NU		2222- 52741		REFERENCE NUMBER INDEX		
NUMBER NU						
NUMBER NU						
3020-456-1317 3-6 17 5340-135-5076 3-2 8 3110-516-5413 3-5 39 5340-262-7120 3-5 30 3110-516-5413 3-6 13 3340-760-7724 3-5 10 3110-516-5413 3-6 13 3340-760-7724 3-6 3-6 31 3110-516-3413 3-6 13 3340-760-7724 3-6 3-6 31 3110-628-3084 3-6 66 3550-221-0872 MSIP 3-7 3-7 3110-628-3084 3-6 67 3550-221-0872 MSIP 7 3110-628-3084 3-6 67 3550-221-0872 MSIP 7 3110-628-3084 3-6 37 3550-221-0872 MSIP MSIP MSIP						ITEM
3110- 516- 5413	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	
3110- 516- 5413						
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	5340-135-3043 B-10	3-1	4	9150-263-3490	MSUP	

B-10

SECTION IV (Cont)

REFERENCE	MFG	EIG.	ITEM	Depropa ion			
NUMBER	CODE	FIG NUMBER	NUMBER	REFERENCE NUMBER	MFG CODE	FIG NUMBER	ITEM NUMBER
				TOTION	CODE	NOMBER	NUMBER
DSA274	05808	1-1		MS16624-4037	96906	3-5	30
EA209	05808	3-5	12	MS25237-327R15	96906	3-6	6
EA209 EB212	05808 05808	3-6	28 7	MS25237-327R15 MS35275-201	96906 96906	3-7 3-2	7 19
EB212	05808	3-5 3-6	29	MS35275-201 MS35275-202	96906	3-2	2
EC2216	76381	MSUP		MS35275-202	96906	3-5	41
EF2123	05808	3-7	6	MS35275-204	96906	3-5	23
EJLA2011 EJL305	05808 05808	3-6 3-7	8 11	MS35275-206 MS35275-212	96906 96906	3-5 3-5	26 64
EJL305	05808	3~6	7	MS35275-212 MS35275-212	96906	3-5	34
EJT344	05808	3-2	7	MS35275-213	96906	3-5	34
EJT345	05808	3-5	19	MS35275-213	96906	3-5	46
ERT13 ETP3132	05808 05808	3-7	15	MS35275-214 MS35275-214	96906 96906	3-5	36
E1F3132 EVF301	05808	3-5 3-4	4 6	MS35275-214 MS35275-215	96906	3-5 3-5	52 8
LT3164	35351	TOOL		MS35275-215	96906	3-5	13
MAG304	05808	3-7	17	MS35275-215	96906	3-5	63
MAR303	05808	3-7	16	MS35275-215	96906	3-6	30
MAT305 MBB312	05808 05808	3-1 3-6	2 16	MS35275-215 MS35275-219	96906 96906	3-6 3-2	35 15
MBC315	05808	3-6	21	MS35275-241	96906	3-2	5
MBC316	05808	3-6	13	MS35338- 134	96906	3-2	13
MBC316	05808	3-6	19	MS35338-134	96906	3~5	3
мвн314 мвw313	05808 05808	3-5	33 53	MS35338- 134 MS35338-134	96906 96906	3-5 3-5	24
MCB322	05808	3-5 3-5	22	MS35338-134	96906	3-5	27 42
MCM315	05808	3-7	14	MS35338-134	96906	3-6	4
MCS328	05808	3-2	18	MS35338-134	96906	3-6	10
MCY317	05808	3-5	54	MS35338- 134	96906	3-7	5
MDD332 MDD333	05808 05808	3-7 3-6	13 1	MS35338-134 MS35338-135	96906 96906	3-7 3-2	10 4
MDP336	05808	3-0	5	MS35338- 135	96906	3-2	16
MDS335	05808	3-1	9	MS35338-135	96906	3-5	9
MEC317	05808	3-1	1	MS35338-135	96906	3-5	14
MFB302 MFB303	05808 05808	3-2 3-5	17 45	MS35338- 135 MS35338-135	96906 96906	3-5 3-5	21 37
MFC301	05808	3-7	3	MS35338-135	96906	3-5	47
MFS2-2	05808	3-5	10	MS35338-135	96906	3-5	57
MFS2-2	05808	3-5	15	MS35338- 135	96906	3-5	65
MFS2-2 MGC314	05808 05808	3-6 3-5	32 60	MS35338- 135 MS35338-135	96906 96906	3-6 3-6	31 36
MGC314 MGC314	05808	3-5	39	MS35338- 135	96906	3-6	43
MGC315	05808	3-5	61	MS35338-137	96906	3-5	6
MGC315	05808	3-6	40	MS35649-224	96906	3-6	11
MGF317 MGR318	05808 05808	3-6 3-5	17	MS51957-12	96906 96906	3~5 3~6	56
MGR318 MGS316	05808	3-5	50	MS51957-12 MS51957-14	96906	3-5	42 35
MGS316-1	05808	3-5	39	MS51957-2	96906	3-6	3
MGS316- 1	05808	3-6	25	MS51957~2	96906	3-6	9
MGS316-2 MGS316-3	05808 05808	3-6 3-6	26 27	MS51957-2 MS51957-4	96906 96906	3-7 3-7	4
MHPS8N5	05808	3-5	51	MV1307	05808	3-7	9
MHSMLA4C24S	05808	3-2	3	MV204-4	05808	3-1	3
мјвв02св	05808	3-5	58	MWT304	05808	3-5	31
MJBB02CB	05808	3-5	66	MYB318 MYB319	05808	3-5	44
MJBB02CB MJBB02CB	05808 05808	3-6 3-6	37 44	MYB319 MYB320	05808 05808	3-4 3-3	24 14
MKE302	05808	3-6	24	MYL312-1	05808	3-7	8
MLP312	05808	3-5	59	MYT321	05808	3-3	
MLP312	05808	5-6	38	MZP305	05808	3-5	55
MLP313 MNC301	05808 05808	3-7 3-1	1 7	MZP305 MZP305	05808 05808	3-5 3-6	62 33
MPP306	05808	3-1	20	MZP305	05808	3-6	33 41
MRB301	05808	3-7	18	M2HNS23	05808	3-5	48
MSG304-2	05808	3-1	10	м3v03в039	05808	3-2	6
MSL314	05808	3-2	11	M3V03B040	05808	3-2	8
MS115-00609-0100 MS115-00609-0100	96906 96906	3-5 3-5	29 38	M3V03C002 NAS1635-00-2	05808 80205	3-1 3-6	6 2
MS115-00609-0100	96906	3-6	15	NAS620C10L	80205	3-7	2
MS115-00609-0100	96906	3-6	18	RW69V101	81349	3-5	18
MS15795-303	96906	3-2	5	1670	05808	3-2	9

SECTION IV (Cont)

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REFERENCE NUMBER	MFG CODE	FIG NUMBER	ITEM NUMBER	REFERENCE NUMBER	MFG CODE	FIG NUMBER	ITEM NUMBER

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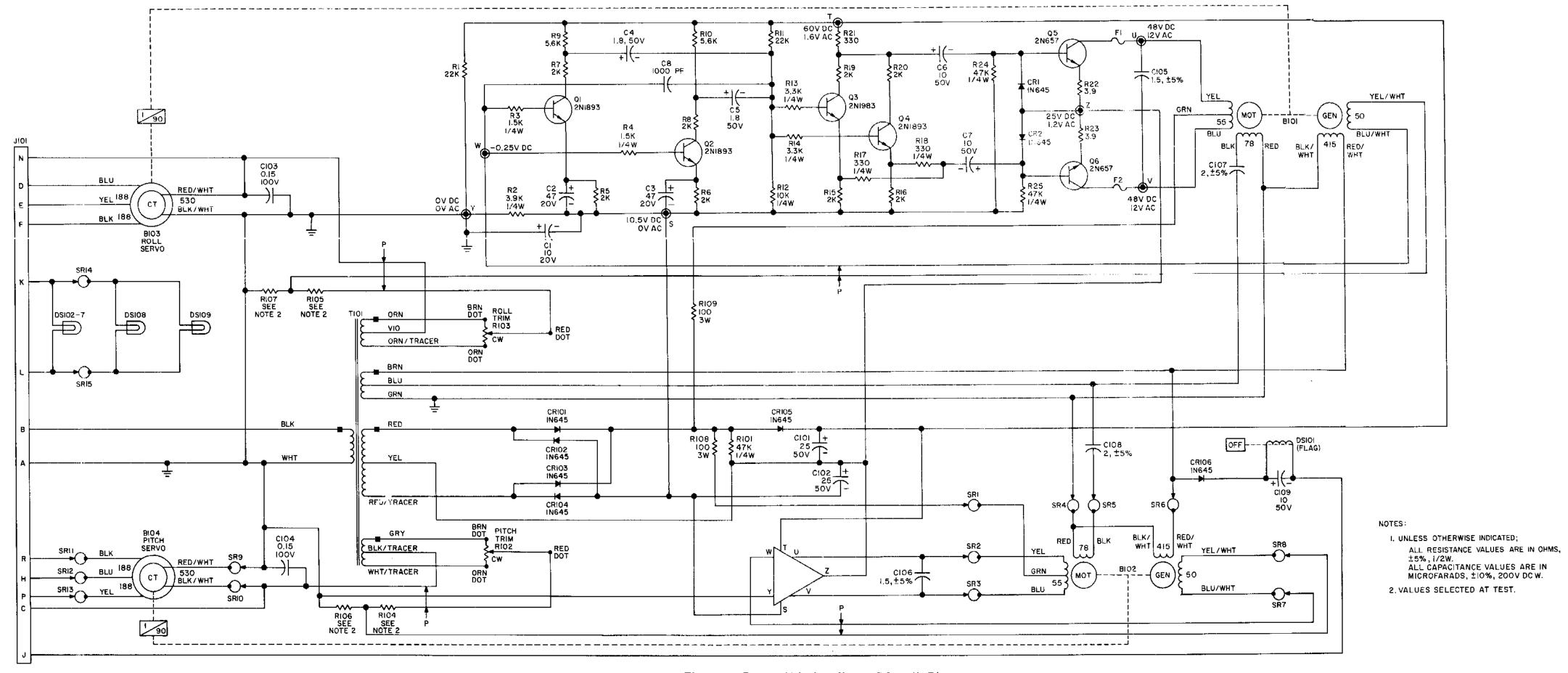


Figure 3-1. Remote Attitude Indicator, Schematic Diagram.

TM 55-6610-296-40

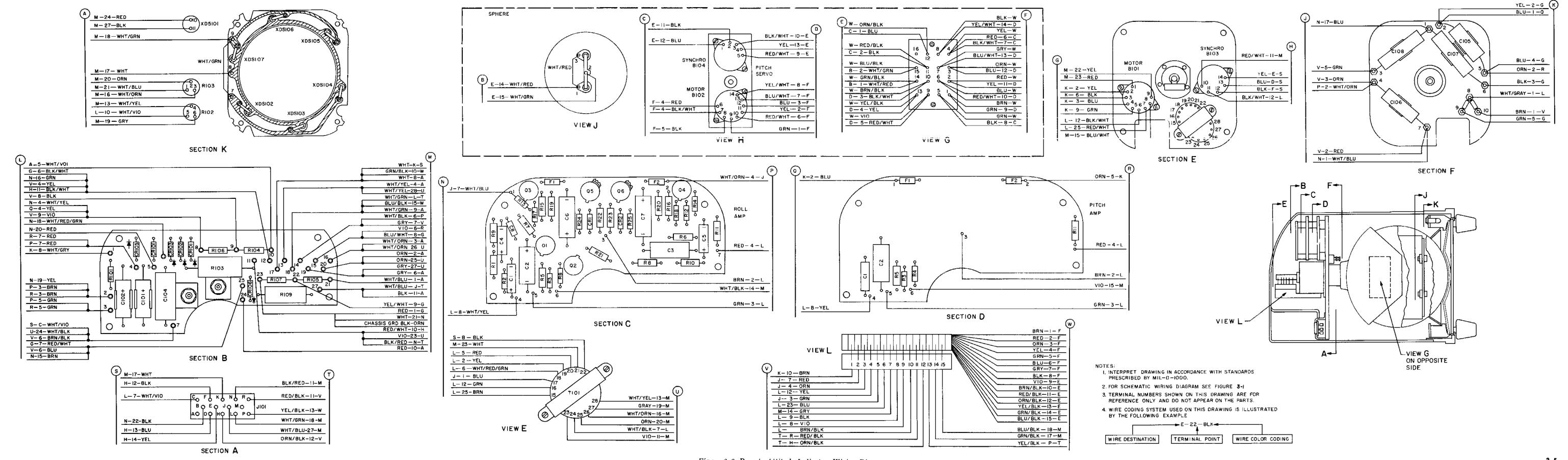


Figure 3-2. Remote Attitude Indicator, Wiring Diagram.