Walt Disney World

HAUNTED MANSION RIDE

INTERIM

MAINTENANCE MANUAL

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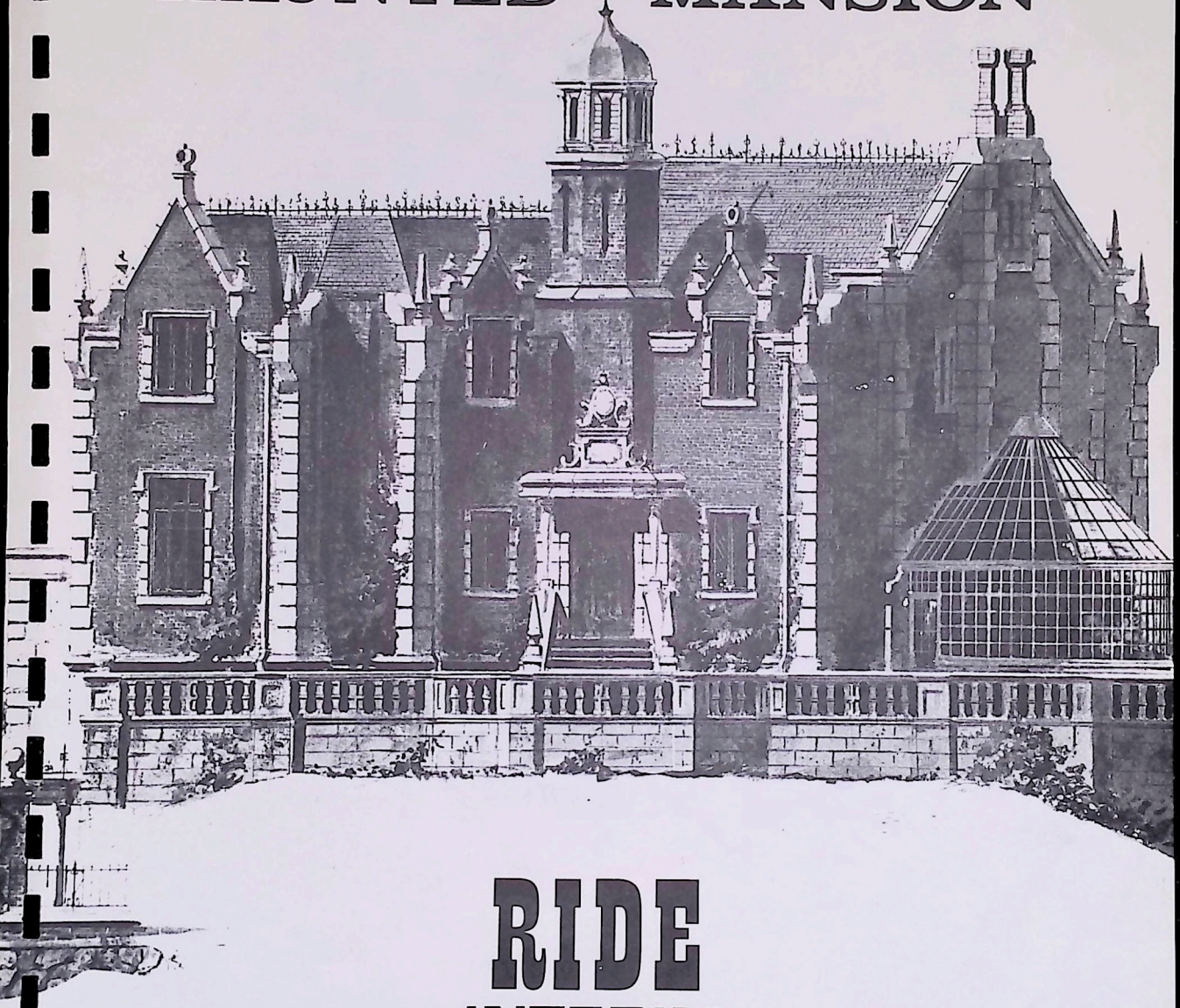
Walt Disney World

HAUNTED MANSION



RIDE
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PREFACE

HAUNTED MANSION RIDE

INTERIM MAINTENANCE MANUAL

WALT DISNEY WORLD

THIS DOCUMENT IS PREPARED AS A READY REFERENCE/MAINTENANCE MANUAL FOR USE IN THE REPAIR AND MAINTENANCE OF THE MECHANICAL ASSEMBLY OF HAUNTED MANSION RIDE.

INFORMATION, ILLUSTRATIONS, AND SPECIFICATIONS CONTAINED IN THIS DOCUMENT ARE BASED ON THE LATEST PRODUCT INFORMATION AVAILABLE AT THE TIME OF PUBLICATION APPROVAL.

MONTE HOULT

TECHNICAL PUBLICATIONS

DISTRIBUTION: NOVEMBER 17, 1975

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INTER-OFFICE mapo INC. COMMUNICATION

TO DISTRIBUTION

DATE December 18, 1970

FROM TECHNICAL ILLUSTRATION

SUBJECT REFERENCE MANUAL

MAPO ENGINEERING / DRAFTING

HAUNTED MANSION
WALT DISNEY WORLD

ENCLOSURE (1):

REFERENCE MANUAL
HAUNTED MANSION
WALT DISNEY WORLD

1. ENCLOSURE (1) IS DESIGNED TO SERVE AS AN AID/TOOL IN THE MAINTENANCE AND REPAIR OF THE VARIOUS FIGURES, FEATURES, AND DISPLAYS REPRESENTED IN THE HAUNTED MANSION - WALT DISNEY WORLD.

2. YOUR EVALUATION AND CONSIDERATION OF THE CONTENTS OF THIS MANUAL, AS WELL AS SUGGESTIONS AND "CONSTRUCTIVE" CRITICISM, IS REQUESTED.

R. K. Gallaway

MAPO TECHNICAL ILLUSTRATION

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	Dick Van Every	1	WDP-	Don Iwerks	3

P-1061-R2

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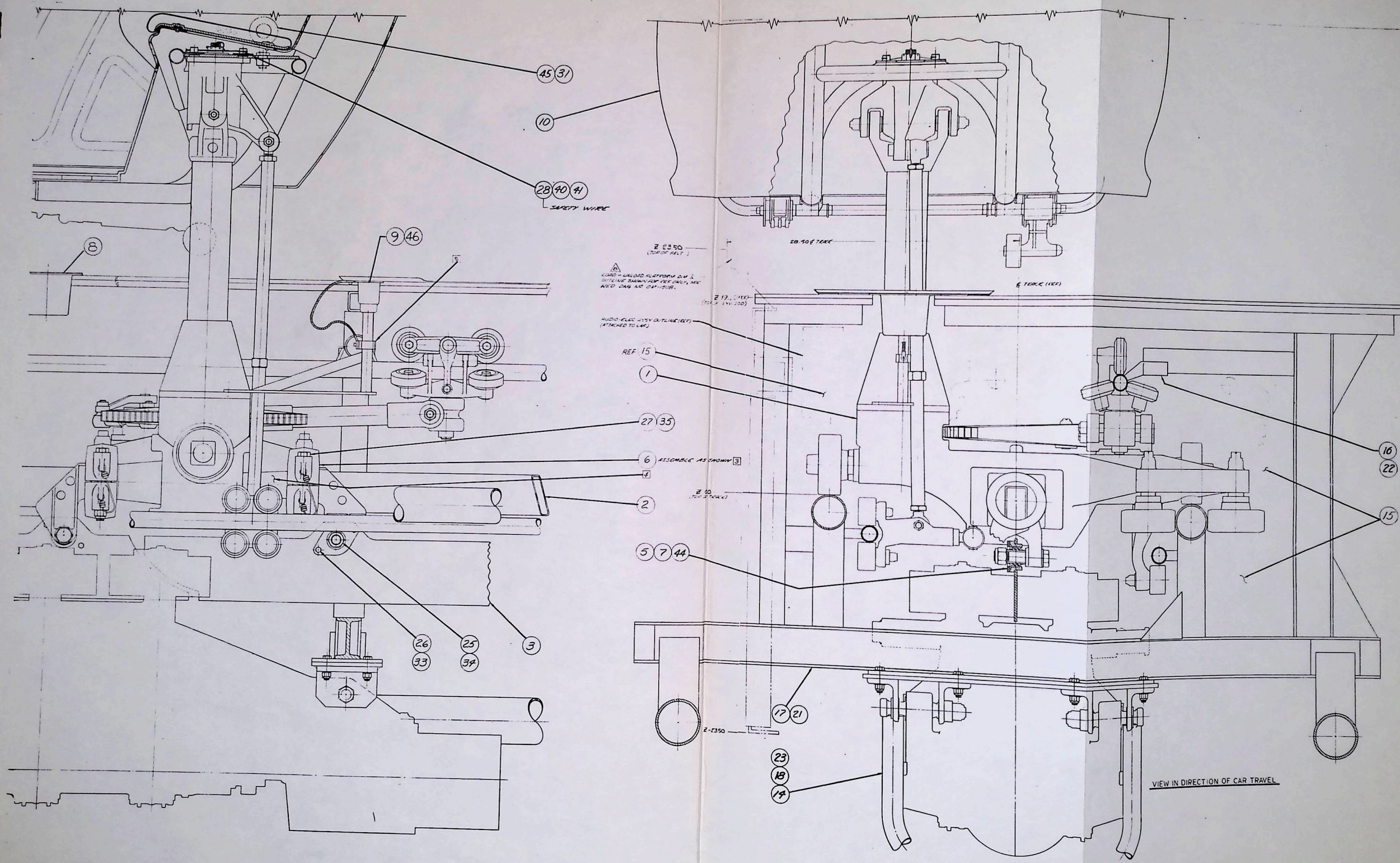
SECTION 1

BODY & CHASSIS ASSEMBLIES

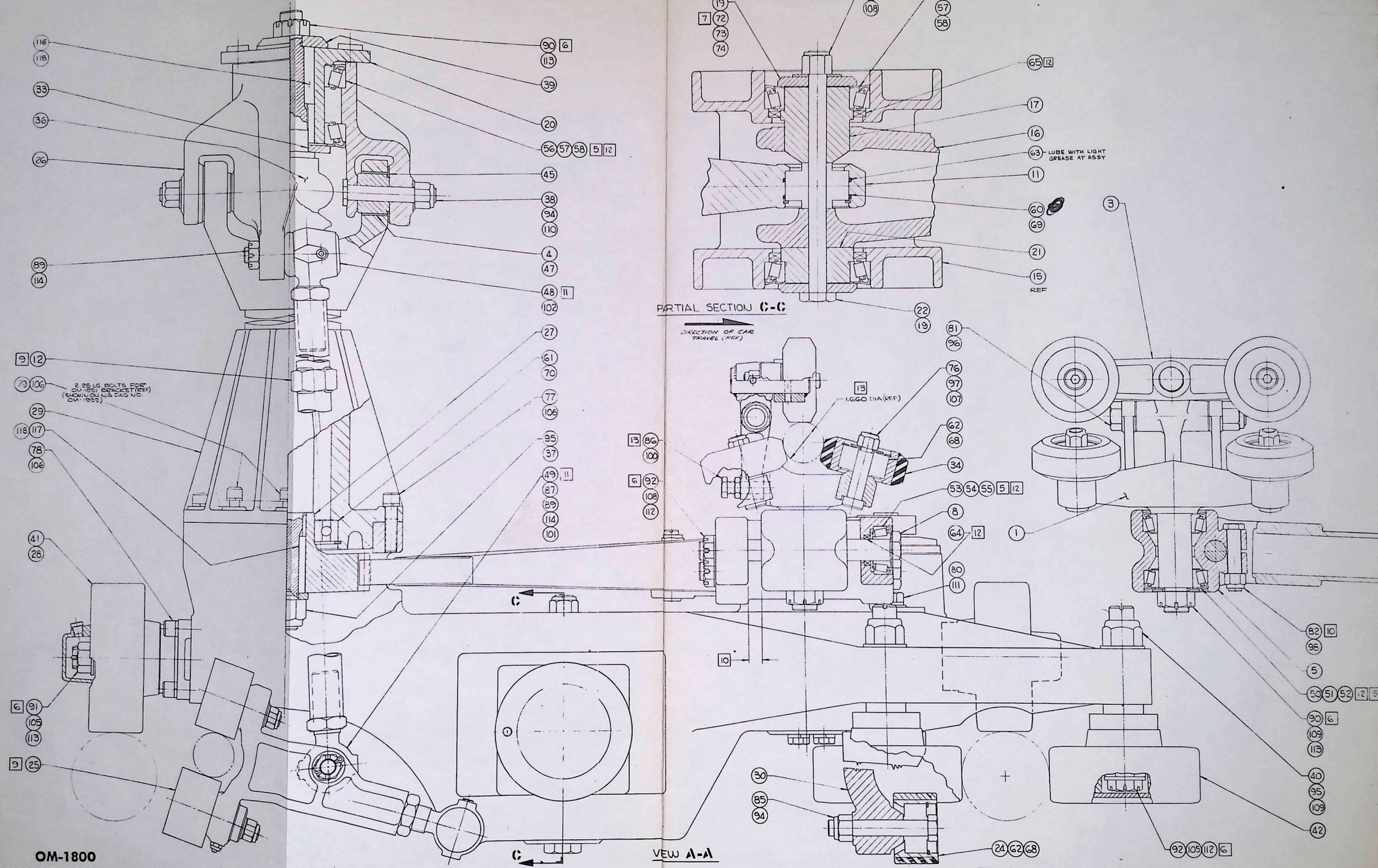
FOR ADDITIONAL DETAILED ENGINEERING INFORMATION ON ASSEMBLIES/ SUB-ASSEMBLIES APPEARING IN THE BODY AND CHASSIS SECTION OF THIS MANUAL, CONTACT: DEPARTMENT HEAD - MECHANICAL ENGINEERING - MAPO.



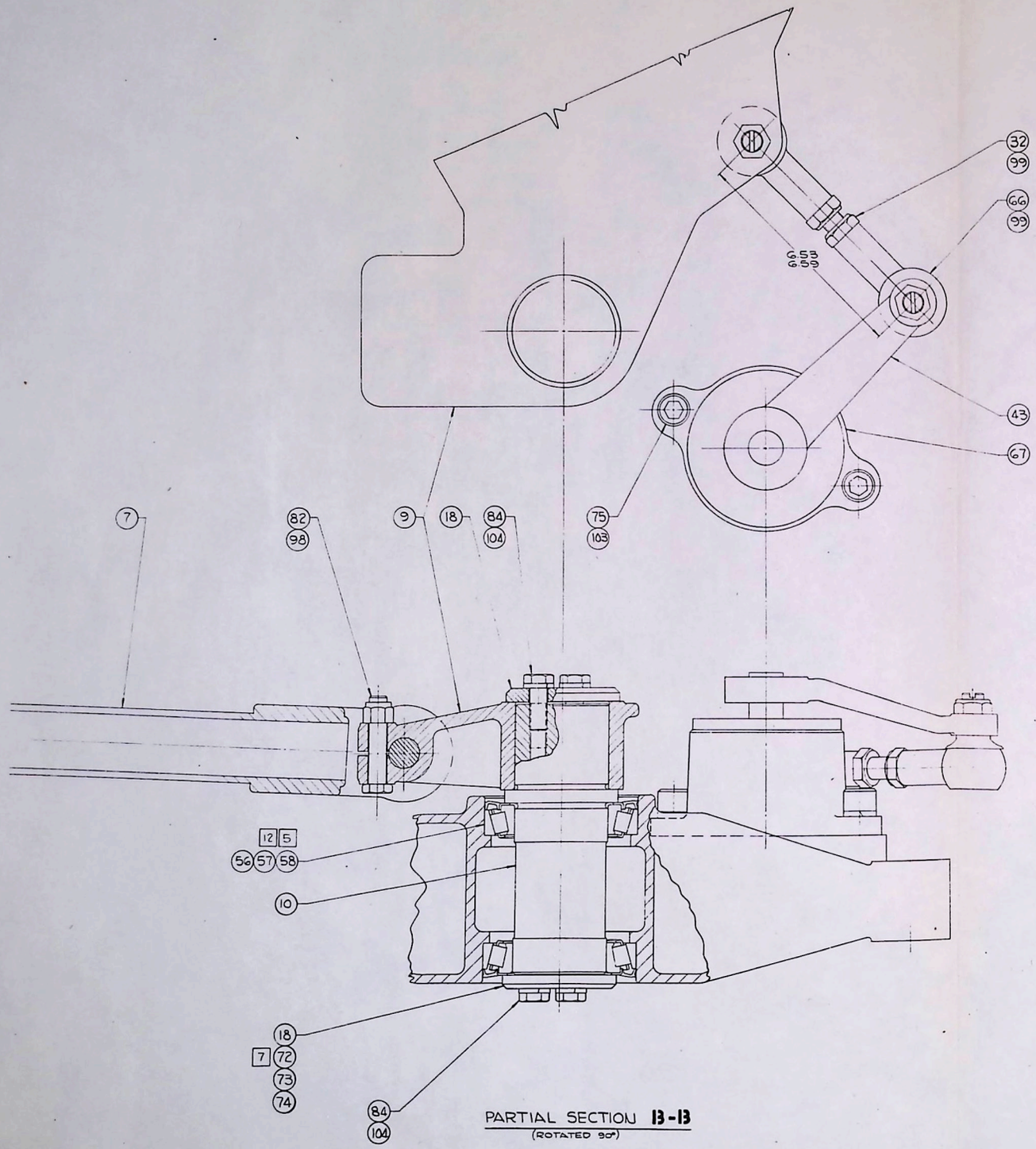
OM-1999
CAR TRAIN ASSEMBLY

DWG. CAR-TRAIN ASSY. MARK III

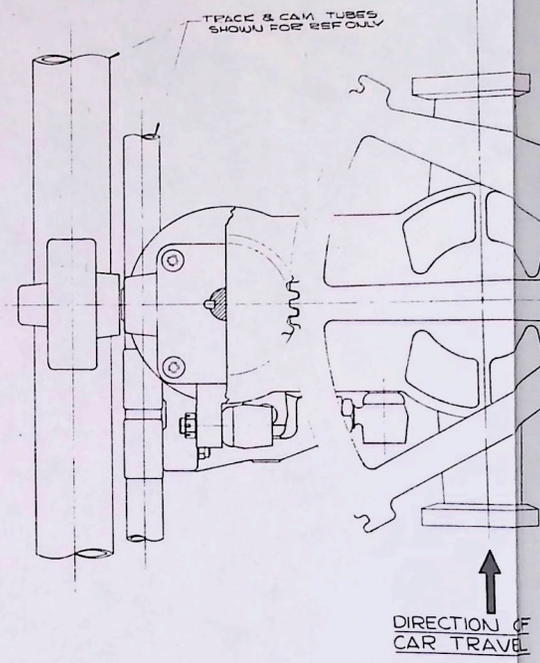
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		OM-1800	CHASSIS ASSY	160
2.		OM-1823	DRIVE TUBE ASSY.	160
3.		OM-1824	DRIVE FIN	160
4.				
5.		OM-1831	HOUSING, FIN MOUNT	320
6.		OM-1833	CLAMP, COUPLING ASSY	320
7.		OM-1837	PLATE, FIN MOUNT	320
8.		OM-1847	SLOT COVER ASSY.	160
9.		OM-1851	BRACKET, TOWING	160
10.		OM-1900	CAR BODY ASSY, LEFT ENTRY	160
11.				
12.				
13.		OM-1400	DRIVE UNIT ASSY.	12
14.		OM-1600	AUDIO ELECTRICAL ASSY.	
15.		OM-1600-1	AUDIO ELECTRICAL ASSY.	1
16.		OM-1501	CAM SUPPORT & TIMING	
17.		OM-1502	TRACK STRUCTURE	
18.		OM-1503	DRIVE UNIT LOCATION	
19.		OM-1506	TRANSFER CARRIAGE	1
20.		OM-1507	SERVICE TRACK DETAILS	
21.		OM-1508	TRACK STRUCTURE	1
22.		OM-1509	CAM SUPPORT & TIMING	1
23.		OM-1510	DRIVE UNIT LOCATION	1
24.				
25.		AN16-42A	BOLT, HEX HD., 1-14 x 3 1/8 GRIP	320
26.		AN6-13A	BOLT, HEX HD., 3/8-24 x 13/16 GRIP	640
27.		AN12-65A	BOLT, HEX HD., 3/4-16 x 5 11/16	
			GRIP	640
28.		MS24678-57	BOLT, SOC. HD., 1/2-20 DRILLED	640
29.				
30.				
31.			NUT, JAM, 3/4-10 N.C.	A/R
32.				
33.		AN365-62A	NUT, HEX, S.L., 3/8-24 (ESNA 52NE-	
			069)	640
34.		AN365-1614	NUT, HEX, S.L., 1-14 (ESNA 52NE-	
			164)	320
35.		AN365-1216	NUT, HEX, S.L. 3/4-16 (ESNA 52NE-	



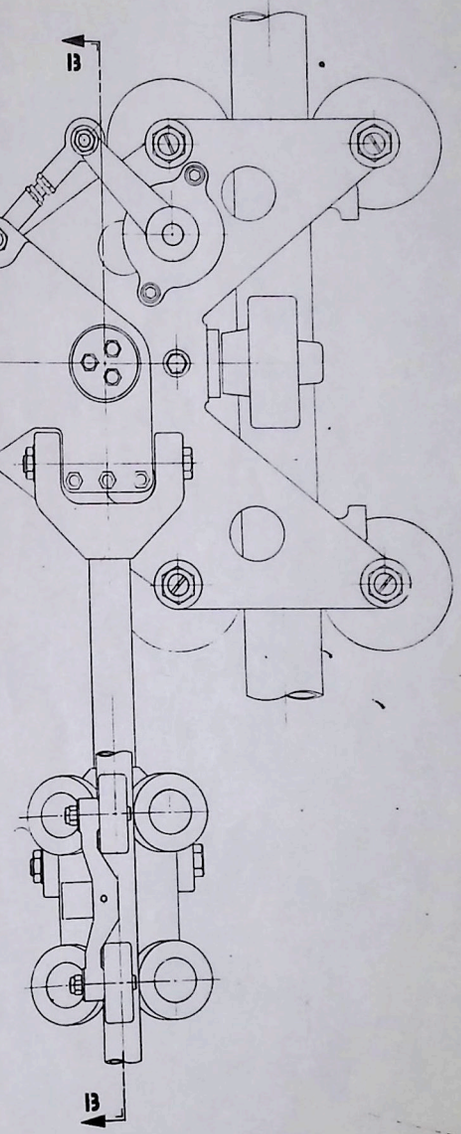
OM-1800
CHASSIS ASSEMBLY
SHEET 1 OF 3



PARTIAL SECTION **13-13**
(ROTATED 90°)



ASSEMBLY-PLAN VIEW
SCALE : 1/2



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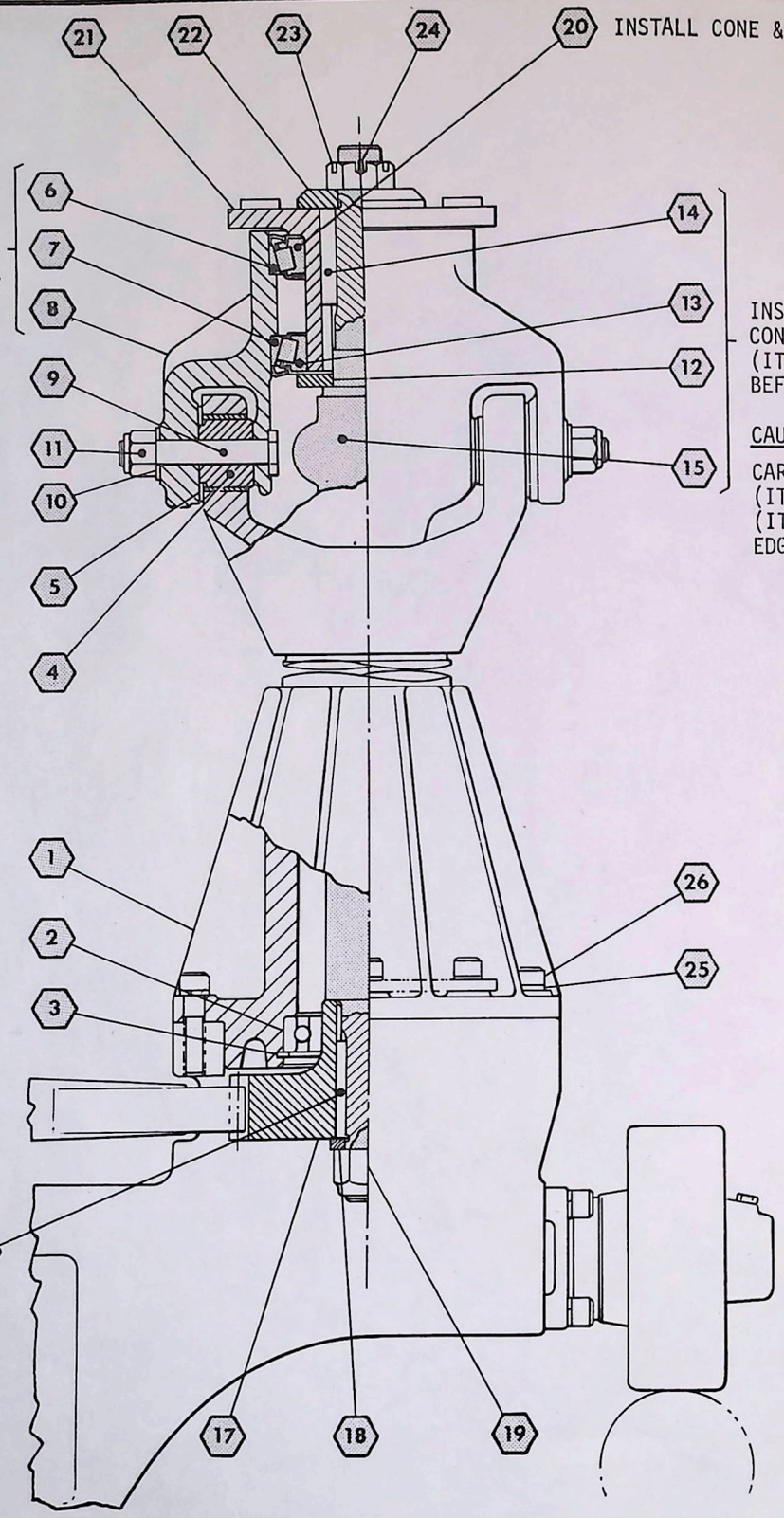


PRESS CUPS (ITEM 6 & 7) INTO PITCH HEAD (ITEM 8) BEFORE INSTALLING ITEM 8.

INSTALL SAFETY WASHER (ITEM 12), CONE & SEAL (ITEM 13) & KEY (ITEM 14) ONTO SHAFT (ITEM 15) BEFORE INSTALLING ITEM 15.

CAUTION:

CAREFULLY TILT CONE & SEAL (ITEM 13) PAST BOLT HEADS (ITEM 9) AS NOT TO DAMAGE EDGE OF SEAL.

INSTALL KEY (ITEM 16) ONTO SHAFT (ITEM 15) BEFORE INSTALLING ITEM 17.

NOTE:
NUMBERS SHOWN INDICATE OPERATIONAL STEPS FOR ASSEMBLY BUILDUP. FOR DISASSEMBLY, REVERSE PROCEDURE.

ASSEMBLY PROCEDURE

NOTES:

1. ALL HARDWARE TO BE STAINLESS STEEL OR CAD. PLATE (& BAKE) STEEL AS PURCHASED.
2. ALTERNATE BEARING CHOICE: MRC. BRG. CO. NO. 211SZZ.
3. PARTS NOTED ARE SUPPLIED WITH TIE ROD END, ITEMS 48 & 49.
4. PART NOTED SUPPLIED WITH CONNECTING LINK END ITEM 66.
5. ASSEMBLE BEARINGS WITH SEALS IN POSITION SHOWN & LIGHT LUBE. REMOVE EXCESS GREASE.
6. ADJUST NUTS, ITEMS 90, 91 & 92 TO ACHIEVE LIGHT PRELOAD ON BEARINGS. INSTALL COTTER PIN.
7. ADJUST QUANTITY OF SHIMS, ITEMS 72, 73 & 74 WHERE INDICATED TO ACHIEVE LIGHT PRELOAD ON BEARINGS.
8. ORIENT SECTOR ITEM 9 TO PINION & COLLAR ITEMS 27/20, ASS'Y AS SHOWN.
9. WITH PITCH ARM IN NOMINAL POSITION, (PITCH CAM TUBE AT Ƶ-2.94, SEE DWG. NO. OM-1513) ADJUST PITCH PUSHROD, ITEM 12, SO THAT FRONT OF CAR MTG. COLLAR (ITEM 20) IS 1°-2° UP FROM LEVEL.
10. ADJUST FINAL (WITH BODY, OM-1900, ON) CAR STRAIGHT AHEAD POSITION BY LOOSENING BOLTS, ITEM 82, CLAMPING HOUSING, ITEM 5, TO BOLT, ITEM 8. ADJUST POSITION & REFIT BOLTS.
11. LUBE TIE ROD ENDS, ITEMS 48 & 49, FIT PLUG, ITEM 87 REMOVE EXCESS GREASE FROM IMMEDIATE AREA.
12. LIGHT LUBE SEALS PRIOR TO ASSY.
13. ADJUST BOLT, ITEM 86, AGAINST FOLLOWER, ITEM 1, TO ACHIEVE 1.660 DIA (LIGHT PRELOAD) DIM. INDICATED.
14. HARD CHROME PLATED BALL PER QQ-C-320, CLASS 2. HEIM UNIVERSAL CORP., FAIRFIELD, CONN.
15. HYDRAULICS DIV., HOUDAILLE IND., BUFFALO, N.Y.

DWG. CHASSIS ASSY, MARK III

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		OM-1802	FOLLOWER, ROTATION	1
2.				
3.		OM-1840	FOLLOWER-PIVOT ARM ASSY.	1
4.		OM-1805	JOURNAL, PITCH HEAD	2
5.		OM-1806	HOUSING, DBL. BEARING	1
6.				
7.		OM-1808	FOLLOWER ARM	1
8.		OM-1809	BOLT, SPECIAL FOLLOWER	2
9.		OM-1810	ROTATION SECTOR	1
10.		OM-1811	SHAFT, PIVOT	1
11.		OM-1812	TONGUE, PIVOT	1
12.		OM-1813	PUSHROD, PITCH	1
13.				
14.				
15.		OM-1816	BOGIE, CHASSIS	1
16.		OM-1817	PIVOT, BOGIE	1
17.		OM-1818	COLLAR, PIVOT	1
18.		OM-1819	PLATE, BRG RETAINING	2
19.		OM-1819-1	PLATE, BRG RETAINING	2
20.		OM-1820	COLLAR, BODY MOUNTING	1
21.		OM-1821	COLLAR, BRG. RETAINING	1
22.		OM-1822	BOLT, SPECIAL,PIVOT	1
23.				
24.		OM-1834	WHEEL, CAM FOLLOWER	1
25.		OM-1826	PITCH ARM ASSY.	1
26.		OM-1827	PITCH HEAD	1
27.		OM-1828	PINION GEAR	1
28.		OM-1829	SPINDLE, WHEEL (LOAD)	2
29.		OM-1832	PEDESTAL ASSY.	1
30.		OM-1844	UP-STOP, BOGIE	1
31.				
32.		OM-1846	LINK, SHOCK ADJUST	1
33.		OM-822	WASHER, SAFETY	1
34.		OM-842-2	WHEEL, CAM FOLLOWER	6
35.				
36.		OM-855-1	SHAFT, UNIVERSAL	1
37.		OM-874	WASHER, SPECIAL	1
38.		OM-878	BOLT, MODIFIED	2

DWG.

CHASSIS ASSY, MARK III

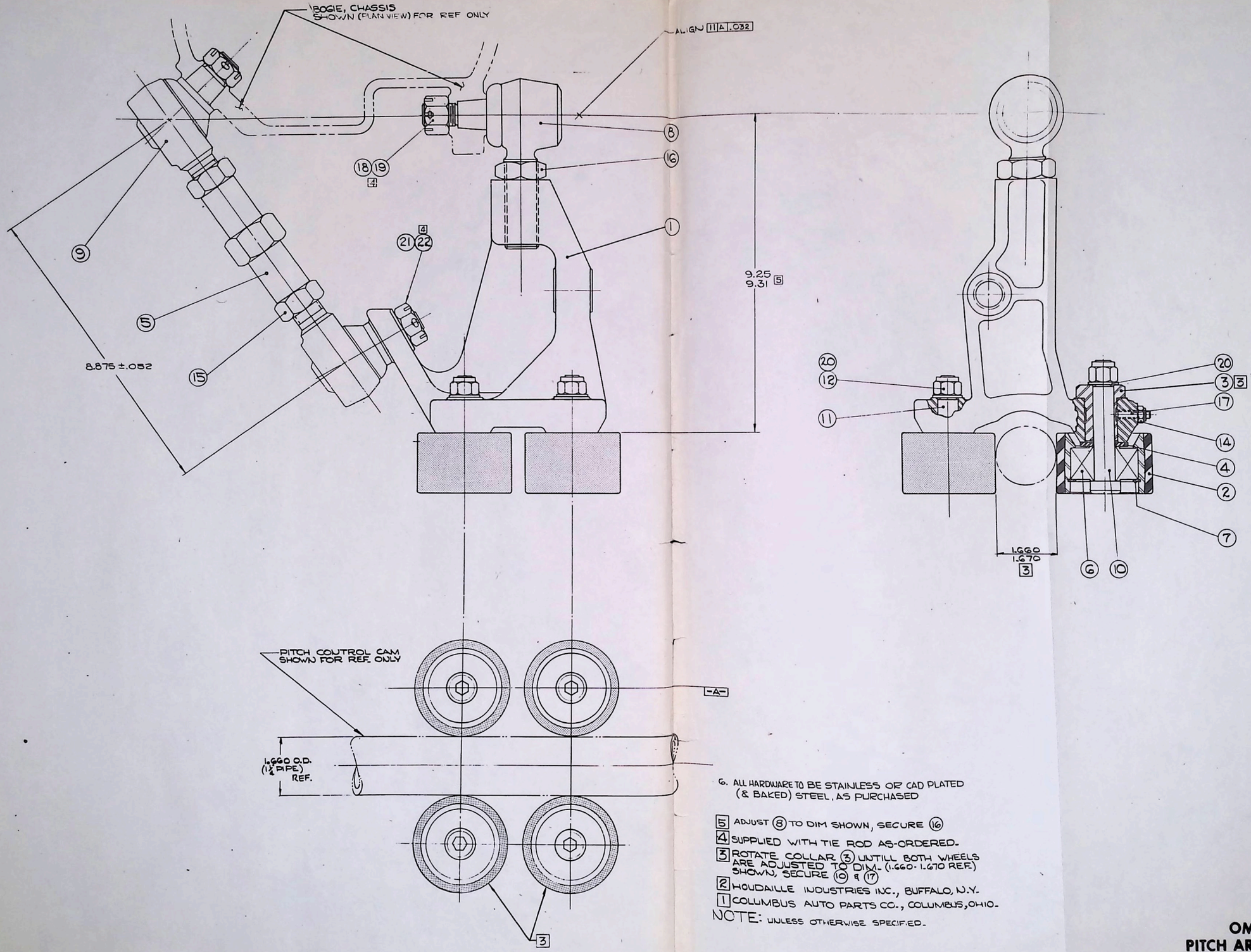
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
39.		OM-882	WASHER, MTG COLLAR	1
40.		WW-809	SPINDLE, WHEEL MTG.	4
41.		80400	WHEEL, (LOAD)	2
42.		80399	WHEEL, (GUIDE) (AEROL)	4
43.		F-725-6 TYPE 2	LEVER, 1 IN. OFFSET (HOUDAILLE)	1
44.				
45.		DU-20	WASHER, THRUST	2
46.				
47.		26 DU 16	BUSHING (GARLOCK-RIADELLA)	2
48.		S-17786 L.H.	TIE ROD END (COLUMBIA AUTO PARTS)	1
49.		S-17786 R.H.	TIE ROD END (COLUMBIA AUTO PARTS)	1
50.		LM48510	BEARING, CUP (TIMKEN)	2
51.		LM48548L	BEARING,CONE (TIMKEN)	2
52.		LM48500L	BEARING, SEAL (TIMKEN)	2
53.		M12610	BEARING, CUP (TIMKEN)	4
54.		M12649L	BEARING, CONE (TIMKEN)	4
55.		M12600L	BEARING, SEAL (TIMKEN)	4
56.		394A	BEARING, CUP (TIMKEN)	6
57.		399AL	BEARING, CONE (TIMKEN)	6
58.		395LL	BEARING, SEAL (TIMKEN)	6
59.				
60.		A12H	BEARING, SPHER (SHAFER)	1
61.		211NPP	BEARING (FAFNIR) [2]	1
62.		DPP10	BEARING (FAFNIR)	7
63.		2-231C557-7	"O" RING (PARKER)	2
64.		340483	SEAL, TYPE 4L (NATIONAL)	4
65.		45013	SEAL, TYPE 4L (NATIONAL)	2
66.		705165 O&S TYPE 1	LINK, CONNECTING (HOUDAILLE)	2
67.		MODEL "H" 1 TO 1 RATIO	SHOCK ABSORBER (HOUDAILLE)	1
68.		N5000-193H	RING, RETAINING (TRUARC)	7
69.		N5000-262H	RING, RETAINING (TRUARC)	1
70.		N5000-393H	RING, RETAINING (TRUARC)	1
71.				
72.		T50605	SHIM, BRG, .005 THK. (TIMKEN)	6
73.		T50606	SHIM, BRG, .007 THK. (TIMKEN)	6
74.		T50607	SHIM, BRG, .020 THK. (TIMKEN)	2
75.			BOLT, SOC HD, 5/8-11 x 1 ¼ LG	2

DWG. CHASSIS ASSY, MARK III

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
76.			BOLT, SOC HD, SHLDR, 5/8 DIA X 2"	
			LG.	6
77.			BOLT, SOC HD, 7/16-14 x 2" LG.	8
78.			BOLT, SOC HD 7/16-14 x 1 ¼ LG	8
79.			BOLT, SOC HD 7/16-14 X 2 ¼" LG.	2
80.			BOLT, HEX HD, 5/8-11 X 4 ½ LG	
			(3 3/4 GRIP)	1
81.		AN12-47A	BOLT, HEX HD, 3/4-16 X 4.06 GRIP	1
82.		AN8-23A	BOLT, HEX HD, ½-20 X 1 3/4 GRIP	5
83.				
84.		AN12-36A	BOLT, HEX HD, ½-20 x 9/16 GRIP	6
85.		AN10-36A	BOLT, HEX HD, 5/8-18 X 2 15/16 GRIP	1
86.			BOLT, ½-20 X 2 ½ LG. FULL THD.	1
87.			PLUG, 1/8 NPT, HEX SOC.	4
88.				
89.			NUT, HEX, SLOT, 5/8-18 X ½ HIGH [3]	
90.		N9	NUT, HEX, SLOT, 1"-14 (DORMAN)	2
91.		N34	NUT, HEX, CASTEL 3/4-16 (DORMAN)	2
92.		N34 (1 ¼ HEX x 3/8		
		HIGH)	NUT, HEX, SLOT 3/4-16 (DORMAN)	6
93.				
94.		AN-365-108	NUT, HEX, S.L., 5/8-18 (ESNA NO.	
			52NE108)	3
95.		AN365-164	NUT, HEX, S.L., 1"-14 (ESNA NO.	
			52NE164)	5
96.		AN365-126	NUT, HEX, S.L., 3/4-16 (ESNA NO.	
			52NE126)	2
97.		AN365-813	NUT, HEX, S.L., 1/2-13 (ESNA NO.)	
			52NE083)	6
98.		AN365-820	NUT, HEX, S.L., 1/2-20 (ESNA NO.)	
			52NE080)	5
99.		AN364-108	NUT, HEX, S.L., 5/8-18 (ESNA NO.)	
			52NTE108) [4]	2
100.			NUT, JAM, 1/2-20	1
101.			NUT, JAM, 1-16 UN-2A R.H.	1
102.			NUT, JAM, 1-16 UN-2A L.H.	1
103.			WASHER, HI COLLAR, 5/8"	2
104.			WASHER, SPLIT LOCK 1/2"	6

DWG. CHASSIS ASSY, MARK III

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
105.		CZAZ-1195-A	WASHER, SPECIAL (FORD)	6
106.			WASHER, LOCK, HI COLLAR 7/16"	18
107.		AN960C816	WASHER, FLAT, 1/2" x .06 THK.	6
108.		AN960C1216	WASHER, FLAT, 3/4"	3
109.		AN960C1616	WASHER, FLAT, 1"	5
110.		AN960C1016	WASHER, FLAT, 5/8"	2
111.		AN935-1016	WASHER, SPLIT LOCK, 5/8"	1
112.		AN380-3-7	COTTER PIN	6
113.		AN380-4-6	COTTER PIN	3
114.			COTTER PIN, 1/8 DIA. X 1 1/4 LG. [3]	
115.				
116.			KEY, RECT., 1/4 X 3/8 X 2 1/4 LG.	2
117.			KEY, SQUARE, 1/4 X 1/4 X 2 1/4 LG.	2
118.			KEY FIT (LOCTITE)	A/R
119.			BEARING MOUNT (LOCTITE)	A/R
120.			LOCQUIC PRIMER (LOCTITE)	A/R



6. ALL HARDWARE TO BE STAINLESS OR CAD PLATED (& BAKED) STEEL, AS PURCHASED

5 ADJUST (8) TO DIM SHOWN, SECURE (16)

4 SUPPLIED WITH TIE ROD AS-ORDERED.

3 ROTATE COLLAR (3) UNTILL BOTH WHEELS ARE ADJUSTED TO DIM. (1.660-1.670 REF.) SHOWN, SECURE (10) & (17)

2 HOUDAILLE INDUSTRIES INC., BUFFALO, N.Y.

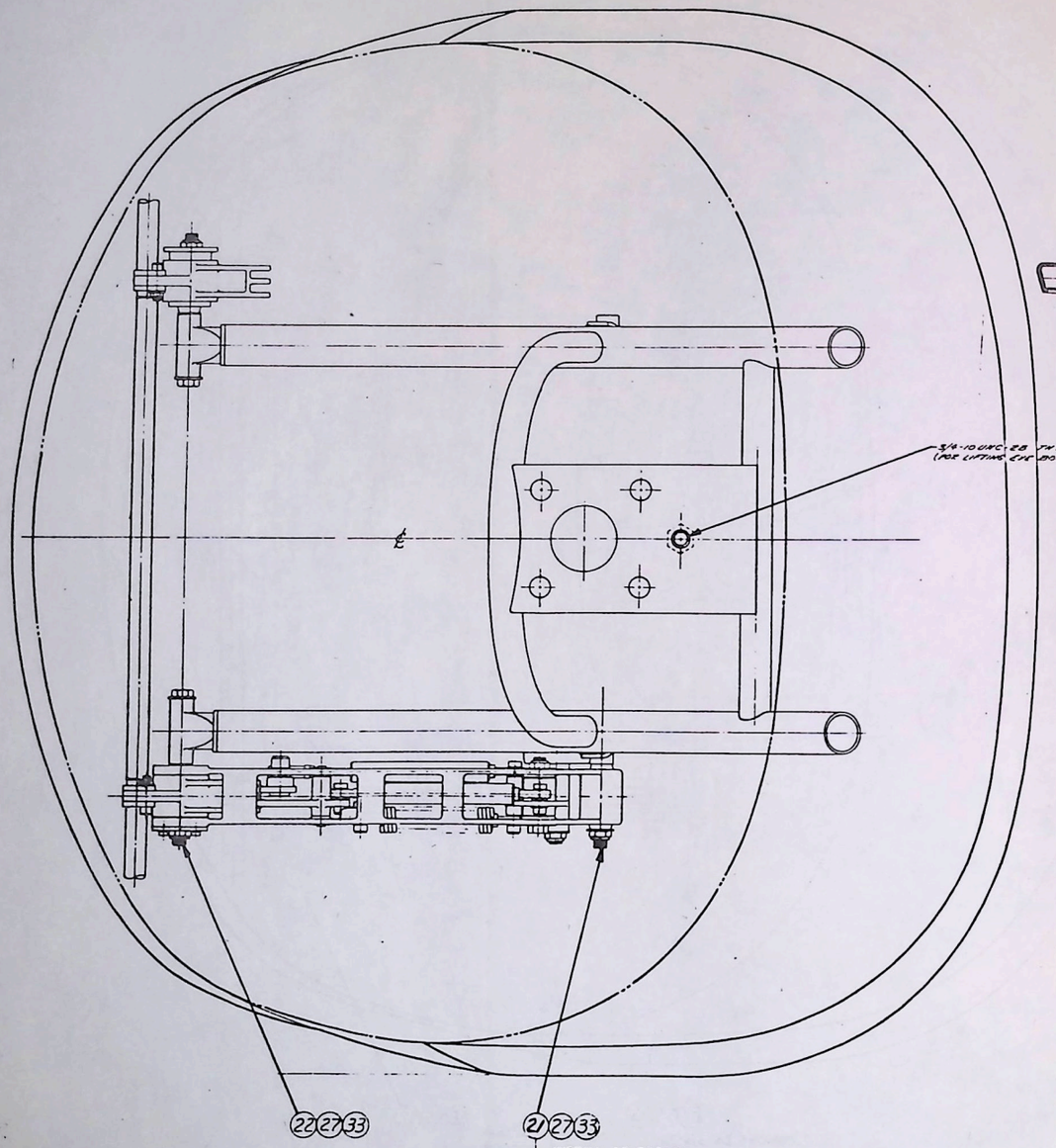
1 COLUMBUS AUTO PARTS CO., COLUMBUS, OHIO.

NOTE: UNLESS OTHERWISE SPECIFIED.

OM-1826
PITCH ARM ASSEMBLY

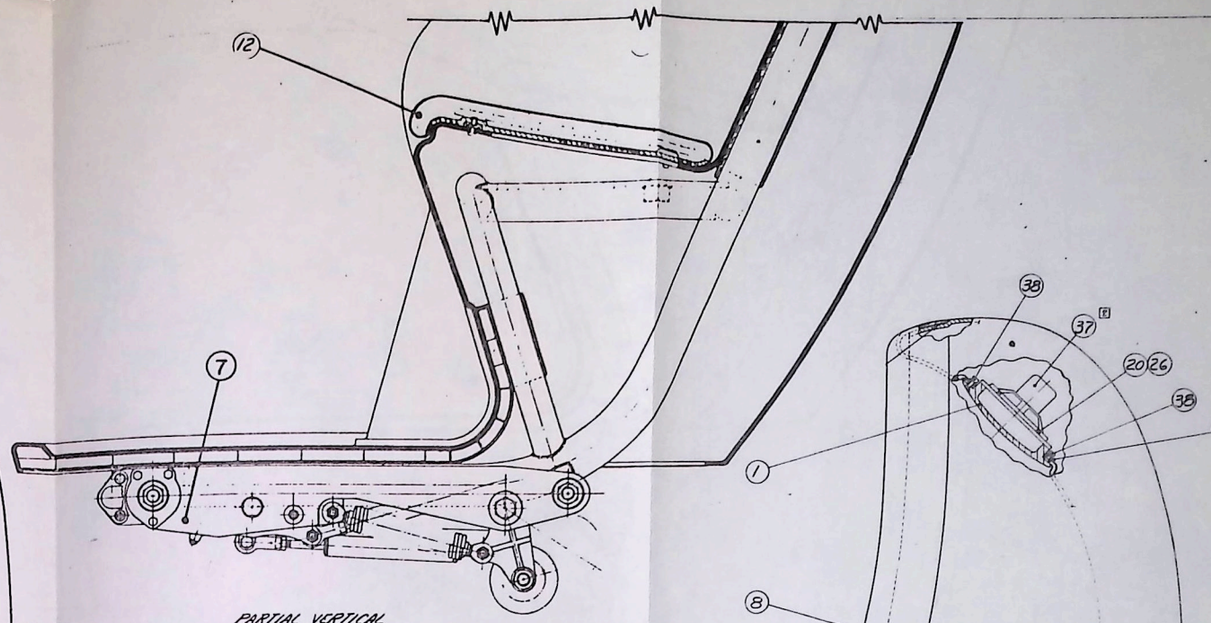
DWG. OM-1826 PITCH ARM ASSEMBLY

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		OM-1815	ARM, PITCH FOLLOWER	1
2.		OM-~~1834~~ 1841	WHEEL, CAM FOLLOWER	4
3.		OM-1835	COLLAR, ECCENTRIC	2
4.		OM-1836	WASHER, SPECIAL	2
5.		OM-1814	TIE ARM, PITCH FOLLOWER	1
6.		DPP10	BEARING, BALL FAFNIR	4
7.		N5000-193H	RING, RETAINING WALDES TRUARC	4
8.		S-17786	TIE ROD END, R.H. [1]	1
9.		707451-1	CONNECTING LINK, END ASSEMBLY [2]	2
10.		5/8 X 2 3/4	BOLT, SHOULDER	2
11.		5/8 X 2 3/8	BOLT, SHOULDER	2
12.		AN365-813	NUT, S.L. 1/2-13UNC-3B ESNA 52NE-083	4
13.				
14.		AN365-420	NUT, HEX S.L. 1/4-20UNC ESNA 42NE-040	2
15.		7/8-14UNF	NUT, HEX JAM, CAD PL	2
16.		1-16UN-2B	NUT, HEX JAM, CAD PL	1
17.		1/4-20 X 1	SET SCREW, CONE POINT	2
18.		5/8-18NF-3	NUT, SLOTTED [4]	REF
19.		1/8 X 1 1/4	COTTER PIN [4]	REF
20.		AN960-816	WASHER, FLAT	4
21.		3/4-16UNF	NUT, SLOTTED [4]	REF
22.		1/8 X 1 3/4	COTTER PIN [4]	REF

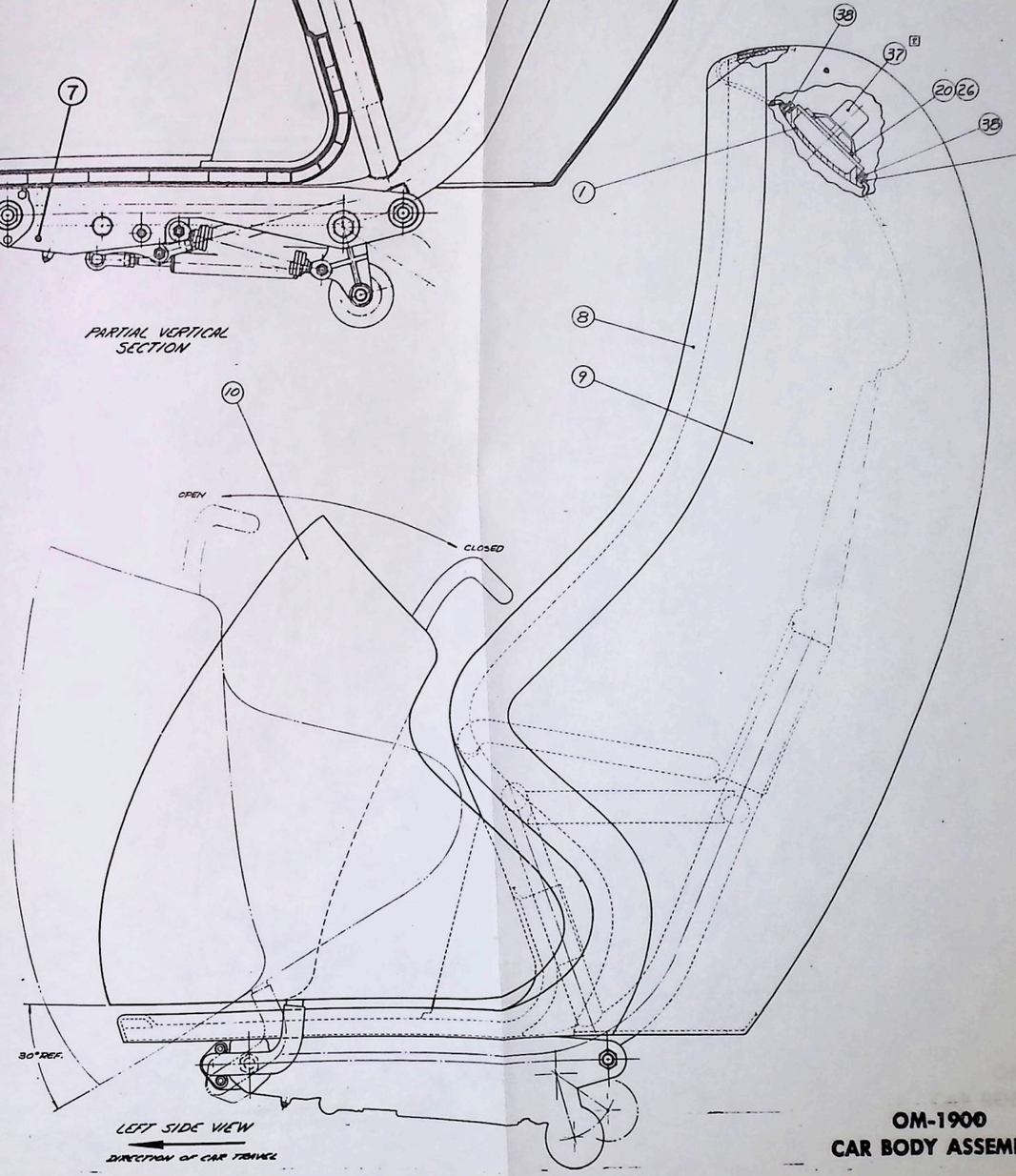


PARTIAL PLAN VIEW

DIRECTION OF CAR TRAVEL



PARTIAL VERTICAL SECTION



LEFT SIDE VIEW

DIRECTION OF CAR TRAVEL

DWG. CAR BODY ASSEMBLY

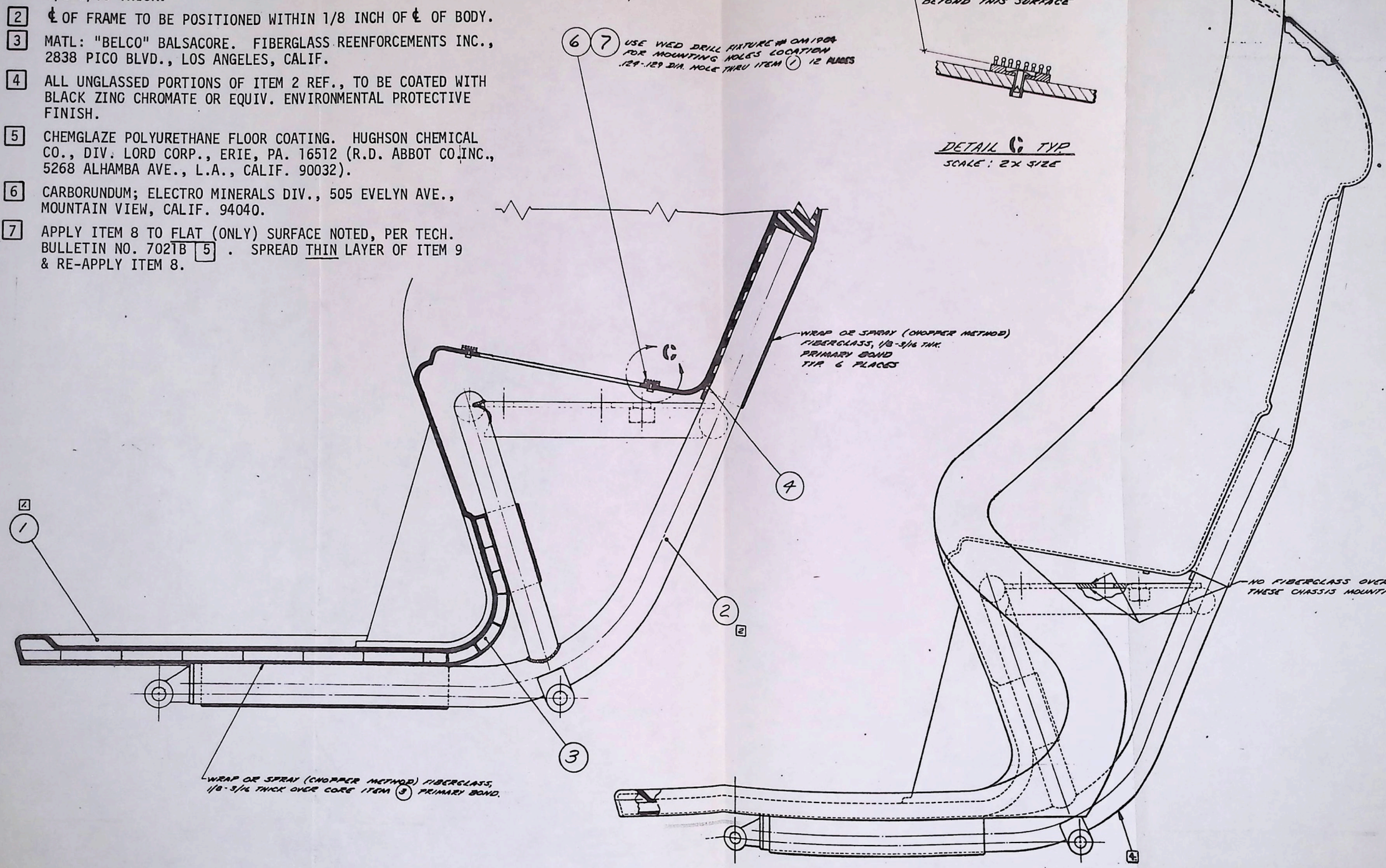
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		WW-1037	SPEAKER GRILLE (COLOR: DULL BLACK)	3
2.		OM961	SPEAKER ANCHOR PLATE	3
3.				
4.				
5.				
6.				
7.		OM1903	SAFETY BAR MECH. ASSY.	1
8.		OM1904	BODY SHELL ASSY., FRONT	1
9.		OM1905	BODY SHELL, REAR	1
10.		OM1918	CLAMSHELL ASSY., LEFT ENTRY	1
11.				
12.		OM-1922	SEAT CUSHION ASSY.	1
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.		AN500-832-10	SCREW, FILLISTER HD, 8-32 x 5/8 LG	12
21.		AN10-62A	BOLT, HEX HD, 5/8-18 x 6 3/8 LG REF	1
22.		AN10-70A	BOLT, HEX HD, 5/8-18 x 7 1/8 LG REF	2
23.				
24.				
25.				
26.		AN936B8	LOCKWASHER, EXT. TOOTH, #8	12
27.		AN960-1016	WASHER, FLAT, 5/8 I.D. x 1 3/16	
			O.D. x .063 THK	6
28.				
29.				
30.				
31.				
32.		MS20364-832A	NUT, S.L. THIN, 8-32 (ESNA 22NTM	
			-82)	4
33.		MS20364-1018A	NUT, S.L. THIN, 5/8-18 (ESNA 52NTE	
			-108)	3
34.				
35.				

DWG. CAR BODY ASSEMBLY PAGE 2 OF 2

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
36.				
37.		WP-502	SPEAKER (3.2 Ω) JENSEN	3
38.		PT100-A4-5	HUCK RIVET (C'SUNK)	24

NOTES:

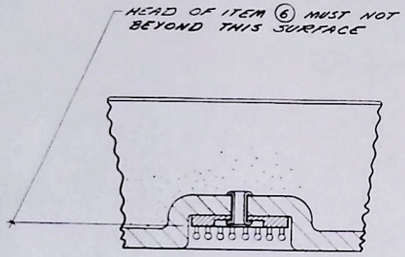
1. BODY CONTOUR TO BE DEVELOPED WITHIN WED MOLD NO. OM1924 REF. MATL: GEL COAT - COLOR DULL BLACK. CHOPPED GLASS, 1/8-3/16 THICK.
2. ℄ OF FRAME TO BE POSITIONED WITHIN 1/8 INCH OF ℄ OF BODY.
3. MATL: "BELCO" BALSACORE. FIBERGLASS REENFORCEMENTS INC., 2838 PICO BLVD., LOS ANGELES, CALIF.
4. ALL UNGLASSED PORTIONS OF ITEM 2 REF., TO BE COATED WITH BLACK ZINC CHROMATE OR EQUIV. ENVIRONMENTAL PROTECTIVE FINISH.
5. CHEMGLAZE POLYURETHANE FLOOR COATING. HUGHSON CHEMICAL CO., DIV. LORD CORP., ERIE, PA. 16512 (R.D. ABBOT CO. INC., 5268 ALHAMBA AVE., L.A., CALIF. 90032).
6. CARBORUNDUM; ELECTRO MINERALS DIV., 505 EVELYN AVE., MOUNTAIN VIEW, CALIF. 94040.
7. APPLY ITEM 8 TO FLAT (ONLY) SURFACE NOTED, PER TECH. BULLETIN NO. 702 TB [5] . SPREAD THIN LAYER OF ITEM 9 & RE-APPLY ITEM 8.



OM-1904
FRONT BODY SHELL ASSEMBLY

DWG. OM-1904 BODY SHELL ASSEMBLY

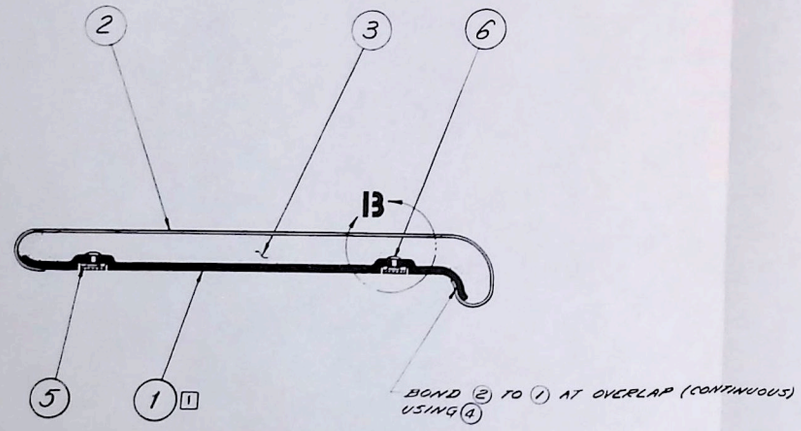
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.			BODY, FIBERGLASS [1]	1
2.		OM-1906	FRAME, BODY MOUNTING [2]	1
3.		24 X 48 X 1/2	CORE, FLOOR [3]	1
4.		2 X 10 X 1/4	POLYURETHANE FOAM, #4	2
5.		2 X 2 X 16	#4 POLYURETHANE FOAM (TRIM TO APPROX SHAPE SHOWN)	2
6.		HNZ	"HEAD" FASTENER 3M CO. INDUSTRIAL TAPE DIV.	6
7.		AD44BS	POP RIVET, 1/8 DIA X 3/16-1/4 GRIP	
			UNITED SHOE MACHINE CO.	12
8.		Z066	CHEMGLAZE, BLACK (ALTERNATE COLOR: CLEAR) [5]	A/R
9.		WSC-30/60	SILICONE CARBIDE ABRASIVE, BLACK [6]	A/R



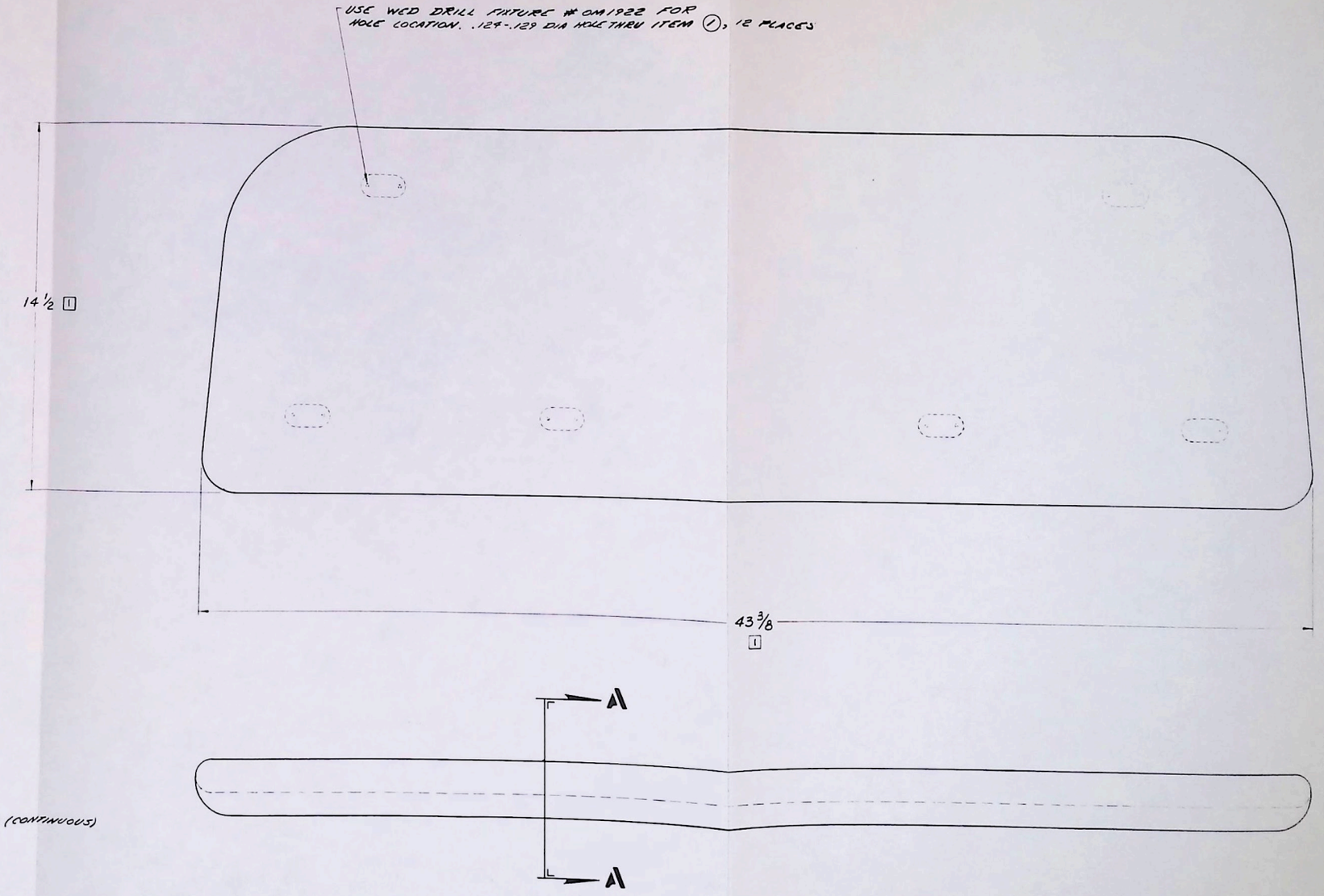
NOTES:

[1] SEAT PAN CONTOUR TO BE DEVELOPED WITHIN W.E.D. MOLD NO. OM-1922 REF. TO MATCH OM-1904 SEAT CONTOUR.

DETAIL **B** TYP
SCALE~ 2X SIZE

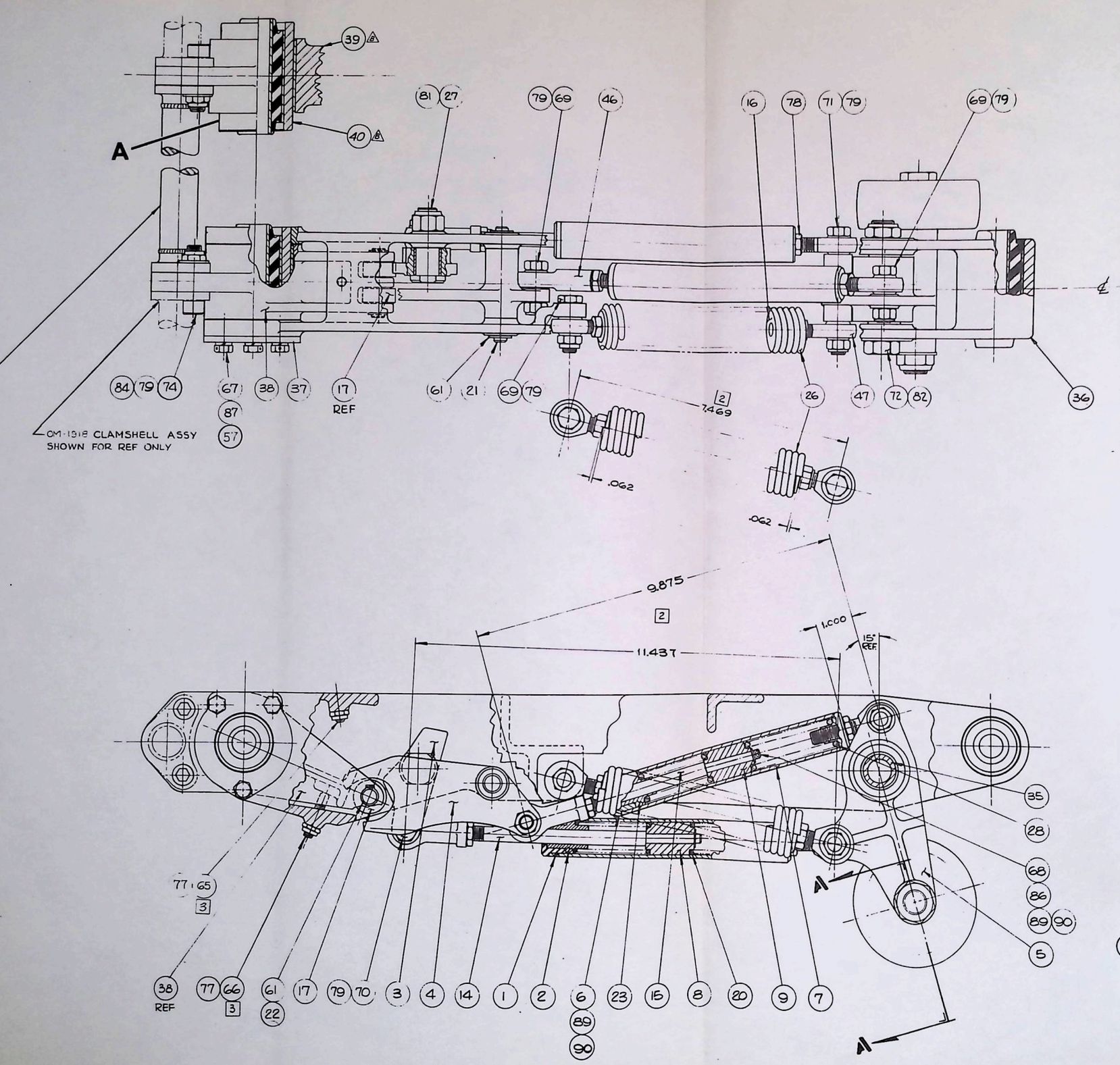


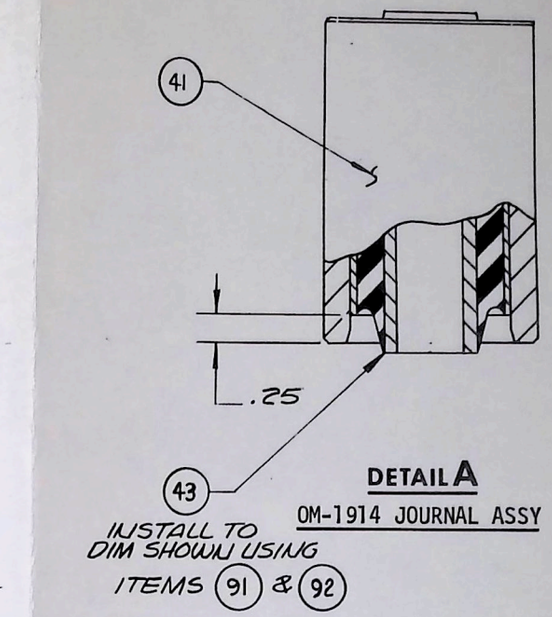
SECTION **A-A**



DWG. OM-1922 SEAT CUSHION ASSEMBLY

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		1/8-3/16 THK	SEAT PAN, FIBERGLASS	1
2.		.040 MIN. THK	COVER, FORMED PLASTIC, BLACK	A/R
3.		1" THK	FOAM, URETHANE 4 LB DENSITY (NO IRREGULARITIES)	A/R
4.			CEMENT, PERMANENT, WEATHERPROOF	A/R
5.		HNZ	"HEAD" FASTENER 3M CO. INDUSTRIAL TAPE DIV.	6
6.		SE4-9	EYELET, 1/8 DIA X 9/32 LG UNITED SHOE MACH. CO.	12

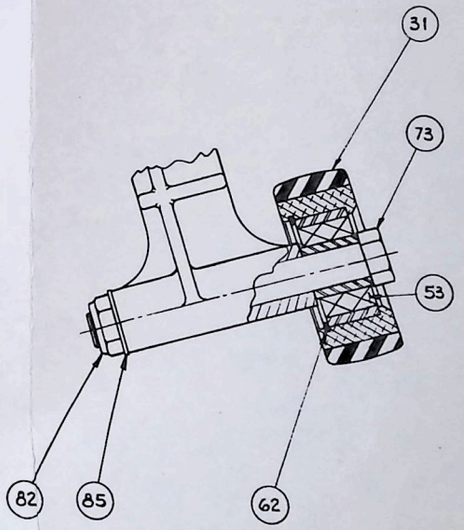




DETAIL A

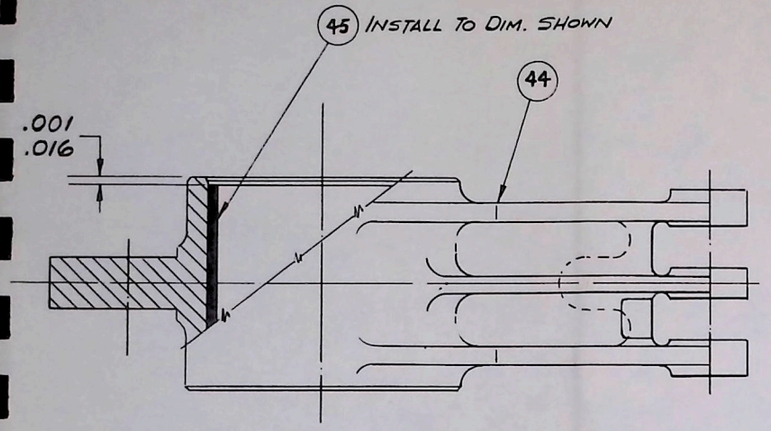
OM-1914 JOURNAL ASSY

INSTALL TO DIM SHOWN USING ITEMS (91) & (92)



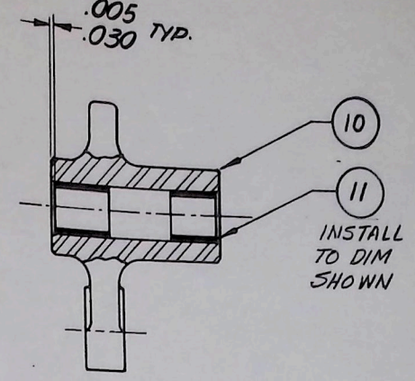
PARTIAL SECTION A-A

OM-1903
SAFETY BAR MECHANISM ASSEMBLY
SHEET 1 OF 3



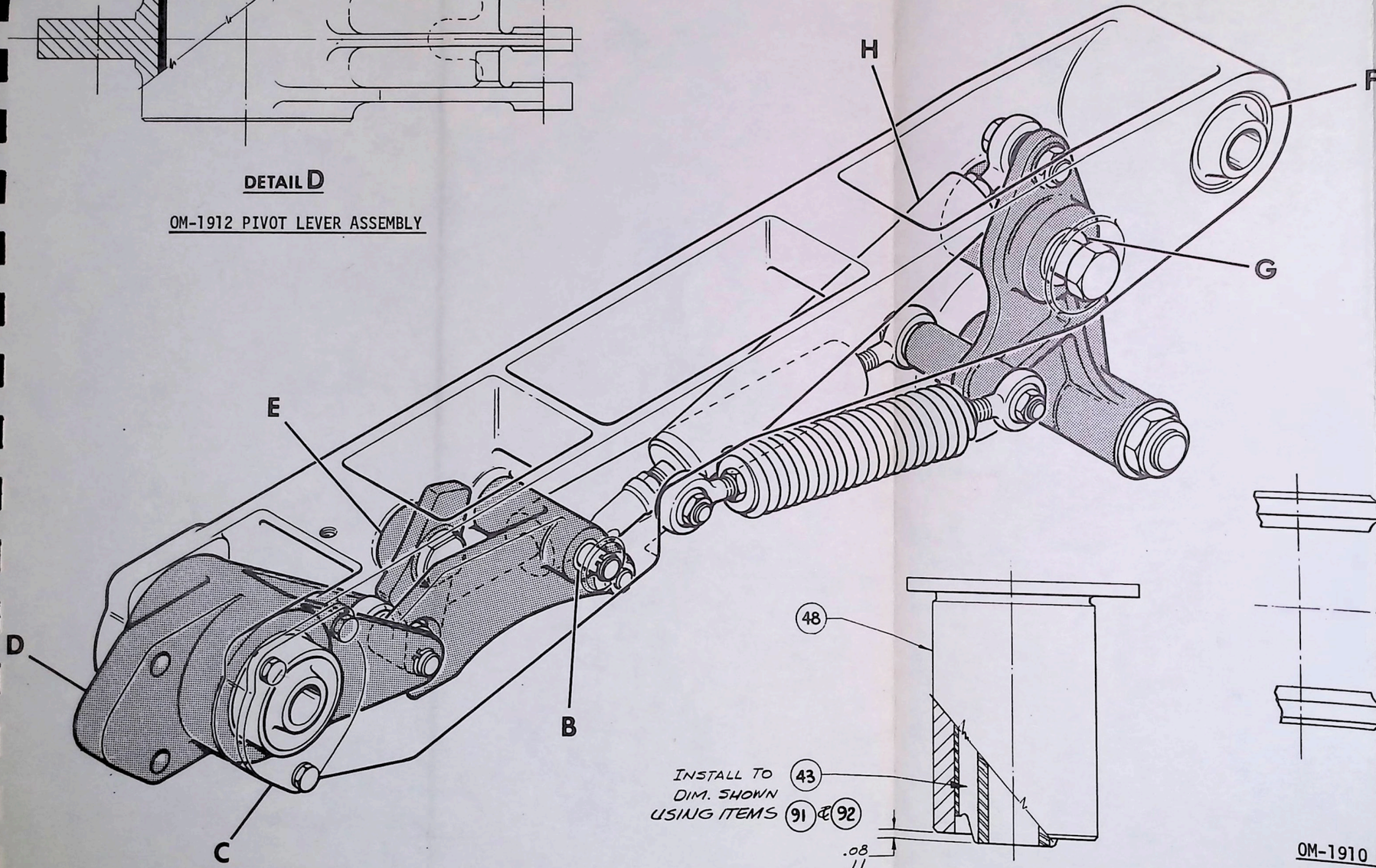
DETAIL D

OM-1912 PIVOT LEVER ASSEMBLY



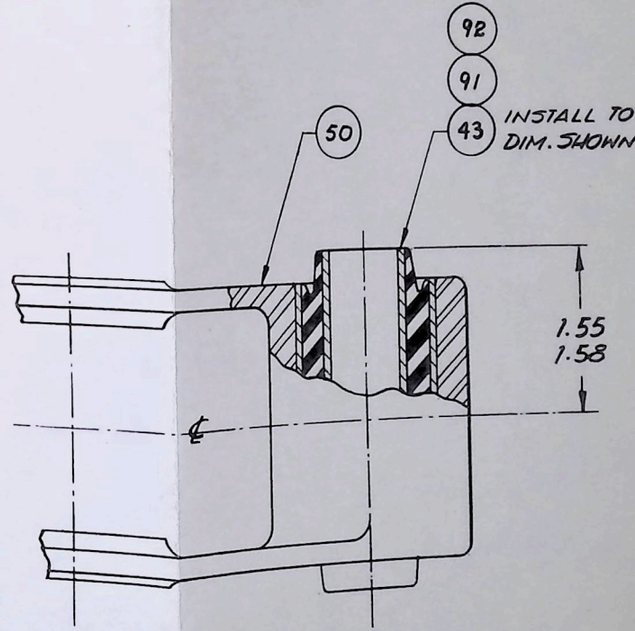
DETAIL B

OM-936 PIVOT LEVER ASSEMBLY



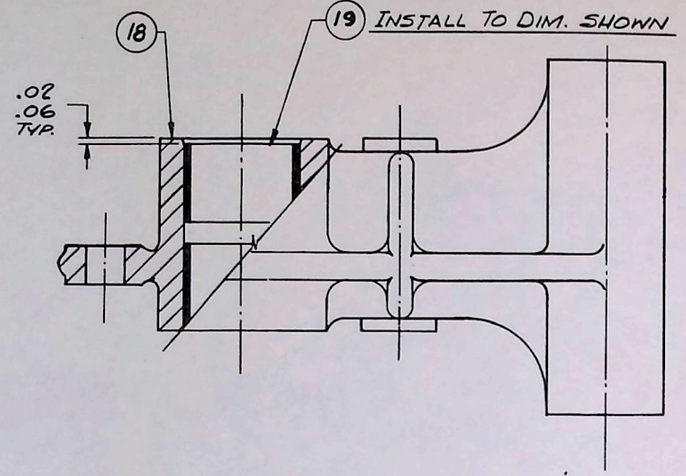
DETAIL C

OM-1911 PIVOT LEVEL JOURNAL ASSEMBLY



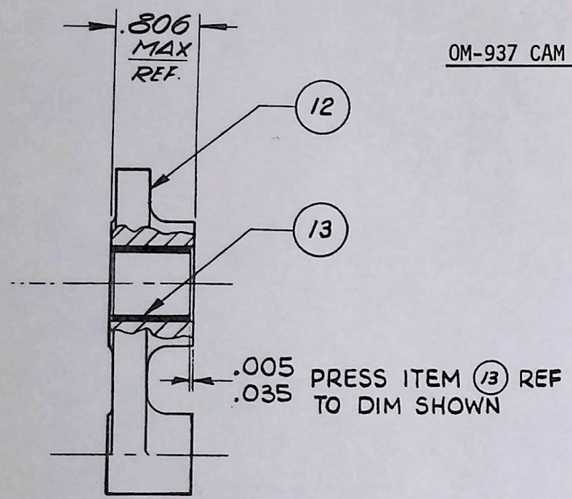
DETAIL F

OM-1910 CAM AND LINKAGE HOUSING ASSEMBLY



DETAIL G

OM-937 CAM WHEEL SUPPORT ASSEMBLY



DETAIL E

OM-935 PIVOT LEVER
LOCKING CAM ASSEMBLY

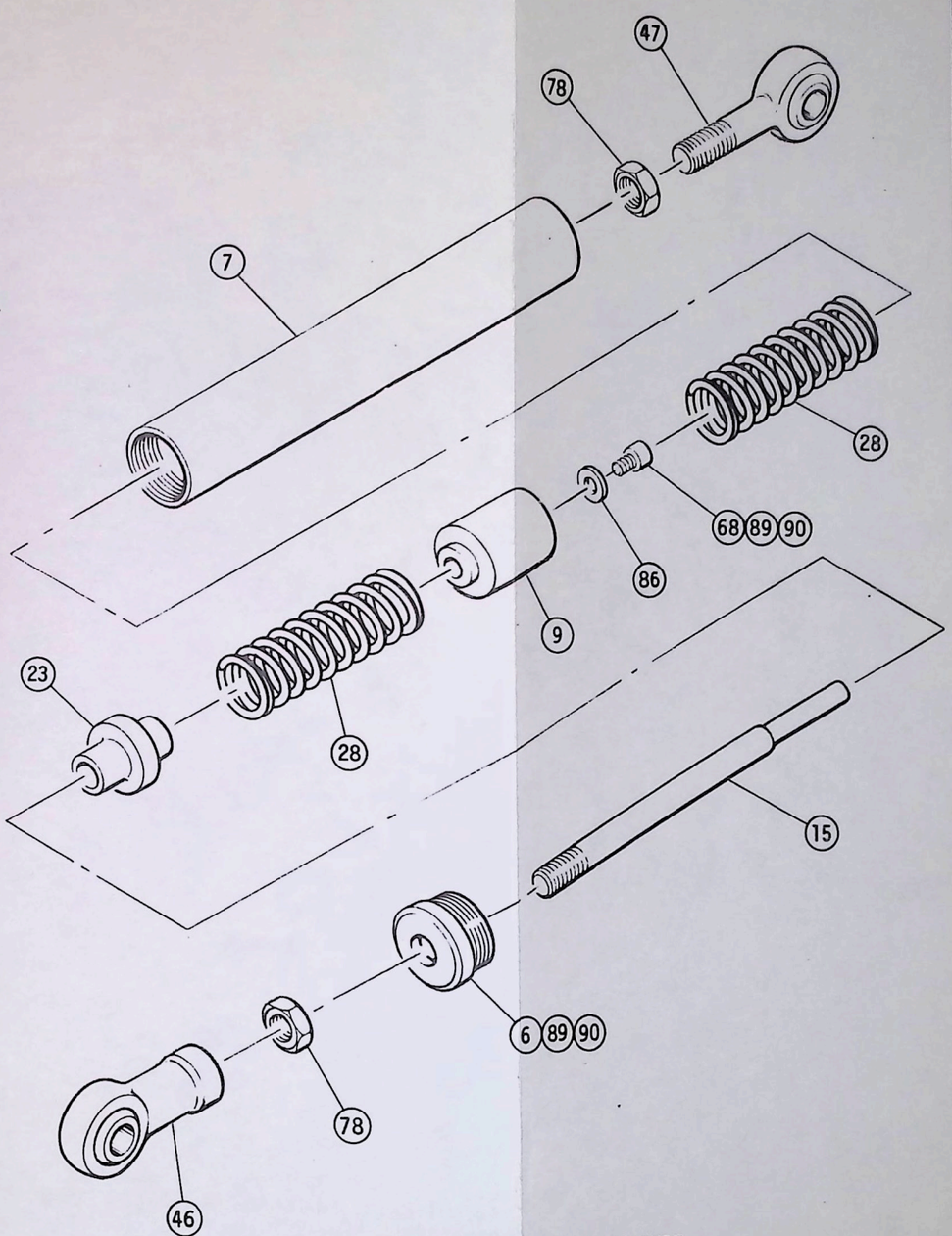
NOTES:

1. ALL HARDWARE TO BE STAINLESS OR CADMIUM PLATED (& BAKE) STEEL (OR EQUIV. ENVIRONMENTAL PROTECTION), AS PURCHASED.

[2] LIGHT LUB CYL INTERNAL PARTS WITH THIN GREASE; ADJUST MAIN SPRING AND SPRING CYLINDERS TO DIMENSIONS SHOWN.

[3] ADJ. ITEM (65) & (66) TO: .001-.005 CLEARANCE BETWEEN ITEM (17) & (3); WITH ITEM (38) IN POSITION SHOWN.

[4] GARLOCK - NADELLA INC., CHERRY HILL, N.J.



TYPICAL ASSEMBLY PROCEDURE FOR BOTH SPRING SHOCKS. (PART NUMBERS LISTED FOR REFERENCE ONLY)

DETAIL H

DWG. OM-1903 SAFETY BAR MECHANISM ASSEMBLY SHEET 1 OF 3

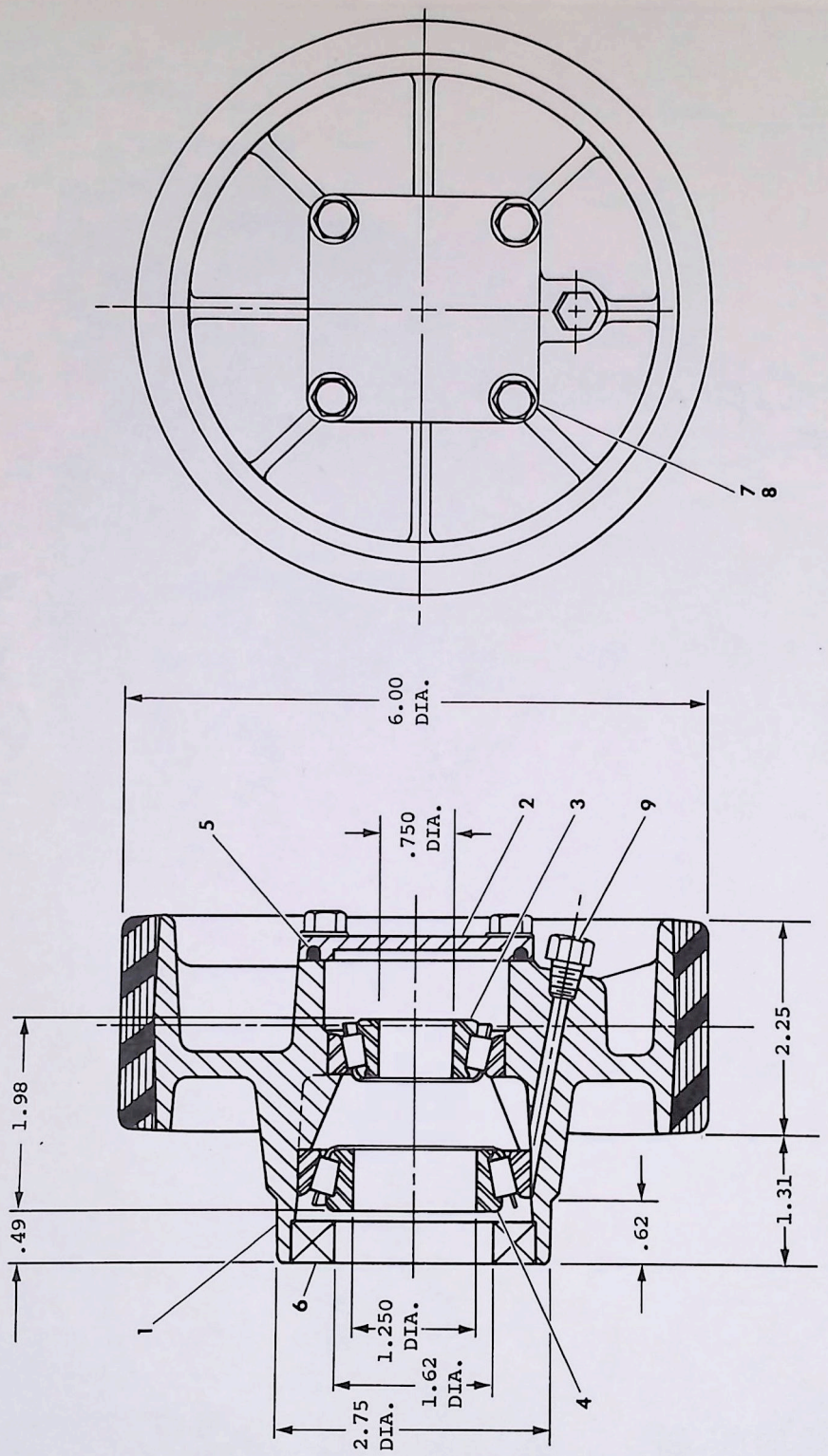
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		OM-924	HOUSING ASSEMBLY	1
2.		OM-925	BUSHING, ROD	1
3.		OM-935	CAM, LEVER LOCKING	1
4.		OM-936	LINK, LEVER CAMMING	1
5.		OM-937	SUPPORT, CAM WHEEL	1
6.		OM-939	GUIDE, PULL ROD	2
7.		OM-940	HOUSING ASSEMBLY	1
8.		OM-941-1	PISTON	1
9.		OM-941-2	PISTON	1
10.		OM-936-1	LINK (MACHINED CASTING)	1
11.		06DU10	BUSHING [4]	2
12.		OM-935-1	CAM (MACHINED CASTING)	1
13.		10DU12	BUSHING [4]	1
14.		OM-943-1	ROD, PISTON	1
15.		OM-943-2	ROD, PISTON	1
16.		OM-946	FITTING, SPRING ATTACHMENT	2
17.		OM-948	ROLLER, PIVOT LEVER	2
18.		OM-937-1	SUPPORT (MACHINED CASTING)	1
19.		16 DU12	BUSHING, 1.0"I.D. X 1 1/8 O.D. X 3/4" LG [4]	2
20.		OM-949	SPRING, COMPRESSION	2
21.		OM-957	PIVOT SHAFT, CAMMING LINK	1
22.		OM-958	BEARING SHAFT, PIVOT LEVER	1
23.		OM-959	BUSHING, ROD	1
24.				
25.				
26.		OM-960	MAIN SPRING	1
27.		OM-963	BOLT, SPECIAL	1
28.		OM-964	SPRING, COMPRESSION	2
29.				
30.				
31.		OM-842	WHEEL, CAM FOLLOWER	1
32.				
33.				
34.				
35.		OM-1909	JOURNAL, SUPPORT	1
36.		OM-1910	HOUSING, CAM & LINKAGE ASSEMBLY	1
37.		OM-1911	JOURNAL, PIVOT LEVER ASSEMBLY	1
38.		OM-1912	PIVOT LEVER ASSEMBLY	1

DWG. OM-1903 SAFETY BAR MECHANISM ASSEMBLY SHEET 2 OF 3

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
39.		OM-1913	PIVOT LEVER ASSEMBLY (OFF-SIDE)	1
40.		OM-1914	JOURNAL ASSEMBLY (OFF-SIDE)	1
41.		OM-1914	ITEM 1	1
42.		OM-1917	CROSS BAR ASSEMBLY	1
43.		H-5020	MOUNT, ELASTIC LORD	1
44.		OM-1912-1	PIVOT LEVER (MACHINED CASTING)	1
45.		32DU32	BEARING, 2"I.D. X 2 3/16" O.D. X 2" LG [4]	1
46.		AR-6FN	ROD END SEALMASTER	2
47.		ARE-6FN	ROD END SEALMASTER	4
48.		OM-1911-1	JOURNAL (MACHINED CASTING)	1
49.				
50.		OM-1910-1	HOUSING (MACHINED CASTING)	1
51.				
52.				
53.		DP10	BEARING FAFNIR	1
54.				
55.				
56.				
57.		MS20995C20	LOCKWIRE	A/R
58.				
59.				
60.				
61.		5100-37H	RING, RETAINING TRUARC	4
62.		N5000-193H	RING, RETAINING TRUARC	1
63.				
64.				
65.		1/4-20 X 1/2	SET SCREW, SOC HD, OVAL PT	1
66.		1/4-20 X 1 1/4	SET SCREW, SOC HD, OVAL PT	1
67.		AN74A-05	SCREW, HEX HD, 1/4-20 X 9/16 LG X 1/8	3
68.		8-32-3A X 1/2	SCREW, SOC HD S.L.	2
69.		AN6-13A	BOLT, HEX HD 3/8-24 X 1 9/16 LG X 13/16 GP	3
70.		AN6-16A	BOLT, HEX HD 3/8-24 X 1 13/16 LG X 1 3/16 GP	1
71.		AN6-32A	BOLT, HEX HD 3/8-24 X 3 5/16 LG X 2 11/16 GP	1
72.		AN10-31A	BOLT, HEX HD 5/8-18 X 3 1/4 LG X 2 5/16 GP	1
73.		AN10-47A	BOLT, HEX HD 5/8-18 X 5 LG X 4 1/16 GP	1
74.		MS35458-50	BOLT, SOC HD 3/8-24UNF-3A X 2 LG	4
75.				
76.				

DWG. OM-1903 SAFETY BAR MECHANISM ASSEMBLY SHEET 3 OF 3

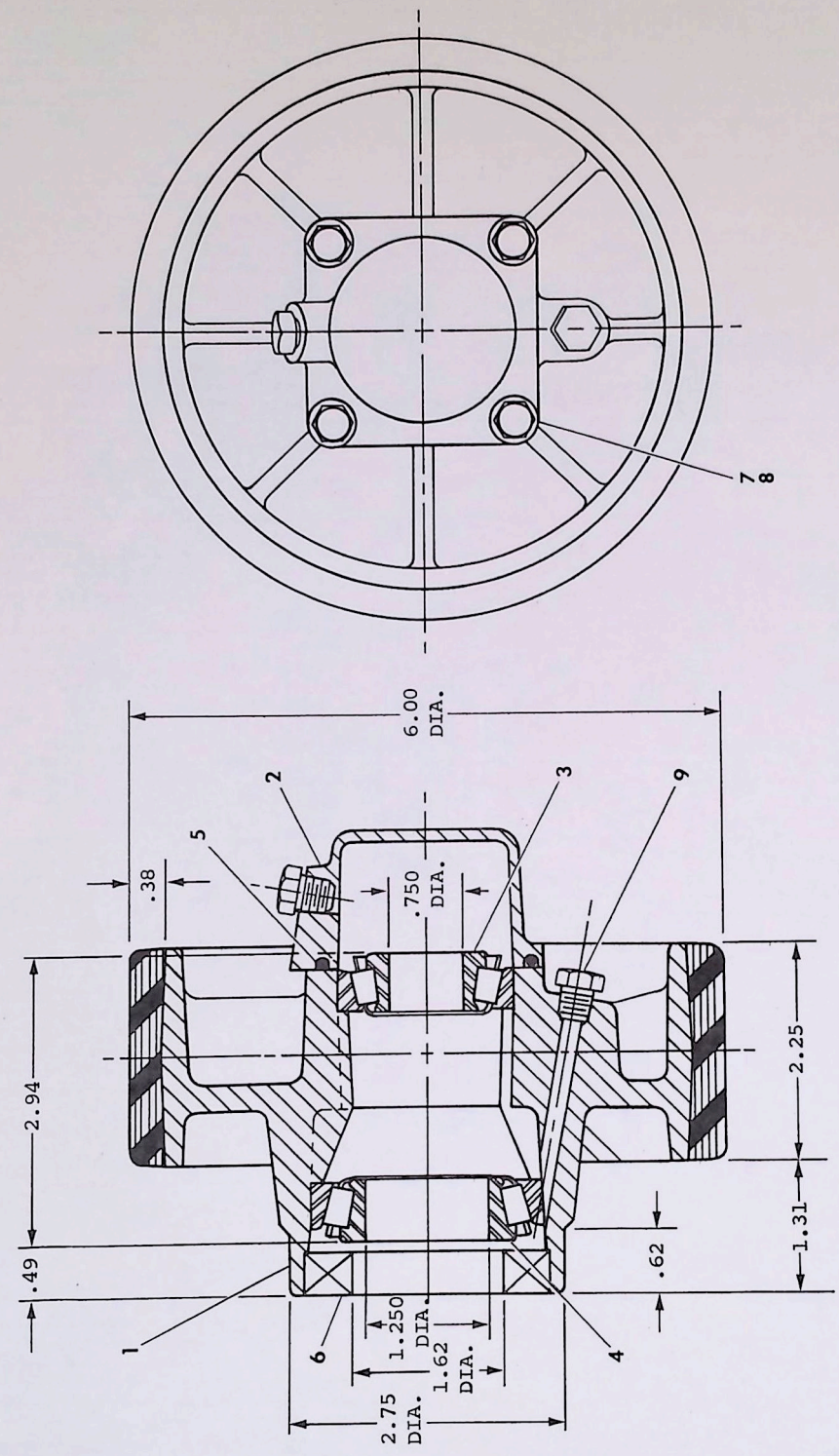
ITEM	WDP NO.	PART NO.	DESCRIPTION		QTY.
77.		AN364-420	NUT, HEX S.L. 1/4-20	ESNA 29NTE-040	2
78.		AN316-6R	NUT, HEX, JAM 3/8-24		6
79.		AN365-624	NUT, HEX S.L. 3/8-24	ESNA 52NE-064	9
80.					
81.		AN365-820	NUT, HEX S.L. 1/2-20	ESNA 52NTE-080	1
82.		AN364-108	NUT, HEX S.L. 5/8-18	ESNA 52NTE-108	2
83.					
84.		AN960-616	WASHER, FLAT 3/8 I.D. X 5/8 O.D. X .063 THK		4
85.		AN960-1016	WASHER, FLAT 5/8 I.D. X 1 3/16 O.D. X .063 THK		1
86.		MS15795-207	WASHER, FLAT 3/16 I.D. X 3/8 O.D. X .063 THK		2
87.		AN935-416	LOCKWASHER, 1/4 (SPLIT)		3
88.					
89.			LOCQUIC, PRIMER "T"	LOCTITE	A/R
90.			NUTLOCK, GRADE "C"	LOCTITE	A/R
91.			LOCQUIC	LOCTITE	A/R
92.			BEARING MOUNT	LOCTITE	A/R
93.					
94.					
95.					



80399
GUIDE WHEEL ASSEMBLY
(6" DIA. X 2 1/4", W/AEROLAST TREAD)

DWG. 80399 GUIDE WHEEL ASSEMBLY

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		32568	WHEEL ASSEMBLY	1
2.		52765	PLATE, HUB	1
3.		LM11949	CONE	1
4.		LM67048	CONE	1
5.		6230-4	"O" RING	1
6.		16223	SEAL	1
7.		AS65-4-5	SCREW	4
8.		MS35338-44	WASHER, LOCK	4
9.		3152 X 2	PLUG, BRASS, 1/8 NPT	1



80400
LOAD WHEEL ASSEMBLY
(6" DIA. X 2 1/4" W/AEROLAST TREAD)

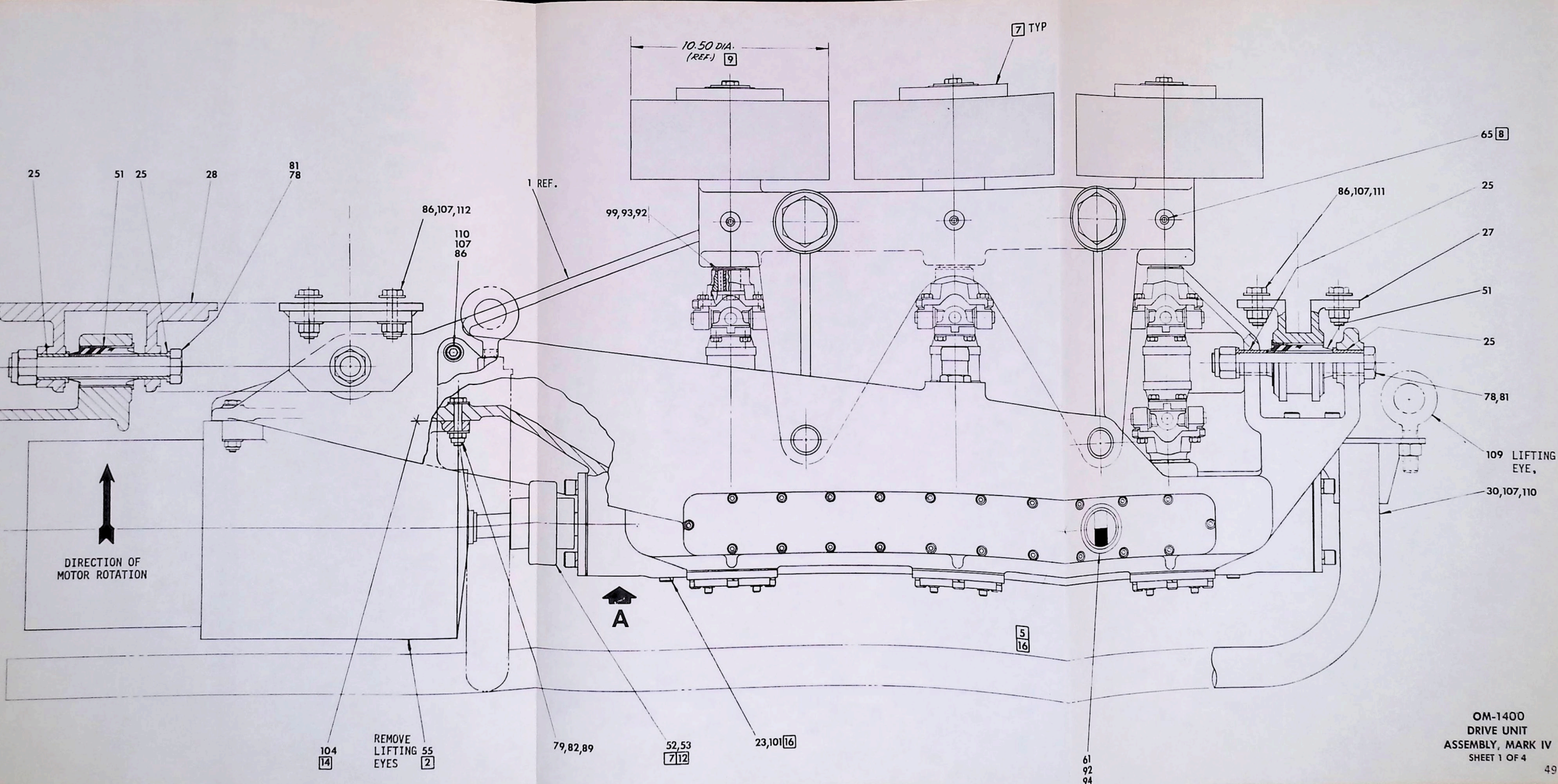
DWG. 80400 LOAD WHEEL ASSEMBLY

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		32567	WHEEL ASSEMBLY AEROL	1
2.		50221	CAP, HUB	1
3.		LM11949	CONE	1
4.		LM67048	CONE	1
5.		6230-4	"O" RING	1
6.		16223	SEAL	1
7.		AS65-4-5	SCREW	4
8.		MS35338-44	WASHER, LOCK	4
9.		3152 X 2	PLUG, BRASS, 1/8 NPT	2

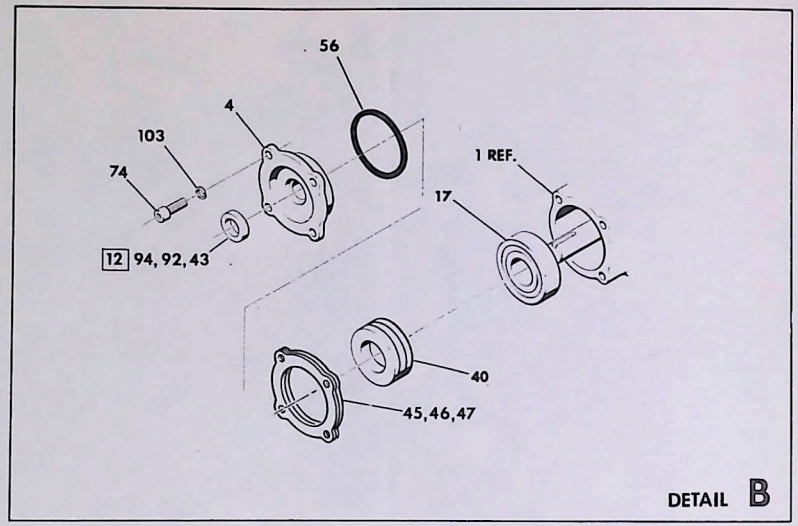
SECTION 2

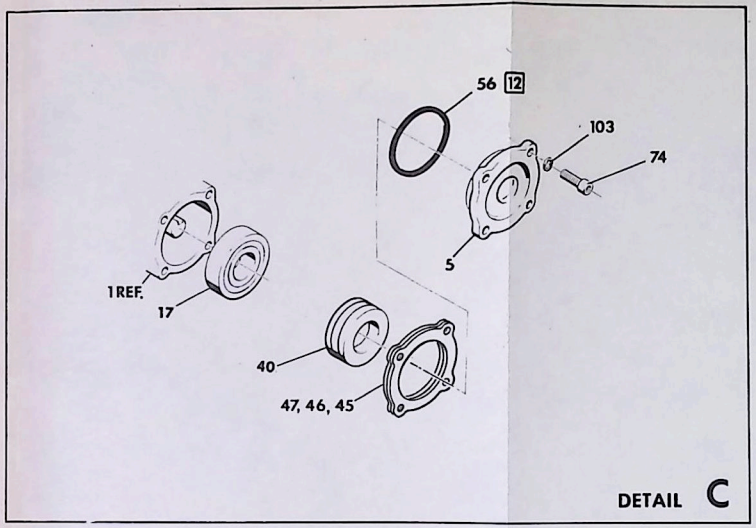
TRACK & DRIVE UNIT

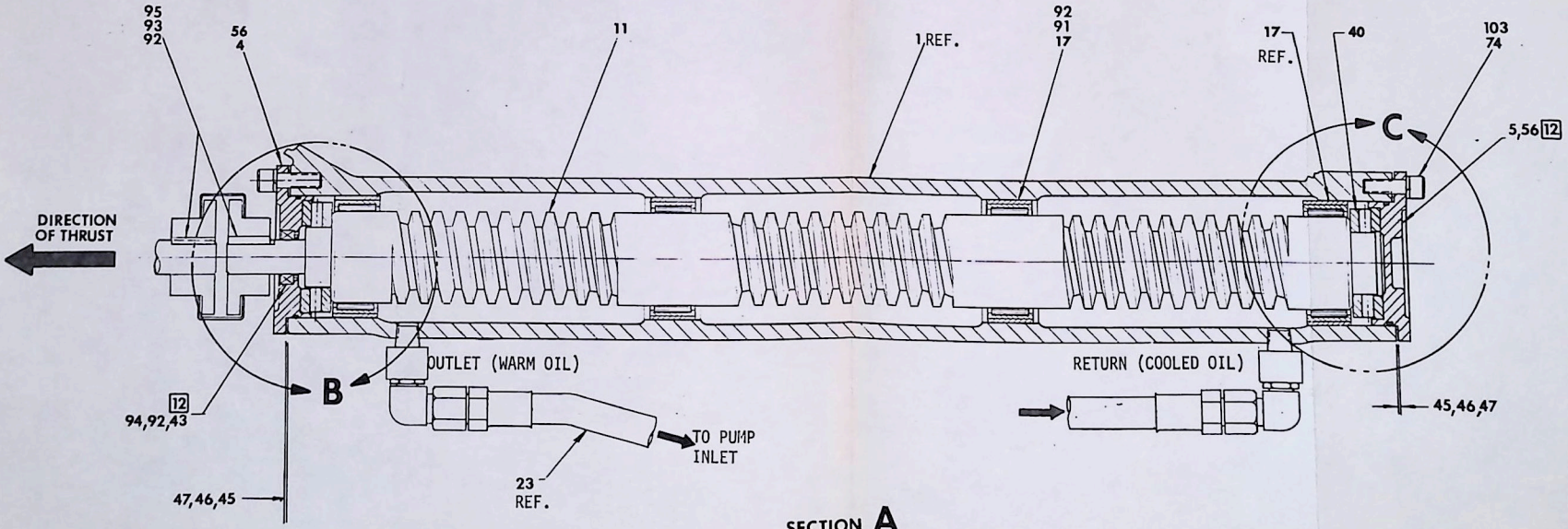
FOR ADDITIONAL DETAILED ENGINEERING INFORMATION ON ASSEMBLIES/ SUB-ASSEMBLIES APPEARING THE TRACK AND DRIVE UNIT SECTION OF THIS MANUAL, CONTACT: DEPARTMENT HEAD - MECHANICAL ENGINEERING - MAPO.



OM-1400
DRIVE UNIT
ASSEMBLY, MARK IV
SHEET 1 OF 4

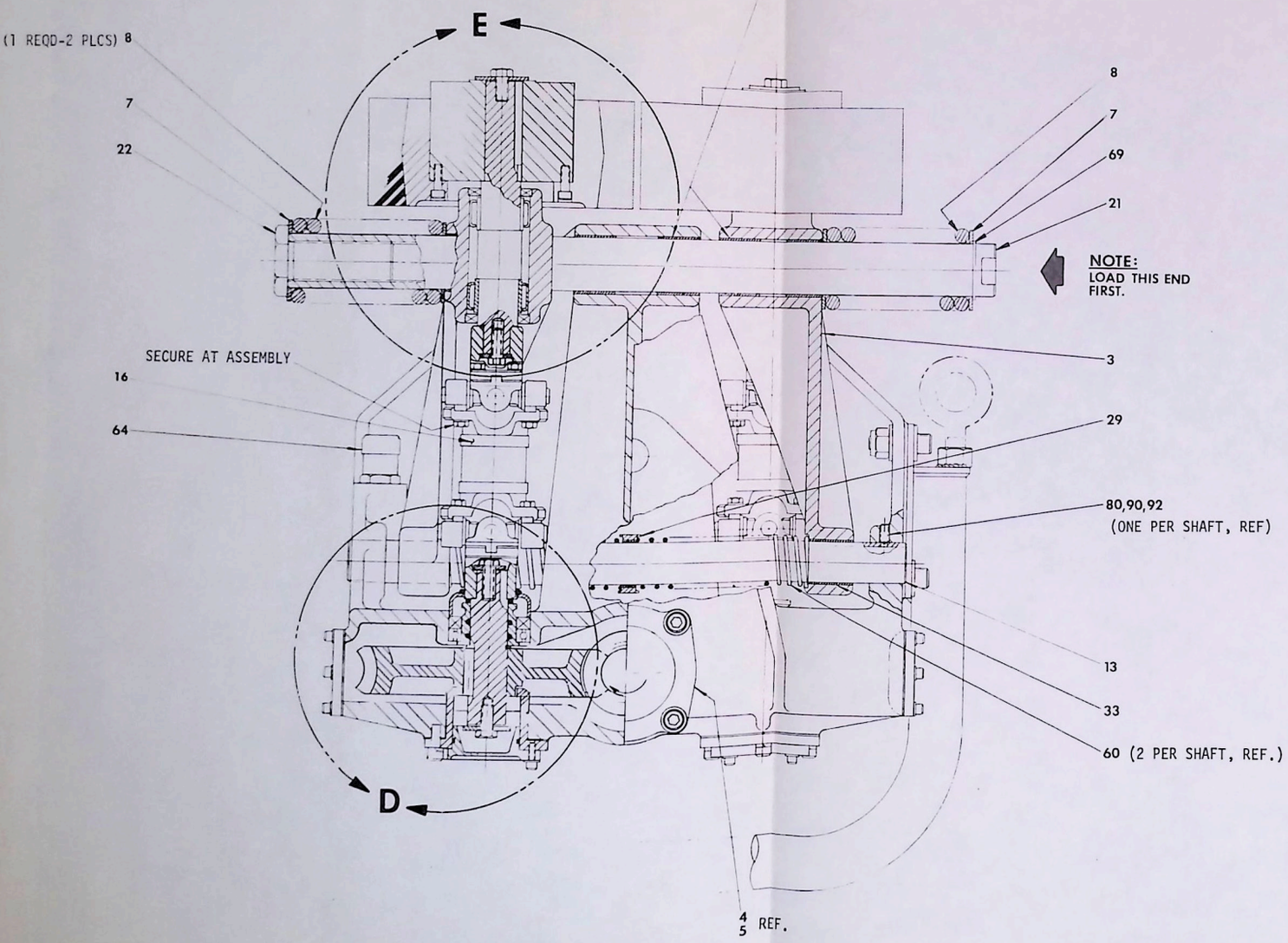


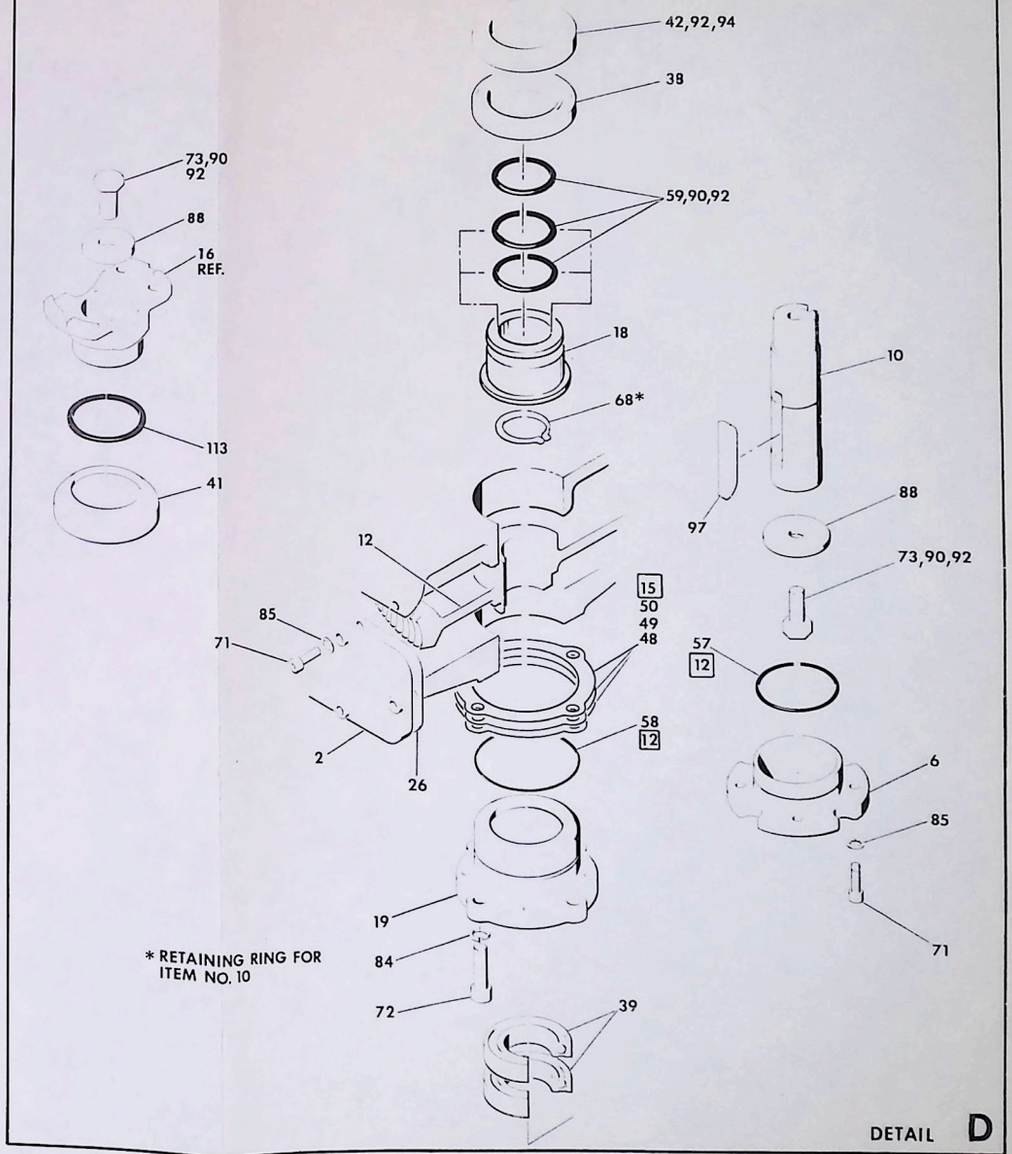


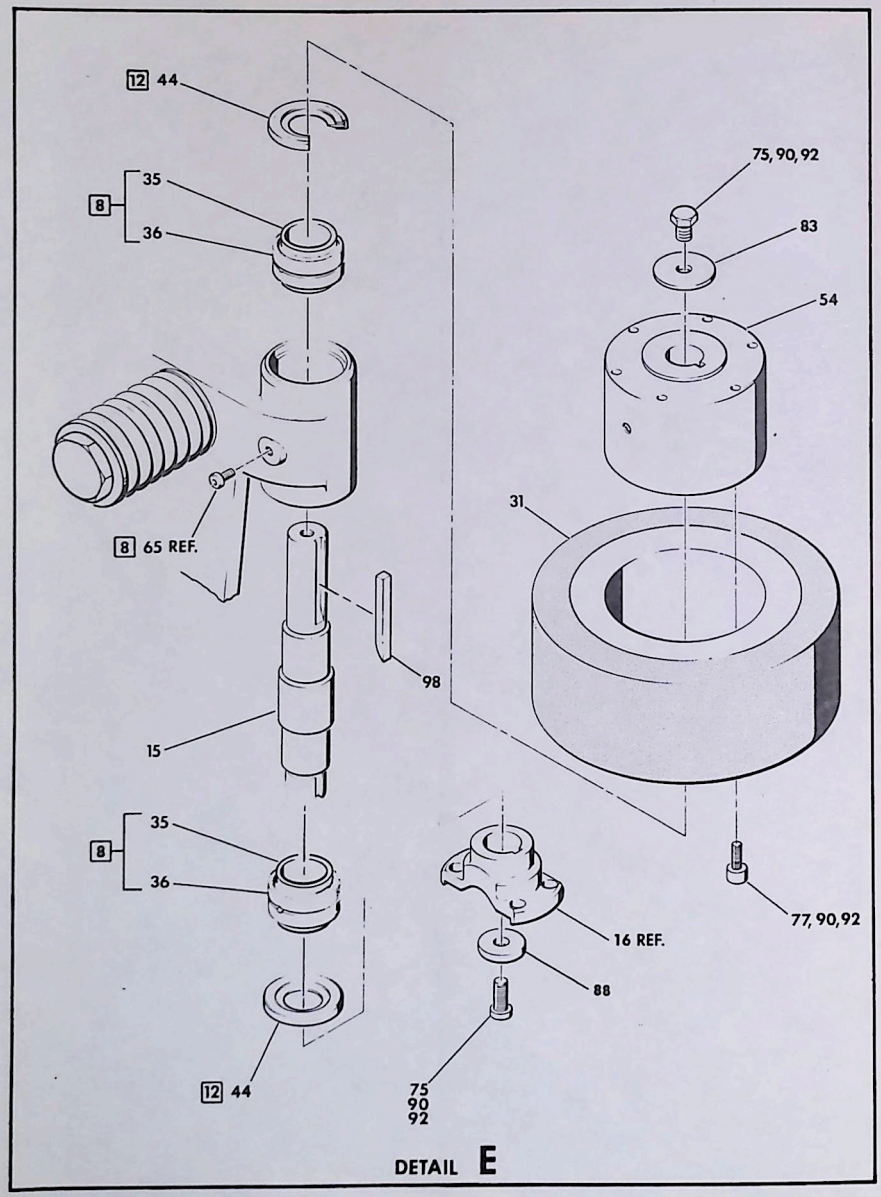


SECTION A

PARTIAL SECTION THRU WORM CENTERS


(1 REQD-2 PLCS) 8
7
22
E
D
SECURE AT ASSEMBLY
16
64
8
7
69
21
NOTE:
LOAD THIS END
FIRST.
3
29
80,90,92
(ONE PER SHAFT, REF)
13
33
60 (2 PER SHAFT, REF.)
4
5 REF.


42,92,94
38
73,90
92
88
16
REF.
59,90,92
18
68*
113
41
10
97
88
73,90,92
12
85
71
15
50
49
48
57
12
2
26
58
12
6
85
71
19
84
72
39
* RETAINING RING FOR
ITEM NO. 10
DETAIL D



DETAIL **E**

NOTES:

1. ALL HARDWARE TO BE STAINLESS OR CAD. PLATED (& BAKE) STEEL AS PURCHASED.

[2] FOR MOTOR CONTROL AND WIRING DATA, SEE: GENERAL ELECTRIC CO., DWG. NO. 36B58700 (1-27) & WED DWG. NO. A6-16-M282, A6-16-M284.

[3] MOTOR UNIT: MODEL 5EC219C01 G6520 AIR COOLED EDDY CURRENT COUPLING, 7 1/2 H.P., 24 LB/FT., 1615/100 RPM WITH K210, 7 1/2 H.P., 1800 RPM, 220/440V., 3 PHASE, 60 HERTZ, DRIP PROOF A.C. MOTOR, WITH SCREENS OVER AIR OPENINGS (GENERAL ELECTRIC COMPANY).

[4] SEALS & GREASE LUBE FOR LIFE AS REQUIRED. NO LEAKAGE AT 75 RPM. MAX. FOR VERTICAL SHAFT MOUNTING. ALTERNATE CLUTCH: FS0600 (VERTICAL SHAFT MOUNTING) FORMSPRAG CO.

[5] LUBRICATION: FILL GEARBOX TO LEVEL INDICATED USING (APPROX. 3 GAL.) MOBIL 600W SUPER CYLINDER OIL #8 COMP. (OR EQUIV). CHANGE OIL AFTER FIRST 2 WEEKS.

[6] FINISH: ELECTROFILM PROCESS (OR EQUIV.) NO. 4396 (PHOSPHATE BASE). MFG: ELECTROFILM, INC., NO. HOLLYWOOD, CALIF.

[7] FINISH: UNPROTECTED, EXPOSED STEEL SURFACES:
A. PREPARE SURFACE PER FINCH SPEC., NO. 5-3-8.
B. PRIME SURFACE USING FINCH PRIMER NO. 454-4-4.
FINCH PAINT & CHEMICAL CO., TORRANCE, CALIF. 90502.

[8] THOROUGHLY LUBE (36) & FILL CAVITY WITH LIGHT GREASE. INSTALL ITEM (65) .

[9] GEAR RATIO DATA: WORM/GEAR , 31:1. APPROX. DRIVE FORCE (PARALLEL TO ℄ TRACK) 1500 LB.

[10] FINAL INSTALLED POSITION OF (EACH) DRIVE UNIT MUST PROVIDE FOR THRU-FREE AIR CIRCULATION AROUND HOUSINGS. SEE DWG. NO. OM-1510

[11]

[12] REFINISH. DO NOT POLISH ALL PRESS/ASSEMBLY MARKS BEFORE INSTALLING SEAL, AVOID ANY MACHINED EDGES THAT MAY DAMAGE SEAL SURFACES, THOROUGHLY LUBE AT ASSEMBLY AND PACK ADJACENT CAVITY WITH LIGHT GREASE.

[13] ALL PARTS ASSEMBLED WITH LOCTITE COMPOUNDS MUST BE CLEAN BEFORE APPLICATION.

[14] SHIM MOTOR, (55) REF TO ALIGN WITH WORM SHAFT, (11) REF:
ANGULAR MISALIGNMENT: 1/2° MAX.
SHAFTS PARALLEL WITHIN .015 MAX.

[15]

[16] REMOVE PLUG (101) REF AT INSTALLATION. ASSEMBLE COOLER (23) REF AS SHOWN. OIL COOLER ASSEMBLY SHOULD BE MOUNTED AS CLOSE AS POSSIBLE TO DRIVE UNIT; WITH OIL PUMP INLET AT APPROX. SAME LEVEL AS DRIVE UNIT OIL LEVEL. RUN OIL COOLER ASSEMBLY AND RECHECK OIL LEVEL [5] .

DWG. OM 1400 DRIVE UNIT ASSEMBLY, MARK IV SHEET 1 OF 3

ITEM	WDP NO.	PART NO.	DESCRIPTION		QTY.
1.		OM-1402	CASE		1
2.		OM-1403	COVER, PORT		2
3.		OM-1405	CARRIER, DRIVE WHEELS		2
4.		OM-1406-1	END CAP, WORM (INPUT)		1
5.		OM-1406	END CAP, WORM		1
6.		OM-1407	CAP, LOWER BEARING, GEAR		6
7.		OM-1408	TUBE, SPRING LOADING		2
8.		OM-1409	SPRING DISC, MODIFIED		216
9.					
10.		OM-1411	BEARING SHAFT, GEAR MTG.		6
11.		OM-1412	WORM		3
12.		OM-1413	GEAR		6
13.		OM-1414	SHAFT, CARRIER, LOWER		2
14.					
15.		OM-1416	SHAFT, DRIVE		6
16.		OM-1438	UNIVERSAL JOINT (MODIFIED)		6
17.		OM-1442	BEARING ASSY		
18.		OM-1419	COLLAR, GEAR SHAFT		6
19.		OM-1420	HOUSING, LOWER BEARING		6
20.					
21.		OM-1422	SHAFT, CARRIER, UPPER		2
22.		OM-1423	BOLT, SPRING LOADING		2
23.		OM-1401	OIL COOLER ASSEMBLY		1
24.					
25.		OM-1425	BUSHING, FLANGED		6
26.		OM-1426	GASKET, COVER		2
27.		OM-1427	BRACKET, FRONT		1
28.		OM-1428	BRACKET, REAR		1
29.		OM-1429	SPRING SEAT ASSEMBLY		2
30.		OM-1430	CRADLE, HANDLING		1
31.		OM-428-1	WHEEL, DRIVE		6
32.					
33.		24DU24	BUSHING, PLASTIC	GARLOCK NADELLA	4
34.		32DU28	BUSHING, PLASTIC	GARLOCK NADELLA	12
35.		1R242820	BEARING, INNER RACE	TORRINGTON	12
36.		HJ283716	BEARING, ROLLER	TORRINGTON	12
37.					
38.		KP33BS	BEARING, RADIAL	FAFNIR	6

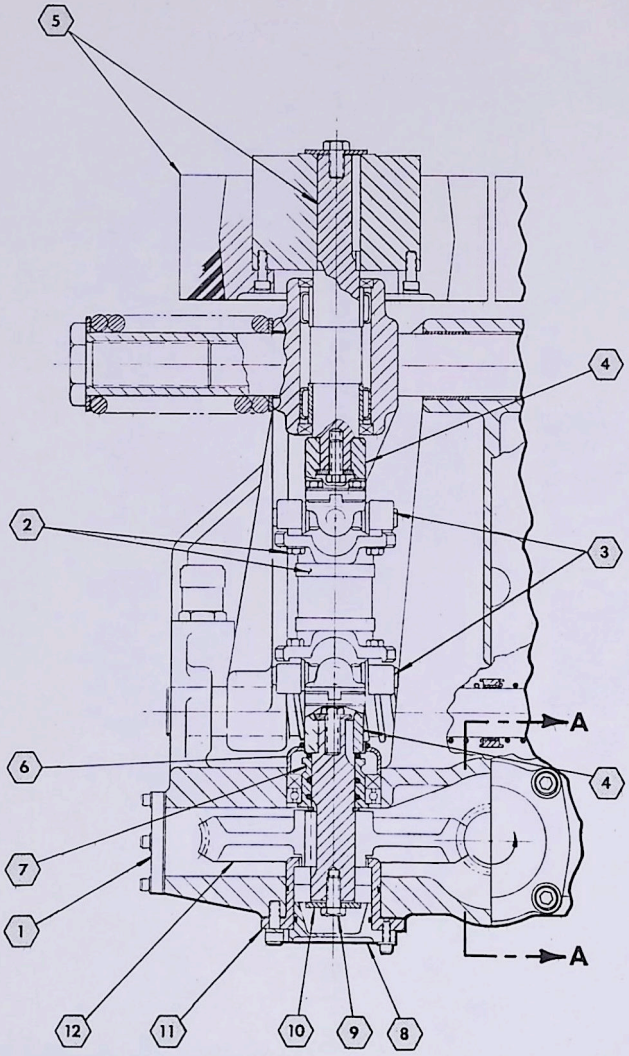
DWG. OM 1400 DRIVE UNIT ASSEMBLY, MARK IV SHEET 2 OF 3

ITEM	WDP NO.	PART NO.	DESCRIPTION		QTY.
39.		107KRD	BEARING, RADIAL	MRC	12
40.		NTHA03258	BEARING, ROLLER (TORRINGTON)		2
41.		OM-1432	SHIELD, SHAFT COLLAR		6
42.		50302S	SEAL	NATIONAL	6
43.		50045S	SEAL	NATIONAL	1
44.		40059	SEAL	NATIONAL	12
45.		K21620	SHIM, .020 THK	TIMKEN	2
46.		K21607	SHIM, .007 THK	TIMKEN	6
47.		K21605	SHIM, .005 THK	TIMKEN	6
48.		K21220	SHIM, .020 THK	TIMKEN	6
49.		K21207	SHIM, .007 THK	TIMKEN	18
50.		K21205	SHIM, .005 THK	TIMKEN	18
51.		H9004-1	LORD MOUNT	LORD	3
52.		4016	COVER, JOINT (DODGE)		1
53.		FB4016	COUPLING, 1 1/8 X 1 1/8 BORES W/KWY. (DODGE)		1
54.		MG-600	CLUTCH, 1.250 BORE, 1/4 X 1/8 KEYWAY	MORSE [4]	6
55.			MOTOR (DRIVE)	[3]	1
56.		2-239C557-7	O'RING	PARKER	2
57.		2-139C557-7	O'RING	PARKER	6
58.		2-40C557-7	O'RING	PARKER	6
59.		2-220C557-7	O'RING	PARKER	18
60.		357	SPRING	CALIF. SPRING [6]	4
61.		NO. 4112	OIL GAGE, (STYLE DW-30)	GITS BROS.	2
62.					
63.					
64.		A-854	BREATHER	TEDECO	2
65.			PLUG, HEX SOC, 1/8-27 DRYSEAL	[8]	6
66.		52-043-250-1750			
67.					
68.		5100-137H	RING, RETAINING	TRUARC	6
69.		5100-200H	RING, RETAINING	TRUARC	2
70.					
71.		1/4-20 X 7/8	BOLT, SOC HD		68
72.		3/8-16 X 1 3/8	BOLT, SOC HD		24
73.		7/16-20 X 1	BOLT, HEX HD, FULL THREAD		12
74.		1/2-13 X 1 1/2	BOLT, SOC HD		8
75.		1/2-20 X 7/8	BOLT, HEX HD, FULL THREAD		12
76.					

DWG. OM 1400 DRIVE UNIT ASSEMBLY, MARK IV SHEET 3 OF 3

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
77.		5/16-24 X 1	BOLT, SOC HD	36
78.		AN16-71A	BOLT, HEX HD, 1"-14 X 6" GRIP	3
79.		AN6-17A	BOLT, HEX HD, 3/8-24 X 1 5/16 GRIP	4
80.		3/8-16 X 3/4	SET SCREW, CONE PT., HEX SOC	2
81.		AN365-164	NUT, HEX, S.L., 1"-14 ESNA 52NE 164	3
82.		AN365-624	NUT, HEX, S.L., 3/8-24 ESNA 52NE 064	4
83.		AN970-8	WASHER, FLAT, WOOD SIZE, 1/2 DIA	6
84.		3/8 DIA	WASHER, SPLIT LOCK HIGH COLLAR (SOC HD)	24
85.		AN936A416	WASHER, LOCK, INT. TOOTH, 1/4 DIA	68
86.		AN960-816	WASHER, FLAT, 1/2 DIA	36
87.				
88.		AN970-7	WASHER, FLAT, WOOD SIZE, 7/16 DIA	6
89.		AN960-616	WASHER, FLAT, 3/8 DIA	8
90.			NUT, LOCK LOCTITE [13]	A/R
91.			BEARING MOUNT LOCTITE [13]	A/R
92.		GRADE N	LOCQUIC PRIMER LOCTITE [13]	A/R
93.			KEY FIT LOCTITE [13]	A/R
94.		GRADE AV	SEALANT LOCTITE [13]	A/R
95.		1/4 X 1.38 LG	KEY, SQUARE, 4130 STL	2
96.				
97.		3/8 X 1 11/16 LG	KEY, SQUARE, 4130 STL	6
98.		1/4 X 3" LG	KEY, SQUARE, 4130 STL	6
99.				
100.				
101.		1/2-14 NPT	PLUG, PIPE, HEX SOC	2
102.				
103.		1/2 DIA	WASHER, SPLIT LOCK HIGH COLLAR (SOC HD)	8
104.			WASHER, SHIM, .38 I.D. X 2.00 O.D. X	
			.010-.030 THK [14]	A/R
105.				
106.				
107.		AN365-820	NUT, HEX, S.L., 1/2-20 ESNA 52NE 080	20
108.				
109.		NO. 8	EYE BOLT WILLIAMS VULCAN	3
110.		1/2-20 X 1 3/4	BOLT, SOC HD	8
111.				
112.				
113.		2-328C-557-7	O'RING PARKER	6

DRIVE UNIT DISASSEMBLY PROCEDURE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DRIVE UNIT ASSEMBLY PROCEDURE

CAUTION: THE FOLLOWING ASSEMBLY PROCEDURE MUST BE FOLLOWED PRECISELY. IMPROPER ALIGNMENT OF WORM AND GEAR WILL RESULT IN SEVERE DAMAGE TO THE DRIVE UNIT.

2.1 POSITION MAIN SHAFT WITH WORM AND BEARINGS (1) INTO CASE. TEMPORARILY INSTALL BOTH END WORM CAP ASSEMBLIES (2)(3) PER DETAIL B & C OM-1440 PAGE 51.
OMIT SHIMS AT THIS TIME AND SECURE WORM CAPS WITH TWO SCREWS EACH (4) AS NOT TO DISTURB POSITION OF WORM DURING CHECK OF WORM GEAR CENTERING.

2.2 SET WORM GEAR (5) IN POSITION. INSTALL RETAINING RING (6) ONTO SHAFT (7). POSITION KEY (8) INTO SHAFT AND PRESS INTO WORM GEAR FROM TOP.

2.3 INSTALL GEAR SHAFT COLLAR (9) AFTER PROPER SUPPORT OF WORM GEAR (WITH BEARING, SEAL AND 'O' RINGS IN POSITION) ONTO SHAFT (7).

2.4 TEMPORARILY INSTALL LOWER BEARING HOUSING (10) (WITH BEARINGS PRESSED IN PLACE) ONTO SHAFT. INSTALL AND TIGHTEN WASHER (11) AND SCREW (12). INSTALL TWO SCREWS (13) INTO BEARING HOUSING (10) TO LIFT GEAR INTO POSITION.

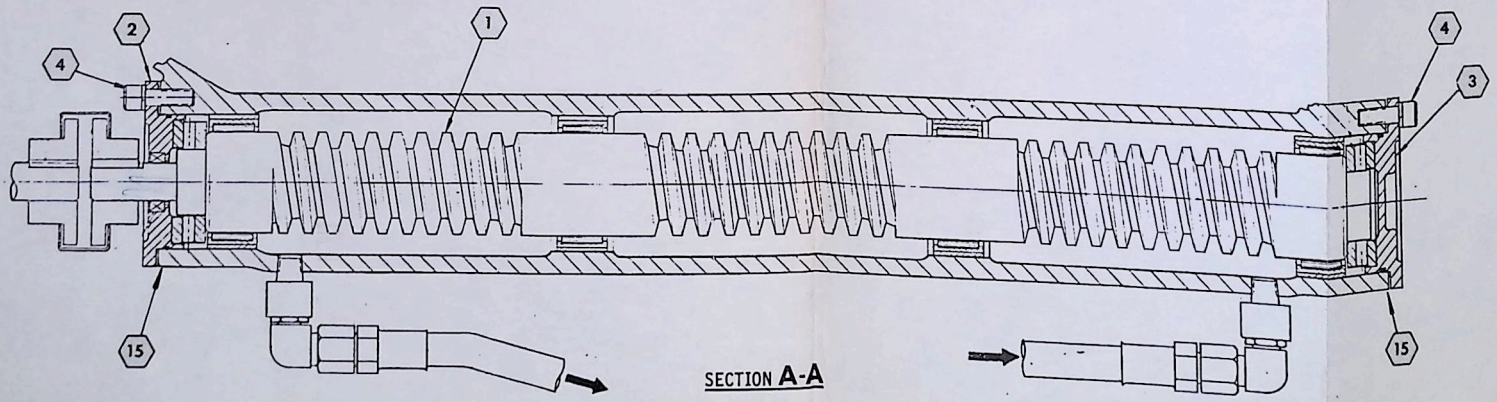
2.5 USING TWO SCREWS (13), AND SCREWS (4) OF WORM CAP ASSEMBLY, ADJUST VERTICAL PLAY OF WORN GEAR, AND HORIZONTAL PLAY OF WORM UNTIL WORM GEAR IS PERFECTLY CENTERED WITH WORM.
THIS CAN BE CHECKED BY APPLYING GRAFITE (OR SIMILAR MATERIAL) TO GEAR WHICH WILL INDICATE CONTACT AREA ON TOOTH OF WORM GEAR.

2.6 WHEN WORM AND WORM GEAR ARE CENTERED, MEASURE AMOUNT OF SHIMS (14) REQUIRED TO MAINTAIN WORM GEAR IN CORRECT POSITION.

2.7 DISASSEMBLE SCREW (12), WASHER (11), TWO SCREWS (13) AND LOWER BEARING HOUSING (10). INSERT CORRECT SHIMS ONTO HOUSING AND REASSEMBLE LOWER BEARING HOUSING AND END CAP PER DETAIL D OM-1440. PAGE 52
REPEAT THE ABOVE PROCEDURE ON REMAINING FIVE PLACES BEFORE FINAL ASSEMBLY AND ADJUSTMENT OF WORM.

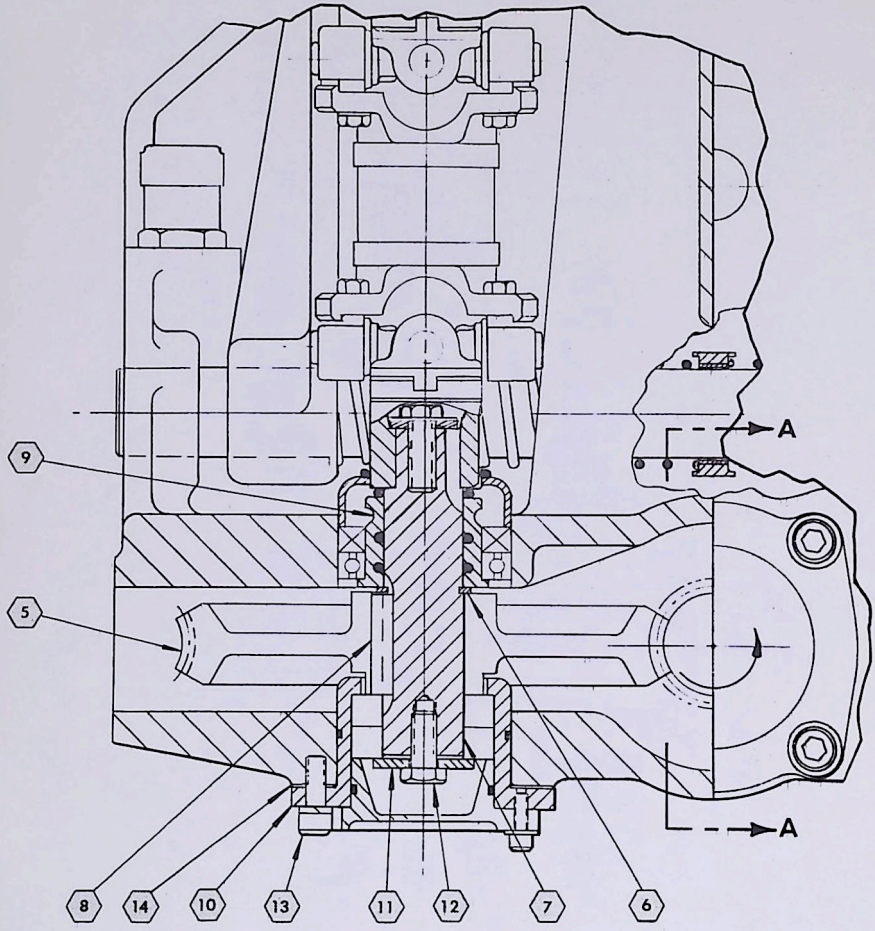
2.8 THE MAIN SHAFT ASSEMBLY (1) CAN NOW BE SECURED. MEASURE AMOUNT OF SHIMS (15) REQUIRED TO KEEP THE WORM IN ITS PRESENT CORRECT POSITION. REMOVE WORM CAPS FROM BOTH ENDS AND INSTALL PROPER SHIMS. REINSTALL END CAP ASSEMBLIES PER DETAIL B & C OM-1440 PAGE 51

NOTE: ASSEMBLIES NOT DESCRIBED IN ABOVE INSTRUCTIONS WERE CONSIDERED NON CRITICAL AND ARE REFERENCED IN OM-1440.



SECTION A-A

DRIVE UNIT ASSEMBLY PROCEDURE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DRIVE UNIT DISASSEMBLY PROCEDURE

1.1 DRAIN OIL FROM LOWER GEAR CASE AND REMOVE PORT COVERS ⟨1⟩ FROM BOTH SIDES OF HOUSING.

1.2 DIASSEMBLE COUPLING YOKE AND FOUR SCREWS ⟨2⟩ . REMOVE UPPER AND LOWER SPIDER AND BEARING ASSEMBLIES ⟨3⟩ . REMOVE END YOKE FITTINGS ⟨4⟩ . THE DRIVE WHEEL AND WORM GEAR ASSEMBLIES CAN NOW BE REMOVED.

1.3 AFTER REMOVING SEAL ⟨13⟩ THE DRIVE WHEEL ASSEMBLY WITH SHAFT ⟨5⟩ CAN BE PULLED STRAIGHT UP AND REMOVED. (FOR ASSEMBLY AND DISASSEMBLY, REFER TO "DETAIL E" OM-1440 ON PAGE 53 FOR MORE INFORMATION.

1.4 TO DISASSEMBLE WORM GEAR ASSEMBLY, REMOVE COLLAR SHIELD AND 'O' RING ⟨6⟩. REMOVE COLLAR ⟨7⟩ WITH TOP SEAL AND BEARING. PRIOR TO REMOVING MAIN SHAFT, DISASSEMBLE LOWER HOUSING CAP ⟨8⟩ , REMOVE SCREW ⟨9⟩ , WASHER ⟨10⟩ AND LOWER BEARING HOUSING ⟨11⟩ WITH BEARINGS. THE SHAFT CAN NOW BE PRESSED UPWARD OUT OF GEAR. REMOVE WORM GEAR ⟨12⟩. REPEAT THE ENTIRE ABOVE PROCEDURE FOR THE REMAINING FIVE PLACES.

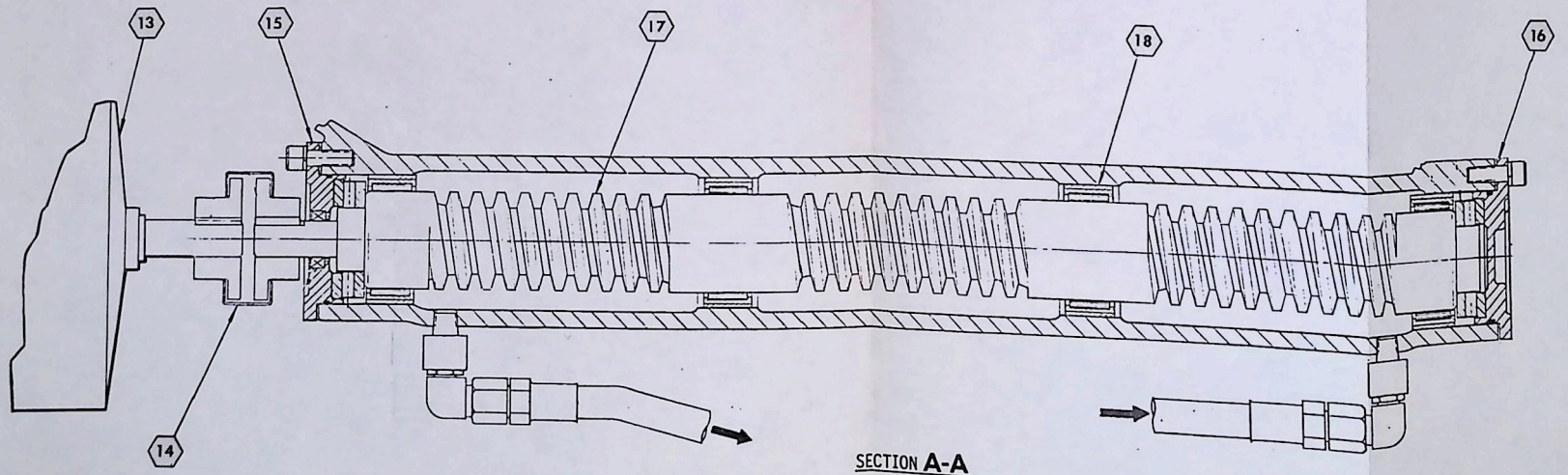
1.5 PRIOR TO DISASSEMBLY OF MAIN SHAFT AND WORM ASSEMBLY, REMOVE MOTOR ⟨13⟩ AND COUPLING ⟨14⟩.

1.6 DISASSEMBLE WORM CAP ASSEMBLIES ⟨15⟩ ⟨16⟩ .

REMOVE MAIN SHAFT ASSEMBLY ⟨17⟩ . (RADIAL BEARINGS ⟨18⟩ ARE PRESSED ONTO WORMS.

1.7 CAUTION: IMPROPER ASSEMBLY WILL RESULT IN SEVERE DAMAGE TO DRIVE UNIT. PLEASE REFER TO "DRIVE UNIT ASSEMBLY PROCEDURE" ON THE FOLLOWING PAGE.

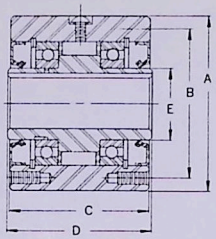
NOTE: ASSEMBLIES NOT DESCRIBED IN ABOVE INSTRUCTIONS WERE CONSIDERED NON CRITICAL AND ARE REFERENCED IN OM-1440 ON PAGE 53

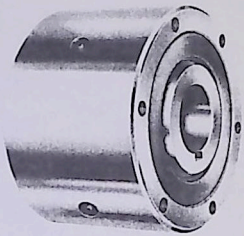


SECTION A-A

MODELS M300—M700

These are ball bearing clutches. All models contain precision ground M-50 Cams and high quality—high temperature lip-type seals for greatest performance in overrunning and indexing. Models MG and MI 300-700 have Dual Cam Cages. MI 300-700 Models contain stronger energizing springs and spring clips for greatest response in indexing. These clutch models are designed to mount on through shafts and are secured to the shaft by a key.





Model Number	Mode of Operation		Std. Lubrication
MG300-700	GENERAL DUTY	OVERRUNNING INDEXING BACKSTOPPING	OIL
MI 300-700	INDEXING—HIGH PERFORMANCE		OIL

Model ① Number	Torque Capacity (Lb-Ft)	Maximum Overrunning RPM Inner Race	Maximum Overrunning RPM Outer Race	Nominal Overrunning Drag (Lb-Ft)	Stock Bore Size and Keyway ②	Maximum Bore and Keyway	DIMENSIONS IN INCHES A	B	C	D	E	No. Of Tapped (Mount'g) Holes ③	Thread Size	Usable Thread Depth	Oil Hole Size	Lube ④	Approx. Weight (Lb.)	List Price Stock Bore	Net Price Non-Stock Bore w/Key ⑤
MG-300 MI-300	230	2900 —	800 —	.17	.500 ½ x ⅛ .625 ⅝ x ⅛ .750 ¾ x ⅛	.750 ¾ x 3/32	3.000 2.998	2⅞	2⅞	2½	1¼	4	⅜–24	½	¼–28	Oil	4	$155.00	$25.00
MG-400 MI-400	400	2700 —	800 —	.21	.625 ⅝ x ⅛ .750 ¾ x 3/16 .875 ⅞ x 3/16	.875 ⅞ x 3/16	3.500 3.498	2¾	2¾	2¾	1¼	4	⅜–24	½	¼–28	Oil	6	175.00	25.00
MG-500 MI-500	1175	2400 —	750 —	.38	.875 ⅞ x 3/16 1.000 1 x ¼ 1.125 1⅛ x ¼ 1.250 1¼ x ¼	1.312 1⅜ x 5/16	4.250 4.248	3½	3½	3½	1¼	4	½–24	⅝	½–28	Oil	11	225.00	35.00
MG-600 MI-600	2250	2100 —	700 —	.63	1.250 1¼ x ⅛ 1.375 1⅜ x 5/16 1.500 1½ x ⅜ 1.625 1⅝ x ⅜ 1.750 1¾ x ⅜ 2.000 2 x ½	2.000 1⅞ x ½	5.375 5.373	4¼	3½	3¾	2¼	6	½–24	⅝	½–28	Oil	19	280.00	35.00
MG-700 MI-700	4300	1500 —	400 —	1.3	2.000 2 x ½ 2.250 2¼ x ½ 2.500 2½ x ⅝ 2.750 2¾ x ⅝	2.937 2¾ x ⅝	7.125 7.123	6½	6⅞	5	4	8	¾–24	¾	½–28	Oil	43	560.00	35.00

① Models MO-300 through 700 have slinger type seals, and are available from factory at no additional cost. This model is for overrunning applications where minimum drag is required and should be used only in clean, dust free areas.

② To minimize critical stresses in keyway area of inner race, clutch keyways have radius in corners; a matching key is furnished with each clutch.

③ Mounting holes are equally spaced on all models except model 700 which has 6 equally spaced mounting holes plus two extra holes at 180°.

④ Grease lubrication for models MG and MI 300-700 is available from factory at no additional cost.

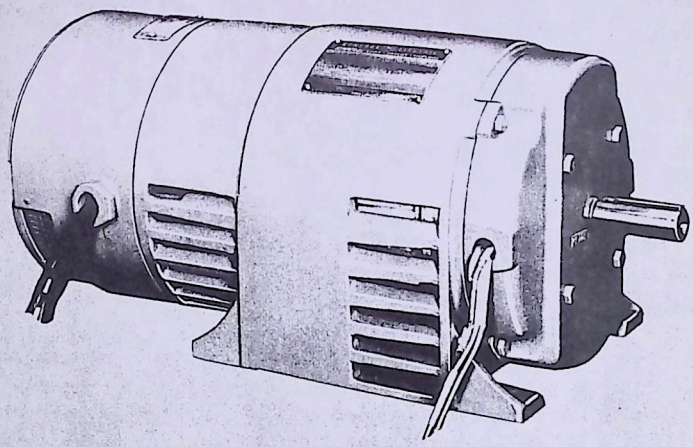
⑤ Stock bore sizes have hardened inner races and cannot be reworked. Non-stock bores with keyways can be furnished at an additional net charge to be added once per order of identical units (same clutch and bore size).

INSTRUCTIONS

KINATROL® speed variator

EDDY CURRENT COUPLING ROTATING EQUIPMENT

1–7½ HP AT 1800 RPM



GENERAL ELECTRIC

CONTENTS

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

KINATROL EDDY CURRENT COUPLING ROTATING EQUIPMENT

1–7½ HP AT 1800 RPM

These instructions provide information on the handling, installation, operation, and maintenance of Kinatrol Eddy Current Coupling rotating equipment. Instructions pertaining to controls and integral gears are covered separately. Questions relating to special operating conditions should be referred to your General Electric sales representative.

DESCRIPTION

An eddy current coupling is an electrical machine which transmits torque from a motor to a load at a controlled-adjustable speed. It is called an "eddy current" coupling because torque is transmitted by interaction of flux from magnetic poles and the eddy currents that are induced in a solid-iron drum by this flux.

BASIC DRIVE UNIT

Figure 1 shows a typical eddy current coupling drive unit with an integral induction motor. The drum, driven by the motor, turns at a constant speed; while the pole structure, attached to the output shaft, turns at a slower speed determined by the field strength of the magnetic poles. The speed of the output shaft is thus controlled by the current supplied to the field winding.

INTEGRAL A-C TACHOMETER GENERATOR

The integral tachometer shown in Fig. 1 as (15) and (16) generates an a-c voltage signal which is proportional to speed. This a-c voltage is available for speed indication purposes and for a regulator feedback signal.

OPERATION

INITIAL START-UP

Start the a-c motor and check the direction of rotation. Air-cooled Kinatrol drive units are designed for rotation in either direction as required by the application. The direction of rotation may be changed on conventional three-phase motors by interchanging any two line leads, or in two-phase motors by interchanging leads T_1 and T_3. Check the coupling for excessive vibration. Excitation can now be applied to the coupling. For initial set-up and adjustment of the regulator, consult the appropriate instruction books.

MAINTENANCE

INSPECTION

Inspect the Kinatrol Coupling at regular intervals for cleanliness, free flow of ventilating air, noisy operation, and excessive vibration.

The factory vibration limit is 0.002-in. displacement on the bearing housings. Excessive vibration can result from inadequate rigidity of the mounting vibration transmitted from other machinery, misalignment of the coupling and the load, or a faulty bearing. The cause should be determined and corrected to avoid the possibility of damage and shutdown.

BEARINGS AND LUBRICATION

The double-shielded bearings used in these machines have been lubricated by the manufacturer for normal-bearing life. Their life is extended by the supply of additional lubricant in the external grease cavities – this lubricant seeps, or "bleeds," through the clearances between the bearing shield and inner race.

The grease in the bearing and the grease packed in the external cavity have each been carefully selected to give maximum bearing life in this application and for this type of construction.

All replacement bearings should be obtained from the General Electric Company.

When bearings are replaced, the grease cavity should be approximately two-thirds full of grease after the machine has been assembled. Avoid plac-

ing too much grease in the blind cavity next to the pilot bearing (8) (see Fig. 1).

Inspect the pilot-bearing cartridge (10) Fig. 1, for nicks and scratches. The rubber "O" ring (11) should be replaced if it is cut or damaged in any way. This assembly prevents the lubricant from leaking out of the pilot bearing (8).

Use General Electric grease Spec. D6A2C5 in these cavities. Alvania No. 2 (Shell) and Atlantic 54 are greases which meet this specification.

3 years is the maintenance periods during which it is recommended that the grease cavities be repacked, and bearings checked for roughness and other signs of wear.

CLEANING THE MOTOR

The interior and exterior of the motor should be kept free from dirt, oil, and grease. Assembled motors may be blown out with dry, compressed air of moderate pressure. If possible, clean by suction because of the danger of moisture in compressed air, and blowing metal chips etc., into the insulation. Motors operating in dirty places should be disassembled and cleaned periodically.

Whenever the motor is disassembled, the windings should be given a thorough inspection and the insulation cleaned, as may be necessary. The inspection should cover the condition of the windings and insulation, the tightness of the windings in the slots, and the effectiveness of the supporting ties as evidenced by the rigidity of the coil end turns.

The cleaning fluid used to clean the coils must have grease-dissolving properties, but must not affect the electrical insulation or varnish. Many cleaning fluids in common use, which are suitable with respect to the foregoing, may be extremely hazardous because of their toxicity, inflammability, or both. The following mixture is a suitable solvent for cleaning windings, bearings, and the bearing housing of dripproof and totally enclosed fan-cooled motors but is not to be used for cleaning Polyseal* motor windings:

25 percent methylene-chloride (if unavailable, use trichlorethylene)

70 percent Stoddard solvent (petroleum spirits)

5 percent perchlorethylene

WARNING: *Solvents may be toxic and/or inflammable and therefore hazardous to health and life. To avoid serious or fatal injury from toxic solvent, adequately ventilate the cleaning area, avoid inhalation of solvent fumes and prevent direct contact of the solvent on the skin of the cleaning personnel. Do not expose solvents to flame or sparks.*

For best results, after cleaning, the windings of the dripproof and totally-enclosed fan-cooled motors should be varnished with an air-drying varnish and then covered with G-E Dri-Film* water repellent. More than one coat of varnish may be required, depending upon the condition of the winding.

The General Electric Company can furnish insulating varnish best suited for definite operating conditions. Consult the nearest General Electric sales office.

To clean Polyseal motor windings, use a solution of soap or detergent and warm water. DO NOT use any type of cleaning solvent and DO NOT apply varnish to the windings.

DISASSEMBLY OF BASIC DRIVE UNIT

For ease of disassembly and to minimize the possibility of damage to parts, the Kinatrol coupling should be securely held in a vertical position (output-drive shaft up) by placing the motor end on a ring or similar device. If it is necessary to disassemble in the horizontal position, care should be taken to support the heavy weight of the pole and field assembly.

A. To completely disassemble the coupling, refer to Fig. 1 and proceed as follows:

1. Remove the coupling end shield (2) with the tachometer-stator assembly (15) and field assembly (5) attached by removing the four 5/16-in. outer bolts holding the end shield to the frame (1). The drive bearing (19) is now exposed. Note, the field assembly should not be removed from the end shield unless it is necessary to replace it. If it is necessary to replace the field assembly or tachometer-stator assembly, care should be exercised in threading the leads (17, 18) through the end-shield opening.

2. Withdraw the drive shaft (13) with the core and pole assembly (3) attached. It is recommended that an eyebolt be screwed into the end of the shaft and then lifted with a crane. The pilot bearing (8) is now exposed in its cartridge (10).

3. Remove the pilot bearing (8) by pulling on its cartridge (10). When the cartridge is removed, force is necessarily applied to the outer race of the pilot bearing by the cartridge. The bearing should be replaced as it may have been damaged.

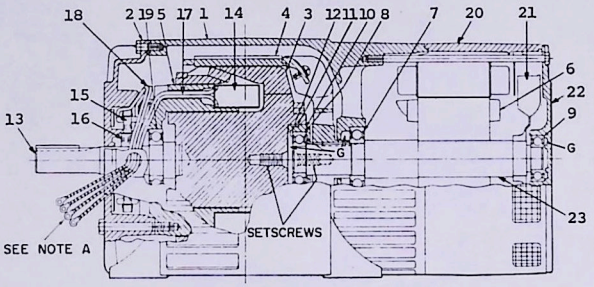


Fig. 1. Coupling with dripproof motor

NOMENCLATURE

1 Coupling frame
2 Coupling end shield
3 Core and pole assembly
4 Drum
5 Field assembly
6 Motor rotor
7 Motor inboard ball bearing, Fig. 1 and 2, intermediate ball bearing, Fig. 3
8 Pilot ball bearing
9 Motor outboard ball bearing, Fig. 1 and 2 End-shield ball bearing, Fig, 3
10 Pilot bearing cartridge
11 "O"Ring
12 Cartridge snap ring
13 Output (drive) shaft
14 Coupling field coil
15 Stator, a-c tachometer
16 Rotor, a-c tachometer
17 Leads, field coil
18 Leads, a-c tachometer
19 Bearing, output (drive) shaft
20 Stator, motor
21 Fan, motor
22 End shield, motor
23 Shaft, motor

RECOMMENDED SPARE PARTS, BASIC DRIVE

7 Motor inboard ball bearing
8 Pilot ball bearing
9 Motor end-shield bearing
19 Output shaft ball bearing

G. Denotes location of grease cavities.
Note A: Leads extend 6 in. out left-hand side facing shaft extension unless otherwise specified.

4. Remove the drum (4), using a wheel-type puller. Two threaded holes are provided in the drum hub for this purpose.

B. To remove the motor stator without disassembling the coupling, proceed as follows:

1. DRIPPROOF MOTOR (Fig. 1):

a. Remove the motor end-shield bolts and the motor end shield (22).

b. Remove the motor bearing (9) with a wheel-type puller applying force to the inner race. If pulling is done on the outer race, replace the bearing as it may have been damaged.

d. Remove the stator (20) using care to avoid damage to the motor winding or leads.

REASSEMBLY

When reassembling a Kinatrol coupling, observe the following special precautions:

Bearings

If a bearing has been removed from a shaft by pulling on the outer race, replace the bearing, as it may run rough and soon fail.

The pilot bearing (8) should be assembled into its cartridge (10) by pressing on the outer race. The cartridge assembly should then be assembled onto the shaft. The open side of the cartridge must be toward the drive end, as shown in Fig. 1

Use the right bearing, the right grease, and the right quantity of grease. (See Bearings and Lubrication.) PAGE 61 & 62

If a bearing is driven or pressed on a shaft, the force should be exerted only on the inner race.

The "O" ring (part number 11 in Figs. 1 should be replaced if it is cut or damaged in any way. The "O" ring keeps the lubricant from leaking out of the grease cavities.

Drum

It is important that the drum run true after it has been reassembled on the shaft, otherwise objectionable vibration and even rubbing of the drum on the poles may result. *Do not press on the drum on the shaft.* Shrink the drum hub on the shaft by heating the whole drum to approximately 170C (338F).

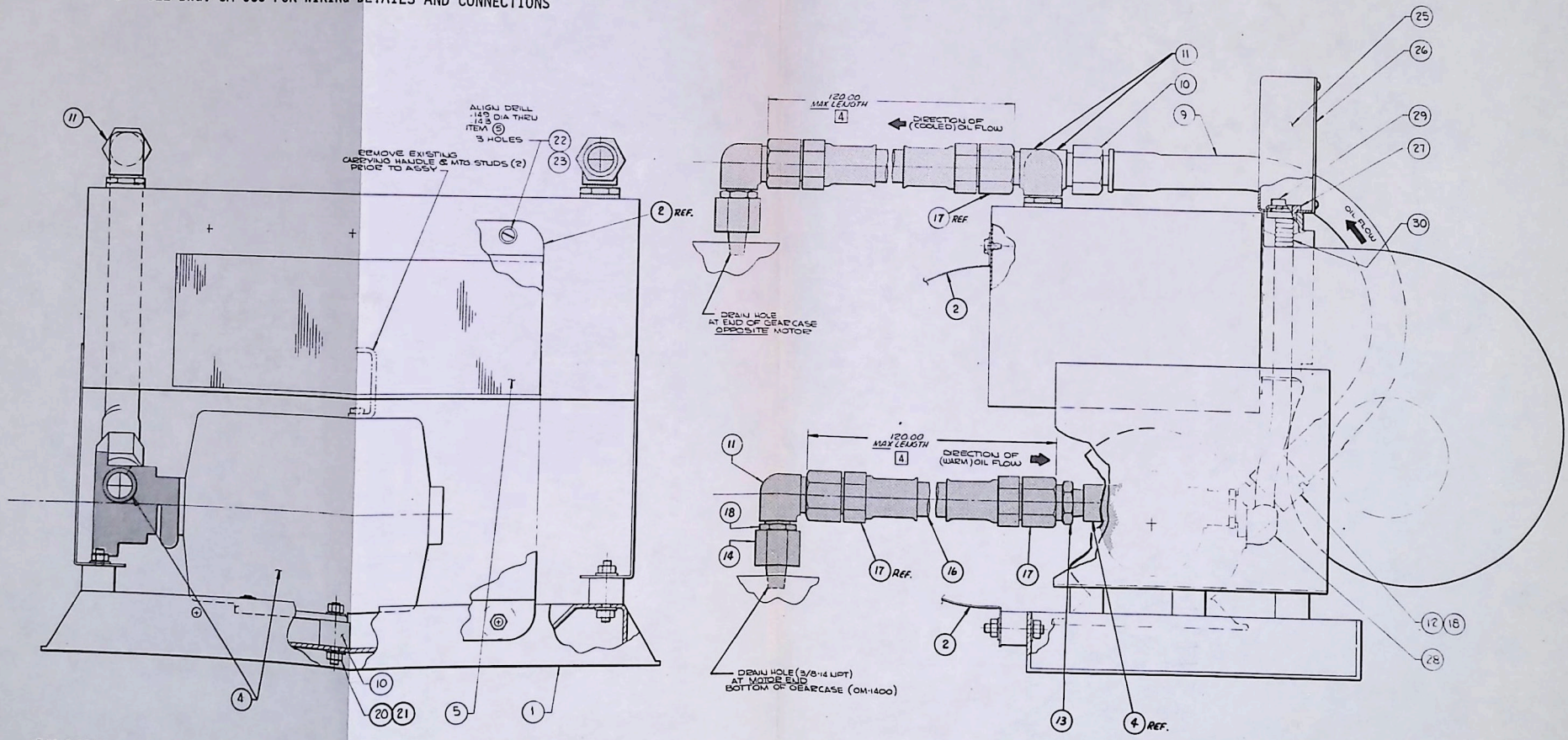
After reassembling the frame, use a dial indicator to check the runout of the drum inside diameter. Limits vary with coupling size, but, in general, must be less than 0.005-in. total indicator reading.

When assembling the end shield, make certain that the tachometer and the field leads cannot become tangled with the rotating parts.

When reassembly has been completed, check the motor and the coupling shafts to ascertain that each has endplay and turns freely.

NOTE:

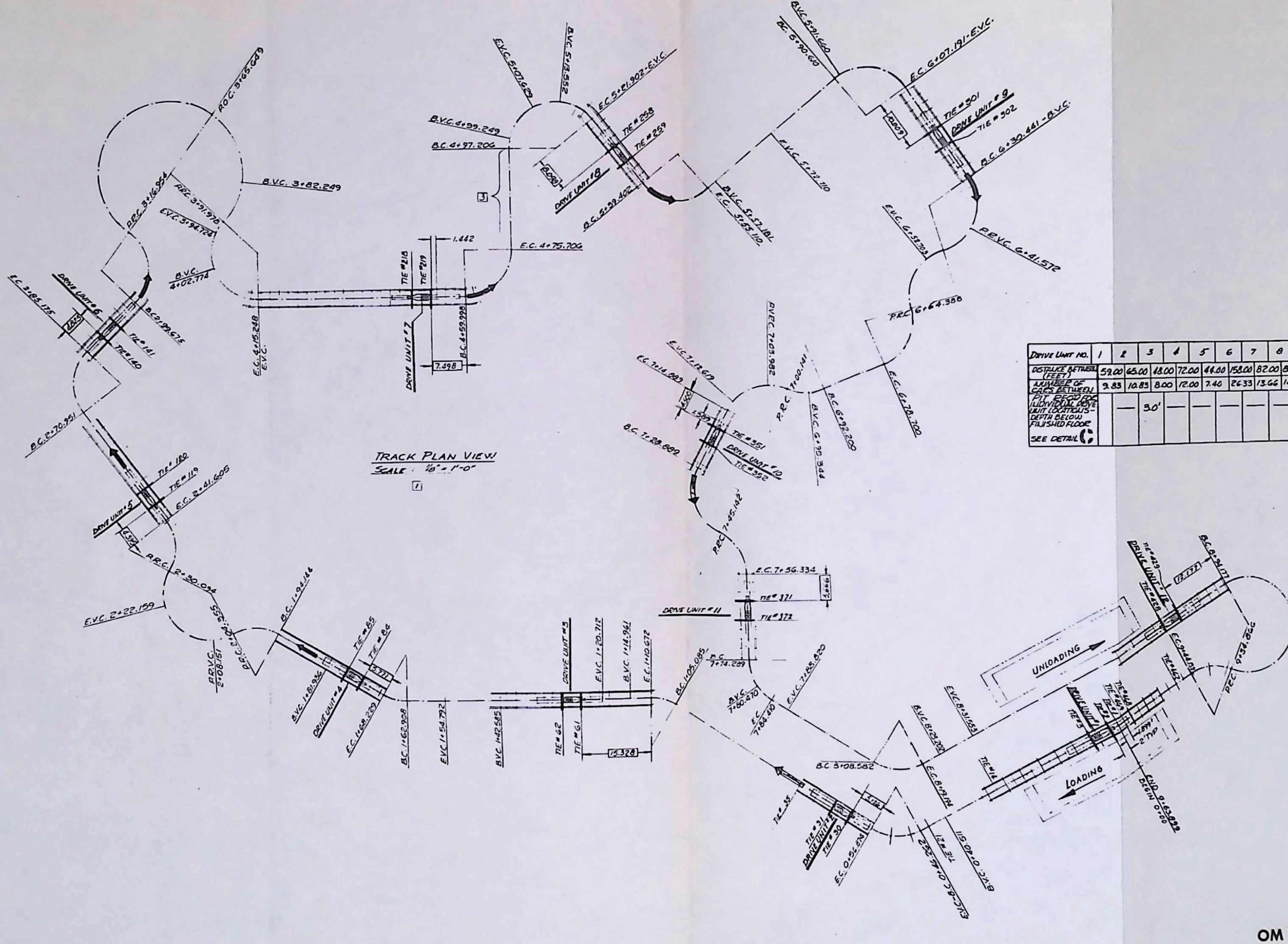
1. ALL HARDWARE TO BE STAINLESS OR CAD PLATED STEEL AS PURCHASED.
2. SOURCE: ITT JABSCO, COSTA MESA, CALIF.
3. SOURCE: HAYDEN TRANS-COOLER CO., RIALTO, CALIF.
4. OIL COOLER ASSY SHOULD BE MOUNTED AS CLOSE AS POSSIBLE TO DRIVE UNIT (OM-1400); WITH OIL PUMP INLET AT APPROX. SAME LEVEL AS DRIVE UNIT OIL LEVEL. SEE OM-1400 FOR INSTALLATION DETAILS.
5. SEE DWG. OM-606 FOR WIRING DETAILS AND CONNECTIONS



OM-1401
OIL COOLER ASSEMBLY

DWG. OM-1401 OIL COOLER ASSEMBLY

ITEM	WDP NO.	PART NO.	DESCRIPTION		QTY.
1.		OM-1404	BRACKET, COOLER		1
2.		OM-1431	DEFLECTOR, COOLER		1
3.					
4.		11810-37, 1/2 CAM	PUMP, ELECTRIC 2		1
5.		TT12-37	TEMP-TROLLER 3		1
6.					
7.		J-4624-14	FLEX-BOLT	LORD	12
8.					
9.		831-12	HOSE, PUSH-LOK, 16" LG	PARKER	1
10.		30682-12-12B	COUPLING, PUSH-LOK		2
11.		2103-8-12	ELBOW, ADAPTER 90°		4
12.		3103-8-12	ELBOW, ADAPTER 45°		1
13.		0103-8-12	STEM, ADAPTER		1
14.		0201-8-6	REDUCER	PARKER	2
15.					
16.		3130-12	HOSE	SYNFLEX 4	A/R
17.		3903-12552	COUPLING, SWIVEL	SYNFLEX	4
18.		1/2-14 NPT	NUT, SEALING	TRU-SEAL	5
19.					
20.		10000	NUT, ESLOK, 1/4-20	ESNA	24
21.		SAE	WASHER, FLAT, 1/4		24
22.		#10	SCREW, SELF TAPPING, TYPE A 3/8 LG		3
23.		AN-936-A10	WASHER, LOCK, INT. TOOTH #10		3
24.					
25.		4-S-1/2	BOX, JUNCTION	BOWERS	1
26.		400	COVER, BOX	BOWERS	1
27.		842	NIPPLE, CHASE	T & B	1
28.		3/8	SCREW IN FLEXIBLE CONNECTOR 90°		1
29.		3/8	SCREW IN FLEXIBLE CONNECTOR, STRAIGHT		1
30.		3/8	CONDUIT, FLEXIBLE, ELECTRICAL		A/R

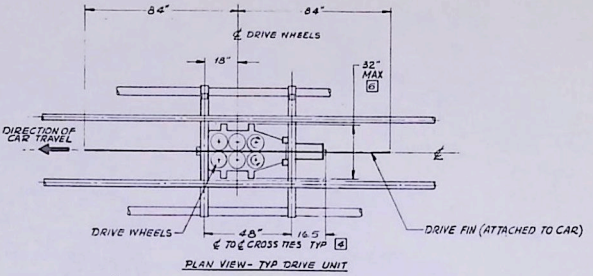


DRIVE UNIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	1
DISTANCE BETWEEN (FEET)	59.00	65.00	48.00	72.00	44.00	158.00	82.00	88.00	101.389	42.611	116.00	57.899	
NUMBER OF CARS BETWEEN	9.83	10.83	8.00	12.00	7.40	26.33	13.66	14.66	16.89	7.10	19.33	14.65	
PIT REQ'D FOR INDIVIDUAL DRIVE UNIT LOCATIONS - DEPTH BELOW FINISHED FLOOR SEE DETAIL C		—	3.0'	—	—	—	—	—	0.8'	1.6'	1.6'	—	—

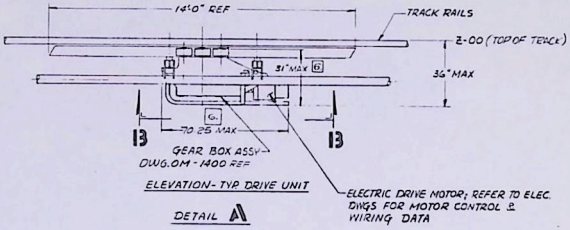
OM 1510

TRACK-DRIVE UNIT LOCATIONS AND DRIVE UNIT REMOVAL PROCEDURE

SHEET 1 OF 2

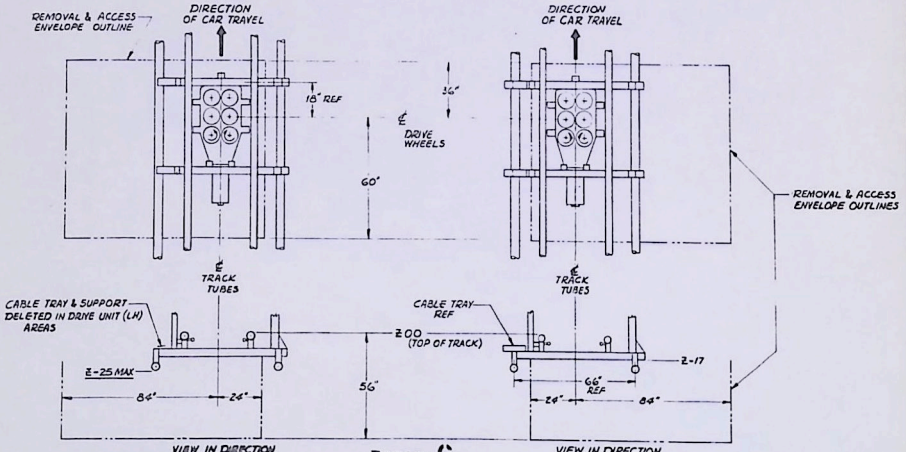


PLAN VIEW - TYP DRIVE UNIT



ELEVATION - TYP DRIVE UNIT

DETAIL A



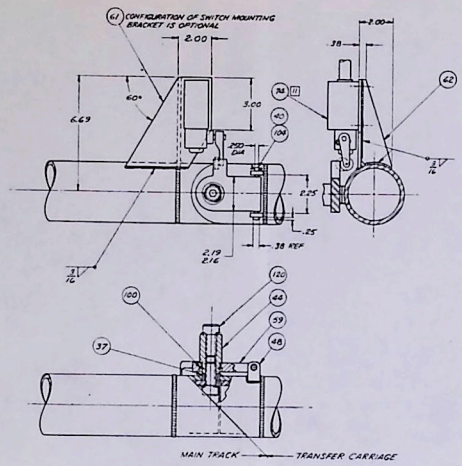
VIEW IN DIRECTION OF CAR TRAVEL

DETAIL C

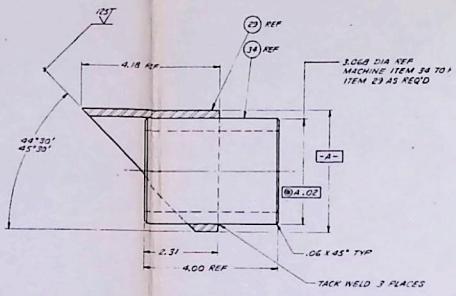
VIEW IN DIRECTION OF CAR TRAVEL

DIM SHOWN ARE MIN. REQD FOR DRIVE UNIT REMOVAL ON L.H. SIDE OF TRACK

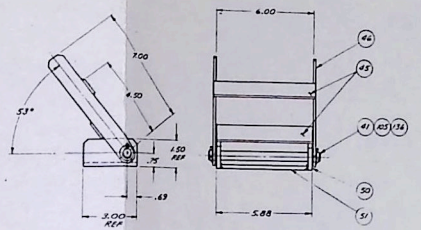
DIM SHOWN ARE MIN. REQD FOR DRIVE UNIT REMOVAL ON R.H. SIDE OF TRACK



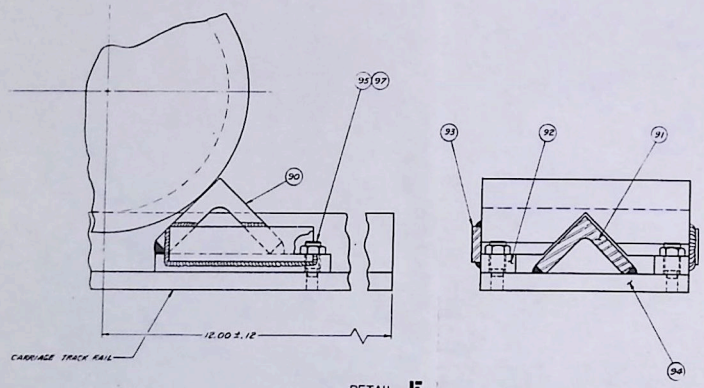
DETAIL **D**
TYP 2 PLACES
SCALE: 1/2



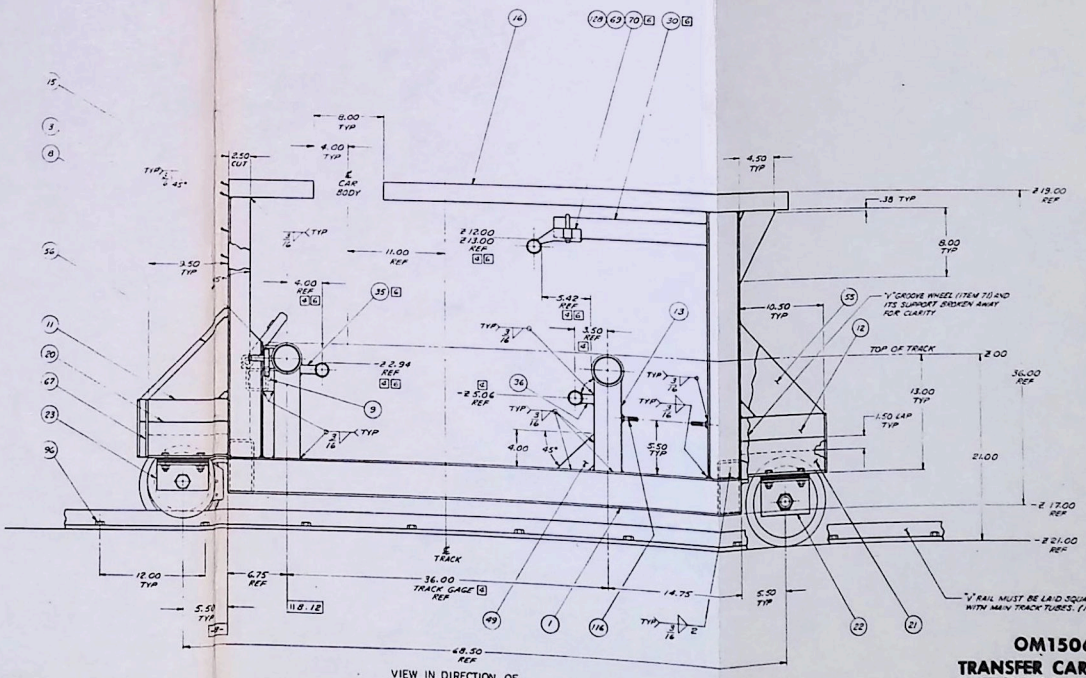
DETAIL **C**
TYP 8 PLACES



DETAIL **B**
TYP 1 PLACE

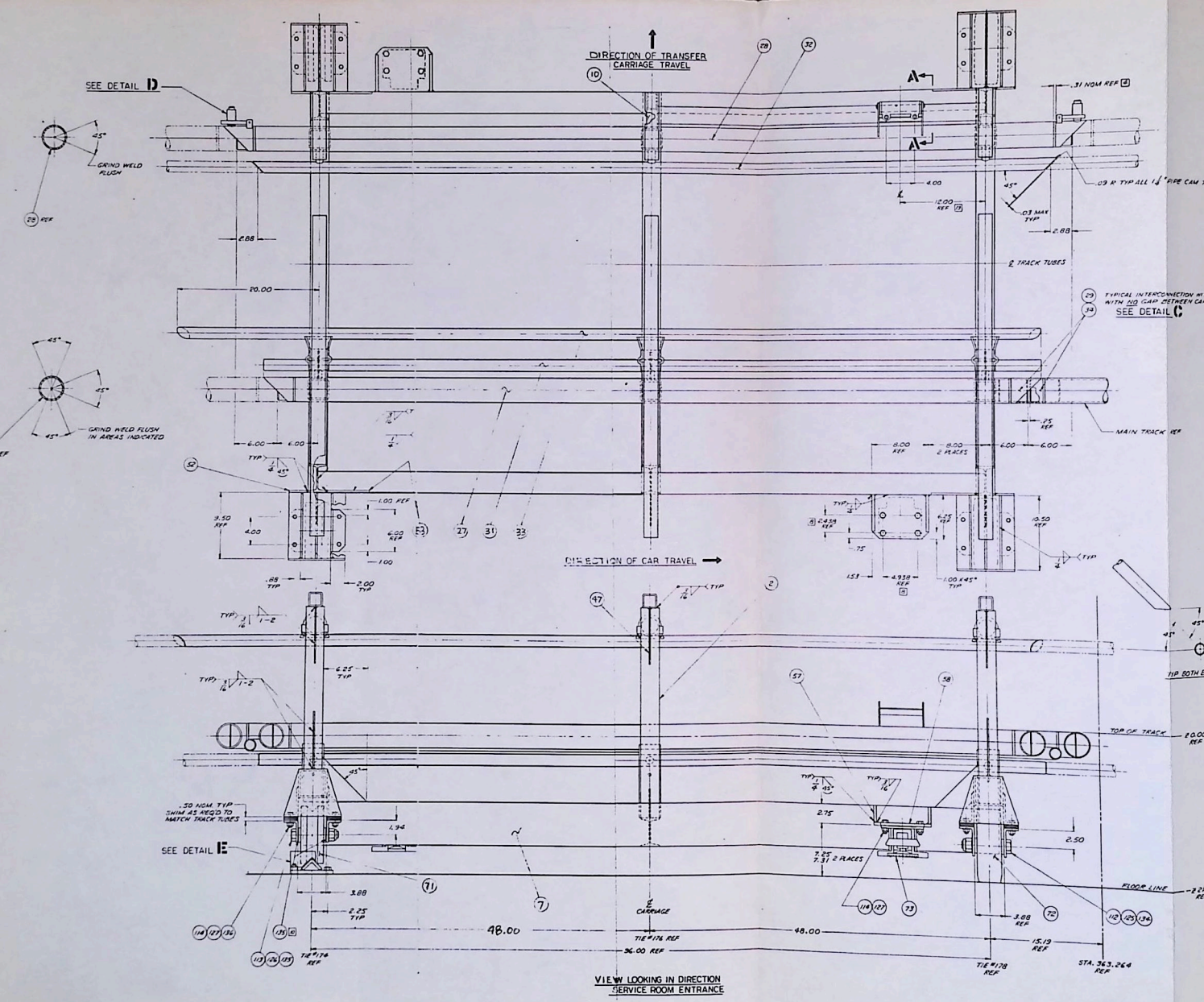


DETAIL **E**
TYP 1 PLACE



VIEW IN DIRECTION OF CAR TRAVEL

OM1506
TRANSFER CARRIAGE
SHEET 1 OF 2



SECTION A-A
ROTATED 90° CW

3. LOCATION OF CAR WHEEL CHOCK TO BE ADJUSTED SO THAT WITH CARS LOCKED IN POSITION THEY ARE EQUALIZED ON CARRIAGE.
4. DETAIL ELECTRICAL CONNECTIONS TO BE DETERMINED AT ASSY.
5. ALT: AN24-48A & AN364-428
6. ELASTIC STOP NUT CORP., UNION, N.J.
7. WALDES KOHINOOR, INC, LONG ISLAND CITY, N.Y.
8. ALLEN BRADLEY CO, MILWAUKEE, WIS.
9. AEROL CO INC, LOS ANGELES, CALIF.
10. WHEN TRANSFER CARRIAGE IS DISENGAGED FROM MAIN TRACK SYSTEM ENDS OF CAM TUBES TO BE COVERED WITH PROTECTIVE CAPS.
11. TO ADJUST SWITCH:
   A. BOTTOM (TIGHTEN) LOCKING NUT
   B. LOOSEN ONE FUEL TURN (.03 REF.)
   C. CLAMP SWITCH ARM TO SWITCH SHAFT WITH SWITCH SHAFT IN POSITION OF "CONTACTS CLOSED" AND ROLLER AGAINST ITEM 29.
12. USING ITEM 135 SHIM BETWEEN WHEEL AND SUPPORT ANGLE SO THAT WITH CARRIAGE ALIGNED WITH MAIN TRACK NO GAP EXISTS BETWEEN MAIN TRACK TUBES (ITEM 29).
13. A FINISH: STEEL COMPONENTS OF ASSYS SHALL BE SANDBLASTED OR PHOSPHATED, FOLLOWED BY THE APPLICATION OF A CATALYZED PRIMER SURFACER (CTC-57) FOLLOWED BY THE APPLICATION OF A MULTI-POLYMER CATALYZED ENAMEL (CTC-74) COLOR: DULL SMOOTH BLACK, (CTC MFG. CHEMICAL TECHNOLOGY LABS INC., BURBANK, CALIF.)
   B. BLACK ZINK CHROMATE
   C. OR EQUIV. ENVIRONMENTAL PROTECTIVE FINISH
14. FOR MOUNTING HOLES MATCH DRILL FROM PART NO. 51139 FLOOR LOCK ASSY ITEM NO. 721.
15. SEE W.E.D. DWG. NO TC-1, TC-2 & TC-3 MAUNTED HOUSE, FOR EXACT TRACK LAYOUT DETAILS.
16. SEE DWG NO. CM-1501 FOR CAM FABRICATION SUPPORT, QTY, & TIMING DETAILS.
17. ALL STEEL STRUCTURE SHALL CONFORM TO W.E.D. STANDARD DATED 12-15-66, SECTION 4.03.01.
18. TRANSFER CARRIAGE TRACK TUBES, CAM TUBES AND STOPS MUST BE POSITIONED TO MATCH CORRESPONDING TRACK TUBES, CAM TUBES, ETC. POSITIONED IN MAIN TRACK. THIS WILL REQUIRE WELDING AND OR ADJUSTMENT AT ASSY. IN MAIN TRACK. ALIGNMENT MUST BE SUCH THAT TRACK AND CAM TUBE IN FIELD ALIGNMENT MUST BE SUCH THAT TRACK AND CAM TUBE MOMENTUM DOES NOT CAUSE CAR TO ORIENTATE IN A ROUGH OR IRREGULAR WAY.
19. USE OF BAR STOCK OR PLATE IS OPTIONAL.
20. W.E.D. SPEC NO. 0099 SHALL BE USED AS SUGGESTED GUIDELINES FOR ALL WELD FABRICATIONS.
21. TOLERANCES:
   XX DIMS 0" TO 12" ±.03
   XX DIMS 12" AND ABV. ±.06
   .XX DIMS ±.02

NOTES - UNLESS OTHERWISE SPECIFIED:

DWG. TRANSFER CARRIAGE PAGE 1 OF 5

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.			4 X 7.7# X 57.50 LG. I BEAM (STL)	3
2.			4 X 7.7# X 30.00 LG. I BEAM (STL)	3
3.			4 X 7.7# X 30.00 LG. I BEAM (STL)	2
4.				
5.				
6.				
7.			6 X 3 X 1/4 X 95.81 LG. TUBING	
			(STL)	2
8.			1 ½ X 2 ½ X .120 X 29.53 LG. TUBING	
			(STL)	1
9.			1 ½ X 2 ½ X .120 X 1.25 LG. TUBING	
			(STL)	2
10.			1 ½ X 2 ½ X .120 X 2.75 LG. TUBING	
			(STL)	1
11.			4 X 4 X ¼ X 9.50 LG. TUBING (STL)	2
12.			4 X 4 X ¼ X 10.50 LG. TUBING (STL)	2
13.			3 X 3 X ¼ (LGTH. REQ'D) TUBING	
			(STL)	6
14.			2 ½ X 2 ½ X ¼ X 47.16 LG. TUBING	
			(STL)	1
15.			2 X 2 X 3/16 X 9.75 LG. TUBING (STL)	3
16.			2 X 2 X 3/16 X 46.00 LG. TUBING	
			(STL)	3
17.				
18.				
19.				
20.		(CUT FROM)	4 X 3 X ¼ X 9.50 LG. ANGLE (STL)	4
21.		(CUT FROM)	4 X 3 X ¼ X 10.50 LG. ANGLE (STL)	4
22.		(CUT FROM)	4 X 3 X ¼ X 6.00 LG. ANGLE (STL)	4
23.			3 X 2 X ¼ X 6.00 LG. ANGLE (STL)	4
24.				
25.				
26.				
27.			3" SCHED. 40 PIPE (102.75 LG.) STL	1
28.			3" SCHED. 40 PIPE (114.75 LG.) STL	1
29.			3" SCHED. 40 PIPE (4.18 LG.) STL	8
30.			2" SCHED. 40 PIPE (16.50 LG.) STL	3
31.			1 ¼" SCHED. 40 PIPE (111.75 LG.)	

DWG. TRANSFER CARRIAGE PAGE 2 OF 5

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
			(STL)	1
32.			1 ¼" SCHED. 40 PIPE (115.91 LG.)	
			(STL)	1
33.			1 ¼" SCHED. 40 PIPE (123.87 LG.)	
			(STL)	1
34.			3 1/8" O.D.X 3/8 X 4.00 LG. TUBING	
			(STL)	8
35.			1" O.D. X ¼ X (LGTH REQ'D) TUBING	
			(STL)	3
36.			1" O.D. X ¼ X (LGTH. REQ'D) TUBING	
			(STL)	3
37.			1 1/8" O.D. X 3/16 X .40 LG. TUBING	
			(STL)	2
38.				
39.				
40.		(MAKE FROM)	3/8" DIA. X 3.25 LG. PIN (STL) 17	2
41.		(MAKE FROM)	1/2" DIA. X 7.00 LG. SHAFT (STL)	1
42.				
43.				
44.		(MAKE FROM)	1 ¼" DIA. X 2.25 LG ROUND (STL)	2
45.			1/8 X 1 F.B. X 6.25 LG. (STL) 3	2
46.		(MAKE FROM)	1/8 X 1 F.B. X 7.50 LG. (STL) 3	2
47.			3/16 X 3 ½ F.B. X (LGTH. REQ'D)	
			(STL) 3	3
48.		(MAKE FROM)	1/4 x 3/4 F.B. X 1.25 LG. (STL) 3	4
49.			1/4 x 2 ½ F.B. X (LGTH. REQ'D)	
			(STL) 3	3
50.		(MAKE FROM)	1/4 X 3 F.B. X 1.50 LG. (STL) 3	2
51.			1/4 X 3 F.B. X 5.38 LG. (STL) 3	1
52.			1/4 X 3 F.B. X 6.50 LG. (STL) 3	4
53.			1/4 X 3 F.B. X (LGTH REQ'D) STL 3	4
54.				
55.			1/4 X 6 F.B. X (LGTH REQ'D) STL 3	2
56			1/4 X 6 F.B. X (LGTH REQ'D) STL 3	2
57.		(MAKE FROM)	3/8 X 8 F.B. X (LGTH REQ'D) STL 3	4
58.			3/8 X 8 F.B. X 6.25 LG. (STL) 3	2
59.		(MAKE FROM)	1/2 X 3 1/4 F.B. X 4.00 LG. (STL)	
			3	2

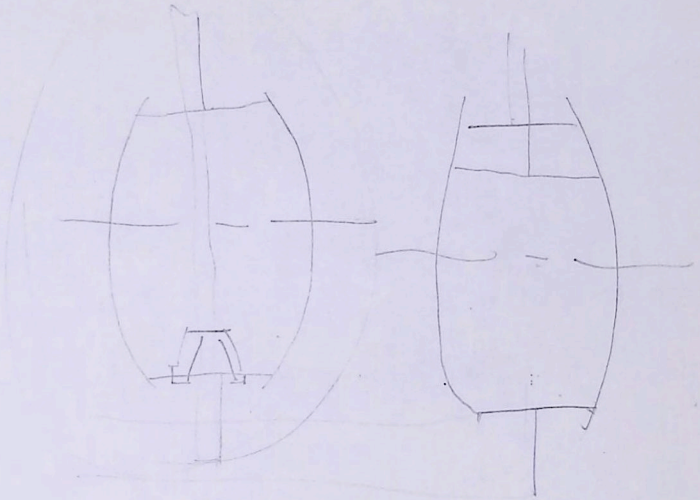
ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
60.				
61.			3/16 X 3 1/4 F.B. X (LGTH REQ'D)	
			STL. 3	2
62.			3/16 X 2 F.B. X (LGTH REQ'D) STL 3	2
63.				
64.				
65.				
66.				
67.			1/4 THK PLATE (6.50 X 8.00) STL 3	4
68.				
69.		OM-1505	"U" BOLT, ROTATION CAM 6	3
70.		OM-1504	SUPPORT, ROTATION CAM 6	3
71.		3001	WHEEL ASSY - 8" V-GROOVE 13	2
72.		ASLHD10-T-09CM	WHEEL ASSY - 10 X 3 1/4 13	2
73.		51139	FLOOR LOCK ASSY. 13	2
74.		802TA-W1	SWITCH, ELECT., ROLLER ACTION 14	2
75.				
76.				
77.				
78.				
79.				
80.				
81.				
82.				
83.				
84.				
85.				
86.				
87.				
88.				
89.				
90.			2 ½ X 2 ½ X ½ X 6.00 LG. ANGLE	
			(STL)	1
91.			2 X 2 X 3/8 X (LGTH REQ'D) ANGLE	
			(STL)	1
92.			1/2 X 1 F.B. X 5.00 LG. (STL)	2
93.			1/4 X 1 F.B. X 4.12 LG. (STL)	2
94.			1/2 X 6 F.B. X (LGTH REQ'D) STL	1

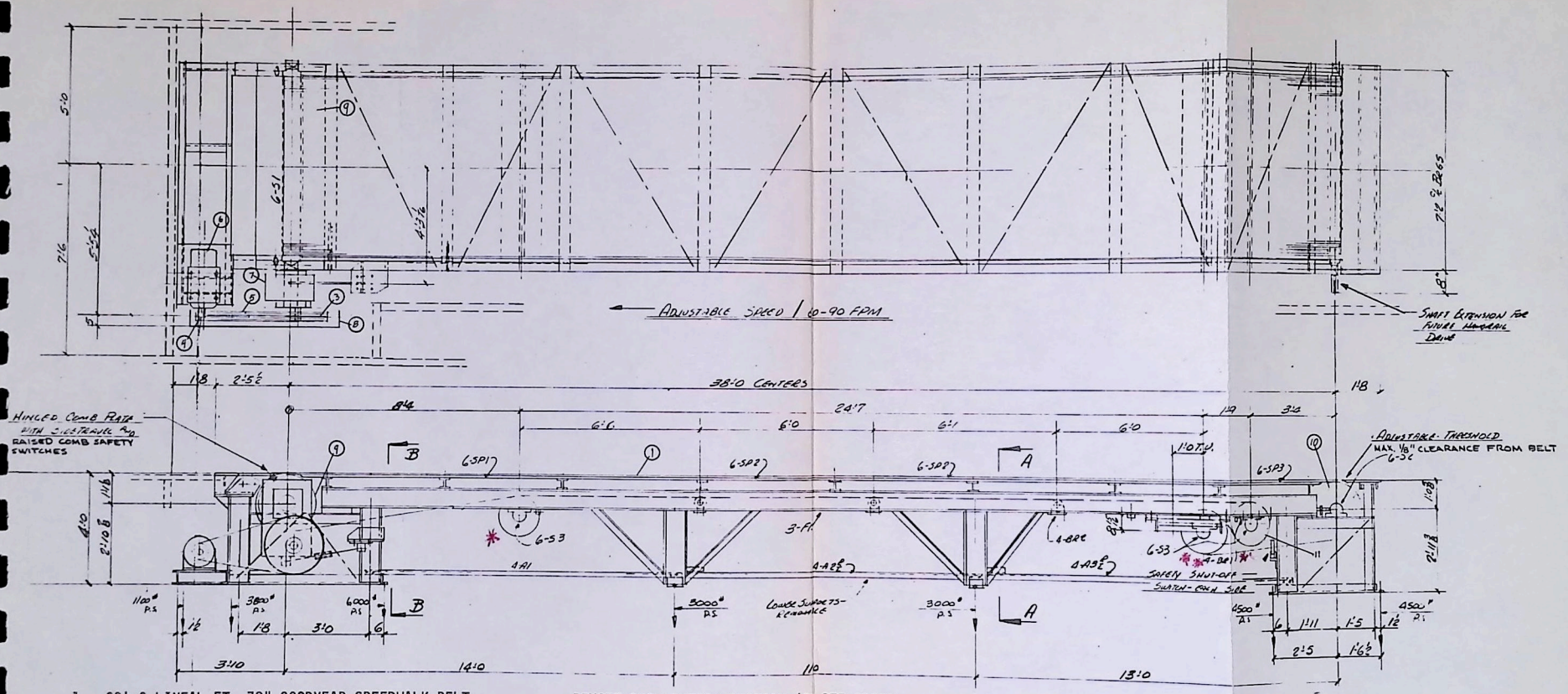
DWG. TRANSFER CARRIAGE

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
95.			SET SCREW, SCHD, DOG PT., 1/2-13 X	
			1 ¼ LG.	2
96.			BOLT & CONCRETE ANCHOR (5/8)	A/R
97.			NUT, JAM, HEX, 1/2-13 (STL)	2
98.				
99.				
00.		5160-98	RETAINING RING (TRUARC) 15	2
101.				
102.				
103.				
104.			COTTER PIN, 1/16 DIA X 3/8 LG.	
			(STL)	2
105.			COTTER PIN, 1/8 DIA X 3/4 LG.	
			(STL)	2
106.				
107.				
108.				
109.				
110.				
111.				
112.		AN18-52A	BOLT, HEX HD., 1 1/8-12 X 5 7/16	
			LG. (STL)	2
113.		AN16-47A	BOLT, HEX HD., 1-14 X 5 1/8 LG.	
			(STL)	2
114.			BOLT, HEX HD., 1/2-13 X 1 1/2 LG.	
			(STL)	24
115.			BOLT, HEX HD., 3/8-24 X 5/8 LG.	
			(STL)	2
116.			BOLT, HEX HD 3/8-16 X 1 1/2 LG.	
			(1" MIN. THD.)	6
117.				
118.				
119.				
120.			SCREW, CAP, SCHD, 5/8-11 X 1 1/4	
			LG. (STL)	4
121.				
122.				
123.				

DWG. TRANSFER CARRIAGE

ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
124.				
125.		52NTE-182	NUT, HEX, THIN, S.L., 1 1/8-12	
			(ESNA) 16	2
126.		52NTE-164	NUT, HEX, THIN, S.L., 1-14 (ESNA)	
			16	2
127.		52NE-083	NUT, HEX, S.L., 1/2-13 (ESNA) 16	24
128.			NUT, PLAIN, HEX - 3/8-24	6
129.				
130.				
131.				
132.				
133.				
134.		AN960-1816	WASHER, FLAT, 1 1/8"(STL)	1
135.		AN960-1616L	WASHER, FLAT, 1" (STL)	17
136.		AN960-816L	WASHER, FLAT, 1/2" (STL)	18
137.				
138.				
139.				



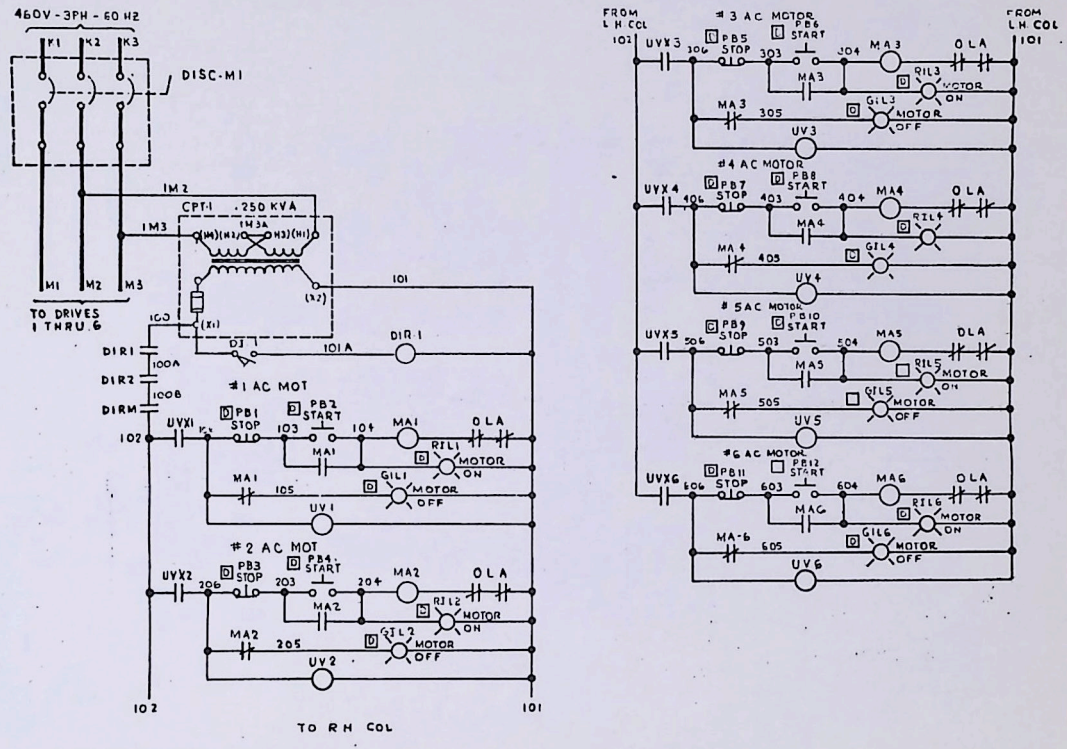


1. 98'-0 LINEAL FT. 78" GOODYEAR SPEEDWALK BELT GROOVED PER ASA A17.1 - 1965 RULE 1304.4 (C)
2. 507J25 FALK SHAFT MOUNT SPEED REDUCER - 3 7/16 BUSHING (25.4/1 RATIO)
3. 4-B 25.0 PD SHEAVE (BORE KW)
4. 4-B 5.4 PD SHEAVE (BORE KW)
5. 4-B 128 MATCHED V-BELTS (39.8 CTRS)
6. 15 HP 1800-88 RPM DC OPEN-DRIP PROOF MOTOR 3P 60 60C 230 V AC FR#
7. SCR DRIVE CONTROL FOR 15 HP MOTOR, FAN COOLED HOUSING, CONTACTOR STARTING, IR COMPENSATION, SHORT CIRCUIT PROTECTION, CURRENT LIMITING, REMOTE PUSH BUTTON STATION (ON-OFF-SPEED ADJUST CONTROL) (G.E. IF AVAILABLE)
8. V-BELT GUARD
9. 24" DIA. X 80" STRAIGHT FACE 1/2" VULCANIZED LAGGED PULLEY - 3 15/16 SHAFT TURNED TO 3 7/16 DIA. - MP-55 BRGS
10. 24" DIA. X 80" STRAIGHT FACE PULLEY - 2 15/16 DIA. SHAFT TURNED TO 2 7/16 DIA. - NP-39 BRGS
11. 18" DIA. X 80" CF PULLEY - 2 15/16 SHAFT TURNED TO 2 7/16 DIA. - NP-39/SPG-39-12 TU BRGS

EXTENDED 5'-0 FLEXIBLE HOSE TO BE PROVIDED FOR ALL BEARINGS AND RETURN ROLLS

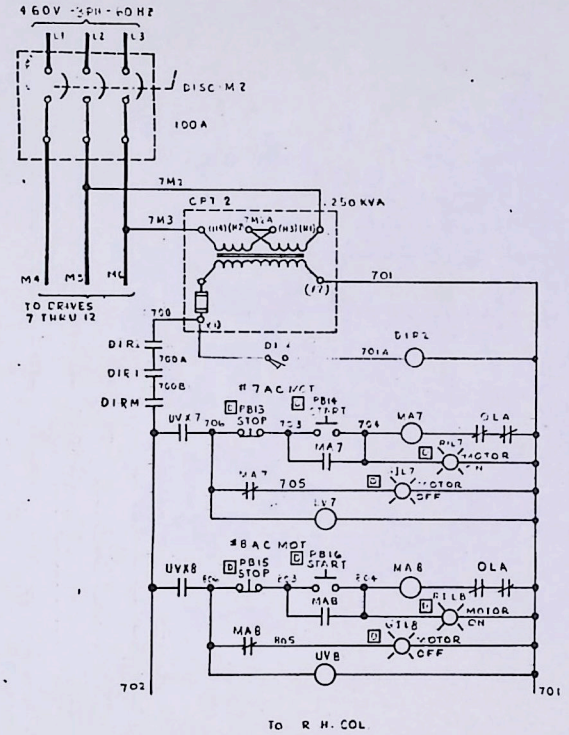
SECTION 3

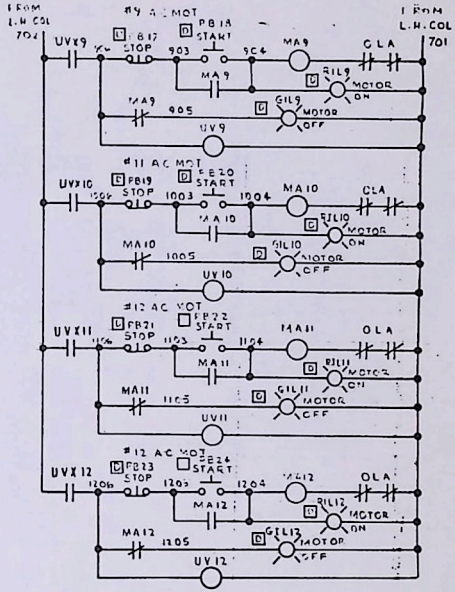
ELECTRICAL

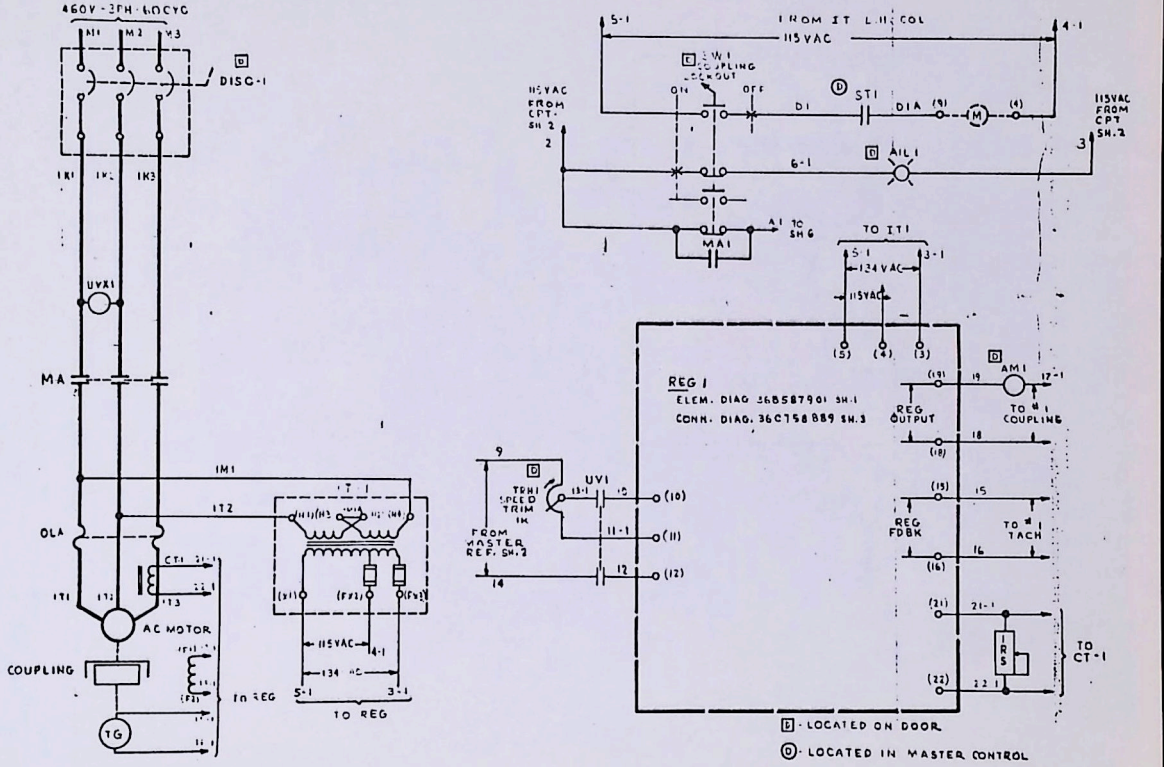


109455
SCHEMATIC DIAGRAM

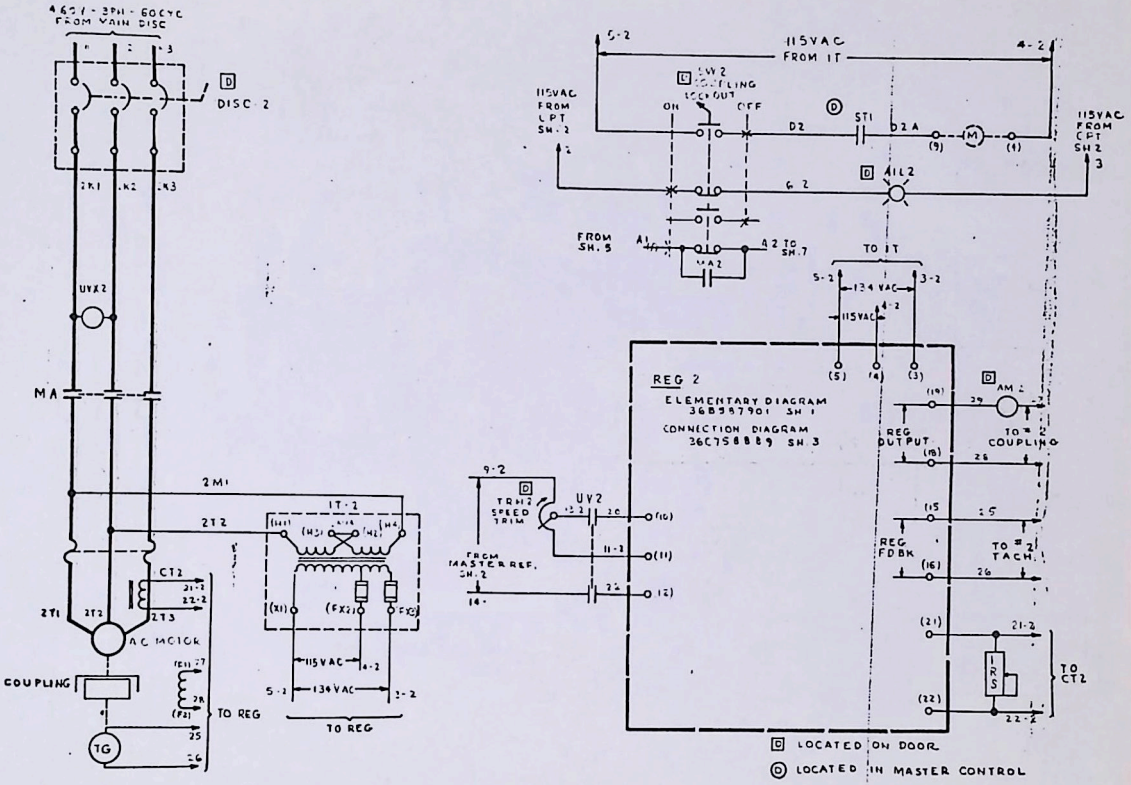
109456
SCHEMATIC DIAGRAM

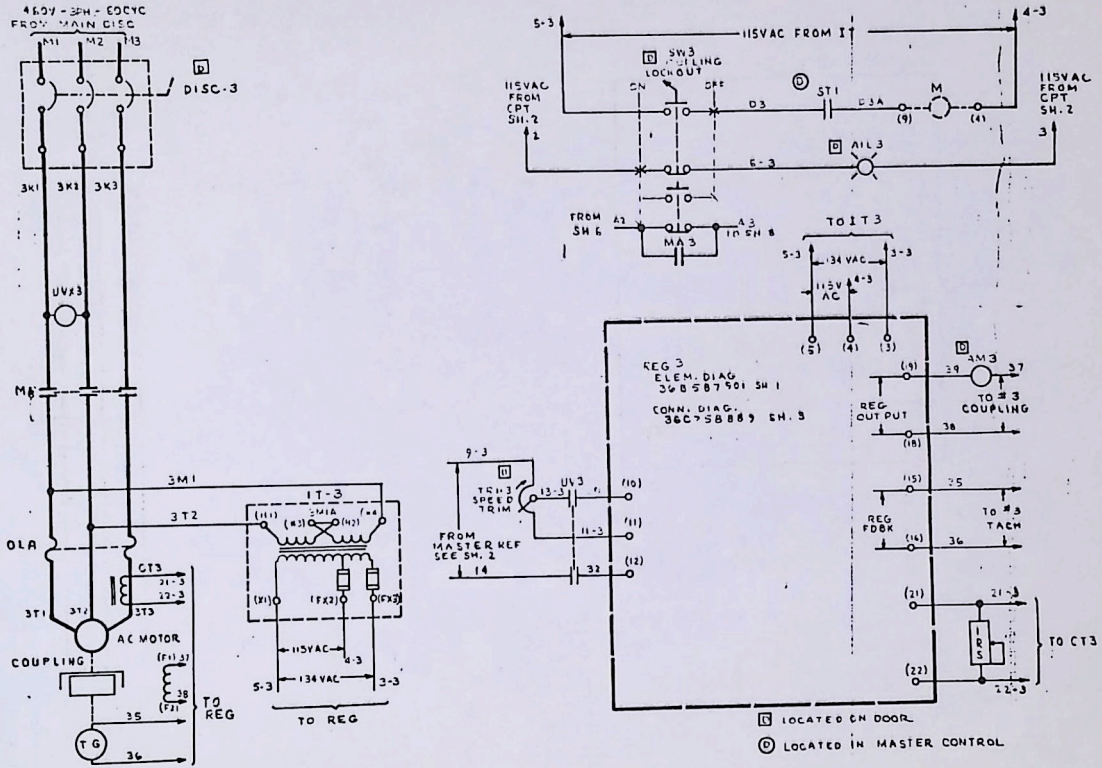




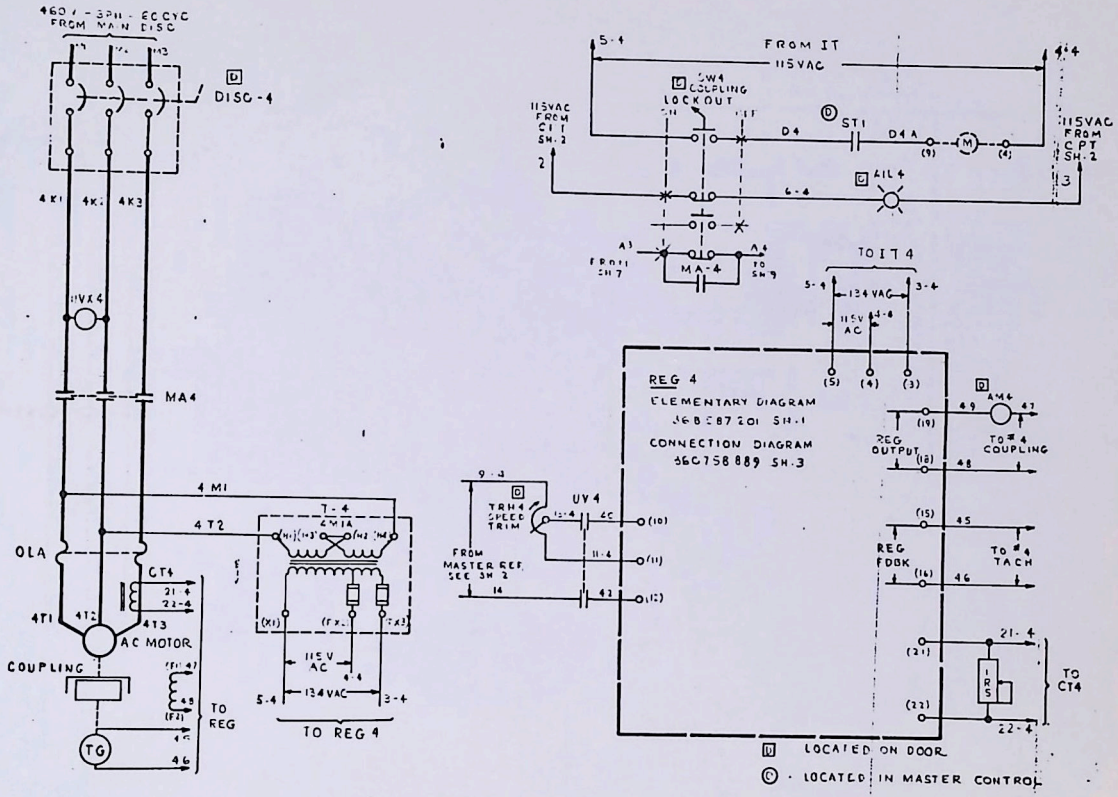


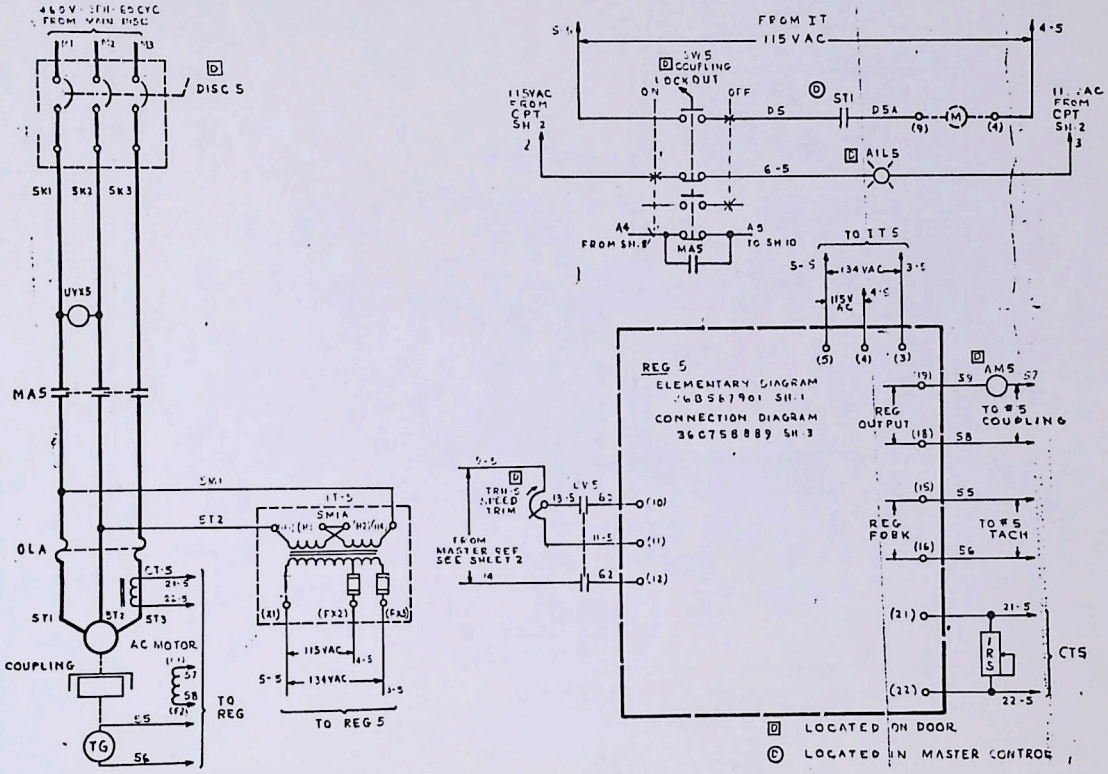
109457
SCHEMATIC DIAGRAM, NO. 1 DRIVE


4,160 V - 3PH - 60CYC
FROM MAIN DISC
DISC 2
1KR1
1KR2
1KR3
UVX2
MA
2M1
2T2
1T-2
CT2
2T1
2T3
AC MOTOR
COUPLING
TG
TO REG
115VAC
134VAC
5-2
4-2
3-2
115VAC FROM IT
LW2 COUPLING LOCKOUT
ON
OFF
D2
ST1
D2A
M
115VAC FROM CPT SH 2
AIL2
G-2
FROM SH. 5
A1
A2
MA2
A2 TO SH. 7
TO IT
REG 2
ELEMENTARY DIAGRAM
368587901 SH 1
CONNECTION DIAGRAM
36C758889 SH 3
AM 2
REG OUTPUT
TO # 2 COUPLING
REG FDBK
TO # 2 TACH.
TRM 2 SPEED TRIM
UV2
FROM MASTER REF. SH. 2
TO CT2
LOCATED ON DOOR
LOCATED IN MASTER CONTROL

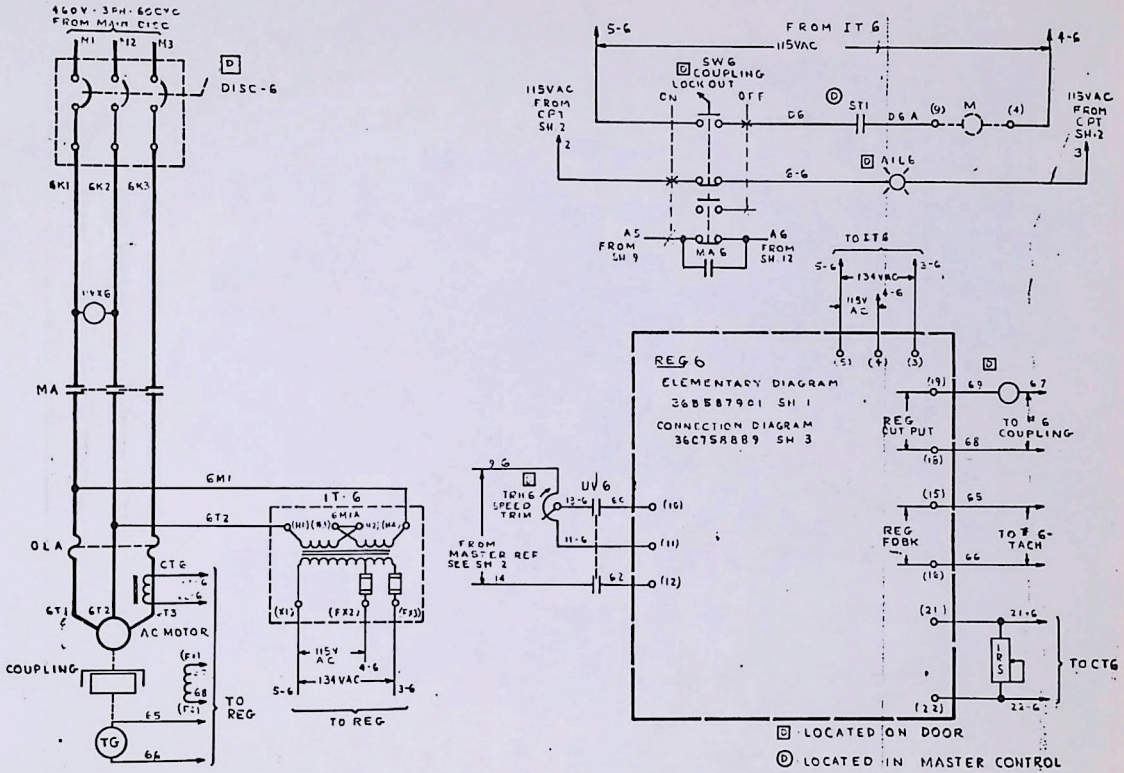


109459
SCHEMATIC DIAGRAM, NO. 3 DRIVE

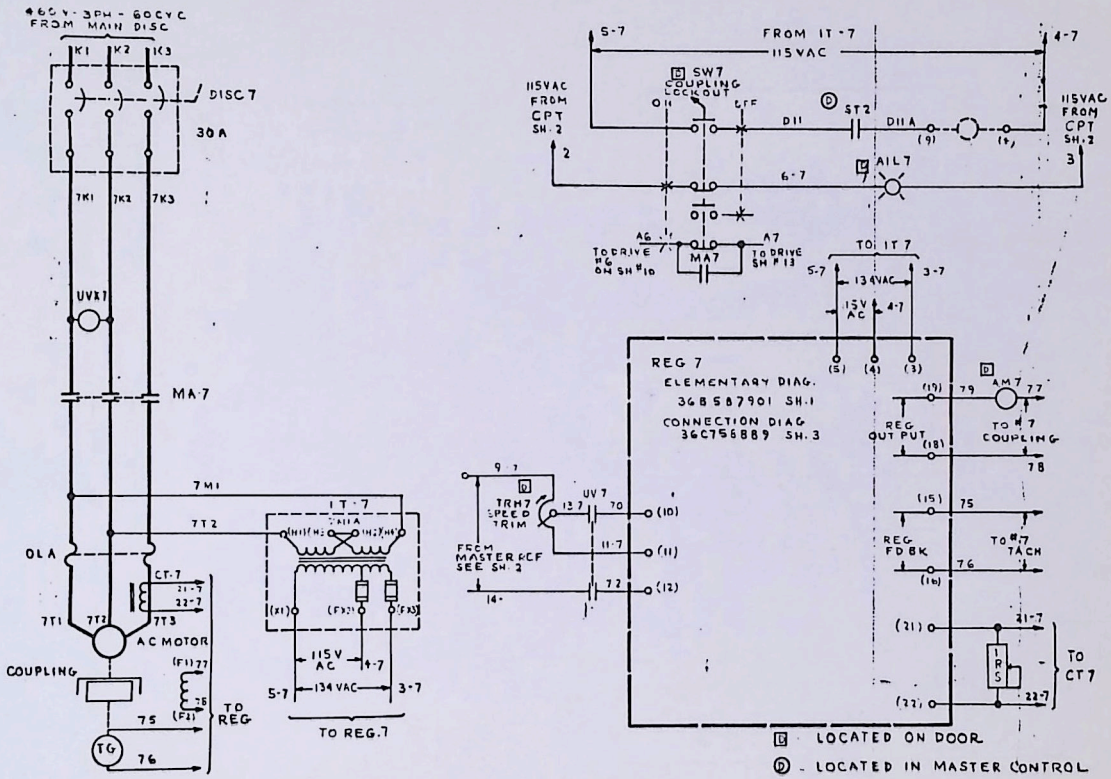

460 V - 3PH - 60 CYC FROM MAIN DISC
DISC-4
4K1
4K2
4K3
UVX4
MA4
4M1
4T2
OLA
CT4
4T1
4T3
AC MOTOR
COUPLING
TG
TO REG
T-4
4MTA
115 V AC
5-4
134 VAC
3-4
TO REG 4
FROM IT
115VAC
SW4 COUPLING LOCK OUT
115VAC FROM CIT SH-2
STI
D4
D4A
AIL4
6-4
MA-4
TO IT 4
REG 4
ELEMENTARY DIAGRAM
SCHEMATIC DIAGRAM, NO. 4 DRIVE
109460
CONNECTION DIAGRAM
460758889 SH.3
TRIM SPEED TRIM
UV4
FROM MASTER REF. SEE SH 2
REG OUTPUT
TO #4 COUPLING
REG FDBK
TO #4 TACH
IRS
TO CT4
LOCATED ON DOOR
LOCATED IN MASTER CONTROL



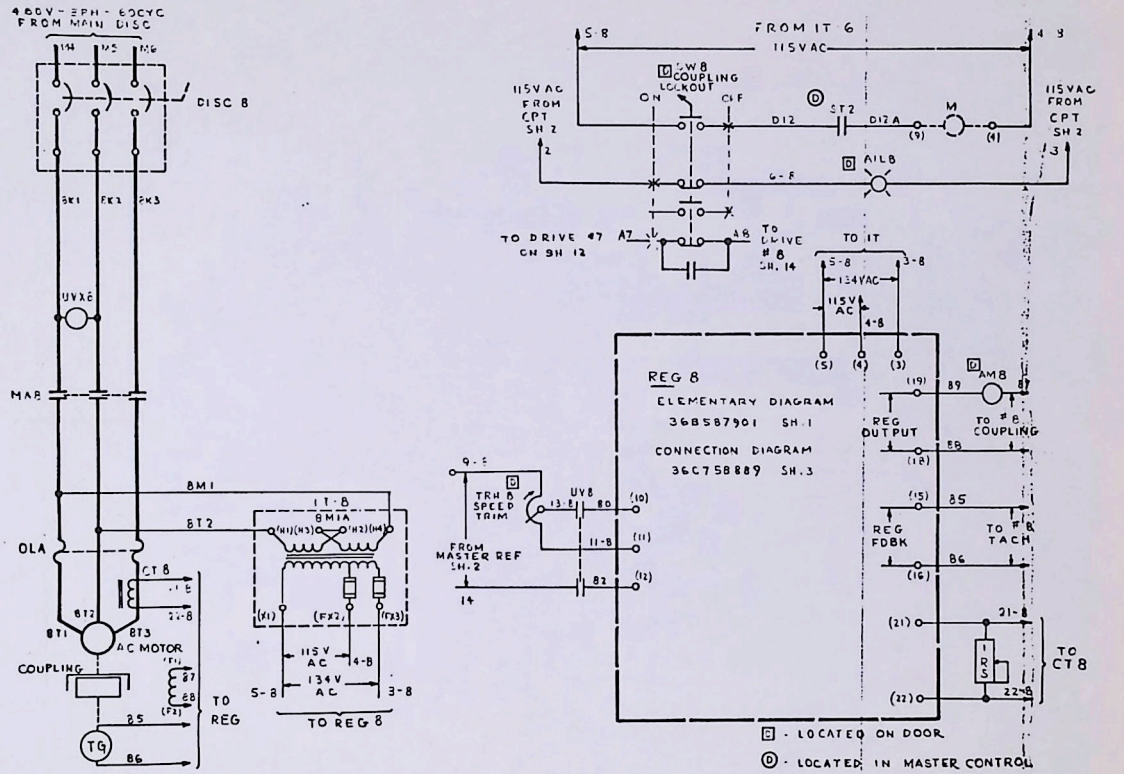
109461
SCHEMATIC DIAGRAM, NO. 5 DRIVE

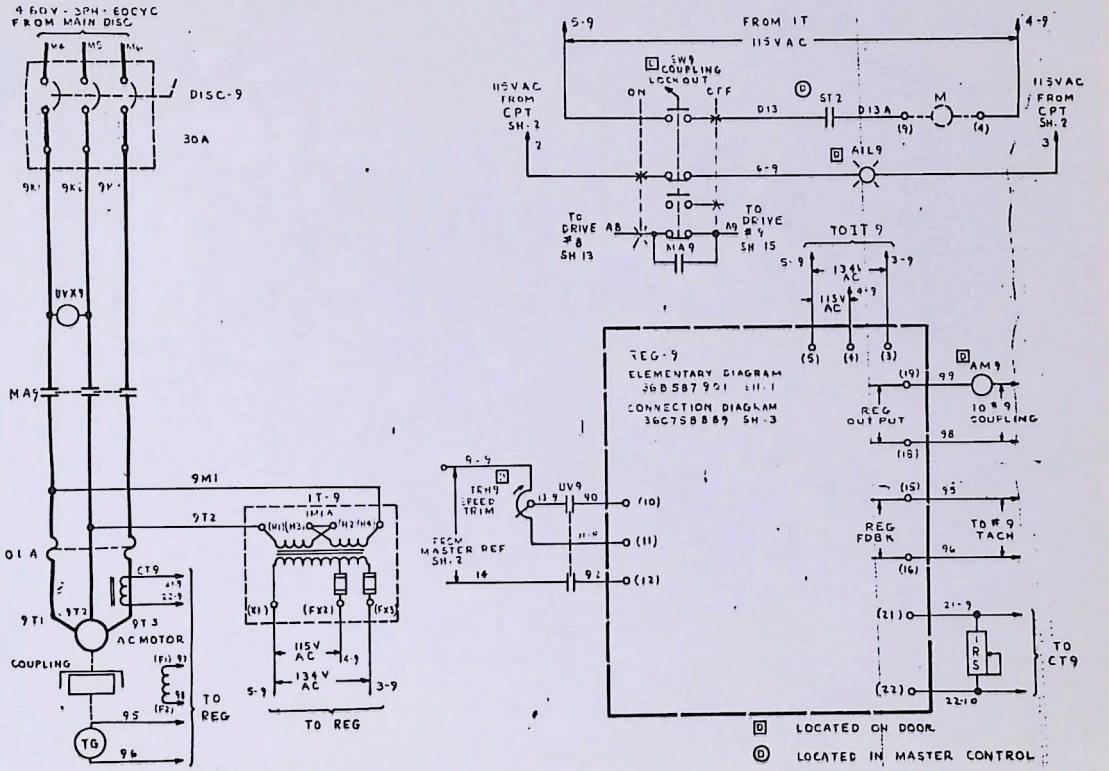


109462
SCHEMATIC DIAGRAM, NO. 6 DRIVE

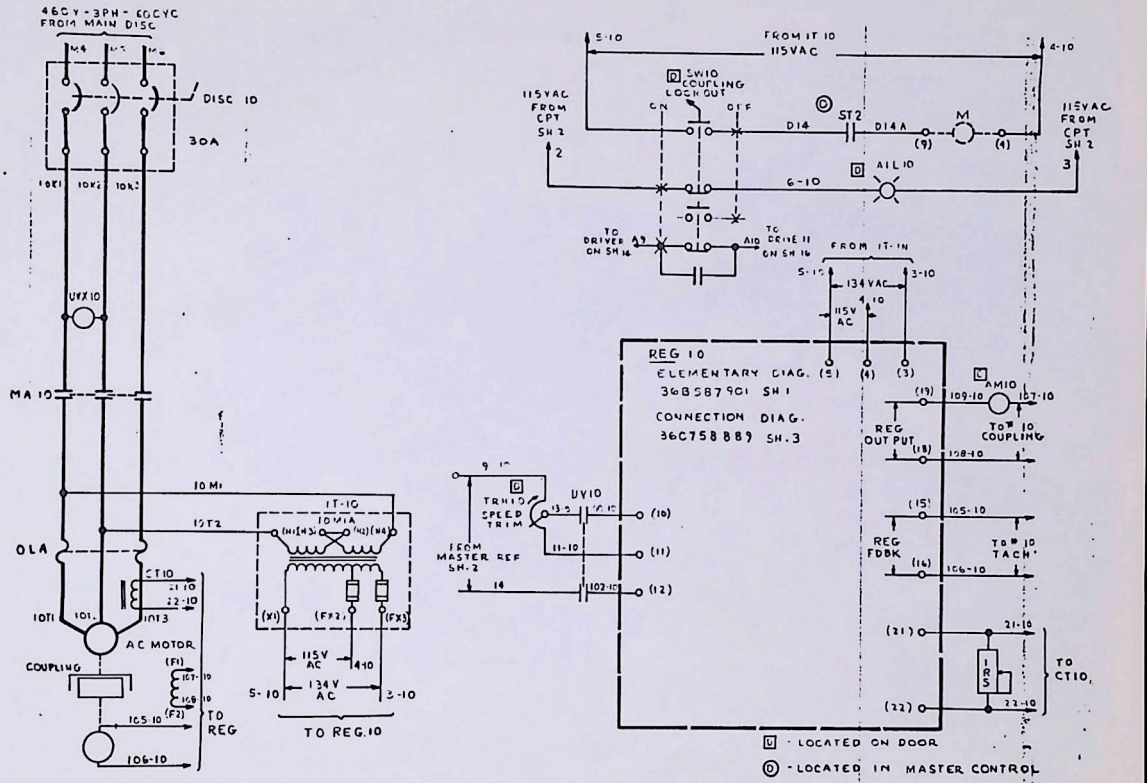


109463
SCHEMATIC DIAGRAM, NO. 7 DRIVE

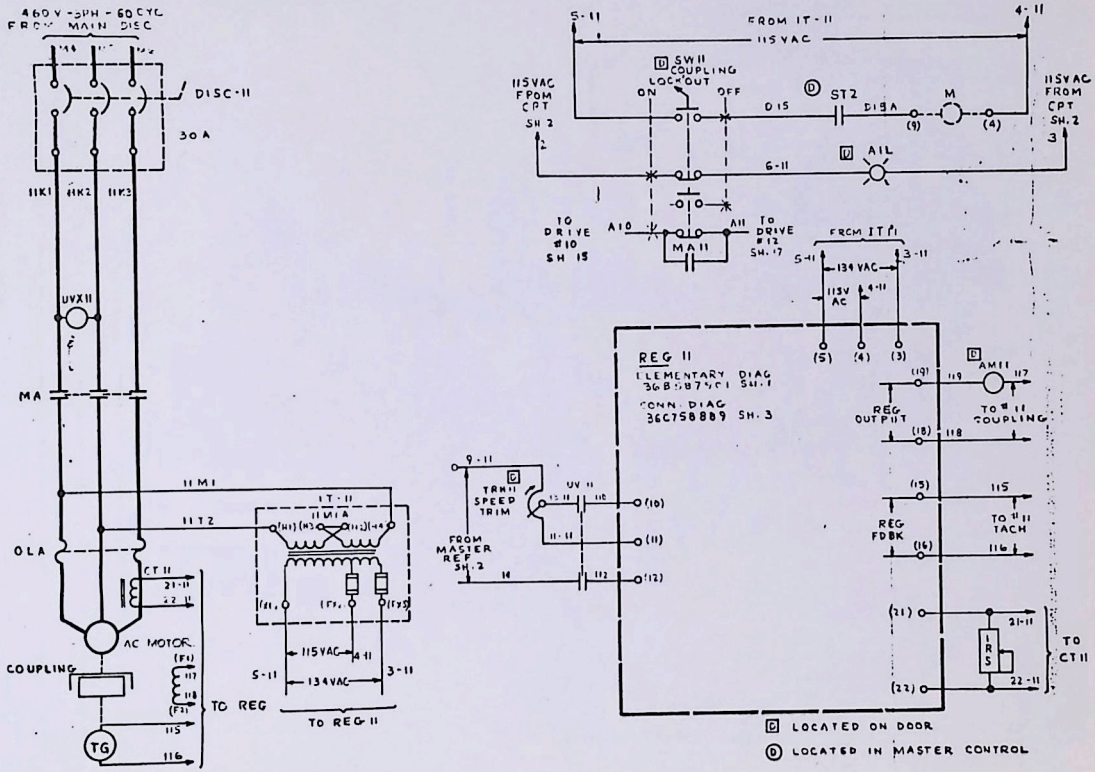

4.60V - 3PH - 60CYC
FROM MAIN DISC
DISC 8
UVX8
MA8
BM1
BT2
OLA
CT 8
BT1
BT2
BT3
AC MOTOR
COUPLING
TO REG
TG
BMIA
11-8
115V AC
4-8
134V AC
5-8
3-8
TO REG 8
FROM IT 6
115VAC
SW 8 COUPLING LOCKOUT
ON
OFF
D12
ST2
D12A
M
115VAC FROM CPT SH 2
AILB
TO DRIVE #7 ON SH 12
TO DRIVE #8 SH. 14
TO IT
REG 8
ELEMENTARY DIAGRAM
368587901 SH.1
CONNECTION DIAGRAM
36C758889 SH.3
AM8
REG OUTPUT
TO #8 COUPLING
REG FDBK
TO #8 TACH
TRH SPEED TRIM
UV8
FROM MASTER REF SH. 2
TO CT8
E - LOCATED ON DOOR
D - LOCATED IN MASTER CONTROL



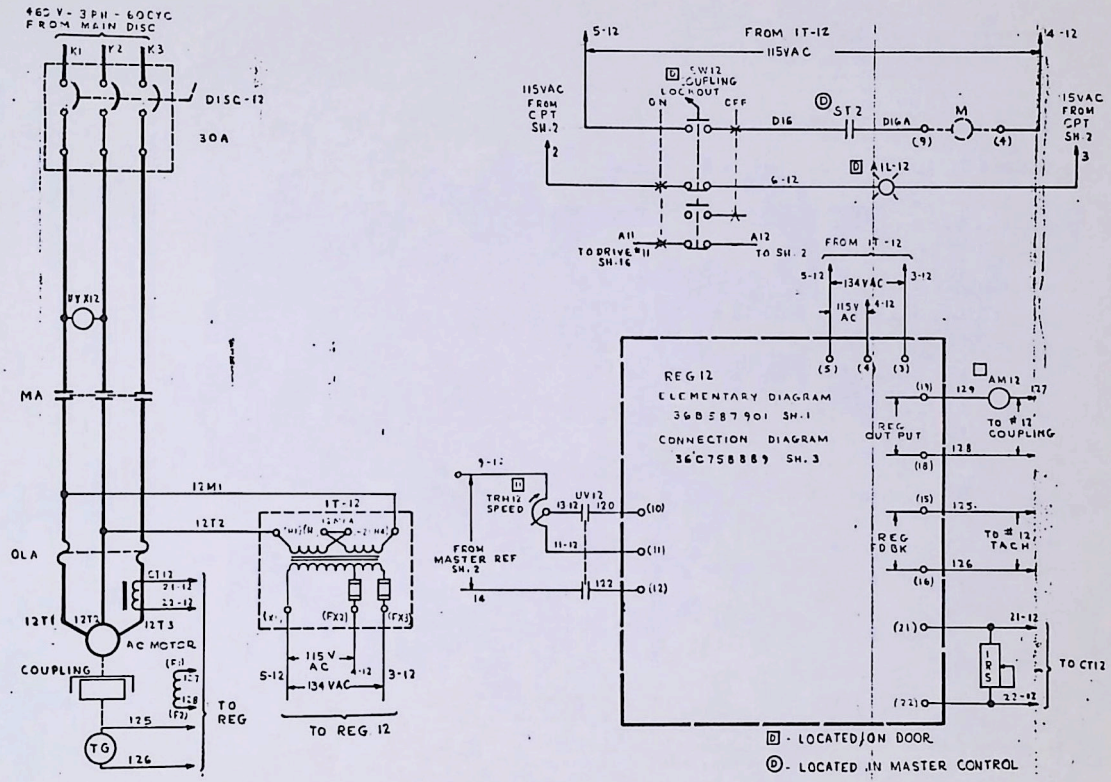
SCHEMATIC DIAGRAM, NO. 9 DRIVE 109465



109466
SCHEMATIC DIAGRAM, NO. 10 DRIVE



109467
SCHEMATIC DIAGRAM, NO. 11 DRIVE



109468 SCHEMATIC DIAGRAM, NO. 12 DRIVE

PANEL WIRE TABLE

WIRE	CONNECTION
	CASE NO. 1
	#14 BLACK AC
1M2	DISC-M1(M2)CPT1(H1)
1M3	DISC-M1(M3)CPT1(H4)
1M3A	CPT1(M2)(H3)
	#14 RED AC
100	DI-1(1),CPT(X1),LAR1(3)
700A	1TB(700A)DIR1(5)
100A	DIR1(4)1TB(100A)
700B	1TB(700B)DIR1(5)
102	1TB(102)UVX5(1)UVX6(1) UVX4(1)UVX3(1)UVX1(1) UVX2(1)
101	UV1(7)UV2(7)UV3(7)UV4(7)UV5(7) UV6(7)DIR1(8)MA5(4)MA5(4)MA6(4) MA4(4)MA3(4)CPT-1(X2)MA1(4), MA2(4)
106	UV1(2)MA1(9)UVX1(2)
206	UV2(2)MA2(9)UVX2(2)
306	UV3(2)MA3(9)UVX3(2)
406	UV4(2)MA4(9)UVX4(2)
506	UV5(2)MA5(9)UVX5(2)
606	UV6(2)MA6(9)UVX6(2)
2	1TB(2)MA1(7)
A+	MA1(8)MA2(7)
A2	MA2(8)MA3(7)
A3	MA3(8)MA4(7)
A4	MA4(8)MA5(7)
A5	MA5(8)MA6(7)
A6	MA6(8)1TB(A6)
101A	DI-1(2)DIR1(A)
1	1TB(1)DIR1(2)
2P	1TB(2B)DIR1(1)
	#16 BLUE DC
14	1TB(14)UV1(6)UV2(6)UV3(6) UV4(6)UV5(6)UV6(6)
	DRIVE NO. 1
	#14 BLACK AC
1K1	MA1(L1)UVX1(A)
1K2	MA1(L2)UVX1(B)
1M1	MA1(M1)1T-1(H4)
1M1A	1T-1(M2)(H3)
3-1	1T-1(FX3)REG1(3)
5-1	1T-1(X1)REG1(5)
1T2	1T-1(M1),1TB(1T2)
	#12 BLACK AC POWER
1T1	MA1(T1)1TB(T1)
1T2	MA1(T2)1TB(T2)
1T3	MA1(T3),THRU 1CT 3 TURNS, 1TB(1T3)
	#16 RED AC
4-1	1T-1(FX2)REG1(4)
D1A	REG1(9)1TB(D1A)
15-1	1TB(15-1)REG1(15)
16-1	1TB(16-1)REG1(16)
21-1	REG1(21)CT1(1)IRS-1(2)
22-1	REG1(22)CT1(2)IRS-1(1)(3)

PANEL WIRE TABLE

WIRE	CONNECTION
	#16 BLUE DC
10	REG1(10)UV1(3)
12	REG1(12)UV1(8)
18-1	REG1(18)1TB(18-1)
	DRIVE NO. 2
	#14 BLACK AC
2K1	MA2(L1)UVX2(A)
2K2	MA2(L2)UVX2(B)
2M1	MA2(M1)1T-2(H4)
2M1A	1T-2(M2)(H3)
3-2	1T-2(FX3)REG2(3)
5-2	1T-2(X1)REG2(5)
2T2	1T-2(M1),1TB(2T2)
	#12 BLACK AC
2T1	MA2(T1)1TB(T1)
2T2	MA2(T2)1TB(T2)
2T3	MA2(T3),THRU CT23TURNS, 1TB(2T3)
	#16 RED AC
4-2	1T-2(FX2)REG2(4)
D2A	REG2(9)1TB(D2A)
25	1TB(25)REG2(15)
26	1TB(26)REG2(16)
21-2	REG2(21)CT2(1)IRS-2(2)
22-2	REG2(22)CT2(2)IRS-2(1)(3)
	#16 BLUE DC
20	REG2(10)UV2(3)
22	REG2(12)UV2(8)
28	REG2(18)1TB(28)
	DRIVE NO. 3
	#14 BLACK AC
3K1	MA3(L1)UVX3(A)
3K2	MA3(L2)UVX3(B)
3M1	MA3(M1)1T-3(H4)
3M1A	1T-3(M2)(H3)
3-3	1T-3(FX3)REG3(3)
5-3	1T-3(X1)REG3(5)
3T2	1T-3(M1),1TB(3T2)
	#12 BLACK AC
3T1	MA3(T1)1TB(3T1)
3T2	MA3(T2)1TB(3T1)
3T3	MA3(T3),THRU CT33TURNS, 1TB(3T3)
	#16 RED AC
4-3	1T-3(FX2)REG3(4)
D3A	REG3(9)1TB(D3A)
35	1TB(35)REG3(15)
36	1TB(36)REG3(16)
21-3	REG3(21)CT3(1)IRS-3(2)
22-3	REG3(22)CT3(2)IRS-3(1)(3)

PANEL WIRE TABLE

WIRE	CONNECTION
	#16 BLUE DC
30	REG3(10)UV3(3)
32	REG3(12)UV3(8)
38	REG3(18)1TB(38)
	DRIVE NO. 4
	#14 BLACK AC
4K1	MA4(L1)UVX4(A)
4K2	MA4(L2)UVX4(B)
4M1	MA4(M1)1T-4(H4)
4M1A	1T-4(M2)(H3)
3-4	1T-4(FX3)REG4(3)
5-4	1T-4(X1)REG4(5)
4T2	1T-4(M1),1TB(4T2)
	#12 BLACK AC
4T1	MA4(T1)1TB(4T1)
4T2	MA4(T2)1TB(4T2)
4T3	MA4(T3),THRU CT43TURNS,1TB(4T3)
	#16 RED AC
4-4	1T-4(FX2)REG4(4)
D4A	REG4(9)1TB(D4A)
45	1TB(45)REG4(15)
46	1TB(46)REG4(16)
21-4	REG4(21)CT4(1)IRS-4(2)
22-4	REG4(22)CT4(2)IRS-4(1)(3)
	#16 BLUE DC
40	REG4(10)UV4(3)
42	REG4(12)UV4(8)
48	REG4(18)1TB(48)
	DRIVE NO. 5
	#14 BLACK AC
5K1	MA5(L1)UVX5(A)
5K2	MA5(L2)UVX5(B)
5M1	MA5(M1)1T-5(H4)
5M1A	1T-5(M2)(H3)
3-5	1T-5(FX3)REG5(3)
5-5	1T-5(X1)REG5(5)
5T2	1T-5(M1),1TB(5T2)
	#12 BLACK AC
5T1	MA5(T1)1TB(5T1)
5T2	MA5(T2)1TB(5T2)
5T3	MA5(T3),THRU CT53TURNS,1TB(5T3)
	#16 RED AC
4-5	1T-5(FX2)REG5(4)
D5A	REG5(9)1TB(D5A)
55	1TB(55)REG5(15)
56	1TB(56)REG5(16)
21-5	REG5(21)CT5(1)IRS-5(2)
22-5	REG5(22)CT5(2)IRS-5(1)(3)

109469
WIRE TABLE

PANEL WIRE TABLE	
WIRE	CONNECTION
	#16 BLUE DC
50	REG5(10)UV5(3)
52	REG5(12)UV5(8)
58	REG5(18)1TB(58)
	DRIVE NO. 6
	#14 BLACK AC
6K1	MA6(1)UVX6(A)
6K2	MA6(L2)UVX6(8)
6M1	MA6(M1)1T-6(M4)
6M1A	1T-6(M2)(M3)
3-6	1T-6(FX3)REG6(3)
5-6	1T-6(X1)REG6(5)
6T2	1T-6(N1),1TB(6T2)
	#12 BLACK AC
6T1	MA6(T1)1TB(6T1)
6T2	MA6(T2)1TB(6T2)
6T3	MA6(T3)THRU CT6,3TURNS, 1TB(6T3)
	#16 RED AC
4-6	1TB(FX2)REG6(4)
6GA	REG6(9)1TB(6GA)
6G	1TB(6G)REG6(15)
66	1TB(66)REG6(16)
21-6	REG6(21)CT6(1)1RS-6(2)
22-6	REG6(22)CT6(2)1RS-6(1)(3)
	#16 BLUE DC
60	REG6(10)UV6(3)
62	REG6(12)UV6(8)
68	REG6(18)1TB(68)
	CASE NO. 1 LEFT DOOR CONNECTIONS
	#6 BLACK FLEX AC POWER
M1	DISCM1(X1)DISC-1(L1)
M2	DISCM1(X2)DISC-1(L2)
M3	DISCM1(M3)DISC1(L3)
	# 8 BLACK AC POWER
M1	DISC-3(L1)DISC-2(L1)DISC4(L1)
M2	DISC-3(L2)DISC-2(L2)DISC4(L2)
M3	DISC-3(L3)DISC-2(L3)DISC-1(L3)
	#10 BLACK AC POWER
M1	DISC-3(L1)DISC-6(L1) DISC-5(L1)
M2	DISC-3(L2)DISC-6(L2) DISC-5(L2)
M3	DISC-3(L3)DISC-6(L3) DISC-5(L3)

PANEL WIRE TABLE	
WIRE	CONNECTION
	#12 BLACK FLEX AC POWER
M1	DISC-5(L1)DISC-4(L1)
M2	DISC-5(L2)DISC-4(L2)
M3	DISC-5(L3)DISC-4(L3)
1K1	DISC1(K1)MA1(L1)
1K2	DISC1(K2)MA1(L2)
1K3	DISC1(K3)MA1(L3)
2K1	DISC2(K1)MA2(L1)
2K2	DISC2(K2)MA2(L2)
2K3	DISC2(K3)MA2(L3)
3K1	DISC3(K1)MA3(L1)
3K2	DISC3(K2)MA3(L2)
3K3	DISC3(K3)MA3(L3)
4K1	DISC4(K1)MA4(L1)
4K2	DISC4(K2)MA4(L2)
4K3	DISC4(K3)MA4(L3)
5K1	DISC5(K1)MA5(L1)
5K2	DISC5(K2)MA5(L2)
5K3	DISC5(K3)MA5(L3)
6K1	DISC6(K1)MA6(L1)
6K2	DISC6(K2)MA6(L2)
6K3	DISC6(K3)MA6(L3)
	CASE NO. 1 RIGHT DOOR CONNECTIONS
	#16 RED AC
103	MA1(2)PB1(2)PB2(1)
104	MA1(A)PB2(2)R1L1(1)
105	MA1(10)G1L1(1)
106	UVX1(2)PB1(1)
203	MA2(2)PB3(2)PB4(1)
204	MA2(A)PB4(2)R1L2(1)
205	MA2(10)G1L2(1)
206	UVX2(2)PB3(1)
303	MA3(2)PB5(2)PB6(1)
304	MA3(A)PB6(2)R1L3(1)
305	MA3(10)G1L3(1)
306	UVX3(2)PB5(1)
403	MA4(2)PB7(2)PB8(1)
404	MA4(A)PB8(2)R1L4(1)
405	MA4(10)G1L4(1)
406	UVX4(2)PB7(1)
503	MA5(2)PB9(2)PB10(1)
504	MA5(A)PB10(2)R1L5(1)
505	MA5(10)G1L5(1)
506	UVX5(2)PB9(1)
603	MA6(2)PB11(2)PB12(1)
604	MA6(A)PB12(2)R1L6(1)
605	MA6(10)G1L6(1)
606	UVX6(2)PB11(1)
101	UV1(7)R1L1(2)G1L1(2)R1L2(2) G1L2(2)R1L3(2)G1L3(2)R1L4(2) G1L4(2)R1L5(2)G1L5(2)R1L6(2) G1L6(2)
2	1TB(2)SW1(3)(5)SW2(3)SW3(3) SW4(3)SW5(3)SW6(3)
3	1TB(3)A1L1(2)A1L2(2)A1L3(2) A1L4(2)A1L5(2)A1L6(2)
5-1	1T-1(X1)SW1(1)
0-1	1TB(01)SW1(2)
6-1	A1L-1(1)SW1(4)
A1	MA1(8)SW1(6)SW2(5)
5-2	1T-2(X1),SW2(1)
02	1TB(02)SW2(2)
6-2	A1L-2(1)SW2(4)
A2	MA2(8)SW2(6)SW3(5)
5-3	1T-3(X1)SW3(1)
03	1TB(03)SW3(2)
6-3	A1L-3(1)SW3(4)
A3	MA3(8)SW3(6)SW4(5)
5-4	1T-4(X1)SW1(1)
04	1TB(04)SW4(2)
6-4	A1L-4(1)SW4(4)
A4	MA4(8)SW4(6)SW5(5)
5-5	1T-5(X1)SW5(1)
05	1TB(05)SW5(2)
6-5	A1L-5(1)SW5(4)

PANEL WIRE TABLE	
WIRE	CONNECTION
	#16 RED AC CON'T
A5	MA5(8)SW5(6)SW6(5)
5-6	1T-6(X1)SW6(1)
06	1TB(06)SW6(2)
6-6	A1L-6(1)SW6(4)
A6	MA6(8)SW6(6)1TB(A6)
	#16 BLUE DC
11-1	REG1(11)TRH1(3)
13-1	UV1(1)TRH1(2)
17-1	1TB(17-1)AH1(2)
19-1	REG1(19)AH1(1)
11-2	REG2(11)TRH2(3)
13-2	UV2(1)TRH2(2)
27	1TB(27)AH2(2)
29	REG2(19)AH2(1)
11-3	REG3(11)TRH3(3)
13-3	UV3(1)TRH3(2)
37	1TB(37)AH3(2)
39	REG3(19)AH3(1)
11-4	REG4(11)TRH4(3)
13-4	UV4(1)TRH4(2)
47	1TB(47)AH4(2)
49	REG4(19)AH4(1)
11-5	REG5(11)TRH5(3)
13-5	UV5(1)TRH5(2)
57	1TB(57)AH5(2)
59	REG5(19)AH5(1)
11-6	REG6(11)TRH6(3)
13-6	UV6(1)TRH6(2)
67	1TB(67)AH6(2)
69	REG5(19)AH6(1)
9-1	TRH-1(1),1TB(9-1)
9-2	TRH-2(1),1TB(9-2)
9-3	TRH-3(1),1TB(9-3)
9-4	TRH-4(1),1TB(9-4)
9-5	TRH-5(1),1TB(9-5)
9-6	TRH-6(1),1TB(9-6)

109470
WIRE TABLE

PANEL WIRE TABLE

WIRE	CONNECTION
	CASE NO. 2
	#14 BLACK AC
7M2	DISC-M2(K2)CPT2(H1)
7M3	DISC-M2(K3)CPT2(H4)
7M3A	CPT2(H2)(H3)
	#14 RED AC
700	CPT2(X1)DIR2(5),D1-2(1)
700A	2TB(700A)DIR2(3)
700A	DIR2(6)2TB(700A)
700B	2TB(700B)DIR2(4)
702	2TB(702)UVX11(1)UVX12(1) UVX10(1)UVX9(1)UVX7(1) UVX8(1)
701	UV7(7)UV6(7)UV5(7)UV10(7) UV11(7)UV12(7)DIR2(B) MA11(4)MA12(4)MA10(4) MA9(4)CPT-2(X2)MA7(4)MA8(4)
706	UV7(2)MA7(9)UVX7(2)
806	UV6(2)MA8(9)UVX8(2)
906	UV5(2)MA9(9)UVX9(2)
1006	UV10(2)MA10(9)UVX10(2)
1106	UV11(2)MA11(9)UVX11(2)
1206	UV12(2)MA12(9)UVX12(2)
A7	MA7(8)MA8(7)
A8	MA8(8)MA9(7)
A9	MA9(8)MA10(7)
A10	MA10(8)MA11(7)
A11	MA11(8)MA12(7)
A6	MA7(7)2TB(A6)
701A	DIR2(2)DIR2(A)
2B	2TB(2B)DIR2(2)
2A	2TB(2A)DIR2(1)
	#16 BLUE DC
14	2TB(14)UV7(6)UV6(5)UV5(6) UV10(6)UV11(6)UV12(6)
	DRIVE NO. 7
	#14 BLACK AC
7A1	MA7(L1)UVX7(A)
7A2	MA7(L2)UVX7(B)
7A1	MA7(M1)1T-7(H4)
7M1A	1T-7(H2)(H3)
3-7	1T-7(FX3)REG7(3)
5-7	1T-7(X1)REG7(5)
7T1	MA7(T1)2TB(7T1)
7T2	MA7(T2)2TB(7T2)1T-7(H1)
7T3	MA7(T3),THRU CT7 3 TURNS, 2TB(7T3)
	#16 RED AC
4-7	1T-7(FX2)REG7(4)
D11A	REG7(9)2TB(D11A)
75	2TB(75)REG7(15)
76	2TB(76)REG7(16)
21-7	REG7(21)CT7(1)IRS-7(2)
22-7	REG7(22)CT7(2)IRS-7(1)(3)
	#16 BLUE DC
70	REG7(10)UV7(3)
72	REG7(12)UV7(8)
78	REG7(18)2TB(78)

PANEL WIRE TABLE

WIRE	CONNECTION
	DRIVE NO. 8
	#14 BLACK AC
8K1	MA8(L1)UVX8(A)
8K2	MA8(L2)UVX8(B)
8M1	MA8(M1)1T-8(H4)
8M1A	1T-8(H2)(H3)
3-8	1T-8(FX3)REG8(3)
5-8	1T-8(X1)REG8(5)
8T1	MA8(T1)2TB(8T1)
8T2	MA8(T2)2TB(8T2) 1T-8(H1)
8T3	MA8(T3),THRU CT8 3TURNS, 2TB(8T3)
	#16 RED AC
4-8	1T-8(FX2)REG8(4)
D12A	REG8(9)2TB(D12A)
85	2TB(85)REG8(15)
86	2TB(86)REG8(16)
21-8	REG8(21)CT8(1)IRS-8(2)
22-8	REG8(22)CT8(2)IRS-8(1)(3)
	#16 BLUE DC
80	REG8(10)UV8(3)
82	REG8(12)UV8(8)
88	REG8(18)2TB(88)
	DRIVE NO. 9
	#14 BLACK AC
9K1	MA9(L1)UVX9(A)
9K2	MA9(L2)UVX9(B)
9M1	MA9(M1)1T-9(H4)
9M1A	1T-9(H2)(H3)
3-9	1T-9(FX3)REG9(3)
5-9	1T-9(X1)REG9(5)
9T1	MA9(T1)2TB(9T1)
9T2	MA9(T2)2TB(9T2) 1T-9 (H1)
9T3	MA9(T3),THRU CT9 3 TURNS, 2TB(9T3)
	#16 RED AC
4-9	1T-9(FX2)REG9(4)
D13A	REG9(9)2TB(D13A)
95	2TB(95)REG9(15)
96	2TB(96)REG9(16)
21-9	REG9(21)CT9(1)IRS-9(2)
22-9	REG9(22)CT9(2)IRS-9(1)(3)
	#16 BLUE DC
90	REG9(10)UV9(3)
92	REG9(12)UV9(8)
98	REG9(18)2TB(98)

PANEL WIRE TABLE

WIRE	CONNECTION
	DRIVE NO. 10
	#14 BLACK AC
10K1	MA10(L1)UVX10(A)
10K2	MA10(L2)UVX10(B)
10M1	MA10(M1)1T10(H4)
10M1A	1T-10(H2)(H3)
3-10	1T10(FX3)REG10(3)
5-10	1T10(X1)REG10(5)
10T1	MA10(T1)2TB(10T1)
10T2	MA10(T2)2TB(10T2) 1T10(H1),
10T3	MA10(T3),THRU CT10 3 TURNS, 2TB(10T3)
	#16 RED AC
4-10	1T19(FX2)REG10(4)
D14A	REG10(9)2TB(D14A)
105	2TB(105)REG10(15)
106	2TB(106)REG10(16)
21-10	REG10(21)CT10(1)IRS-10(2)
22-10	REG10(22)CT10(2)IRS-10(1)(3)
	#16 BLUE DC
100-10	REG10(10)UV10(3)
102-10	REG10(12)UV10(8)
108	REG10(18)2TB(118)
	DRIVE NO. 11
	#14 BLACK AC
11K1	MA11(L1)UVX11(A)
11K2	MA11(L2)UVX11(B)
11M1	MA11(M1)1T11(H4)
11M1A	1T11(H2)(H3)
3-11	1T11(FX3)REG11(3)
5-11	1T11(X1)REG11(5)
11T1	MA11(T1)2TB(11T1)
11T2	MA11(T2)2TB(11T2) 1T11(H1)
11T3	MA11(T3),THRU CT11 3 TURNS, 2TB(11T3)
	#16 RED AC
4-11	1T11(FX2)REG11(4)
D15A	REG11(9)2TB(D15A)
115	2TB(115)REG11(15)
116	2TB(116)REG11(16)
21-11	REG11(21)CT11(1)IRS-11(2)
22-11	REG11(22)CT11(2)IRS-11(1)(3)
	#16 BLUE DC
110	REG11(10)UV11(3)
112	REG11(12)UV11(8)
118	REG11(18)2TB(118)

PANEL WIRE TABLE

WIRE	CONNECTION
	DRIVE NO. 12
	#14 BLACK AC
12K1	MA12(L1)UVX12(A)
12K2	MA12(L2)UVX12(B)
12K3	MA12(M)IT12(H4)
12M1A	IT12(H2)(H3)
3-12	IT12(FX3)REG12(3)
5-12	IT(X1)REG12(5)
12T1	MA12(T1)2TB(12T1)
12T2	MA12(T2)2TB(12T2) IT12(H1)
12T3	MA12(T3),THRU CT123TURNS, 2TB(12T3)
	#16 RED AC
4-12	IT12(FX2)REG12(4)
D16A	REG12(9)2TB(D16A)
125	2TB(125)REG12(15)
126	2TB(126)REG12(16)
21-12	REG12(21)CT12(1)IRS-12(2)
22-12	REG12(22)CT12(2)IRS-12(1)(3)
	#16 BLUE DC
120	REG12(10)UV12(3)
122	REG12(12)UV12(5)
128	REG12(18)2TB(128)
	CASE NO. 2 LEFT DOOR CONNECTIONS
	#6 BLACK AC POWER
M4	DISC12(K1)DISC7(L1)
M5	DISCM2(K2)DISC7(L2)
M6	DISCM2(K3 DISC7(L3)
	#8 BLACK AC POWER
M4	DISC7(L1)DISC8(L1)DISC9(L1)
M5	DISC7(L2)DISC8(L2)DISC9(L2)
M6	DISC7(L3)DISC8(L3)DISC9(L3)
	#10 BLACK AC POWER
M4	DISC9(L1)DISC12(L1)DISC11(L1)
M5	DISC9(L2)DISC12(L2)DISC11(L2)
M6	DISC9(L3)DISC12(L3)DISC11(L3)
	#12 BLACK AC POWER
M4	DISC11(L1)DISC10(L1)
M5	DISC11(L2)DISC10(L2)
M6	DISC11(L3)DISC10(L3)

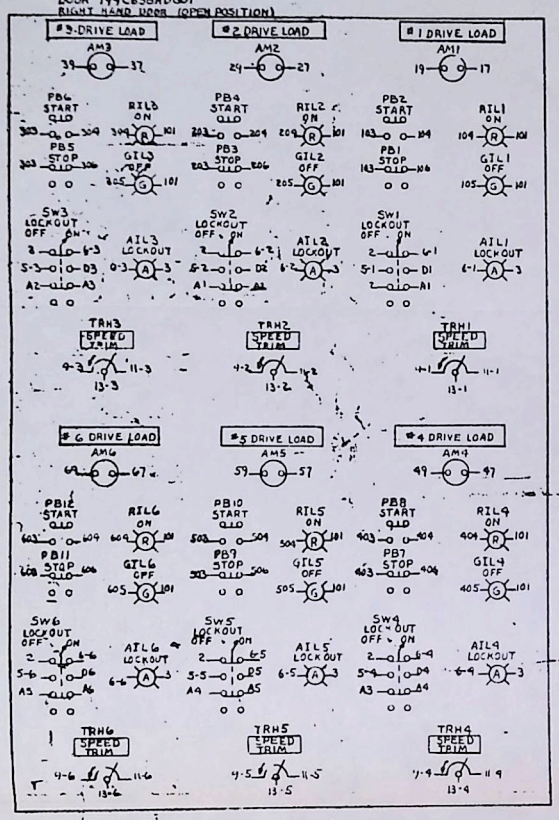
PANEL WIRE TABLE

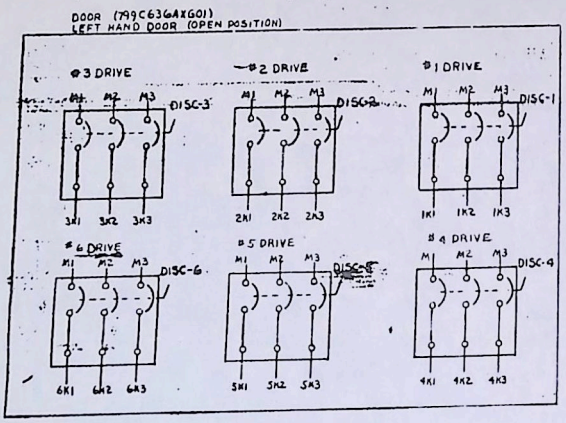
WIRE	CONNECTION
	#12 BLACK AC POWER
7K1	DISC7(K1)MA7(L1)
7K2	DISC7(K2)MA7(L2)
7K3	DISC7(K3)MA7(L3)
8K1	DISC8(K1)MA8(L1)
8K2	DISC8(K2)MA8(L2)
8K3	DISC8(K3)MA8(L3)
9K1	DISC9(K1)MA9(L1)
9K2	DISC9(K2)MA9(L2)
9K3	DISC9(K3)MA9(L3)
10K1	DISC10(K1)MA10(L1)
10K2	DISC10(K2)MA10(L2)
10K3	DISC10(K3)MA10(L3)
11K1	DISC11(K1)MA11(L1)
11K2	DISC11(K2)MA11(L2)
11K3	DISC11(K3)MA11(L3)
12K1	DISC12(K1)MA12(L1)
12K2	DISC12(K2)MA12(L2)
12K3	DISC12(K3)MA12(L3)
	CASE NO. 2 RIGHT DOOR CONNECTIONS
	#16 RED AC
703	MA7(2)PB13(2)PB14(1)
704	MA7(A)PB14(2)R1L7(1)
705	MA7(10)G1L7(1)
706	UVX7(2)PB13(1)
803	MA8(2)PB15(2)PB16(1)
804	MA8(A)PB16(2)R1L8(1)
805	MA8(10)G1L8(1)
806	UVX8(2)PB15(1)
903	MA9(2)PB17(2)PB18(1)
904	MA9(A)PB18(2)R1L9(1)
905	MA9(10)G1L9(1)
906	UVX9(2)PB17(1)
1003	MA10(2)PB19(2)PB20(1)
1004	MA10(A)PB20(2)R1L10(1)
1006	UVX10(2)PB19(1)
1103	MA11(2)PB21(2)PB22(1)
1104	MA11(A)PB22(2)R1L11(1)
1105	MA10(10)G1L11(1)
1106	UVX11(2)PB21(1)
1203	MA12(2)PB23(2)PB24(1)
1204	MA12(A)PB24(2)R1L12(1)
1205	MA12(10)G1L12(1)
1206	UVX12(2)PB23(1)
701	UVX7(7)R1L7(2)G1L7(2)R1L8(2) G1L8(2)R1L9(2)G1L9(2)R1L10(2) G1L10(2)R1L11(2)G1L11(2)R1L12(2)
2	2TB(2)SW7(3)SW8(3)SW9(3) SW10(3)SW11(3)SW12(3)
3	2TB(3)A1L7(2)A1L8(2)A1L9(2) A1L10(2)A1L11(2)A1L12(2)
5-7	IT-7(X1)SW7(1)
D11	2TB(D11)SW7(2)
6-7	A1L-7(1)SW7(4)
A7	MA7(8)SW7(6)SW8(5)
5-8	IT-8(X1)SW8(1)
D12	2TB(D12)SW8(2)
6-8	A1L-8(1)SW8(4)
A8	MA8(8)SW8(6)SW9(5)
5-9	IT-9(X1)SW9(1)
D13	2TB(D13)SW9(2)
6-9	A1L-9(1)SW9(4)
A9	MA9(8)SW9(6)SW10(5)
5-10	IT-10(X1)SW10(1)
D14	2TB(D14)SW10(2)
6-10	A1L-10(1)SW10(4)
A10	MA10(8)SW10(6)SW11(5)
5-11	IT-11(X1)SW11(1)
D15	2TB(D15)SW11(2)
6-11	A1L-11(1)SW11(4)
A11	MA11(8)SW11(6)SW12(5)
5-12	IT-12(X1)SW12(1)
D16	2TB(D16)SW12(2)
6-12	A1L-12(1)SW12(4)
A12	MA12(8)SW12(6)2TB(A12)

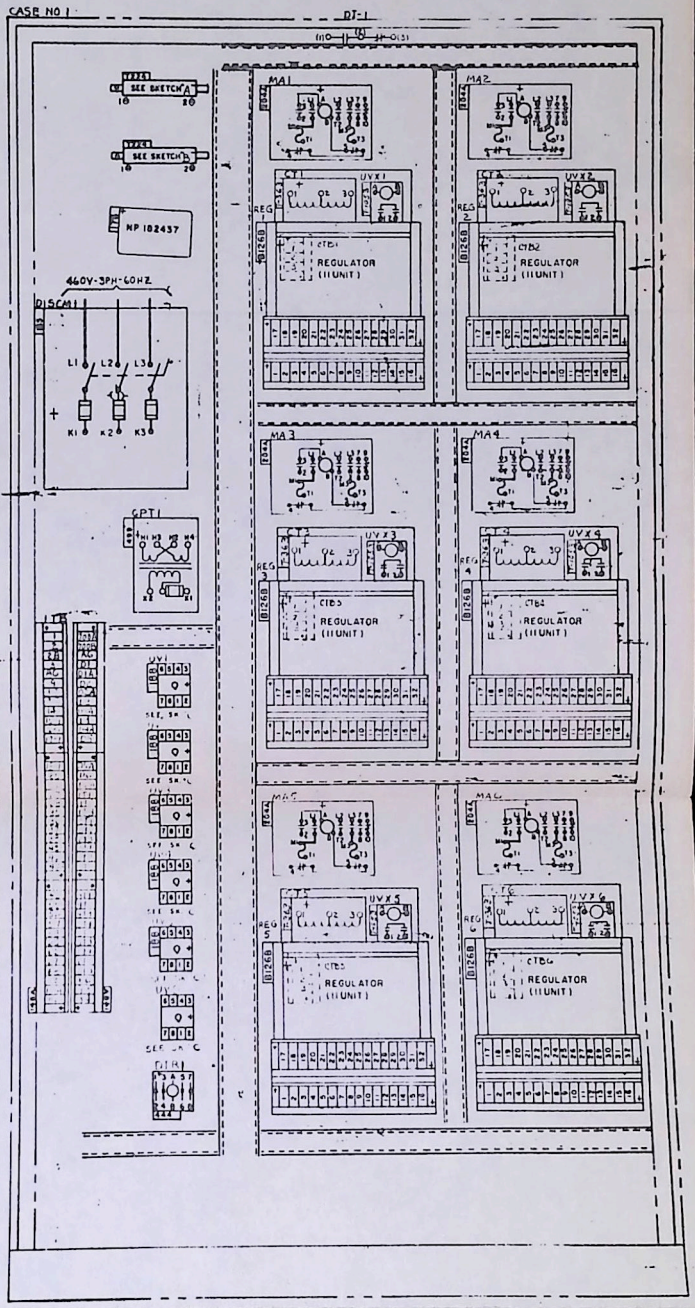
PANEL WIRE TABLE

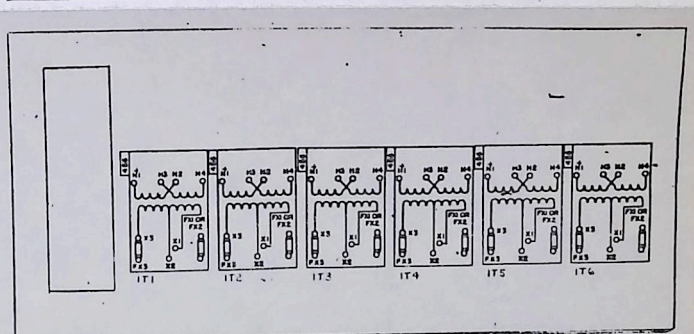
WIRE	CONNECTION
	#16 BLUE DC
11-7	REG7(11)TRH7(1)
13-7	UV7(1)TRH7(2)
77	2TB(77)AH7(2)
79	REG7(19)AH7(1)
11-8	REG8(11)TRH8(1)
13-8	UV8(1)TRH8(2)
87	2TB(87)AH8(2)
89	REG8(19)AH8(1)
11-9	REG9(11)TRH9(1)
13-9	UV9(1)TRH9(2)
97	2TB(97)AH9(2)
99	REG9(19)AH9(1)
11-10	REG10(11)TRH10(1)
13-10	UV10(1)TRH10(2)
107-10	2TB(107)AH10(2)
109-10	REG10(19)AH10(1)
11-11	REG11(11)TRH11(1)
13-11	UV11(1)TRH11(2)
117	2TB(117)AH11(2)
119	REG11(19)AH11(1)
11-12	REG12(11)TRH12(1)
13-12	UV12(1)TRH12(2)
127	2TB(127)AH12(2)
129	REG12(19)AH12(1)
9-7	TRH-7(3),2TB(9-7)
9-8	TRH-8(3),2TB(9-8)
9-9	TRH-9(3),2TB(9-9)
9-10	TRH-10(3),2TB(9-10)
9-11	TRH-11(3),2TB(9-11)
9-12	TRH12(3),2TB(9-12)

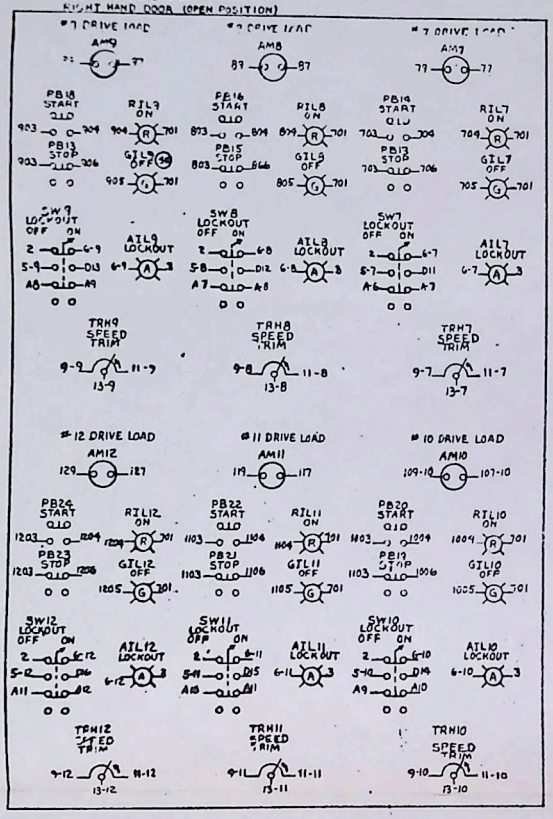
109472
WIRE TABLE

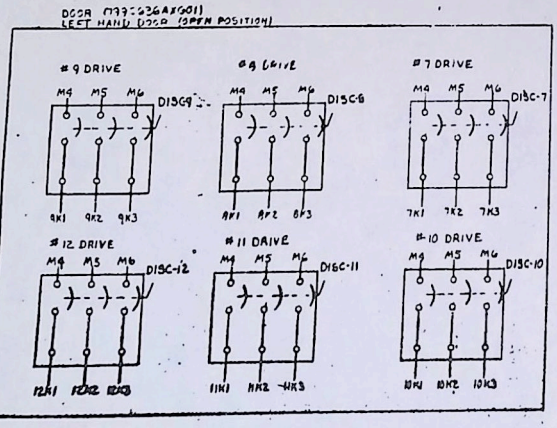

DOOR 799C638ADG01
RIGHT HAND DOOR (OPEN POSITION)
#3 DRIVE LOAD
#2 DRIVE LOAD
#1 DRIVE LOAD
AM3
AM2
AM1
PB6 START QLD
RIL3 ON
PB5 STOP
GIL3 OFF
PB4 START QLD
RIL2 ON
PB3 STOP
GIL2 OFF
PB2 START QLD
RIL1 ON
PB1 STOP
GIL1 OFF
SW3 LOCKOUT OFF ON
AIL3 LOCKOUT
SW2 LOCKOUT OFF ON
AIL2 LOCKOUT
SW1 LOCKOUT OFF ON
AIL1 LOCKOUT
TRH3 SPEED TRIM
TRH2 SPEED TRIM
TRH1 SPEED TRIM
#6 DRIVE LOAD
#5 DRIVE LOAD
#4 DRIVE LOAD
AM6
AM5
AM4
PB12 START QLD
RIL6 ON
PB11 STOP
GIL6 OFF
PB10 START QLD
RIL5 ON
PB9 STOP
GIL5 OFF
PB8 START QLD
RIL4 ON
PB7 STOP
GIL4 OFF
SW6 LOCKOUT OFF ON
AIL6 LOCKOUT
SW5 LOCKOUT OFF ON
AIL5 LOCKOUT
SW4 LOCKOUT OFF ON
AIL4 LOCKOUT
TRH6 SPEED TRIM
TRH5 SPEED TRIM
TRH4 SPEED TRIM

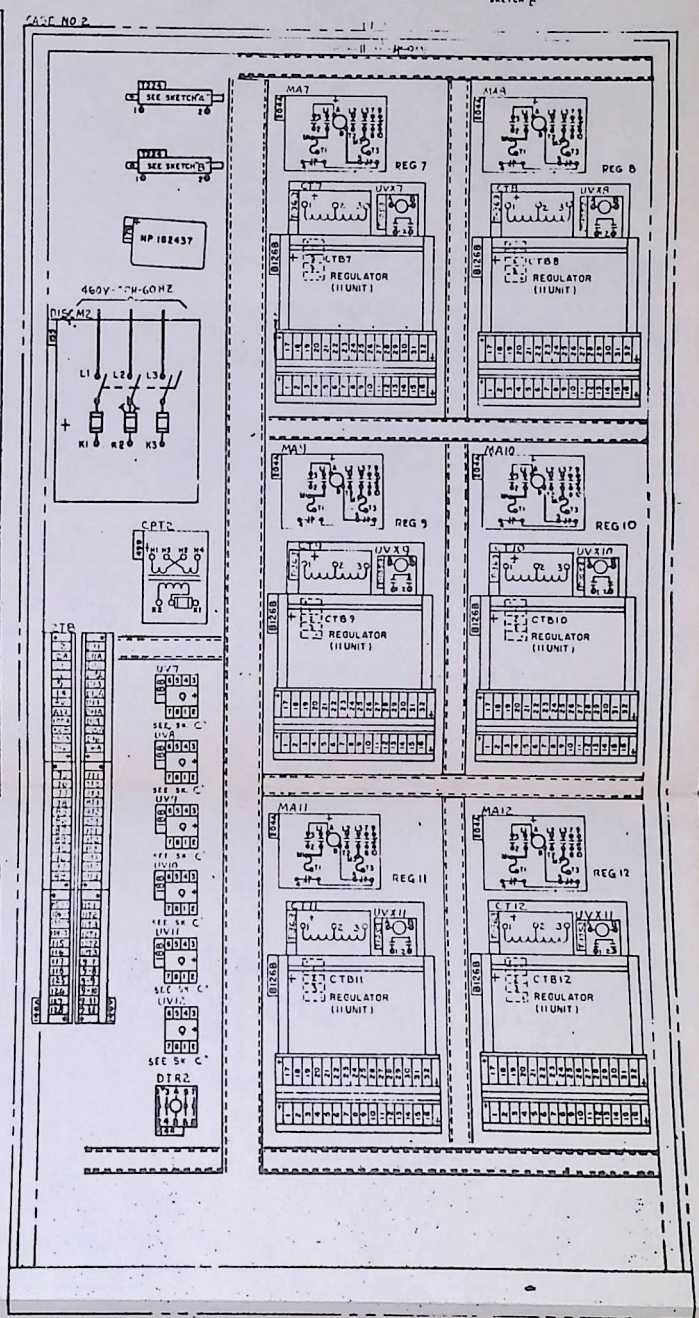

DOOR (799C636AXG01)
LEFT HAND DOOR (OPEN POSITION)
#3 DRIVE
#2 DRIVE
#1 DRIVE
DISC-3
DISC-2
DISC-1
#6 DRIVE
#5 DRIVE
#4 DRIVE
DISC-6
DISC-5
DISC-4

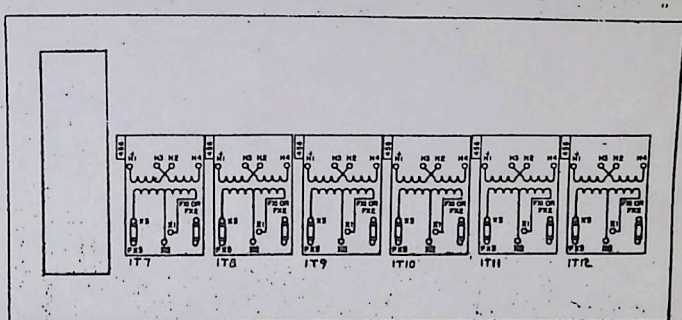

CASE NO 1
DT-1
SEE SKETCH A
SEE SKETCH B
NP 182437
460V-3PH-60HZ
DISCM1
L1
L2
L3
K1
K2
K3
GPT1
MA1
MA2
MA3
MA4
MA5
MA6
REGULATOR (1 UNIT)


IT1
IT2
IT3
IT4
IT5
IT6

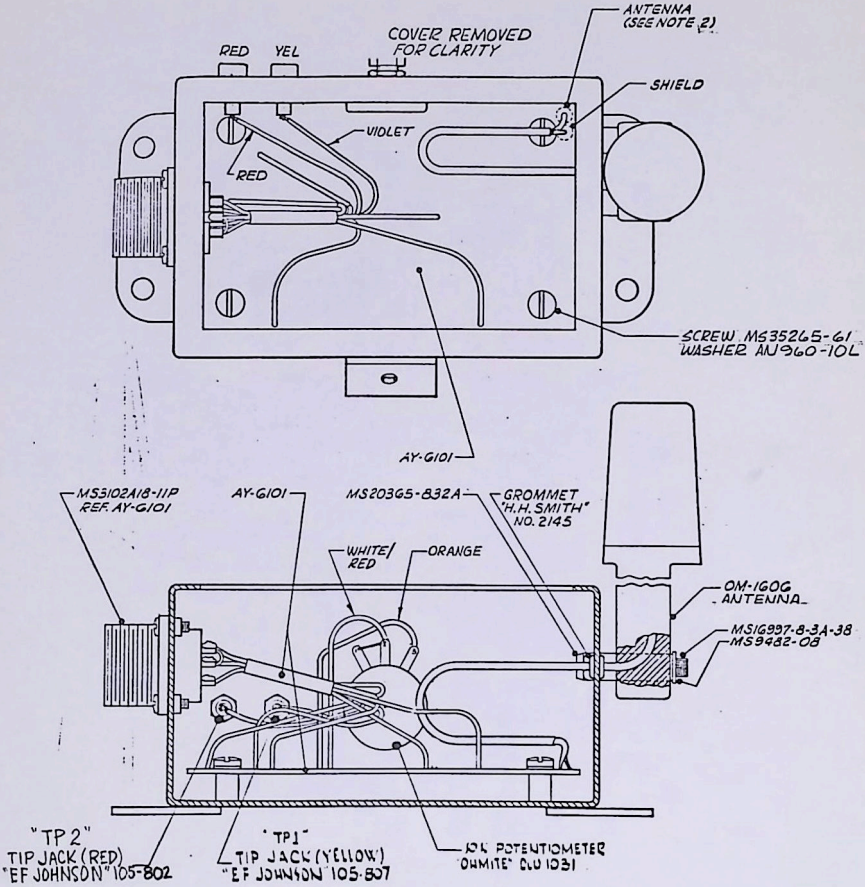

DOOR 7997638ADG01
RIGHT HAND DOOR (OPEN POSITION)
#7 DRIVE LOAD
AM9
AM8
AM7
PB18 START QUD
RIL9 ON
PB13 STOP
GIL9 OFF
PB16 START QUD
RIL8 ON
PB15 STOP
GIL8 OFF
PB19 START QUD
RIL7 ON
PB13 STOP
GIL7 OFF
SW9 LOCKOUT OFF ON
AIL9 LOCKOUT
SW8 LOCKOUT OFF ON
AIL8 LOCKOUT
SW7 LOCKOUT OFF ON
AIL7 LOCKOUT
TRH9 SPEED TRIM
TRH8 SPEED TRIM
TRH7 SPEED TRIM
#12 DRIVE LOAD
AM12
#11 DRIVE LOAD
AM11
#10 DRIVE LOAD
AM10
PB24 START QUD
RIL12 ON
PB23 STOP
GIL12 OFF
PB22 START QUD
RIL11 ON
PB21 STOP
GIL11 OFF
PB20 START QUD
RIL10 ON
PB19 STOP
GIL10 OFF
SW12 LOCKOUT OFF ON
AIL12 LOCKOUT
SW11 LOCKOUT OFF ON
AIL11 LOCKOUT
SW10 LOCKOUT OFF ON
AIL10 LOCKOUT
TRH12 SPEED TRIM
TRH11 SPEED TRIM
TRH10 SPEED TRIM


DOOR 7997636AX(G01)
LEFT HAND DOOR (OPEN POSITION)
#9 DRIVE
DISC-9
#8 DRIVE
DISC-8
#7 DRIVE
DISC-7
#12 DRIVE
DISC-12
#11 DRIVE
DISC-11
#10 DRIVE
DISC-10

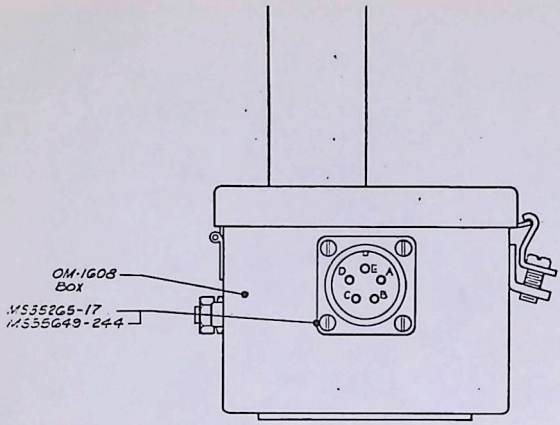

CASE NO 2
SEE SKETCH A
SEE SKETCH B
NP 182437
460V-3PH-60HZ
DISC M2
L1 L2 L3
K1 K2 K3
CPT2
TB
UV7
UV8
UV9
UV10
UV11
UV12
DTR2
MA7
MA8
MA9
MA10
MA11
MA12
REG 7
REG 8
REG 9
REG 10
REG 11
REG 12
CTB7 REGULATOR (11UNIT)
CTB8 REGULATOR (11UNIT)
CTB9 REGULATOR (11UNIT)
CTB10 REGULATOR (11UNIT)
CTB11 REGULATOR (11UNIT)
CTB12 REGULATOR (11UNIT)

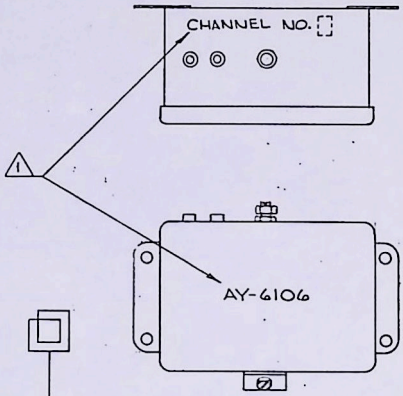

IT7
IT8
IT9
IT10
IT11
IT12

AUDIO

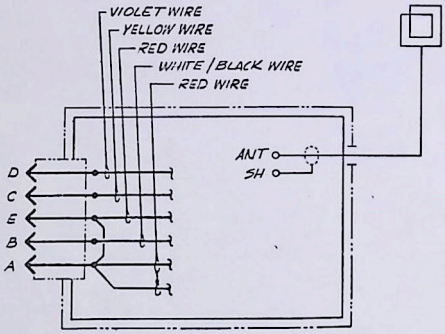


AY-6106
FM RECEIVER ASSEMBLY
SHEET 1 OF 2

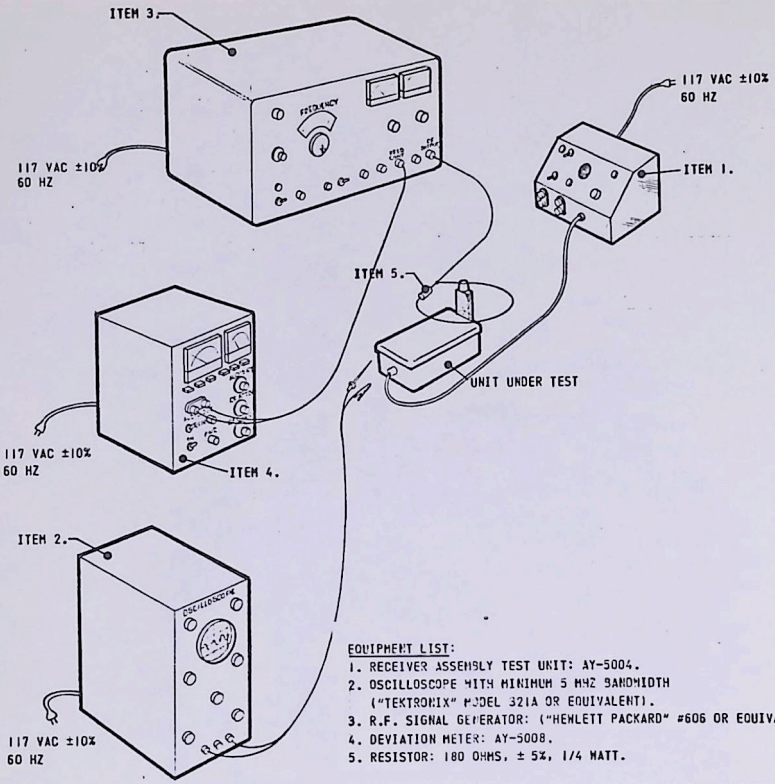




DETAIL: STENCILS LOCATION



SCHEMATIC DIAGRAM SHOWING CONNECTOR PIN DESIGNATION & WIRE COLORS. (REF. AY-G101)



EQUIPMENT LIST:

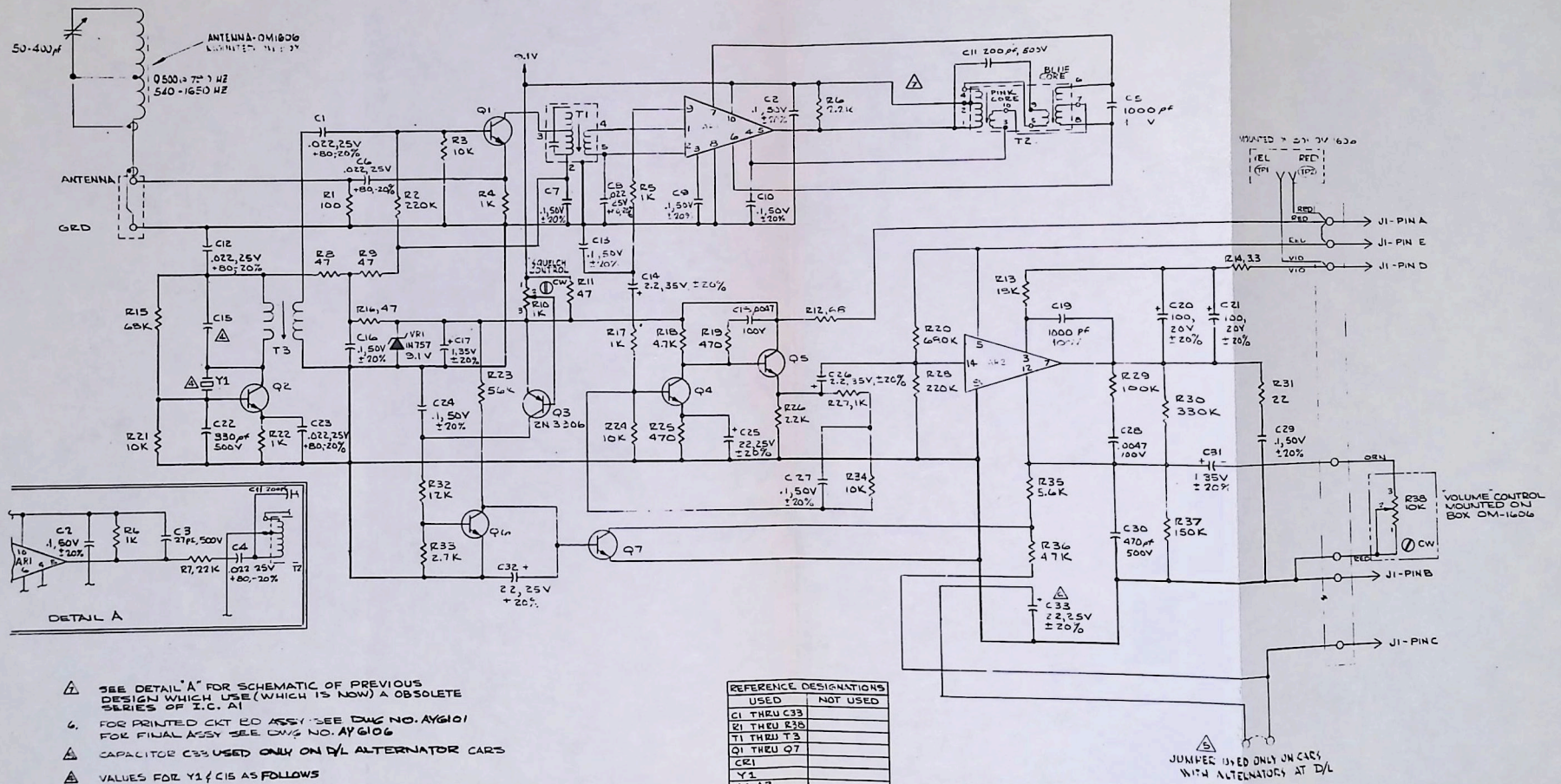
1. RECEIVER ASSEMBLY TEST UNIT: AY-5004.
2. OSCILLOSCOPE WITH MINIMUM 5 MHZ BANDWIDTH ("TEKTRONIX" MODEL 321A OR EQUIVALENT).
3. R.F. SIGNAL GENERATOR: ("HEWLETT PACKARD" #606 OR EQUIVALENT).
4. DEVIATION METER: AY-5008.
5. RESISTOR: 180 OHMS, ± 5%, 1/4 WATT.

THE FOLLOWING TEST PROCEDURE PROVIDED FOR USE BY QUALIFIED ELECTRONIC TECHNICIAN PERSONNEL ONLY.

1. CHECK FOR PROPER WORKMANSHIP, CORRECT IDENTIFICATION AND INSTALLATION OF COMPONENTS AND SUBASSEMBLIES.
2. INSTALL THE PC BOARD ASSEMBLY, AY-6101 IN THE ENCLOSURE PER DRAWING AY-6106.
3. CONNECT THE PERMANENT ANTENNA, (OM-1606).
4. CHECK AND ALIGN THE COMPLETE ASSEMBLY PER THE FOLLOWING:

A. CONNECT THE OSCILLOSCOPE TO PIN 5 OF THE IF AMPLIFIER (A1). CONNECT THE R.F. SIGNAL GENERATOR AS SHOWN. SET THE FREQUENCY CAREFULLY USING THE CALIBRATOR ON THE GENERATOR. THE DEVIATION METER MUST BE CONNECTED AND THE AUDIO LEVEL AT ZERO VOLTS WHEN CALIBRATING.

B. SET THE RF LEVEL FOR A BELOW LIMITING CONDITION. ADJUST THE ANTENNA TRIMMER FOR THE MAXIMUM IF OUTPUT. READJUST THE RF LEVEL AS NECESSARY TO STAY BELOW LIMITING.



1. SEE DETAIL "A" FOR SCHEMATIC OF PREVIOUS DESIGN WHICH USE (WHICH IS NOW) A OBSOLETE SERIES OF I.C. A1
4. FOR PRINTED CKT BD ASSY SEE DWG NO. AY6101 FOR FINAL ASSY SEE DWG NO. AY6106
3. CAPACITOR C33 USED ONLY ON D/L ALTERNATOR CARS
2. VALUES FOR Y1 & C15 AS FOLLOWS

CHANNEL	VALUE IN pf	FREQ. IN KHZ
1	1000	1115
2	680	1255
3	680	1335
4	470	1435
5	470	1655

3. ALL TRANSISTORS ARE 2N 3904
2. ALL CAPACITANCE VALUES ARE IN μf, ± 5%
1. ALL RESISTORS ARE RATED IN OHMS, ± 5% 1/4 WATT

REFERENCE DESIGNATIONS	
USED	NOT USED
C1 THRU C33	
R1 THRU R38	
T1 THRU T3	
Q1 THRU Q7	
CR1	
Y1	
A1, A2	

5. JUMPER USED ONLY ON CARS WITH ALTERNATORS AT D/L

AY-6101
CIRCUIT BOARD, FM RECEIVER

APPROVAL	DATE	DEPT.
DRAWN BY A MANTLE	[illegible]	02
CHECKED BY DSI [illegible]	7-30-69	02
APPROVED M E	[illegible]	
APPROVED		
APPROVED [illegible]	7-31-69	

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NOTICE [illegible]

PAGE 1 OF 2

BILL OF MATERIAL

PROJECT DESCR. SOUND EQUIP

DOCUMENT NO.

SHEET NO. PL-6101

REV. H

UNIT OF MEASURE	REFERENCE DESIGNATION OR NOTE	QTY PER ASSY	ITEM NO	PART NUMBER	DESCRIPTION	REMARKS
			1	AY6101	CIRCUIT/B. ASSY. NARROW BAND RECVR.	
			2	10317	CIRCUIT BOARD	
			3			
			4			
EA.	C1 [illegible]	5	5	HY5[illegible]5	CAP .022 uf 25V	"SPRAGUE"
EA	[illegible]	9	6	C280AE/A100K	CAP .1 uf 50V ± 10%	"AMPEREX"
			7			
EA	C5, C19	2	8	DM-15-102J	CAP 1000 pf 100V	"ELMENCO"
EA	C11	1	9	DM-15-201J	CAP 200 pf 500V	"ELMENCO"
EA	C14, C26	2	10	K2R2E35	CAP 2.2 uf 35V	"KEMET"
EA	C15 (CH1)	1	11	DM-15-102J	CAP 1000 pf 100V	"ELMENCO"
EA	C15 (CH2) C15 (CH3)	1	12	DM-15-681J	CAP 680 pf 500V	"ELMENCO"
EA	C15 (CH4) C15 (CH5)	1	13	DM-15-471J	CAP 470 pf 500V	"ELMENCO"
EA.	C17, C31	2	14	K1E35	CAP 1 uf 35V	"KEMET"
EA.	C18, C28	2	15	MR700	CAP .0047 uf 100V	"PANTRON"
EA.	C20, C21	2	16	K100E20	CAP 100 uf 20V	"KEMET"
EA	C22	1	17	DM-15-331J	CAP 300 pf 500V	"ELMENCO"
EA	C25, C32, C33	3	18	K22E25	CAP 22 uf 25V	"KEMET"
EA.	C30	1	19	DM-15-471J	CAP 470 pf 500V	"ELMENCO"
EA	T3	1	20	3370-16	COIL	"CAMBION"
EA	Y1 (CH-1)	1	21	TC-23	XTAL 1115 KHZ SERIES RESONANT FUNDAMENTAL NON HEATED .005%	"TEXAS XTAL"
EA.	Y1 (CH-2)	1	22	TC-[illegible]	XTAL 1255 KHZ SERIES RESONANT FUNDAMENTAL NON HEATED .005%	"TEXAS XTAL"
EA.	Y1 (CH-3)	1	23	TC-[illegible]	XTAL 1355 KHZ SERIES RESONANT FUNDAMENTAL NON HEATED .005%	"TEXAS XTAL"
EA.	Y1 (CH-4)	1	24	TC-[illegible]	XTAL 1455 KHZ SERIES RESONANT FUNDAMENTAL NON HEATED .005%	"TEXAS XTAL"
EA.	Y1 (CH-5)	1	25	TC-[illegible]	XTAL 1655 KHZ SERIES RESONANT FUNDAMENTAL NON HEATED .005%	"TEXAS XTAL"
EA.	VR1	1	26	1N757	DIODE ZENER 9.1V	
EA.	AR1	1	27	CA3014	INTEGRATED CIRCUIT	"R.C.A."
EA.	AR2	1	28	PA237	INTEGRATED CIRCUIT	"G.E."
EA.	R10	1	29	66WR1K	POTENTIOMETER 1K	"HELITRIM"
			30			
EA	R1	1	31	B8-031-04NB/100E	RESISTOR 100Ω 1/4W ± 5%	"AMPEREX"
EA.	R2, R28	2	32	B8-031-04NB/220K	RESISTOR 220K 1/4W ± 5%	"AMPEREX"
EA.	R3, R21, R24, R34	4	33	B8-031-04NB/10K	RESISTOR 10K 1/4W ± 5%	"AMPEREX"
EA.	R4, R5, R6, R7, R22, R27	6	34	B8-031-04NB/1K	RESISTOR 1K 1/4W ± 5%	"AMPEREX"
EA	R12	1	35	B8-031-04NB/68E	RESISTOR 68Ω 1/4W ± 5%	"AMPEREX"
EA	R8, R9, R11, [illegible]	4	36	B8-031-04NB/47E	RESISTOR 47Ω 1/4W ± 5%	"AMPEREX"
EA.	R13	1	37	B8-031-04NB/18K	RESISTOR 18K 1/4W ± 5%	"AMPEREX"
EA.	R14	1	38	B8-031-04NB/3E3	RESISTOR 3.3Ω 1/4W ± 5%	"AMPEREX"
EA	R15	1	39	B8-031-04NB/68K	RESISTOR 68K 1/4W ± 5%	"AMPEREX"
EA.	R18	1	40	B8-031-04NB/4K7E	RESISTOR 4.7K 1/4W ± 5%	"AMPEREX"
EA.	R19, R25	2	41	B8-031-04NB/470E	RESISTOR 470Ω 1/4W ± 5%	"AMPEREX"
EA.	R20	1	42	B8-031-04NB/680K	RESISTOR 680K 1/4W ± 5%	"AMPEREX"
EA.	R23	1	43	B8-031-04NB/56K	RESISTOR 56K 1/4W ± 5%	"AMPEREX"
EA.	R26	1	44	B8-031-04NB/2K2	RESISTOR 2.2K 1/4W ± 5%	"AMPEREX"
EA.	R29	1	45	B8-031-04NB/100K	RESISTOR 100K 1/4W ± 5%	"AMPEREX"
EA.	R30	1	46	B8-031-04NB/330K	RESISTOR 330K 1/4W ± 5%	"AMPEREX"
EA.	R31	1	47	B8-031-04NB/22E	RESISTOR 22Ω 1/4W ± 5%	"AMPEREX"
EA	R32	1	48	B8-031-04NB/12K	RESISTOR 12K 1/4W ± 5%	"AMPEREX"
EA.	R33	1	49	B8-031-04NB/2K7	RESISTOR 2.7K 1/4W ± 5%	"AMPEREX"
EA.	R35	1	50	B8-031-04NB/5K6	RESISTOR 5.6K 1/4W ± 5%	"AMPEREX"
EA.	R36	1	51	B8-031-04NB/47K	RESISTOR 47K 1/4W ± 5%	"AMPEREX"
EA	R37	1	52	B8-031-04NB/150K	RESISTOR 150K 1/4W ± 5%	"AMPEREX"
			53			
EA	Q1, Q2, Q4, [illegible]	6	54	2N3904	TRANSISTOR	"MOTOROLA"
EA	Q3	1	55	2N3906	TRANSISTOR	"MOTOROLA"
			56			
EA	T1	1	57	8811-455KC	TRANSFORMER IF	J.W. MILLER
EA	T2	1	58	8805-455KC	RATIO DETECTOR	J.W. MILLER
			59			

APPROVAL		DATE	DEPT.
DRAWN BY	A LIANTLE	29 July 69	02
CHECKED BY	DSI ACS	7-30-69	02
APPROVED	NIB	7-31-69	
APPROVED			
APPROVED	[illegible]	7-31-69	

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PAGE 2 OF 2

BILL OF MATERIAL

PROJECT DESCR. SOUND EQUIP

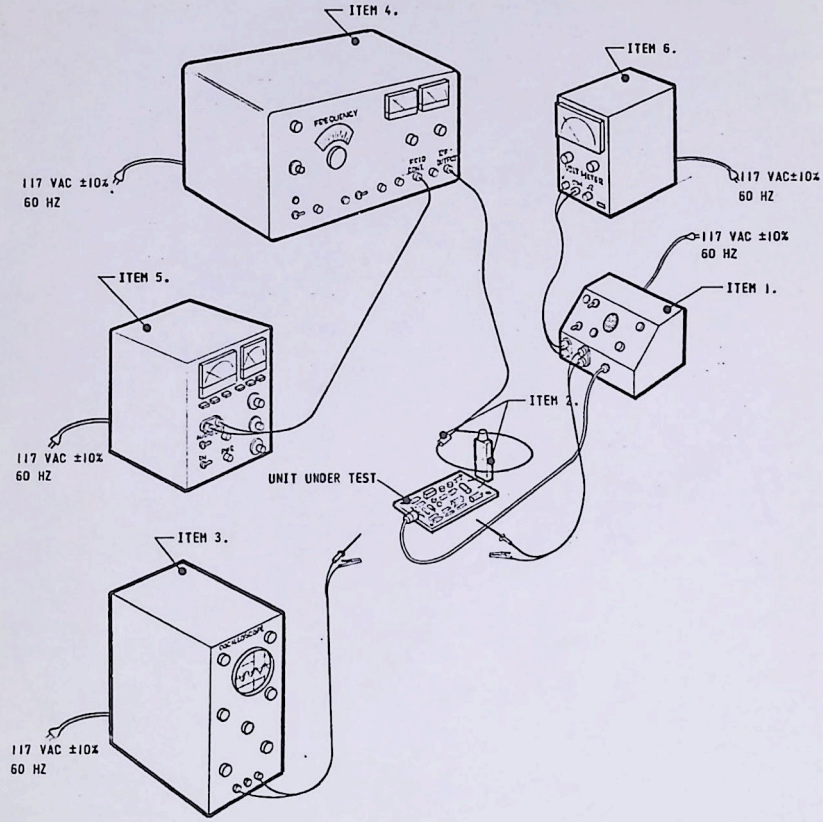
DOCUMENT NO.

SHEET NO. PL-6101

REV. H

7-2-71

UNIT OF MEASURE	REFERENCE DESIGNATION OR NOTE	QTY PER ASSY	ITEM NO.	PART NUMBER	DESCRIPTION	REMARKS
EA.	XY1	1	60	550-1	CRYSTAL SOCKET	TEXAS XTAL
			61			
EA	J1	1	62	3102A-18-11P	RECEPTACLE 5-PIN MALE	AMPHENOL
			63			
EA		1	64		NUT #4-40 SMALL PATT SST	
EA.		1	65		SCREW #4-40 RD HD. 5/8 LG SST	
			66			
		A/R	67		WIRE #20 AWG	
			68			
IN.		A/R	69	FIT-221-3/16	SHRINK TUBING 3/16 DIA	ALPHA
			70			
			71			
			72			
			73			
			74			
			75			
			76			
			77			
			78			
			79			
			80			



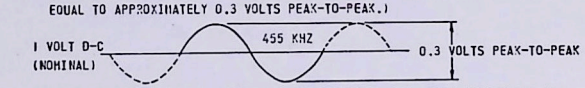
ET-6101
ELECTRICAL TEST, PCB ASSEMBLY FM RECEIVER
SHEET 1 OF 2

EQUIPMENT LIST:

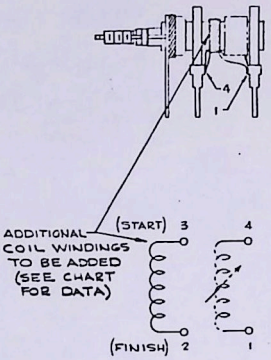
1. RECEIVER ASSEMBLY TEST UNIT: AY-5004.
2. ANTENNA ASSEMBLY: CM-1606; RESISTOR: 180 OHMS, ±5%, 1/4 WATT.
3. OSCILLOSCOPE WITH MINIMUM 5 MHZ BANDWIDTH ("TEKTRONIX" MODEL 321A OR EQUIVALENT).
4. R.F. SIGNAL GENERATOR ("HEWLETT PACKARD" HP606 OR EQUIVALENT).
5. DEVIATION METER: AY-5008.
6. VOLTMETER ("HEWLETT PACKARD" HP 427A OR EQUIVALENT).

THE FOLLOWING TEST PROCEDURE PROVIDED FOR USE BY QUALIFIED ELECTRONIC TECHNICIAN PERSONNEL ONLY.

1. CHECK FOR PROPER WORKMANSHIP, CORRECT IDENTIFICATION AND INSTALLATION OF COMPONENTS AND SUBASSEMBLIES.
2. ON THE PC BOARD ASSEMBLY, AY-6101, TEMPORARILY ATTACH A DUMMY ANTENNA. (ITEM 2.)
3. CONNECT THE UNIT UNDER TEST TO THE TEST SET (AY-5004).
4. REMOVE THE CRYSTAL FROM THE RECEIVER AND APPLY POWER, TURNING THE TEST SET POWER "ON".
5. INJECT A 455 KHZ SIGNAL FROM THE TEST UNIT "GENERATOR OUTPUT" AT R1 AND WITH AN OSCILLOSCOPE ON PIN 5 OF A1, ADJUST THE "ATTENUATOR" LEVEL TO BELOW LIMITING.
6. TUNE THE INPUT IF TRANSFORMER T1 TO "PEAK". READJUST THE 455 KHZ LEVEL AS NECESSARY TO STAY BELOW LIMITING. RECHECK THE "PEAK" ADJUSTMENT.
7. INCREASE THE 455 KHZ LEVEL TO MAXIMUM AND CHECK FOR GOOD LIMITING.
8. MOVE THE OSCILLOSCOPE TO THE JUNCTION OF R5 AND C13. THE D-C LEVEL SHOULD BE APPROXIMATELY 1 VOLT. ADJUST THE BLUE SLUG ON T2 TO FIND THE POSITIVE AND NEGATIVE PEAKS. SET TO THE MIDPOINT BETWEEN THE PEAKS. (VOLTAGE EQUAL TO APPROXIMATELY 0.3 VOLTS PEAK-TO-PEAK.)

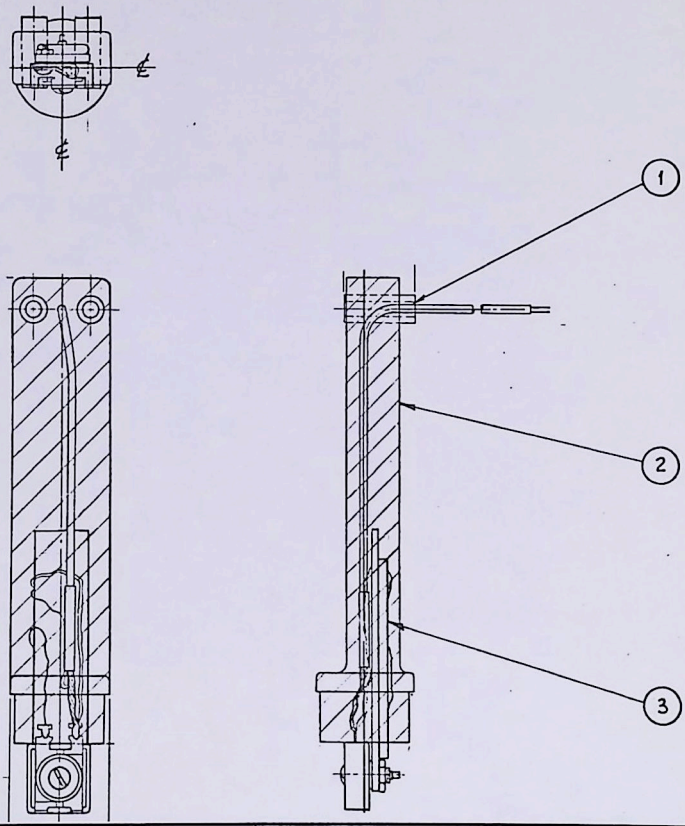


9. TUNE THE PINK SLUG ON T2 FOR MAXIMUM POSITIVE PEAK, THEN READJUST THE BLUE SLUG TO THE MIDPOINT AS REQUIRED. REMOVE THE 455 KHZ INPUT.
10. PLUG IN THE CRYSTAL AND CONNECT AN OSCILLOSCOPE TO THE OSCILLATOR COIL SECONDARY, (T3) AT C1. ADJUST T3 FOR THE LOW FREQUENCY END OF THE OSCILLATION RANGE. CHECK STABILITY BY TURNING POWER "OFF", THEN "ON". THE OSCILLATOR SHOULD RESTART AND BE STABLE WHEN THE SWITCH IS TURNED "ON" FROM "OFF".
11. MOVE THE OSCILLOSCOPE TO PIN 5 OF THE IF AMPLIFIER (A1). CONNECT THE HP606 AS SHOWN. SET THE FREQUENCY CAREFULLY USING THE CALIBRATOR ON THE GENERATOR. THE DEVIATION METER MUST BE CONNECTED AND THE AUDIO LEVEL AT ZERO VOLTS WHEN CALIBRATING.
12. SET THE RF LEVEL FOR A BELOW LIMITING CONDITION. ADJUST THE ANTENNA TRIMMER FOR THE MAXIMUM IF OUTPUT. READJUST THE RF LEVEL AS NECESSARY TO STAY BELOW LIMITING.
13. SET THE GENERATOR OUTPUT TO 0.7 VOLTS RMS AND THE DEVIATION TO 1 KHZ AT A MODULATION FREQUENCY OF 1 KHZ. ADJUST THE VOLUME CONTROL, R38, TO 0.4 VOLTS RMS ACROSS THE DUMMY SPEAKER LOAD. (USE VOLTMETER AS SHOWN IN TEST SET-UP.)
14. LOWER THE GENERATOR LEVEL BY 20 DB TO .07 VOLTS RMS, AND ADJUST THE SQUELCH THRESHOLD, R10. LOWER THE RF LEVEL AND SLOWLY INCREASE TO CHECK THE SQUELCH THRESHOLD. IT SHOULD BE −20 DB ±2 DB BELOW 0.7 VOLTS RMS.
15. DISCONNECT THE DUMMY ANTENNA.
16. "RUBBER STAMP" RECEIVER FREQUENCY/CHANNEL AND SERIALIZE BEGINNING WITH "0100".



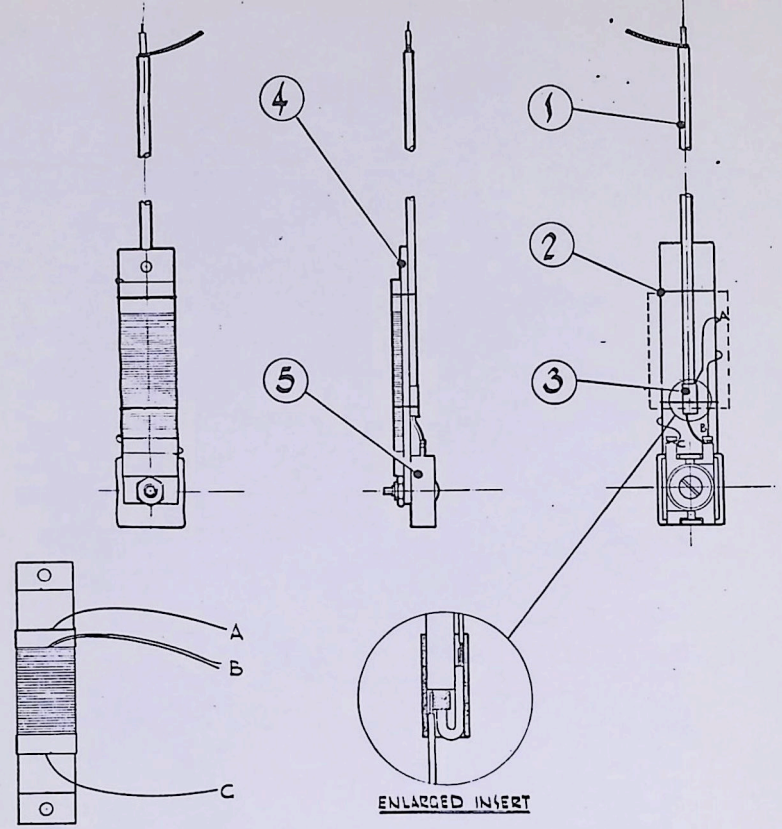
COIL DATA CHART				
COIL PART NO.	NO. OF TURN	START TERM.	FINISH TERM.	WIRE SIZE, AWG
3370-21	14 1/2	3	2	34
3370-24	29 1/2	3	2	34
3370-16	5 1/2	3	2	34

10320
COIL MODIFICATION, FM SYSTEM



ITEM	WDP NO.	PART NO.	DESCRIPTION	QTY.
1.		AY-6120	TUBING	2
2.			URETHANE (MOULDED)	A/R
3.			ANTENNA SUB-ASSEMBLY	1

0M1606
ANTENNA ASSEMBLY

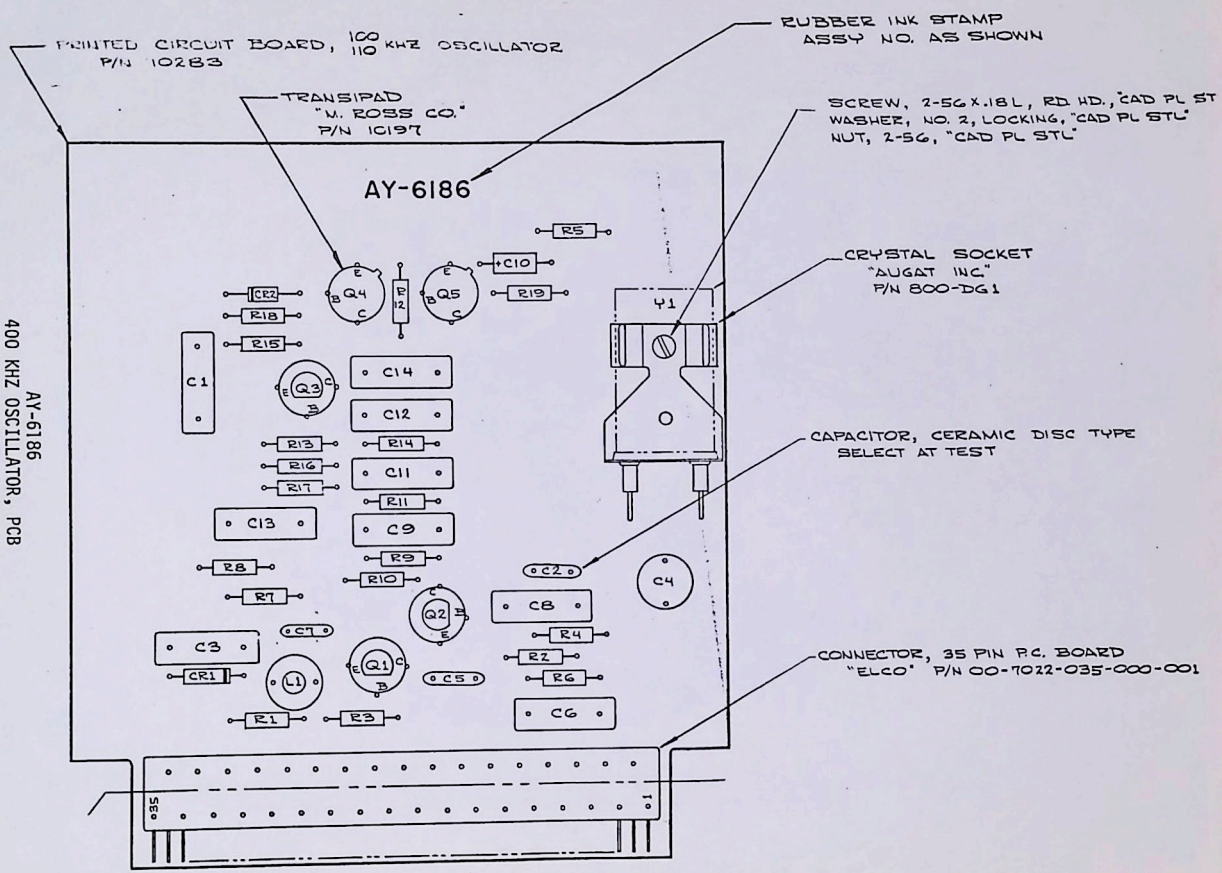


SKETCH IDENTIFYING LEADS.
SEE VIEW AT LEFT FOR CONNECTIONS

QTY	ITEM NO	PART NUMBER	DESCRIPTION	NOTE
	8			
	7			
	6			
1	5	160-B	CAPACITOR 50-400pfd J.W.MILLER	
1	4	2004	RADIO COIL J.W. MILLER	
1"	3	FIT-221-1/2	SHRINK TUBING 1/2 I.D. "ALPHLEX"	WHT
1½	2	FIT-221-3/4	SHRINK TUBING 3/4 I.D. ALPHLEX	WHT
15"	1	RG174/U	COAX	

LIST OF MATERIAL

AY-6120
FM RECEIVER ANTENNA SUB-ASSY.



AY-6186
400 KHZ OSCILLATOR, PCB

APPROVAL		DATE	DEPT.
DRAWN BY	[illegible]	8/22/65	02
CHECKED BY	[illegible]	[illegible]	02
APPROVED	E.C.	[illegible]	
APPROVED			
APPROVED	[illegible]	[illegible]	

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[illegible]

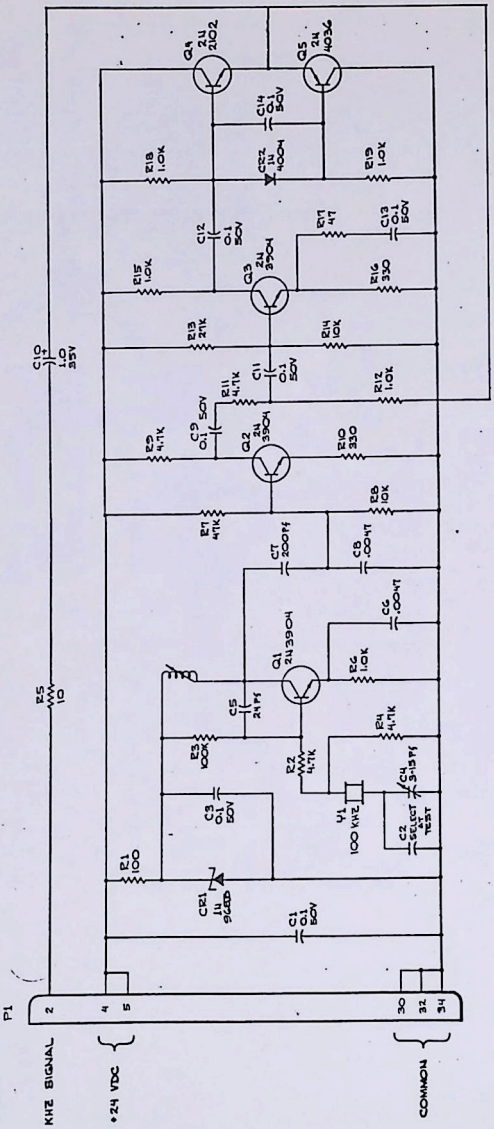
PAGE 1 OF 1

BILL OF MATERIAL

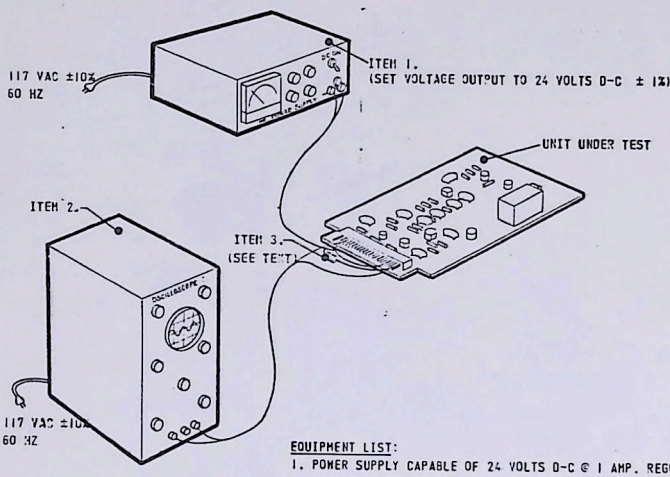
PROJECT DESCR.
DOCUMENT NO.
SHEET NO. PL-6186

REV. A

UNIT OF MEASURE	REFERENCE DESIGNATION OR NOTE	QTY PER ASSY	ITEM NO	PART NUMBER	DESCRIPTION	REMARKS
REF		REF		SD-6186	SCHEMATIC DIAGRAM	REFERENCE
				AY-6186	ASSY- 100 KHZ OSC. BOARD	
EA		1	1	10283	P.C. BOARD 100/110 KHZ OSCILLATOR	
EA	C1,3,11-14	6	2	ME-700	CAPACITOR, 0.1µfd, 50VDC	"PAKTRON"
EA	C2	1	3		CAPACITOR (SEE AY-6186 GN 1)	—
EA	C4	1	4	538-011-E2PO-1	(CONTINUED)	—
—	—	—	—	10R	CAPACITOR, VARIABLE, 3-15 pf	"ERIE"
EA	C5	1	5	CD15ED240J03	CAPACITOR, SILV. MICA, 24pf, 300V	"CORN. DUB."
EA	C6, C8	2	6	MR-70C	CAPACITOR, .0047µfd, 50VDC	"PAKTRON"
EA	C7	1	7	CD15FD201J03	CAPACITOR, SILV. MICA, 200pf, 300V	"CORN. DUB."
EA	C9	1	8	MR-700	CAPACITOR, 1.0µfd, 50VDC	"PAKTRON"
EA	CR1	1	9	1N968B	DIODE, ZENER, 20V	—
EA	CR2	1	10	1N4004	DIODE	—
EA	L1	1	11	V1V4700	COIL, MINIATURE, 4700 µh	"ESSEX"
EA	P1	1	12	00-7022-035-00	(CONTINUED)	
—	—	—	—	0-001	CONNECTOR, P.C., 35 PIN	"ELCO"
EA	Q1,Q2,Q3	3	13	2N3904	TRANSISTOR	—
EA	Q4	1	14	2N2102	TRANSISTOR	—
EA	Q5	1	15	2N4036	TRANSISTOR	—
EA	R1	1	16	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	100E	RESISTOR, 100Ω, ±5%, 1/4W	"AMPEREX"
EA	R2,4,9,11	4	17	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	4K7	RESISTOR, 4700Ω, ±5%, 1/4W	"AMPEREX"
EA	R3	1	18	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	100K	RESISTOR, 100K, ±5%, 1/4W	"AMPEREX"
EA	R5	1	19	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	10E	RESISTOR, 10Ω, ±5%, 1/4W	"AMPEREX"
EA	R6,12,15,18,19	5	20	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	1K	RESISTOR, 1K, ±5%, 1/4W	"AMPEREX"
EA	R7	1	21	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	47K	RESISTOR, 47K, ±5%, 1/4W	"AMPEREX"
EA	R8, R14	2	22	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	10K	RESISTOR, 10K, ±5%, 1/4W	"AMPEREX"
EA	R10, R16	2	23	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	330E	RESISTOR, 330Ω, ±5%, 1/4W	"AMPEREX"
EA	R13	1	24	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	27K	RESISTOR, 27K, ±5%, 1/4W	"AMPEREX"
EA	R17	1	25	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	47E	RESISTOR, 47Ω, ±5%, 1/4W	"AMPEREX"
EA	Y1	1	26		CRYSTAL, 100 KHZ (SEE AY-6186 GN 2)	"TEXAS CRYSTALS"
EA		1	27	8000DG1	CRYSTAL SOCKET AND CLIP	"AUGAT"
EA		5	28	10137	TRANSIPAD	M. ROSS CO.
EA		1	29		SCREW, 2-56 X .18L, RD HD	"CAD PL STL"
EA		1	30		WASHER, NO. 2, LOCKING	"CAD PL STL"
EA		1	31		NUT, 2-56	"CAD PL STL"
EA	C10	1	32	6609	CAPACITOR 1µf 35V	DICKENSON



SD-6186
SCHEMATIC DIAGRAM, 100 KHZ OSCILLATOR

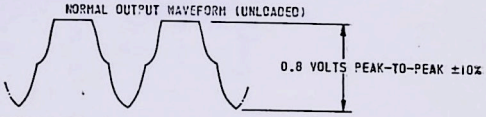


EQUIPMENT LIST:

1. POWER SUPPLY CAPABLE OF 24 VOLTS D-C @ 1 AMP. REGULATED. ("HEATH" #IPH-27 OR EQUIVALENT).
2. OSCILLOSCOPE WITH MINIMUM 5 MHZ BANDWIDTH ("TEKTRONIX" MODEL 321A OR EQUIVALENT).
3. 100 OHM, ± 5%-1/4 WATT RESISTOR.

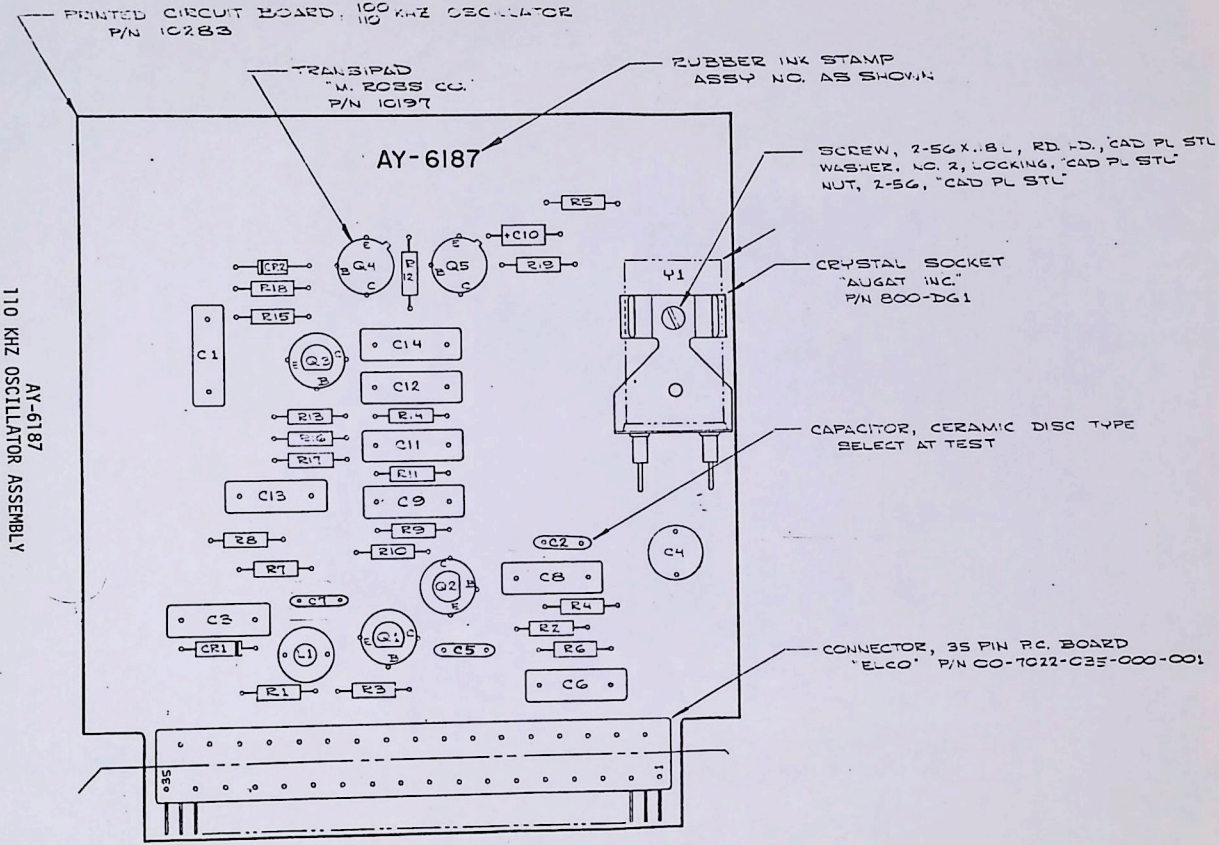
THE FOLLOWING TEST PROCEDURE PROVIDED FOR USE BY QUALIFIED ELECTRONIC TECHNICIAN PERSONNEL ONLY.

1. CHECK FOR PROPER WORKMANSHIP, CORRECT IDENTIFICATION AND INSTALLATION OF COMPONENTS AND SUBASSEMBLIES.
2. APPLY 24 VOLTS D-C ... THE "POSITIVE" LEAD TO PIN 4, THE "COMMON" LEAD TO PIN 34.
3. CONNECT AN OSCILLOSCOPE TO THE OUTPUT, PIN 2. ADJUST L1 FOR THE CORRECT "FREQUENCY LOCK" TO CRYSTAL. CHECK THE STABILITY BY TURNING THE POWER "OFF" THEN BACK "ON". THE OSCILLATOR SHOULD RESTART AFTER RESTORATION OF POWER.



4. LOAD THE OUTPUT WITH A 100 OHM ±5%-1/4 WATT RESISTOR LOAD. THE VOLTAGE SHOULD DROP TO 0.6 VOLTS PEAK-TO-PEAK ±20% AS OBSERVED ON AN OSCILLOSCOPE.
5. ADJUST THE OUTPUT FREQUENCY BY TUNING C4 AND SELECTING C2 AS REQUIRED. ADJUST TO 100 KHZ±.01% (10 HZ).

ET-6186
ELECTRICAL TEST, 100 KHZ OSCILLATOR



AY-6187
110 KHZ OSCILLATOR ASSEMBLY

APPROVAL		DATE	DEPT
DRAWN BY	[illegible]	8/22/[illegible]	02
CHECKED BY	[illegible]	[illegible]	[illegible]
APPROVED	EC	9-2-69	
APPROVED			
APPROVED	[illegible]	[illegible]	

WED ENTERPRISES, INC.

engineering

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NOTICE

PAGE 1 OF 1

BILL OF MATERIAL

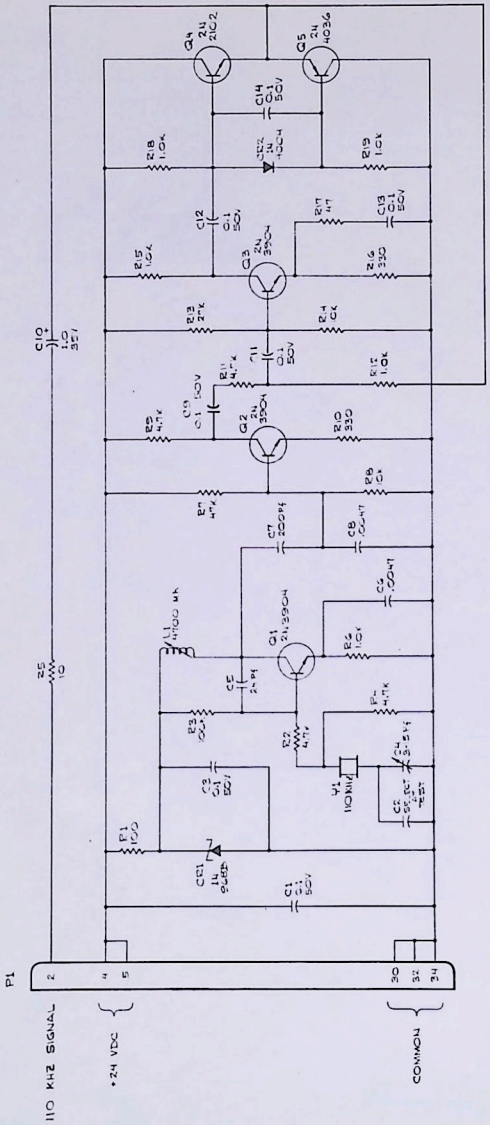
PROJECT DESCR.

DOCUMENT NO.

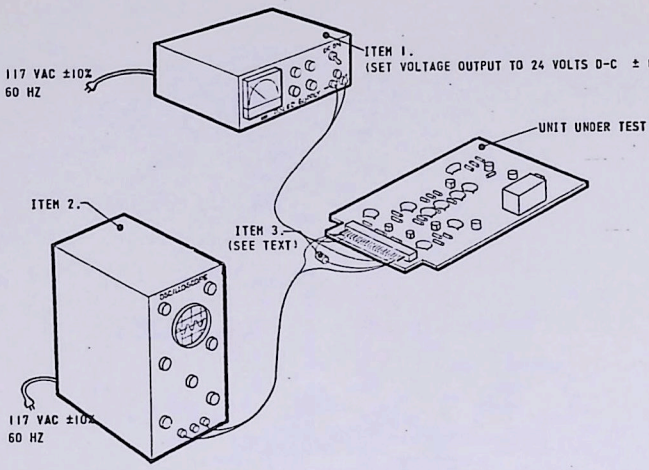
SHEET NO. PL-6187

REV. A

UNIT OF MEASURE	REFERENCE DESIGNATION OR NOTE	QTY PER ASSY	ITEM NO	PART NUMBER (1–15)	DESCRIPTION	REMARKS
REF		REF		SD-6187	SCHEMATIC DIAGRAM	REFERENCE
				AY-6187	ASSY- 110 KHZ OSC. BOARD	
EA		1	1	10283	P.C. BOARD 100 KHZ OSCILLATOR	
EA	C1,3,11-14	6	2	MR-700	CAPACITOR, 0.1 µfd, 50VDC	"PAKTRON"
EA	C2	1	3		CAPACITOR (SEE AY-6187 G/N 1)	—
EA	C4	1	4	538-011-E2PO-1	(CONTINUED)	—
—	—	—	—	10R	CAPACITOR, VARIABLE, 3-15 PF	"ERIE"
EA	C5	1	5	CD15ED240J03	CAPACITOR, SILV. MICA 24PF, 300V	"CORN. DUB"
EA	C6, C8	2	6	MR-700	CAPACITOR, .0047 µfd, 50VDC	"PAKTRON"
EA	C7	1	7	CD15FD201J03	CAPACITOR, SILV. MICA, 200PF, 300V	"CORN. DUB"
EA	C9	1	8	MR-700	CAPACITOR, 1.0 µfd, 50VDC	"PAKTRON"
EA	CR1	1	9	1N968B	DIODE, ZENER, 20V	—
EA	CR2	1	10	1N4004	DIODE	—
EA	L1	1	11	V1V4700	COIL, MINIATURE, 4700 uh	"ESSEX"
EA	P1	1	12	02-7022-035-00	(CONTINUED)	
—	—	—	—	0-001	CONNECTOR, P.C., 35 PIN	"ELCO"
EA	Q1,Q2,Q3	3	13	2N3904	TRANSISTOR	—
EA	Q4	1	14	2N2102	TRANSISTOR	—
EA	Q5	1	15	2N4036	TRANSISTOR	—
EA	R1	1	16	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	100E	RESISTOR, 100Ω, ±5%, 1/4W	"AMPEREX"
EA	R2,4,9,11	4	17	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	4K7	RESISTOR, 4700Ω, ±5%, 1/4W	"AMPEREX"
EA	R3	1	18	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	100K	RESISTOR, 100K, ±5%, 1/4W	"AMPEREX"
EA	R5	1	19	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	10E	RESISTOR, 10Ω, ±5%, 1/4W	"AMPEREX"
EA	R6,12,15,18,9	5	20	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	1K	RESISTOR, 1K, ±5%, 1/4W	"AMPEREX"
EA	R7	1	21	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	47K	RESISTOR, 47K, ±5%, 1/4W	"AMPEREX"
EA	R8, R14	2	22	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	10K	RESISTOR, 10K, ±5%, 1/4W	"AMPEREX"
EA	R10, R16	2	23	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	330E	RESISTOR, 330Ω, ±5%, 1/4W	"AMPEREX"
EA	R13	1	24	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	27K	RESISTOR, 27K, ±5%, 1/4W	"AMPEREX"
EA	R17	1	25	B8-031-04-N-B-	(CONTINUED)	
—	—	—	—	47E	RESISTOR, 47Ω, ±5%, 1/4W	"AMPEREX"
EA	Y1	1	26		CRYSTAL, 110 KHZ (SEE AY-6187 G/N 2)	"EILS CRYSTALS"
EA		1	27	8000DG1	CRYSTAL SOCKET AND CLIP	"AUGAT"
EA		5	28	10137	TRANSIPAD	M. ROSS CO.
EA		1	29		SCREW, 2-56 X .18L, RD HD	CAD PL STL
EA		1	30		WASHER, NO.2, LOCKING	CAD PL STL
EA		1	31		NUT, 2-56	CAD PL STL
EA	C10	1	32	6609	CAPACITOR 1 µf 35V	DICKENSON



SD-6187
SCHEMATIC DIAGRAM, 110 KHZ OSC.



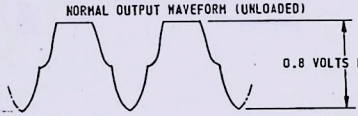
EQUIPMENT LIST:

1. POWER SUPPLY CAPABLE OF 24 VOLTS D-C @ 1 AMP. REGULATED. ("HEATH" #IPW-27 OR EQUIVALENT).
2. OSCILLOSCOPE WITH MINIMUM 5 MHZ BANDWIDTH ("TEKTRONIX" MODEL 321A OR EQUIVALENT).
3. 100 OHM, ± 5%-1/4 WATT RESISTOR.

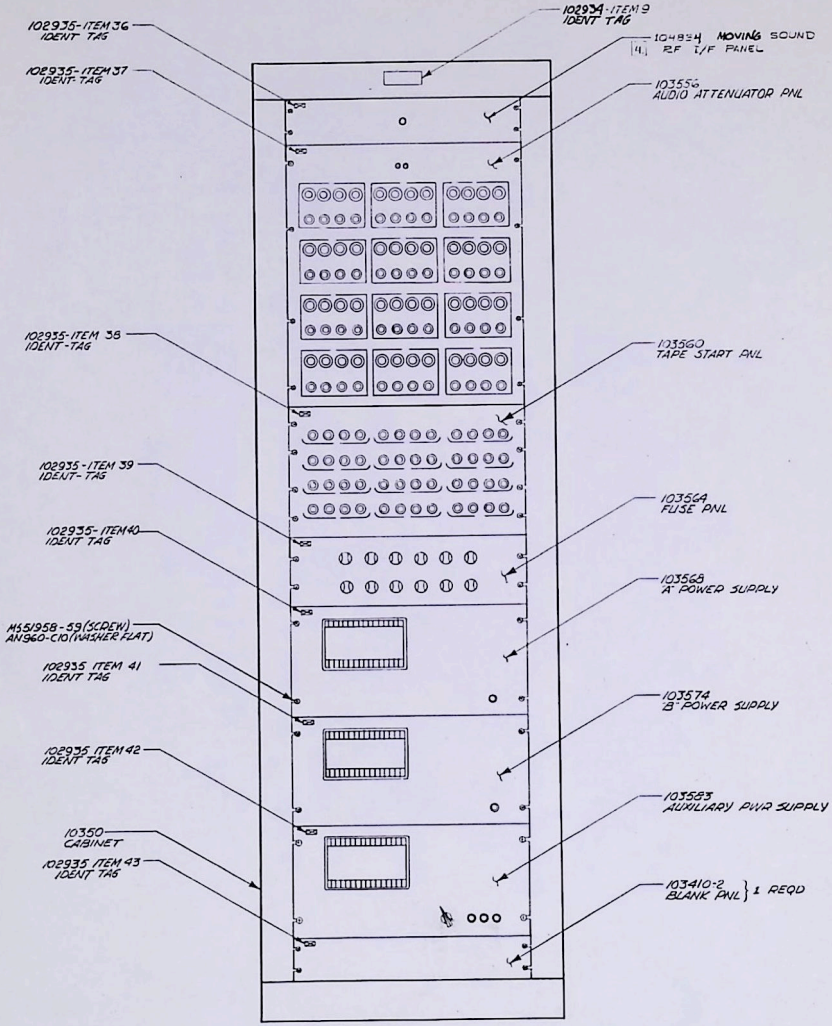
THE FOLLOWING TEST PROCEDURE PROVIDED FOR USE BY QUALIFIED ELECTRONIC TECHNICIAN PERSONNEL ONLY.

1. CHECK FOR PROPER WORKMANSHIP, CORRECT IDENTIFICATION AND INSTALLATION OF COMPONENTS AND SUBASSEMBLIES.
2. APPLY 24 VOLTS D-C ... THE "POSITIVE" LEAD TO PIN 4, THE "COMMON" LEAD TO PIN 34.
3. CONNECT AN OSCILLOSCOPE TO THE OUTPUT, PIN 2. ADJUST L1 FOR THE CORRECT "FREQUENCY LOCK" TO CRYSTAL. CHECK THE STABILITY BY TURNING THE POWER "OFF" THEN BACK "ON". THE OSCILLATOR SHOULD RESTART AFTER RESTORATION OF POWER.

NORMAL OUTPUT WAVEFORM (UNLOADED)

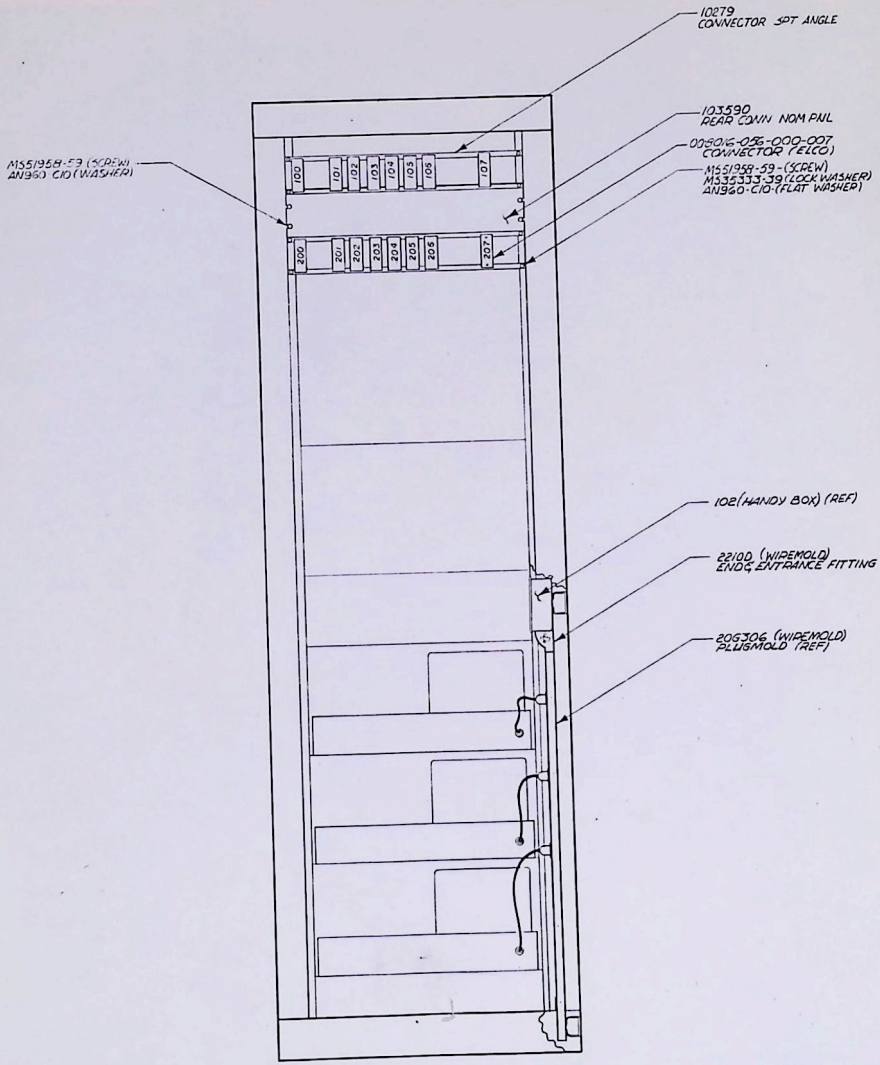


4. LOAD THE OUTPUT WITH A 100 OHM ±5%-1/4 WATT RESISTOR LOAD. THE VOLTAGE SHOULD DROP TO 0.6 VOLTS PEAK-TO-PEAK ±20% AS OBSERVED ON AN OSCILLOSCOPE.
5. ADJUST THE OUTPUT FREQUENCY BY TUNING C4 AND SELECTING C2 AS REQUIRED. ADJUST TO 110 KHZ ±.01% (11 HZ).



FRONT VIEW SHOWN W/ DOOR REMOVED

5830-103550
RF SOUND CABINET 14L ASSEMBLY
SHEET 1 OF 2



REAR VIEW SHOWN
W/DOOR REMOVED

APPROVAL		DATE	DEPT
DRAWN BY	CHATTINSVER	5/5/70	
CHECKED BY	[illegible]	8/11/70	
APPROVED	[illegible]	5-11-70	
APPROVED	EC	5-11-70	
APPROVED	SG	5-11-70	

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NOTICE

[illegible]

PAGE 1 OF 1

BILL OF MATERIAL

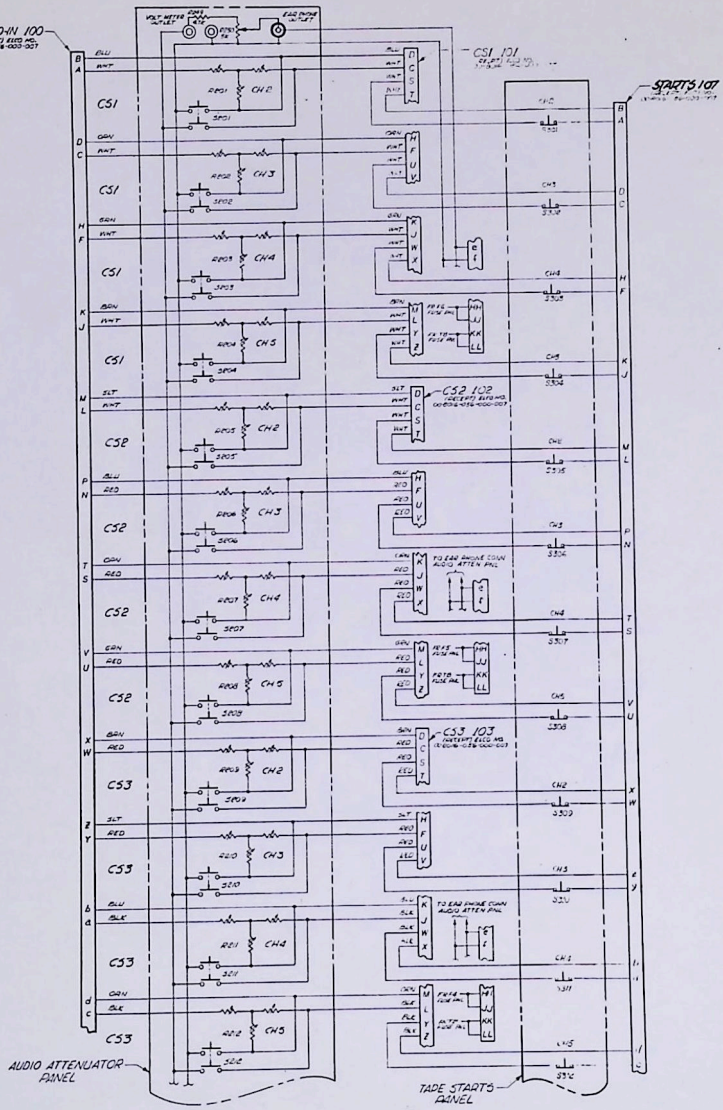
PROJECT DESCR.

DOCUMENT NO.

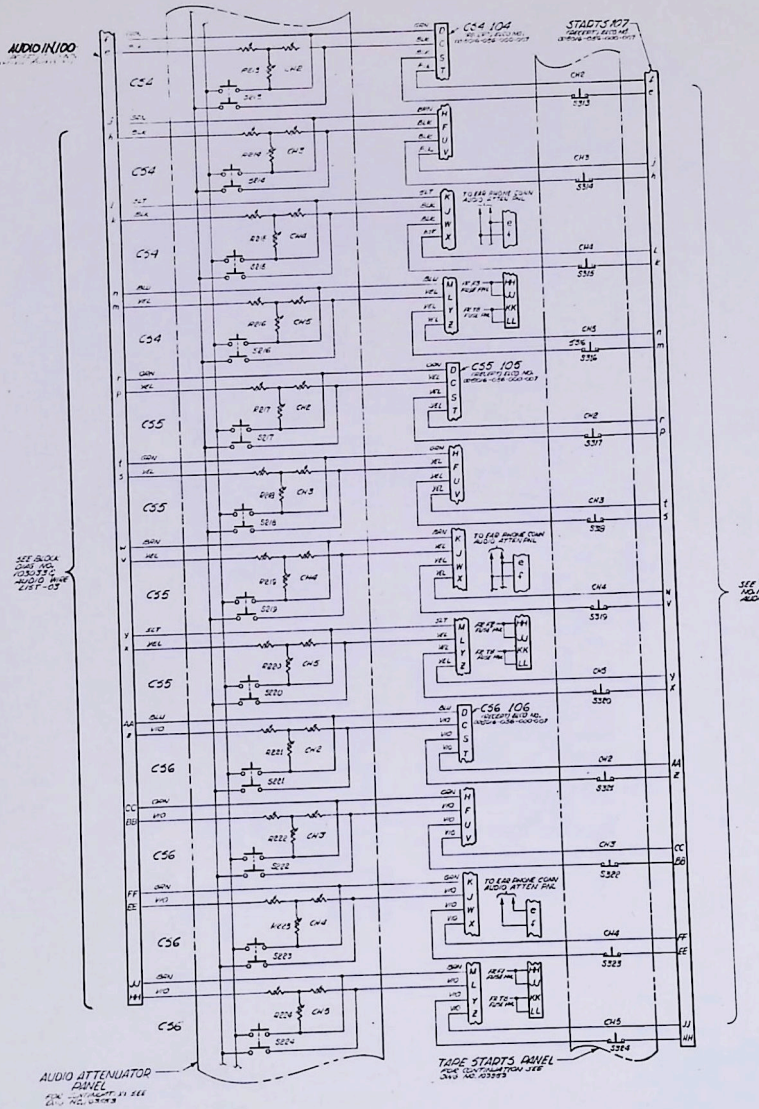
SHEET NO. 5830-103550

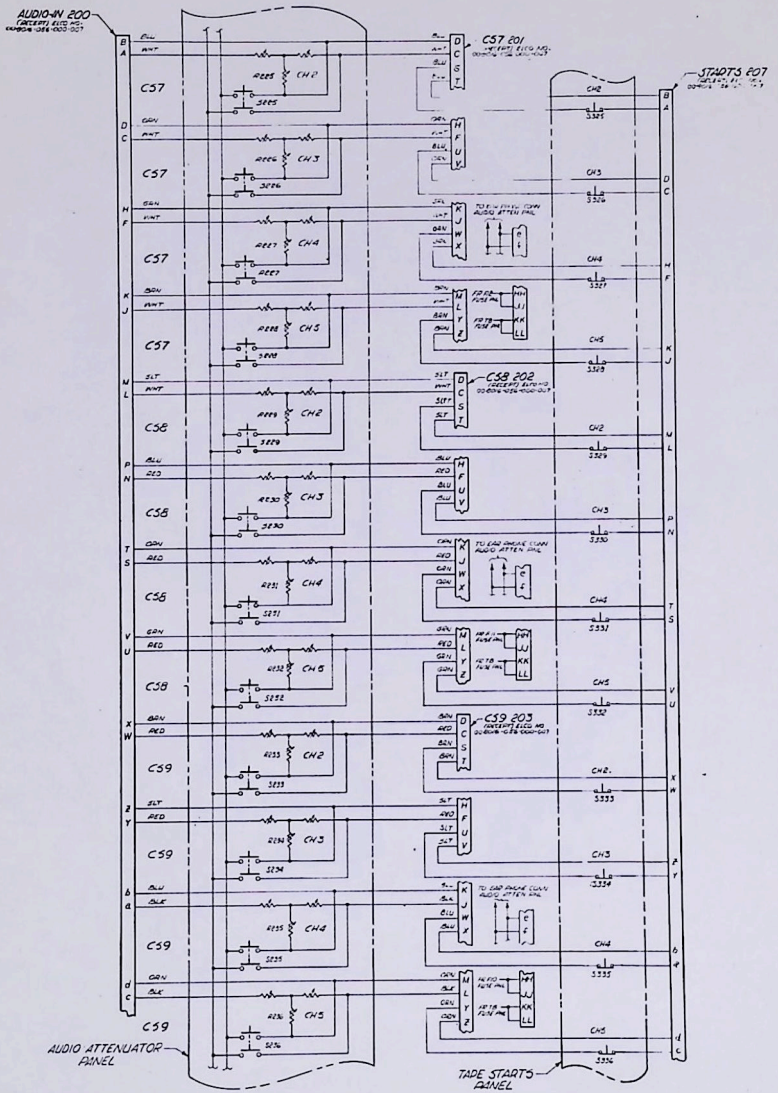
REV.

UNIT OF MEASURE	REFERENCE DESIGNATION OR NOTE	QTY PER ASSY	ITEM NO	PART NUMBER	DESCRIPTION	REMARKS
REF			1	5830-103550	ASSY R.F. SOUND CAB 14L	
REF			2	5830-103551	WIRE DIAG PWR SUP INTER CONN	
REF			3	5830-103552	SWITCH'G SCHEM CS1-CS6	
			4	5830-103553	SWITCH'G SCHEM CS7-CS12	
			5			
			6			
			7			
			8			
EA		1	9	10350	CABINET	
		2	10	6110-103410-2	BLANK PNL 19"X 3½"	
		1	11	5830-103556	AUDIO ATTENUATOR PNL	
		1	12	5820-103560	TAPE START PNL	
		1	13	5820-103564	FUSE PNL	
		1	14	5820-103568	ASSY "A" POWER SUPPLY	
		1	15	5820-103574	ASSY "B" POWER SUPPLY	
		1	16	5820-103583	ASSY AUX POWER SUPPLY	
		1	17	5820-103590	REAR CONN NOM PNL	
		4	18	10279	CONNECTOR SPT ANGLE	
		1	19	6110-102934-9	IDENT TAG	
		1	20	6110-102935-36		
		1	21	6110-102935-37		
		1	22	6110-102935-38		
		1	23	6110-102935-39		
		1	24	6110-102935-40		
		1	25	6110-102935-41		
		1	26	6110-102935-42		
		1	27	6110-102935-43		
		16	28	00-8016-056-000-007	RECPTACLE, 56 PIN	ELCO
			29	MS51958-59	SCREW, PAN HD, 10-32 X ¼ LG.	
			30	MS35333-39	LOCK WASHER, NO. 10	
			31	AN960-C10	WASHER, FLAT, NO. 10	
EA			32	MS24677-2	SCREW, CAP, 4-40X 3/8 LG	

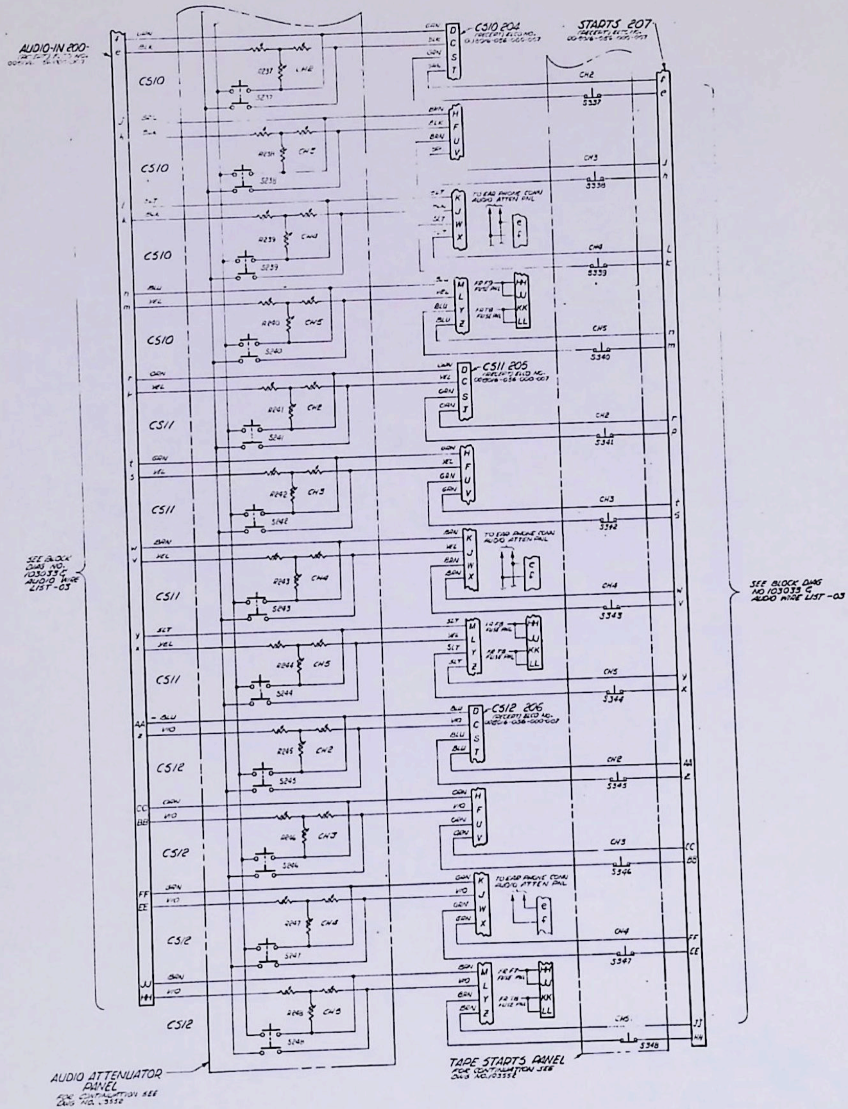


5830-103552
SWITCHING SCHEMATIC RF SOUND SYSTEM CS1-CS6
SHEET 1 OF 2

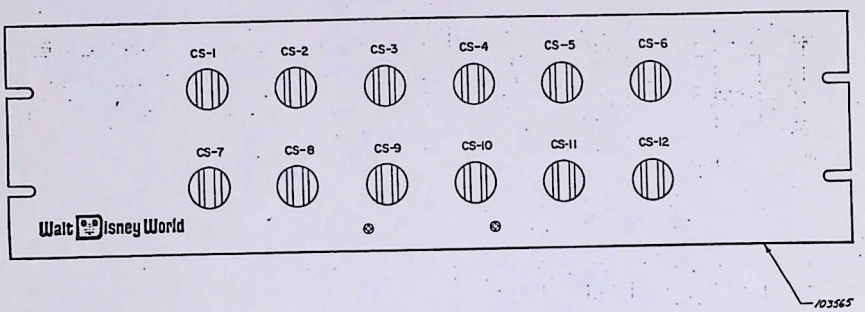

AUDIO IN/100
C54
C55
C56
C54 104
C55 105
C56 106
STADTS 107
TO EAR ENGINE ROOM AUDIO ATTEN. PNL
TAPE STADTS PANEL
AUDIO ATTENUATOR PANEL
SEE BLOCK DIAG NO. 1030373-C AUDIO WIRE LIST-03
SEE BLOCK DIAG NO. 1030373 C AUDIO WIRE LIST-03

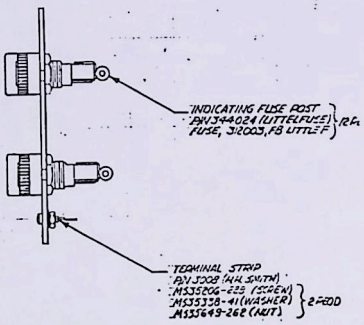


5830-103553
SWITCHING SCHEMATIC RF SOUND SYSTEM CS7-CS12
SHEET 1 OF 2


AUDIO-IN 200
CS10 204
STARTS 207
CS10
CS11 205
CS11
CS12 206
CS12
TO EAR PHONE CONN AUDIO ATTEN PNL
SEE BLOCK DIAG NO 103033 G AUDIO WIRE LIST -03
AUDIO ATTENUATOR PANEL
TAPE STARTS PANEL

SHEET 2 OF 2





5630-103564
FUSE PANEL RF SOUND SYSTEM

SECTION 4

MASTER DRAWING LOG

OMNIMOVER
HAUNTED MANSION
WALT DISNEY WORLD

DRAWING NO.	REV. NO.	DESCRIPTION
OM-428-1	E	Drive wheel assembly
OM-822	1	Washer, safety
OM-830	B	Yoke, pitch head
OM-842-2	E	Wheel, cam follower (Basic & -1)
OM-855-1	E	Shaft, universal yoke
OM-874		Spacer, special
OM-878		Bolt, modified (5/8-18 UNF-2A)
OM-882	2	Washer, special
OM-924		Housing assembly, compression spring
OM-925		Bushing, rod
OM-935	D	Cam, pivot lever locking
OM-936	D	Link, pivot lever camming
OM-937	C	Support, cam wheel
OM-939	1	Guide, pull-rod
OM-940	2	Housing assembly
OM-941	D	Piston, spring compression (-1 & -2)
OM-943	B	Pull-rod, spring piston (-1 & -2)
OM-946	2	Fitting, spring attachment
OM-948	1	Roller, pivot lever
OM-949		Spring, compression
OM-957	D	Pivot shaft, camming link
OM-958	C	Bearing shaft, pivot lever
OM-959	1	Bushing, guide, pull-rod
OM-960	C	Mainspring, safety bar mechanism assembly
OM-961		Speaker anchor plate
OM-963	B	Bolt, special, cam pivot
OM-964	1	Spring, compression
OM-965		Bracket, receptacle mounting
OM-1400	H	Assembly, drive unit (T/O)
OM-1401	A	Oil cooler assembly
OM-1402	F	Gear case, drive unit
OM-1403	C	Cover port
OM-1404		Bracket, cooler
OM-1405	A	Carrier, drive wheels
OM-1406	C	End cap, worm shaft (tab)

OMNIMOVER
HAUNTED MANSION
WALT DISNEY WORLD

DRAWING NO.	REV. NO.	DESCRIPTION
OM-1407	C	Cap, lower bearing
OM-1408	A	Tube, spring loading
OM-1409	A	Spring, disc, modified
OM-1410	A	Sleeve, bearing
OM-1411	D	Bearing shaft, gear mounting
OM-1412	D	Worm, drive unit
OM-1413	B	Gear, drive unit
OM-1414	A	Shaft, carrier, lower guide
OM-1415		Bearing, roller thrust (modified)
OM-1416	E	Shaft, drive wheel
OM-1418	D	Shaft, worm drive
OM-1419	D	Collar, gear shaft
OM-1420	B	Housing, lower bearing
OM-1422	A	Shaft, carrier, upper guide
OM-1423		Bolt, special, spring loading
OM-1424	C	Sleeve, bearing
OM-1425		Bushing, flanged
OM-1426	A	Cover gasket
OM-1427	A	Mounting bracket, front, drive unit
OM-1428	A	Mounting bracket, rear, drive unit
OM-1429	A	Spring seat assembly
OM-1430	D	Cradle, handling, drive unit
OM-1431		Deflector, cooler
OM-1432		Shield, shaft collar
OM-1438		"U" joint, modified (Mech 3C-L)
OM-1504		Rotation cam support
OM-1505		Rotation cam U-bolt
OM-1506		Transfer carriage
OM-1508	A	Track structure
OM-1509	B	Cam support & timing
OM-1510	A	Track - drive unit locations
OM-1600		Audio - electrical assembly
OM-1601	A	Amplifier & pickup assembly
OM-1602	E	Alternator - drive assembly

DRAWING NO.	REV. NO.	DESCRIPTION
OM-1603		Base, photo cell
OM-1604	A	Bracket, support
OM-1605		Support, cable
OM-1606	B	Receiver - antenna, assembly
OM-1607		Signal strip
OM-1608	D	Terminal box, modified
OM-1609		Lamp - photocell sensor assembly
OM-1610	A	Tube, lamp
OM-1611	C	Support assembly, terminal box
OM-1612	A	Clamp, tube
OM-1613		Lens
OM-1614		Socket, lamp
OM-1617	C	Mount assembly, alternator
OM-1618	A	Mounting bracket, jackshaft
OM-1620	A	Sprocket assembly, drive wheel
OM-1621	A	Chain guard assembly, alternator drive
OM-1622		Wheel modified
OM-1623	A	Jackshaft
OM-1624		Pulley assembly, modified
OM-1625		Sprocket, modified (Jackshaft)
OM-1627		Bracket, switch mount
OM-1628	A	Shaft, rotary switch mount
OM-1629	A	Pulley/switch, mount assembly
OM-1630		Pulley assembly, alternator
OM-1800	E	Chassis assembly: Mark III Haunted Mansion
OM-1802	A	Follower, rotation
OM-1803	B	Pivot arm, follower
OM-1804	B	Wheel mount, follower
OM-1805		Journal, pitch head
OM-1806		Housing, double bearing
OM-1807	A	Yoke, follower arm
OM-1808	B	Follower arm, rotation
OM-1809		Bolt, special follower
OM-1810	B	Rotation sector

DRAWING NO.	REV. NO.	DESCRIPTION
OM-1811		Pivot shaft, rotation
OM-1812	E	Tongue, pivot
OM-1813		Pushrod, pitch
OM-1814	A	Tie arm, pitch follower
OM-1815	A	Pitch follower arm
OM-1816	D	Bogie, chassis
OM-1817	C	Pivot, bogie
OM-1818	A	Collar, pivot
OM-1819-1		Plate, bearing retaining
OM-1820	B	Collar, body mounting
OM-1821	A	Collar, bearing retaining
OM-1822		Bolt, special (Bogie)
OM-1823	C	Drive tube assembly
OM-1824	B	Drive fin
OM-1825		Flange, drive tube
OM-1826	C	Pitch arm assembly
OM-1827	A	Pitch head, rotation
OM-1828	B	Pinion gear
OM-1829		Spindle, wheel
OM-1830	A	Pedestal, socket
OM-1831	A	Housing, fin mount
OM-1832		Pedestal assembly, weldment
OM-1833	A	Clamp, coupling assembly
OM-1834	C	Wheel, cam follower
OM-1835	A	Collar, eccentric
OM-1836		Washer, special
OM-1837		Plate, fin mount
OM-1838	A	Shaft, pivot arm
OM-1840		Follower - pivot arm assembly
OM-1844	B	Bogie up-stop assembly
OM-1846		Shock adjust link
OM-1847		Slot cover assembly
OM-1848	B	Housing, bushing, slot cover
OM-1849	A	Cone, rear guide, slot cover

OMNIMOVER
HAUNTED MANSION
WALT DISNEY WORLD

DRAWING NO.	REV. NO.	DESCRIPTION
OM-1850		Sheet, slot cover
OM-1851		Bracket, towing, slot cover
OM-1900	B	Car body assembly (Haunted Mansion)
OM-1903	B	Safety bar mechanism assembly
OM-1904	B	Body shell assembly, front
OM-1905		Body shell rear
OM-1906	A	Frame, body mounting
OM-1907		Boss, frame, front
OM-1908		Boss, frame, rear
OM-1909	A	Journal, support
OM-1910	D	Housing assembly, cam & linkage
OM-1911	B	Journal assembly
OM-1912	B	Pivot lever assembly
OM-1913		Pivot lever assembly
OM-1914	A	Journal assembly
OM-1916	C	Flange, bar
OM-1917		Cross bar assembly
OM-1918	A	Clamshell assembly
OM-1919		Grab bar assembly
OM-1920	A	Clamshell, outer
OM-1921	A	Clamshell, inner
OM-1922	A	Seat cushion assembly
OM-1923		Base, grab bar tube
OM-1999-1	B	Car train assembly
WW-809	4	Spindle, wheel mounting
WW-1037	6	Speaker grille (dull black)

DRAWING LOG SHEET

OMNIMOVER

DESIGN DATA "000" SERIES

DRAWING NUMBER	DRAWING TITLE	SIZE	DATE DRAWN	DRAWN BY
OM 001 REV 1	NUMBER SYSTEM	A	1-31-66	BRUNDAGE
002	OBSOLETE			
003 REV 1	TRACK PROFILE, CREST CLEARANCE	J	4-8-66	BRUNDAGE
004	TYPICAL TEST TRACK SECTION (MODIFIED)	R	11-2-66	BRUNDAGE
005 F	PRELIMINARY ENVELOPE OUTLINE & CAR/TRACK/DRIVE	F	5-9-68	T.W.
006	PRELIMINARY LAYOUT PLOT-PLAN, SERVICE AREA & TRANSFER CARRIAGE	F	10-8-68	LEHMAN
007	PRELIMINARY LAYOUT, ELEVATION THRU SERVICE AREA	E	10-11-68	LEHMAN
008	PRELIMINARY LAYOUT, TRACK DRIVE UNIT LOCATIONS	F		
009 OBS				
010	PRELIMINARY LAYOUT, TRACK STRUCTURE	R		
OM 011	BRACKET, CONNECTING ROD (SHOCK) D/L	C	9-27-71	T.W.
OM-012	OMNIMOVER SERVICE AREA & TRANSFER CARRIAGE	B	10-21-71	LEHMAN

DRAWING LOG SHEET

OMNIMOVER

TEST TRACK "100" SERIES

DRAWING NUMBER	DRAWING TITLE	SIZE	DATE DRAWN	DRAWN BY
OM 101	PITCH CAM ASSEMBLY	D	8-10-66	V.W.B.
102	YAW CAM ASSEMBLY	D	8-10-66	V.W.B.
103	BASE	B	8-3-66	WILDS
104	PITCH PIVOT BRACKET	B	8-2-66	WILDS
105	YAW PIVOT BRACKET	C	8-4-66	WILDS
106	SPRING	B	7-29-66	WILDS
107	CLAMP	B	7-29-66	WILDS
108	CAM MOUNTING BRACKET	B	7-28-66	WILDS
109	ADJUSTING ROD	B	7-28-66	WILDS
110	PIN	B	8-1-66	WILDS
111	CAM CLAMP	B	7-29-66	WILDS
112	CAM: 23.55 LG.	B	8-4-66	WILDS
113	CAM: 31.40 LG.	B	8-8-66	WILDS
114	CAM: 54.95 LG.	B	8-5-66	WILDS
115	CAM: 75.60 LG.	B	8-8-66	WILDS
116	CAM: 117.75 LG.	B	8-5-66	WILDS
117	TEST TRACK LAYOUT (CAM LOCATION DIAGRAM)	F	10-12-66	V.W.B.
118 REV. 3	CAM SUPPORT & TIMING	R	1-12-67	R.BOWER
119	TURNTABLE, TEST TRACK	F	7-27-67	EGGERT
120	FRAME, POWER UNIT TURNTABLE	F	7-27-67	EGGERT
121 OBS.	CAM SUPPORT & TIMING	R	7-9-68	EGGERT
122 OBS.	CHASSIS WELDMENT (MODIFIED)	F	7-9-68	A.G.L.
123 OBS.	KNUCKLE CASTING (MODIFIED)	D	7-12-68	A.G.L.
124 OBS.	BRACKET, GUIDE WHEEL	E	7-12-68	LEHMAN
OM 125 OBS.	OBSOLETE			

DRAWING LOG SHEET

OMNIMOVER

DRIVE UNIT "400" SERIES

DRAWING NUMBER	DRAWING TITLE	MONSANTO	H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OBS OM 401 REV 1	DRIVE UNIT ASSEMBLY (MARK I)	X	—	—	—	R	4-13-66	WILDS
OBS. 402 REV. 2	TENSION ARM	X				E	4-13-66	WILDS
OBS. 403 REV 2	TENSIONER BRACKET (L.H.)	X				E	4-13-66	WILDS
OBS. 404 REV 2	TENSIONER BRACKET (R.H.)	X				E	4-13-66	WILDS
OBS. 405 REV 3	COMPRESSION ROLLER KNUCKLE	X				D	4-18-66	WILDS
OBS. 406 REV 3	SHEAVE (7.0)	X				C	4-13-66	WILDS
OBS. 407 REV 4	SHEAVE (5.4)	X				C	4-13-66	WILDS
OBS. 408 REV 1	BACK BONE ASSEMBLY	X				E	5-2-66	WILDS
OBS. 409 REV 1	DRIVE UNIT FRAME	X				F	5-2-66	WILDS
OBS. 410 REV 1	BACK BONE	X				D	5-2-66	WILDS
OBS. 411 REV 1	SHAFT KNUCKLE	X				D	5-2-66	WILDS
OBS. 412	OBSOLETE	X						
OBS. 413 REV 1	PIVOT SHAFT, TENSION ARM	X				B	5-2-66	WILDS
OBS. 414 REV 1	SHEAVE SHAFT, TENSION ARM	X				B	5-2-66	WILDS
OBS. 415	OBSOLETE	X						
OBS. 416 REV 1	MOUNTING BRACKET, DRIVE UNIT	X				D	5-2-66	WILDS
OBS. 417 REV 2	COMPRESSION KNUCKLE ASSEMBLY	X				C	5-2-66	WILDS
OBS. 418 REV 3	TENSIONER ARM ASSEMBLY (L.H.)	X				D	5-2-66	WILDS
OBS. 419	OBSOLETE	X						
OBS. 420 REV 3	TENSIONER ARM ASSEMBLY (R.H.)	X				D	6-7-66	WILDS
OBS. 421	BACK-UP PLATE	X				B	12-1-66	R.F.P.
422								
423								
424								
OM 425								

DRAWING LOG SHEET

OMNIMOVER

DRIVE UNIT "400" SERIES

DRAWING NUMBER	DRAWING TITLE	MONSANTO	H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 426								
.427	DRIVE UNIT ASSY	X				R	8-21-68	ADAMS
.428	DRIVE WHEEL ASSY	X	428-1	428-1	428-1	D	6-5-68	A.G.L.
429	SHAFT, DRIVE	X				C	6-10-68	A.G.L.
430	SHAFT, WHEEL	X				C	6-6-68	A.G.L.
431	SHAFT, IDLER	X				C	6-18-68	A.G.L.
432	HOUSING, GEARBOX (TAB)	X				F	6-6-68	E.F.
433	COVER, GEARBOX	X				D	6-21-68	A.G.L.
434	SHAFT, SPRING	X				C	6-25-68	A.G.L.
435	SHAFT, SUPPORT	X				C	6-25-68	A.G.L.
436	BASE, HOUSING	X				F	6-10-68	E.F.
437	FRAME MODIFIED	X				F	6-26-68	A.G.L.
438	ARM, TENSIONER	X				D	6-19-68	A.G.L.
439	SPROCKET, TENSIONER	X				C	6-18-68	A.G.L.
440	BOLT, SPRING	X				C	6-24-68	A.G.L.
441	GEAR, SPUR	X				C	6-12-68	A.G.L.
442								
443	CAP, BEARING	X				C	6-11-68	A.G.L.
444	CAP, BEARING	X				C	6-11-68	A.G.L.
445	GASKET, COVER	✓				C	7-3-68	A.G.L.
446	SLEEVE, IDLER WHEEL	X				B	12-6-68	F.H.E.
447	BASE, TENSIONER ARM	✓				C	6-20-68	A.G.L.
448	POST, SPRING ANCHOR	X				C	6-20-68	A.G.L.
449	BEAR, BASE SUPPORT	X				C	6-26-68	A.G.L.
OM 450								

DRAWING LOG SHEET

OMNIMOVER

DRIVE UNIT "400" SERIES

DRAWING NUMBER	DRAWING TITLE	MOCKUP	H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 451	ARM, TENSIONER, BELT	X				D	7-1-68	A.G.L.
452	BRACKET, SPRING ANCHOR	X				C	7-2-68	A.G.L.
453	BRACKET, TENSIONER ARM	X				D	7-2-68	A.G.L.
454	SPRING, SEAT	X				B	7-3-68	A.G.L.
455	SPACER, SPROCKET TENSIONER	X				B	8-20-68	T.K.
CBS. 456	ADAPTOR DRIVE WHEEL	X						
457	BRACKET, BREATHER	X				C	9-16-68	T.K.
458	DRIVE UNIT ASSEMBLY: SPACER	X				C	10-27-69	D.L.
459	: BUSHING	X				B	10-27-69	D.L.
OM 460	: WASHER, FLAT	X				B	10-28-69	D.L.

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DRAWING LOG SHEET

OMNIMOVER

TRACK SYSTEM "500" SERIES

DRAWING NUMBER	DRAWING TITLE	MORSAM				SIZE	DATE DRAWN	DRAWN BY
OM 501 REV 2	CAM SUPPORT	X				D	1-12-67	R.BOWER
502	LAYOUT (VIEW ANGLE)					D	1-30-67	B.W.B.
503 REV 1	CAM TIMING (PITCH & ROTATION)	X				F	7-12-67	KELLEY
504 REV 3	CARRIAGE, TRANSFER	X				R	2-6-67	KELLEY
505	SERVICE TRACK	X				F	2-24-67	KELLEY
506	CAM, SAFETY BAR (ACTUATING)	X				F	5-12-67	NEISS
507	SERVICE FIXTURE: SUPPORT CAR	X				R	5-16-67	KELLEY
508 REV 1	: SUPPORT CARS (PAIR)	X				C	6-1-67	B.W.B.
509	: ELEVATOR CARRIAGE	X				R	7-13-67	KELLEY
510	: CHOCK, GUIDE WHEEL	X				C	6-22-67	KELLEY
511	GUIDE WHEEL CHANNEL					F	2-29-68	EGGERT
512	CAM SUPPORT & TIMING					R		EGGERT
M-13 1971	TRANSFER CARRIAGE - MODIFICATIONS ASSY & DETAILS D/L "AS BUILT" HAUNTED MANSION							
M-14 1971	TRANSFER CARRIAGE - MODIFICATIONS RAIL COUPLING DETAILS D/L "AS BUILT" HAUNTED MANSION							

DRAWING LOG SHEET

OMNIMOVER

POWER SYSTEM "600" SERIES

DRAWING NUMBER	DRAWING TITLE	MONSANTO	W.M.			SIZE	DATE DRAWN	DRAWN BY
OM 601	MOTOR UNIT & MASTER RELAY TYP. CONTROL DETAIL	X				D	4-19-66	W.M.N.
602	TURNTABLE DRIVE MOTOR TRANSFER & REM. START-STOP	X				F	4-25-67	PORTER
603	RIDE CONTROL PANEL LOADING PLATFORM (DETAILS)	X				D	6-2-67	BROWN
604	RIDE CONTROL PANEL UNLOADING PLATFORM (DETAILS)	X				D	6-2-67	BROWN
605	SAFETY LIGHTS & DEAD MAN TREADLE	X				E	7-6-66	BROWN
OM 606	OIL COOLER - SCHEMATIC & WIRING DIAGRAM		X			B	7-30-69	R.L.B.
M-28 1971	OMNIMOVER CAR - CONTROL PANEL HAUNGED MANSION D/L "AS BUILT"							

DRAWING LOG SHEET

OMNIMOVER

LOADING TURNTABLE "700" SERIES

DRAWING NUMBER	DRAWING TITLE	[illegible]				SIZE	DATE DRAWN	DRAWN BY
CBS OM 701 REV 1	POWER UNIT ASSEMBLY	X				J	6-29-65	V.B.N.
CBS 702	FRAME WELDMENT	X				J	6-7-66	V.B.N.
CBS 703	PULLEY, WIRE ROPE	X				C	6-9-66	V.B.N.
CBS 704	SHAFT, SPEED REDUCER	X				B	5-11-66	V.B.N.
CBS 705 REV 1	SPACER	X				B	5-10-66	V.B.N.
CBS 706	TENSION LOOP, SHEAVE BRACKET	✓				D	6-8-66	V.B.N.
707	RUBBER SLAB	X				C	2-6-67	V.B.N.
708 REV 2	POWER UNIT ASSY: ASSEMBLY	X				F	3-31-67	EGGERT
709 REV 1	: FRAME	X				F	3-27-67	EGGERT
710	: DRIVE WHEEL ASSY	X				D	3-22-67	EGGERT
711	: WHEEL & HUB ASSY	X				D	3-23-67	EGGERT
712	: RETAINER, CLUTCH	X				C	3-23-67	EGGERT
713 REV 2	: SUPPORT CHANNEL	X				D	3-28-67	EGGERT
714	: SPACER, DRIVE WHEEL	X				B	4-3-67	EGGERT
715	: DRIVE SHAFT, SPEED REDUCER	X				C	4-3-67	EGGERT
716	: SHAFT, DRIVE WHEEL	X				C	4-3-67	EGGERT
717 REV 2	POSITION WHEEL ASSEMBLY	X				F	4-24-67	EGGERT
718 REV 2	SUPPORT UNIT ASSEMBLY	X				D	4-24-67	EGGERT
719 REV 2	SUPPORT WHEELS & DRIVE UNITS LOCATION	X				F	4-24-67	EGGERT
720	BRACKET, ALIGNMENT	X				D	5-9-67	D.V.K.
721	SHAFT GUIDE, SPRING TENSIONER, DRIVE ASSEMBLY	X				B	6-2-67	KELLEY
OM 722	BRACKET-SUPPORT, SPRING TENSIONER, DRIVE ASSEMBLY	✓				C	6-2-67	KELLEY

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "800" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. W.DW	E.A. W.DW	SIZE	DATE DRAWN	DRAWN BY
OM 801	OBSOLETE							
802	OBSOLETE							
803	OBSOLETE							
804	OBSOLETE							
805	OBSOLETE							
806	OBSOLETE							
807	OBSOLETE							
808	OBSOLETE							
809	OBSOLETE							
810	OBSOLETE							
811	OBSOLETE							
812	OBSOLETE							
813	OBSOLETE							
814	OBSOLETE							
815	OBSOLETE							
816	OBSOLETE							
817	OBSOLETE							
818	CONNECTOR, BRUSH					B	4-17-68	T.K.
819	ADAPTER, FOLLOWER					B	4-17-68	T.K.
820	HOLDER, BRUSH					D	4-8-68	T.K.
821	BRUSH FOLLOWER ASSEMBLY					C	4-18-68	T.K.
822 REV 1	WASHER, SAFETY	X	X	X	X	B	7-22-67	NEISS
823								
824 REV 1	WASHER, SPECIAL	X	—	—	—	B	8-23-67	KELLEY
OM 825 REV 1	WASHER, BEARING, SPECIAL	X	—	—	—	B	8-16-67	NEISS

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "800" SERIES

DRAWING NUMBER	DRAWING TITLE	PONCANTO	H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 826 REV 1	PLATE, PIVOT BEARING	X	—	—	—	B	8-11-67	KELLEY
827 REV 1	ECCENTRIC, SECTOR	X	—	—	—	C	8-15-67	NEISS
828 REV 2	CHASSIS ASSEMBLY	X	—	—	—	R	3-1-67	KELLEY
829 REV 1	PEDESTAL ASSEMBLY, WELDMENT	X	—	—	—	R	2-22-67	A.G.L.
830	YOKE, PITCH HEAD	X	X	X	X	D	1-3-67	A.G.L.
831	PEDESTAL, SOCKET	X				F	1-15-67	A.G.L.
832 REV 3	PITCH HEAD, ROTATION	X	—	—	—	F	11-29-66	NEISS
833 REV 2	SHAFT, PIVOT	X	—	—	—	D	3-1-67	KELLEY
834 REV 4	BOGIE, CHASSIS	X	—	—	—	R	3-5-67	B.W.B.
835 REV 4	ROTATION, SECTOR	X	—	—	—	R	1-13-67	EGGERT
836 REV 1	CAM FOLLOWER (-1 & -2)	B36-1 B36-2	—	—	—	D	6-27-67	KELLEY
837								
838 REV 5	PINION	X	—	—	—	D	3-3-67	A.G.L.
839								
840 OBS.	OBSOLETE							
841 OBS.	OBSOLETE							
842 REV E	WHEEL, CAM FOLLOWER (BASIC & -1)	B42 B42-1	B42 B42-2	B42 B42-2	B42 B42-3	D	1-17-67	EGGERT
843 REV 3	ARM PITCH	X	—	—	—	F	2-28-67	KELLEY
844	PUSH ROD, PITCH	X	—	—	—	C	3-1-67	KELLEY
845 REV 2	COLLAR, ROTATION, ECCENTRIC	X	—	—	—	B	1-19-67	EGGERT
846 REV 1	SHAFT, LINK	X	—	—	—	C	2-6-67	KELLEY
847	LINK, PITCH, LONG	X	—	—	—	D	3-1-67	KELLEY
848 REV 1	TONGUE ASSY	X	—	—	—	R	2-6-67	A.G.L.
849	CASTING, TONGUE	X	—	—	—	D	3-13-67	EGGERT
OM 850	CLAMP, FIN	B50 B51-1 B51-2	—	—	—	D	2-7-67	D.V.K.

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "800" SERIES

DRAWING NUMBER	DRAWING TITLE	MSN/WDD	H.M. D/L	H.M. W.DW	E.A. W.DW	SIZE	DATE DRAWN	DRAWN BY
OM 851 REV 1	FIN, DRIVE (-1 SHORT: -2 LONG)	X				F	2-7-67	D.V.K.
852 REV 1	SPACER, BEARING	X	—	—	—	B	1-19-67	EGGERT
853 OBS.	OBSOLETE							
854 OBS.	OBSOLETE							
855 REV 3	SHAFT, UNIVERSAL YOKE	X	855-1	855-1	855-1	F	3-3-67	A.G.L.
856 REV 3	COLLAR, BODY MOUNTING	X	—	—	—	D	2-8-67	KELLEY
857								
858 OBS.	OBSOLETE							
859	—							
860 OBS.	OBSOLETE							
861 REV 1	CASTING, PIVOT	X	—	—	—	D	1-23-67	A.G.L.
862	DRIVE TUBE SPACER	X	—	—	—	B	3-13-67	KELLEY
863								
864								
865 REV 2	SUPPORT FRAME, SLOT COVER MTG.	X	—	—	—	F	3-15-67	KELLEY
866 REV 1	SHAFT, PIVOT, CONNECTION	X	—	—	—	C	2-9-67	KELLEY
867 REV 1	MOUNT, COLLECTOR, WELDMENT (L.H.)	X	—	—	—	D	3-2-67	KELLEY
868 REV 2	COVER, SLOT	X	—	—	—	R	2-21-67	A.G.L.
OBS. 869 REV 1	COVER, PEDESTAL					R	2-20-67	A.G.L.
870 REV 1	MOUNT, COLLECTOR, WELDMENT (R.H.)	X	—	—	—	D	3-2-67	KELLEY
871	PUSH ROD, PITCH	X	—	—	—	C	3-1-67	KELLEY
872	SPACER, PIVOT	X	—	—	—	B	3-2-67	KELLEY
873 REV 1	SPACER, PITCH HEAD	X	—	—	—	B	3-6-67	KELLEY
874	SPACER, SPECIAL	X	X	X	X	B	3-3-67	A.G.L.
OM 875	LINK, PITCH, SHORT	X	—	—	—	D	3-2-67	KELLEY
876	" " "	X	—	—	—			

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS - "800" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. W DW	E.A. W DW	SIZE	DATE DRAWN	DRAWN BY
OM 877	ROD END, MODIFIED (SPHERCO ARE-10FN)	X	—	—	—	B	3-6-67	KELLEY
878	BOLT, MODIFIED (5/8-18 UNF-2A)	X	X	X	X	B	3-6-67	KELLEY
OBS. 879	OBSOLETE							
OBS. 880	OBSOLETE							
OBS. 881	BOLT, SPECIAL	X				B	4-20-67	KELLEY
882 REV 2	WASHER, SPECIAL	X	X	X	X	B	5-22-67	NEISS
OBS. 883	OBSOLETE							
884								
885	BRACKET, TRANSFORMER MOUNTING	X				C	6-1-67	KELLEY
OBS OM 886	OBSOLETE							

DRAWING LOG SHEET

OMNIMOVER

CAR BODY "900" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. NDW	E.A NDW	SIZE	DATE DRAWN	DRAWN BY
OM 901		Obsolete						
902								
903 REV 3	SAFETY BAR	X				R	12-9-66	JAMESON
904 REV 4	PIVOT SHAFT, SAFETY BAR	X				C	3-3-67	EGGERT
905								
906								
907 REV 3	MOUNT, SAFETY BAR	X				C	3-3-67	EGGERT
908 REV 1	MOUNT RETAINER	X				A	2-13-67	MOSELEY
909								
910								
911								
912								
913								
914								
915								
916								
917								
918								
919								
920								
921								
922						B	6-2-70	EGGERT
923	BEARING SHAFT, PIVOT LEVER	X	X	X	X	B	3-19-68	WOHLFAHRT
924	HOUSING ASSY, COMPRESSION SPRING	X	X	X	X	B	3-19-68	WOHLFAHRT
OM 925	BUSHING, ROD							

DRAWING LOG SHEET

OMNIMOVER

CAR BODY "900" SERIES

DRAWING NUMBER	DRAWING TITLE	MONSANTO	H.M. D/L	H.M. WDIV	E.A WDW	SIZE	DATE DRAWN	DRAWN BY
OM 926	BODY, CAR, INTERIOR LINER	X				R	11-4-66	GURR
927 REV 1	BODY, CAR, EXTERIOR SHELL	X				R	11-15-66	GURR
928	BODY, CAR, FLOOR PANEL	X				R	11-17-66	GURR
929	BODY, CAR, CLAMSHELL	X				R	12-15-66	GURR
930 REV 1	GRILLE, SPEAKER	X				D	2-1-67	V.W.B.
931 REV 2	BODY FRAME, WELDMENT (SHEET 1 & 2)	X				R	1=31-67	EGGERT
932 REV E	ASSEMBLY, SAFETY BAR MECHANISM	X				R	2-29-67	NEISS
933 REV 3	HOUSING, CAM & LINKAGE SUPPORT	X				F	3-6-67	EGGERT
934 REV 2	LEVER, PIVOT, SAFETY BAR	X				D	3-6-67	EGGERT
935 REV 2	CAM, PIVOT LEVER LOCKING	X	935 935-1	935 935-1	935 935-1	D	3-6-67	EGGERT
936 REV 2	LINK, PIVOT LEVER CAMMING	X	936 936-1	936 936-1	936 936-1	D	3-6-67	EGGERT
937 REV 1	SUPPORT, CAM WHEEL	X	937 937-1	937 937-1	937 937-1	F	2-17-67	EGGERT
938	BRACKET, PANEL SUPPORT	X				D	2-13-67	E.V.K.
939 REV 1	GUIDE, PULL-ROD	X	X	X	X	B	2-2-67	KELLEY
940 REV 2	HOUSING ASSEMBLY	X	X	X	X	B	2-1-67	KELLEY
941 REV D	PISTON, SPRING COMPRESSION (-1 & -2)	X	941-1 941-2	941-1 941-2	941-1 941-2	B	2-2-67	KELLEY
OBS 942	OBSOLETE							
943 REV B	PULL-ROD, SPRING PISTON (-1 & -2)	X	943-1 943-2	943-1 943-2	943-1 943-2	B	2-2-67	KELLEY
944	TRIM, BODY (A.B.S. EXTRUSION)	X				B	3-29-67	KELLEY
OBS 945	OBSOLETE							
946 REV 2	FITTING, SPRING ATTACHMENT	X	X	X	X	B	2-2-67	KELLEY
OBS 947	OBSOLETE							
948 REV 1	ROLLER, PIVOT LEVER	X	X	X	X	B	9-28-67	B.W.B.
949	SPRING, COMPRESSION	X	X	X	X	B	3-11-68	NEISS
OBS OM 950	OBSOLETE							

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "900" SERIES

DRAWING NUMBER	DRAWING TITLE	MONSANTO	H.M. D/L	H.M. WDW	EA. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 951	FLOOR, PLYWOOD	X				F	2-7-67	KELLEY
952	FLOORMAT	X				F	3-2-67	EGGERT
953	BRACE, FRAME	X				C	2-13-67	D.V.K.
954 REV 2	SPACER TUBE	X				B	3-7-67	EGGERT
955	TRIM STRIP (-1 L.H.: -2 R.H.)	X				F	3-13-67	NEISS
OBS 956	OBSOLETE							
957 REV D	PIVOT SHAFT, CAMMING LINK	X	X	X	X	B	3-6-67	EGGERT
958 REV C	BEARING SHAFT, PIVOT LEVER	X	X	X	X	B	3-6-67	EGGERT
959 REV 1	BUSHING, GUIDE, PULL-ROD	X	X	X	X	B	3-6-67	EGGERT
960 REV C	MAINSPRING, SAFETY BAR MECHANISM ASSEMBLY	X	X	X	X	B	3-7-67	EGGERT
961 REV 1	SPEAKER ANCHOR PLATE	X	X	X	-	C	2-2-67	V.W.B.
962	SPEAKER ASSEMBLY					D	2-2-67	V.W.B.
963 REV B	BOLT, SPECIAL, CAM PIVOT	X	X	X	X	B	4-3-67	KELLEY
964 REV 1	SPRING, COMPRESSION	X	X	X	X	B	6-1-67	NEISS
965 REV 1	BRACKET, RECEPTACLE MOUNTING	X				C	6-1-67	KELLEY
966								
967								
968								
969								
970								
971								
972								
973								
974								
79 OM 975								

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "900" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 976								
977								
978								
979								
980								
981								
982								
983								
984								
985								
986								
987								
988								
989								
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991								
992								
993								
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995								
996	OMNIMOVER/WEDWAY DECAL LOCATIONS					R	11-30-67	McGINNIS
997 REV 1	ELECTRICAL ASSEMBLY	X				R	6-8-67	A.G.L.
998 REV 1	CAR BODY ASSEMBLY	X	—	—	—	R	2-29-67	NEISS
OM 999 REV 2	CAR-TRAIN ASSEMBLY	X	—	—	—	R	3-13-67	KELLEY

DRAWING LOG SHEET

OMNIMOVER

DRIVE UNIT "1400" SERIES (MARK III)

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1400	ASSEMBLY, DRIVE UNIT (T/O)		X	X	—	R	2-27-69	T.K.
1401	OIL COOLER ASSY		X	X	X	F	7-25-69	T.K.
1402	GEAR CASE, DRIVE UNIT		X	X	X	R	2-20-69	R.K.
1403	COVER PORT		X	X	X	D	2-20-69	F.E.
1404	BRACKET, COOLER		X	X	X	F	7-21-69	KELLEY
1405	CARRIER, DRIVE WHEELS		X	X	X	E	2-19-69	T.K.
1406	END CAP, WORM SHAFT (TAB)		1406 1406-1	1406 1406-1	1406 1406-1	D	2-24-69	R.M.
1407	CAP, LOWER BEARING		X	X	X	C	1-27-69	R.L.N.
1408 REV A	TUBE, SPRING LOADING		X	X	—	B	12-20-68	R.L.N.
1409	SPRING, DISC, MODIFIED		X	X	—	C	2-21-69	F.E.
1410	SLEEVE, BEARING		X	X	X	C	3-14-69	F.E.
1411	BEARING SHAFT, GEAR MOUNTING		X	X	—	D	2-10-69	T.K.
1412	WORM, DRIVE UNIT		X	X	X	D	2-4-69	T.K.
1413	GEAR, DRIVE UNIT		X	X	X	D	2-3-69	FEUER
1414	SHAFT, CARRIER, LOWER GUIDE		X	X	X	C	12-28-68	R.L.N.
OBS. 1415	BEARING, ROLLER THRUST (MODIFIED)		X	X	X	C	3-18-69	B.P.
1416	SHAFT, DRIVE WHEEL		X	X	—	D	1-3-69	R.L.N.
OBS. 1417								
OBS. 1418	SHAFT, WORM DRIVE		X	X	X	C	2-11-69	R.K.
1419	COLLAR, GEAR SHAFT		X	X	X	C	2-20-69	T.M.
1420	HOUSING, LOWER BEARING		X	X	X	C	1-24-69	R.L.N.
OBS. 1421								
1422	SHAFT, CARRIE, UPPER GUIDE		X	X	X	C	12-20-68	R.L.N.
1423	BOLT, SPECIAL, SPRING LOADING		X	X	X	C	12-20-68	R.L.N.
OBS. OM 1424	SLEEVE, BEARING		X	X	X	C	2-19-69	F.E.

DRAWING LOG SHEET

OMNIMOVER

DRIVE UNIT "1400" SERIES (MARK III)

DRAWING NUMBER	DRAWING TITLE	H.M. D/L	H.M. WDW	E.A WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1425	BUSHING, FLANGED	X	X	X	C	2-21-69	F.E.
1426	COVER GASKET	X	X	X	C	2-28-69	F.E.
1427	MOUNTING BRACKET, FRONT, DRIVE UNIT	X	X	X	D	2-9-69	T.K.
1428	MOUNTING BRACKET, REAR, DRIVE UNIT	X	X	X	E	2-6-69	T.K.
1429	SPRING SEAT ASSEMBLY	X	X	X	C	2-24-69	F.E.
1430	CRADLE, HANDLING, DRIVE UNIT	X	X	X	F	3-17-69	T.K.
1431	DEFLECTOR, COOLER	X	X	X	D	7-28-69	T.K.
1432	SHIELD, SHAFT COLLAR	X	X	—	B	5-18-70	D.L.
1433	SHIELD, SHAFT COLLAR	—	—	X	B	10-11-71	NAP
1434	BEARING SHAFT, GEAR MOUNTING	—	—	X	D	10-11-71	NAP
1435	SHAFT, DRIVE WHEEL	—	—	X	D	10-11-71	NAP
1436	WASHER, SPECIAL	—	—	X	B	10-14-71	G.BAKER
1437	"U" JOINT, MODIFIED (MECH 3C-L) E.A.L.	—	—	X	C	10-11-71	NAP
1438	"U" JOINT, MODIFIED (MECH 3C-L) HAUNTED HOUSE	X	X	—	C	10-11-71	NAP
1439	SPRING, COMPRESSION	—	—	X	C	10-21-71	D.LEFEU
1440	DRIVE UNIT ASSEMBLY - MARK IV (EAL)	—	—	X	R	10-11-71	NAP
OM 1441	WASHER, RETAINING	—	—	X	B	10-25-71	BAKER
1442	BEARING ASSY	X	X	X	B	8-2-74	BK

DRAWING LOG SHEET

OMNIMOVER

MARK III "1500" SERIES

DRAWING NUMBER	DRAWING TITLE	H.M. D/L	H.M. WDW	EA. WDW	SIZE	DATE DRAWN	DRAWN BY
✓ OM 1501	CAM SUPPORT & TIMING D/L	X	—	—	R	11-26-68	F.E.
✓ 1502	TRACK STRUCTURE D/L	X	—	—	R	11-19-68	F.E.
✓ 1503	TRACK DRIVE UNIT LOCATIONS D/L	X	—	—	F	10-15-68	A.G.L.
✓ 1504	ROTATION CAM SUPPORT	X	X	—	D	1-22-69	F.H.E.
✓ 1505	ROTATION CAM U-BOLT	X	X	—	C	1-22-69	F.H.E.
✓ 1506	TRANSFER CARRIAGE	X	X	—	R	2-18-69	A.G.L.
✓ 1507	SERVICE TRACK DETAILS	X	—	—	F	2-25-69	A.G.L.
✓ 1508	TRACK STRUCTURE WDW	X	X	—	R	5-14-69	F.E.
✓ 1509	CAM SUPPORT & TIMING WDW	X	X	—	R	5-15-69	F.E.
✓ 1510	TRACK - DRIVE UNIT LOCATIONS WDW	X	X	—	R	6-25-69	F.E.
1511	SERVICE AREA LAYOUT				F	1-20-70	FELTROP
1512	TRACK STRUCTURE WDW (EAL)	—	—	X	R	7-27-71	J.ROBERTS
1513	CAM SUPPORT & TIMING WDW (EAL)	—	—	X	R	10-6-71	LEFEU
1514	TRACK DRIVE UNIT LOCATION (EAL)	—	—	X	J	8-26-71	NEISS
1515							
1516	SAFETY BAR CAM & LOAD BELT LOCATION (EAL)	—	—	X	R	11-5-71	R.NEISS
1517	SUPPORT, ROTATION CAM (EAL)				D	10-5-71	G.BAKER
1518	U-BOLT, CAM SUPPORT (EAL)				C	10-4-71	G.BAKER
1519	TRANSFER CARRIAGE (SHEET 1 & 2) (EAL)	—	—	X	R	11-15-71	BAKER/LEHMAN
1520	TRANSFER CARRIAGE & SERVICE TRACK (EAL)	—	—	X	R	10-29-71	LEHMAN
OM 1521	COVER, TRACK (PLYWOOD) (EAL)	—	—	X	R		R.BURWELL

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "1600" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1600	AUDIO ELECTRICAL ASSEMBLY		X	1600-1	—	R	11-4-69	D.L.
1601	AMPLIFIER & PICK-UP ASSEMBLY		X			F	3-12-69	F.E.
1602	ALTERNATOR DRIVE ASSY		X			F	5-2-69	KELLEY
1603	BASE, PHOTO CELL		X			C	5-5-69	F.E.
1604	BRACKET, SUPPORT		X			E	5-5-69	F.E.
1605	SUPPORT, CABLE		X			C	2-26-69	F.E.
1606	RECEIVER ANTENNA, ASSEMBLY		X			D	4-0-69	F.E.
1607	SIGNAL STRIP		X			C	4-17-69	F.E.
1608	TERMINAL BOX, MODIFIED					D	3-26-69	F.E.
1609	LAMP PHOTOCELL SENSOR ASSEMBLY		X			E	7-8-69	HOY
1610	TUBE, LAMP		X			C	5-2-69	NEISS
1611	SUPPORT ASSY, TERMINAL BOX		X			F	3-4-69	F.E.
1612	CLAMP, TUBE		X			C	5-5-69	NEISS
1613	LENS		X			B	5-5-69	NEISS
1614	SOCKET, LAMP		X			C	4-21-69	F.E.
1615								
1616								
1617	MOUNT ASSEMBLY, ALTERNATOR		X			F	4-30-69	FEUER
1618	MOUNTING BRACKET, JACKSHAFT		X			D	4-28-69	F.E.
OBS. 1619	SEE OM-1630							
1620	SPROCKET ASSEMBLY, DRIVE WHEEL		X			F	4-29-69	NEISS
1621	CHAIN GUARD ASSEMBLY, ALTERNATOR DRIVE		X			E	5-1-69	NEISS
1622	WHEEL MODIFIED		X			C	4-4-69	NEISS
1623	JACKSHAFT		X			D	5-1-69	F.E.
OM 1624	PULLEY ASSY, MODIFIED		X			C	6-27-69	KELLEY

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "1600" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
✓ OM 1625	SPROCKET, MODIFIED (JACKSHAFT)		X			C	6-27-69	KELLEY
OBS 1626								
✓ 1627	BRACKET, SWITCH MOUNT		✓			C	11-23-70	G.BAKER
✓ 1628	SHAFT, ROTARY SWITCH MOUNT		✓			C	11-19-70	G.BAKER
✓ 1629	PULLEY/SWITCH, MOUNT ASSEMBLY		✓			C	11-25-70	B.BAKER
✓ 1630 REV A	PULLEY ASSEMBLY, ALTERNATOR		✓			C	12-15-70	G.BAKER
85								

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "1800" SERIES

DRAWING NUMBER	DRAWING TITLE	H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1800	CHASSIS ASSEMBLY: MARK III HAUNTED MANSION	X	X	—	R	12-19-69	T.K.
1801	CHASSIS ASSEMBLY: MARK IV EAL	—	—	X	R	9-30-71	T.W.
1802	ROLLOWER, ROTATION	X	X	—	R	7-25-68	T.K.
1803	PIVOT ARM, FOLLOWER	X	X	—	C	7-24-68	A.M.
1804	WHEEL MOUNT, FOLLOWER	X	X	—	C	7-24-68	A.M.
1805	JOURNAL, PITCH HEAD	X	X	X	C	8-30-68	A.G.L.
1806	HOUSING, DOUBLE BEARING	X	X	—	F	8-1-68	T.K.
1807	YOKE, FOLLOWER ARM	X	X	—	C	7-23-68	A.M.
1808	FOLLOWER ARM, ROTATION	X	X	—	D	7-24-68	A.M.
1809	BOLT, SPECIAL FOLLOWER	X	X	X	B	7-29-68	A.M.
1810	ROTATION SECTOR	X	X	—	R	7-30-68	T.K.
1811	PIVOT SHAFT, ROTATION	X	X	X	D	8-2-68	T.K.
1812	TONGUE, PIVOT	1812 1812-1	1812 1812-1	—	E	9-4-68	F.E.
1813	PUSHROD, PITCH	X	X	X	B	8-14-68	T.K.
1814	TIE ARM, PITCH FOLLOWER	X	X	X	B	8-14-68	T.K.
1815	PITCH FOLLOWER ARM	X	X	X	F	8-15-68	A.G.L.
1816	BOGIE, CHASSIS	X	X	—	R	8-21-68	B.W.B.
1817 REV C	PIVOT, BOGIE	X	X	—	E	7-28-68	T.K.
1818 REV A	COLLAR, PIVOT	X	X	—	B	7-22-68	A.M.
1819	PLATE, BEARING RETAINING	1819 1819-1	1819 1819-1	1819 1819-1	C	7-22-68	A.M.
1820	COLLAR, BODY MOUNTING	X	X	X	D	9-18-68	T.K.
1821	COLLAR, BEARING RETAINING	X	X	X	B	7-23-68	A.M.
1822	BOLT, SPECIAL (BOGIE)	X	X	X	B	7-23-68	A.M.
1823	DRIVE TUBE ASSY	X	X	X	F	1-16-69	A.G.L.
OM 1824	DRIVE FIN	X	X	X	R	7-30-68	A.M.

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "1800" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1825	FLANGE, DRIVE TUBE		X	X	—	E	1-14-69	A.G.L.
1826	PITCH ARM ASSEMBLY		X	X	X	F	8-20-68	A.M.
1827	PITCH HEAD, ROTATION		X	X	X	F	8-29-68	A.G.L.
1828	PINION GEAR		X	X	X	D	7-31-68	T.K.
1829 OBS.	SPINDLE, WHEEL SUPERSEDED BY 20782		X	X	X	D	11-5-68	F.E.
1830	PEDESTAL, SOCKET		X	X	X	F	8-5-68	T.K.
1831	HOUSING, FIN MOUNT		X	X	X	C	1-6-69	F.H.E.
1832	PEDESTAL ASSEMBLY, WELDMENT		X	X	X	R	8-5-68	A.G.L.
1833	CLAMP, COUPLING ASSEMBLY		X	X	X	F	12-3-68	A.G.L.
1834	WHEEL, CAM FOLLOWER		X	X	X	C	8-1-68	A.G.L.
1835	COLLAR, ECCENTRIC		X	X	X	C	8-15-68	A.G.L.
1836	WASHER, SPECIAL		X	X	X	B	8-15-68	A.G.L.
1837	PLATE, FIN MOUNT		X	X	X	C	1-7-69	F.H.E.
1838 REV A	SHAFT, PIVOT ARM		X	X	—	B	5-9-69	F.H.E.
1839								
1840	FOLLOWER PIVOT ARM ASSY		X	X	—	C	10-22-69	D.V.K.
1841								
1842								
1843								
1844	BOGIE UP-STOP ASSEMBLY.		X	X	—	E	11-18-68	F.E.
OBS. 1845	BEARING SPACER					B	12-9-68	A.G.L.
1846	SHOCK ADJUST LINK		X	X	X	B	12-16-68	F.E.
1847	SLOT COVER ASSEMBLY		X	X	X	F	3-19-70	R.L.T.
1848 B	HOUSING, BUSHING, SLOT COVER		X	X	X	C	3-17-70	R.L.T.
OM 1849	CONE, REAR GUIDE, SLOT COVER		X	X	X	D	3-17-70	R.L.T.

DRAWING LOG SHEET

OMNIMOVER

CAR CHASSIS "T800" SERIES

DRAWING NUMBER	DRAWING TITLE	H.M. D/L	H.M. W.DW	E.A. W.DW	SIZE	DATE DRAWN	DRAWN BY
OM 1850	SHEET, SLOT COVER	X	X	X	E	3-18-70	R.L.T.
1851	BRACKET, TOWING, SLOT COVER	X	X	X	E	3-20-70	R.L.T.
1852							
1853							
1854	BOGIE, CHASSIS (EAL)	—	—	X	R	9-8-71	G.BAKER
1855	UP STOP ASSEMBLY, BOGIE	—	—	X	J	7-26-71	T.W.
1856	ROTATION SECTOR	—	—	X	R	9-10-71	LEFEU
1857							
1858	TONGUE, PIVOT	—	—	1858 1858-1	E	10-1-71	LEHMAN
1859	PIVOT ASSY, BOGIE	—	—	1859 1859-1	E	10-6-71	LEHMAN
1860	COLLAR, PIVOT	—	—	X	B	10-6-71	LEHMAN
1861	ADAPTOR, BEARING	—	—	X	D	10-5-71	LEHMAN
1862	ROTATION FOLLOWER ASSEMBLY					12-10-71	LEHMAN
1863	FOLLOWER, ROTATION (CAST.)					12-1-71	LEHMAN
1864	TENSIONER, ROTATION FOLLOWER	—	—	X		12-1-71	LEHMAN
1865	SWIVEL YOKE, ROTATION FOLLOWER					12-7-71	HURT
1866	FOLLOWER ARM, ROTATION	—	—	X		12-15-71	LEFEU
1867	CAP, RETAINING	—	—	X		12-1-71	HURT
1868	STUD, 5/8-18	—	—	X		12-1-71	HURT
1869	PIVOT, JOURNAL	—	—	X		12-14-71	MOSELEY
OM 1870	LINK, SHOCK ABSORBER	—	—	X	B	3-29-71	E.F.
1871	ROTATION FOLLOWER ASS'Y.	—	—	X			MG
1872	FOLLOWER ROTATION	—	—	X			MG
1873	SWIVEL YOKE						

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "1900" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1900	CAR BODY ASSEMBLY (HAUNTED MANSION)		X	X	—	R	2-6-69	R.L.N.
1901	CAR BODY ASSEMBLY (EAL)		—	—	X	R	9-24-71	G.BAKER
1902								
1903	SAFETY BAR MECHANISM ASSEMBLY		X	X	X	R	1-21-69	A.M.H.
1904	BODY SHELL ASSEMBLY, FRONT		X	X	—	R	1-17-69	R.L.N.
1905	BODY SHELL REAR		X	X	—	F	1-20-69	R.L.N.
1906	FRAME, BODY MOUNTING		X	X	X	R	12-6-69	R.K.
1907	BOSS, FRAME, FRONT		X	X	—	D	1-29-69	F.H.E.
1908	BOSS, FRAME, REAR		X	X	—	C	1-30-69	F.H.E.
1909	JOURNAL, SUPPORT		X	X	X	C	1-31-69	F.H.E.
1910	HOUSING ASSEMBLY, CAM & LINKAGE		1910 1910-1	1910 1910-1	1910 1910-1	F	1-21-69	A.G.L.
1911	JOURNAL ASSEMBLY		1911 1911-1	1911 1911-1	1911 1911-1	D	1-22-69	A.G.L.
1912	PIVOT LEVER ASSEMBLY		1912 1912-1	1912 1912-1	1912 1912-1	E	1-29-69	A.G.L.
1913	PIVOT LEVER ASSEMBLY		1913 1913-1	1913 1913-1	1913 1913-1	E	7-23-69	KELLEY
1914	JOURNAL ASSEMBLY		X	X	X	D	7-30-69	KELLEY
1915								
1916	FLANGE, BAR		X	X	X	C	1-28-69	A.M.H.
1917	CROSS BAR ASSEMBLY		X	X	X	C	1-28-69	A.M.H.
1918	CLAMSHELL ASSEMBLY		X	X	—	E	2-14-69	F.H.E.
1919	GRAB BAR ASSEMBLY		X	X	—	R	4-28-69	KELLEY
1920	CLAMPSHELL, OUTER		X	X	—	E	2-12-69	R.L.N.
1921	CLAMSHELL, INNER		X	X	—	E	2-13-69	R.L.N.
1922	SEAT CUSHION ASSEMBLY (EAL)		X	X	X	E	2-12-69	R.L.N.
1923	BASE, GRAB BAR TUBE		X	X	—	F	4-24-69	KELLEY
OM 1924	BODY SHELL ASSEMBLY - FRONT (EAL)		—	—	X	R	10-12-71	G.BAKER

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "1900" SERIES

DRAWING NUMBER		DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1925		BODY SHELL, REAR (EAL)		—	—	X	F	10-12-71	G.BAKER
1926		BASE, GRAB BAR TUBE (EAL)					D	11-30-71	LEHMAN
1927		GRAB BAR ASSY (EAL)					R	11-24-71	G.BAKER
1928		CLAMSHELL, OUTER (EAL)							
1929		CLAMSHELL, INNER (EAL							
1930		CLAMSHELL ASSY (EAL) 1918		—	—	X			
✓ 1931	A	GRAB BAR		X					
✓ 1932		CROSS BAR		X					
1933		REINFORCEMENT BAR		X					
1934									
1935									
1936									
1937									
1938									
1939									
1940									
1941									
1942									
1943									
1944									
1945									
1946									
1947									
1948									
OM 1949									

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "1900" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1950								
1951								
1952								
1953								
1954								
1955								
1956								
1957								
1958								
1959								
1960								
1961								
1962								
1963								
1964								
1965								
1966								
1967								
1968								
1969								
1970								
1971								
1972								
1973								
OM 1974								

DRAWING LOG SHEET

OMNIMOVER

CAR BODY - "1900" SERIES

DRAWING NUMBER	DRAWING TITLE		H.M. D/L	H.M. WDW	E.A. WDW	SIZE	DATE DRAWN	DRAWN BY
OM 1975								
1976								
1977								
1978								
1979								
1980								
1981								
1982								
1983								
1984								
1985								
1986								
1987								
1988								
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								
1998	CAR TRAIN ASSY (MK IV) WDW FAL		—	—	X	R	10-6-71	NEISS
OM 1999	CAR TRAIN ASSY (MARK III) D/L ONE DRAWING		X	—	—	R	3-20-69	R.L.N.
[illegible]	[illegible] TRAIN ASSY (MARK III)		[illegible]					

ELECTRICAL DRAWING LOG

LIST NO=001 RUN JOB=HAUNTED MANSION (L-06) WDW

LIST	SEQ.	FSC	DWG NO.	CROSS REF.	S	TITLE
001	0365	5820-1038600	ET-A101		C	ELECTRICAL TEST-FM RECVT PCB ASSY-OMNIMOVER WDW
001	0370	5820-1013126	10317		S	ARTWORK CKT BOARD FM RECEIVER
001	0375	5820-1037629	10446		S	SILKSCREEN ARTWORK,PCB FM RECVR RF SOUND SYSTEM
001	0377	5340-1039270	10826		S	COIL MODIFICATION, FM SYSTEM-OMNIMOVER
001	0380	-				
001	0390	5820-1020729	DM-10606		S	ASSY ANTENNA FM RECEIVER OMNIMOVER WDW
001	0400	5820-1020916	AY-4120		C	SUB ASSY ANTENNA FM RECVR-OMNIMOVER
001	0405	5820-1020916	AY-4120		C	SUB ASSY ANTENNA FM RECEIVER
001	0410	5820-1020919	PL-4120		S	PARTS LIST SUB-ASSY ANTENNA FM RECEIVER
001	0430	-				
001	0440	5940-1028060			C	ASSY TERM BOARD TYPICAL CAR OMNIMOVER WDW
001	0450	5940-1028080			S	MTG BKT TERM BOARD
001	0460	-				
001	0470	5940-1028070			C	ASSY TERM BOARD ALT CAR OMNIMOVER WDW
001	0480	5940-1028070			S	PARTS LIST TERM BOARD ALT CAR
001	0490	5940-1028080			S	MTG BKT TERM BOARD
001	0500	5995-1028020			C	ASSY CABLE AUDIO TO JUNCTION BOX OMNIMOVER WDW
001	0510	5995-1028020			S	PARTS LIST CABLE AUDIO TO JUNCITON BOX
001	0520	-				
001	0530	5995-1028030			C	ASSY CABLE EMERG PANEL POWER OMNIMOVER WDW
001	0540	5995-1028030			S	PARTS LIST CABLE EMERG PANEL POWER
001	0550	-				
001	0560	5995-1028300			C	ASSY AUDIO CABLE TO FOLLOWING CAR OMNIMOVER WDW
001	0570	5995-1028300			S	PARTS LIST AUDIO CABLE TO FOWLLOWING CAR
001	0580	-				
001	0590	5995-1028270			C	ASSY CABLE ALT AND CENT SW TO BATT BOX OMNIMOVER WDW
001	0600	5995-1028270			S	PARTS LIST CABLE ALT AND CENT SW TO BATT BOX
001	0610	-				
001	0620	5995-1028280			C	ASSY CABLE RECEIVER TO J-BOX OMNIMOVER WDW
001	0630	5995-1028280			S	PARTS LIST CABLE RECEIVER TO J-BOX
001	0640	-				
001	0650	5995-1028340			C	ASSY CABLE DC POWER WITH J-BOX OMNIMOVER WDW
001	0660	5995-1028340			S	PARTS LIST CABLE DC POWER
001	0670	5995-1028330			C	ASSY CONNECTOR BOX OMNIMOVER WDW
001	0680	5975-1028530			S	PARTS LIST CONNECTOR BOX
001	0684	5975-1028530			C	CONNECTOR BOX AND COVER
001	0686	5995-1028340			C	ASSY CABLE DC POWER OMNIMOVER WDW
001	0688	5995-1028340			S	PARTS LIST DC POWER CABLE
001	0689	5995-1028350				
001	0690	-			C	ASSY CABLE BATT CONT BOX TO J-BOX OMNIMOVER WDW
001	0695	5995-1028350			S	PARTS LIST CABLE BATT CONT BOX TO J-BOX
001	0698	5995-1028370				
001	0700	-			C	ASSY CABLE AUDIO CAR MOUNTED OMNIMOVER WDW
001	0710	5995-1028360			S	PARTS LIST CABLE AUDIO CAR MOUNTED
001	0720	5995-1028360				

LIST NO-001 RUN JOB-HAUNTED MANSION (L-06) WDW

LIST	SEQ.	FSC DWG NO.	CROSS REF.	S	TITLE
001	444A	7690-102934E		E	CAB.I.D.PLATES,H.MANSION, WDW
001	[illegible]	6110-103000A		C	ASSY.,P.S.HAT BOX FIG.42,H.MANSION, WDW, D/L
001	0001	7720-102[illegible]0		E	INSTALLATION ELECT EQUIP ALT. PR. OMNIMOVER WDW
001	0002	7720-102[illegible]0		D	PARTS LIST ELECT. EQUIP. ALT. PR. OMNIMOVER WDW
001	0003	7720-102[illegible]0		E	INSTALLATION ELECT. EQUIP RCVR. PR. OMNIMOVER WDW
001	0004	7720-1028010		D	PARTS LIST ELECT. EQUIP. RCVR. PR. OMNIMOVER WDW
001	0005	7720-102[illegible]0		E	INSTALLATION ELECT EQUIP. AMP CAR (IF REQD)
001	0006	7720-102[illegible]0		D	PARTS LIST ELECT EQUIP. AMP CAR (IF REQD)
001	0010	7720-102[illegible]		E	WIRING DIAGRAM OMNIMOVER WDW
001	0020	7720-102[illegible]		E	SCHEMATIC DIAGRAM OMNIMOVER WDW
001	0030	7720-102[illegible]		C	ELECTRICAL TEST OMNIMOVER WDW
001	0040	7720-102[illegible]A		F	CAR SCHEDULE OMNIMOVER WDW
001	0050	-		E	ASSY BATERY CONTROL BOX OMNIMOVER
001	0060	6135-102[illegible]		D	PARTS LIST BATTERY CONTROL BOX
001	0070	6135-102[illegible]			
001	0080	6135-101[illegible]A	10340	D	DIODE MTG BKT BATT CONTROL BOX
001	0090	6135-102[illegible]	10320	D	BOX DETAIL BATT CONTROL BOX
001	0100	-		C	ASSY BATTERY CASE OMNIMOVER WDW
001	0120	6135-102[illegible]0			PARTS LIST BATTERY CASE
001	0130	6135-102[illegible]		C	BATTERY CASE
001	0140	6135-102[illegible]			MTG BLOCK BATTERY CASE
001	0150	6135-102[illegible]			
001	0160	-		E	ASSY, JUNCTION BOX ALT. CAR OMNIMOVER WDW
001	0170	5975-102[illegible]A		D	PARTS LIST JUNCTION BOX ALT CAR
001	0180	5975-102[illegible]0		D	JUNCTION BOX ALT CAR
001	0190	5975-102[illegible]0			
001	0200	-		C	ASSY, JUNCTION BOX RECEIVER CAR OMNIMOVER WDW
001	0210	5975-102[illegible]		D	PARTS LIST JUNCTION BOX RECEIVER CAR
001	0220	5975-1028120		D	JUNCTION BOX RECEIVER CAR
001	0230	5975-1028140			
001	0240	-			
001	0250	-		D	ASSY EMERG POWER PANEL OMNIMOVER WDW
001	0260	5110-1028230		D	PARTS LIST EMERG POWER PANEL
001	0270	6110-1028240		E	DETAIL EMERG POWER PANEL
001	0280	6110-1028250			
001	0290	-		D	ASSY FM RECEIVER OMNIMOVER WDW
001	0300	5820-1020/7E	AY_6106	D	PARTS LIST FM RECEIVER
001	0310	5820-102[illegible]0	PL_6106	C	ELECTRICAL TEST FM RECVR ASSY OMNIMOVER WDW
001	0315	5820-1040[illegible]0	LT_6106	C	SCHEMATIC DIAGRAM FM RECEIVER
001	0320	5820-1021[illegible]E	[illegible]6106	D	ENCLOSURE FM RECEIVER
001	0330	5820-1029[illegible]0	[illegible]_1006		
001	0340	-		D	ASSY CKT BM FM RECEIVER OMNIMOVER WDW
001	0350	5820-102[illegible]E	AY_6101	D	PARTS LIST CKT BOARD FM RECEIVER
001	0360	5820-1023[illegible]	PL_6101		

LIST NO=001 RUN JOB-HAUNTED MANSION (L-06) WDW

LIST	SEQ.	FSC	DWG NO.	CROSS REF.	S	TITLE
001	073C	-				
001	074C	5995-1028490			C	ASSY CABLE AUDIO FLEXIBLE OMNIMOVER WDW
001	075C	5995-1028490			F	PARTS LIST CABLE AUDIO FLEXIBLE
001	076C	-				
001	077C	5995-1028280			C	ASSY CABLE EMERG POWER AND AUDIO SUPPLY OMN WDW
001	077C	5995-1028280			F	PARTS LIST CABLE EMERG POWER AND AUDIO
001	079C	-				
001	080C	5995-1028380			C	ASSY CABLE AUX AMP (OPTIONAL) OMNIMOVER WDW
001	081C	5995-1028380			F	PARTS LIST CABLE AUX AMP (OPTIONAL),H.MANSION,DW
001	0001	5815-1032694			C	ASSY HOST GHOST DRIVE CONTROL
001	0002	5815-1032694			F	WIRING DIAG, HOST GHOST DRIVE CONTROL
001	0003	5815-1032674			D	SCHEMATIC DIAG HOST GHOST DRIVE CONTROL
001	004C	5995-1032230			F	OVERALL SOUND +RF BLOCK DIAG.
001	005C	5995-1032340			F	PLUG + CABLE SCHEDULE ANIMATION + MONITOR
001	007C	5995-1032340			F	PLUG + CABLE SCHEDULE RF + SOUND
001	008C	7690-1029340			D	IDENTIFICATION TAG, CABINET - ITEM1
001	010C	7690-1029350			D	IDENTIFICATION TAG, PANEL - ITEMS 1 THRU 6
001	012C	5935-1012604	10279		D	CONNECTOR RAIL
001	014C	6130-1016074	2034		A	PARTS LIST, POWER SUPPLY
001	015C	6130-1015429	SD-2034		C	SCHEMATIC DIAGRAM, POWER SUPPLY
001	016C	6130-1015734	WD-2034		D	WIRING DIAGRAM, POWER SUPPLY
001	017C	-				
001	018C	5975-1030355			F	RTU INTERCONNECT WIRING DIAGRAM
001	019C	5975-1029310			F	RTU CABINET ASSEMBLY B
001	021C	7690-1029340			D	IDENTIFICATION TAG, CABINET - ITEM 2
001	022C	7690-1029350			D	IDENTIFICATION TAG, PANEL - ITEMS 8 THRU 12
001	023C	5935-1012604	10279		D	CONNECTOR RAIL
001	025C	6130-1016074	PL-2034		A	PARTS LIST, POWER SUPPLY
001	026C	6130-1015429	SD-2034		C	SCHEMATIC DIAGRAM, POWER SUPPLY
001	027C	6130-1015734	WD-2034		D	WIRING DIAGRAM, POWER SUPPLY
001	029C	5975-1031210			F	BLANK PNL,(3 1/2)PAINTED TO MATCH ASTRODATA EQUIP
001	029C	-				
001	031C	5975-1029310			F	RTU CABINET ASSEMBLY -C-
001	033C	7690-1029340			D	IDENTIFICATION TAG, CABINET - ITEM 3
001	034C	7690-1029350			D	IDENTIFICATION TAG, PANEL - ITEMS 14 THRU 18
001	036C	5935-1012604	10279		D	CONNECTOR RAIL
001	037C	6130-1016074	PL-2034		A	PARTS LIST, POWER SUPPLY
001	038C	6130-1015429	SD-2034		C	SCHEMATIC DIAGRAM, POWER SUPPLY
001	039C	6130-1015734	WD-2034		D	WIRING DIAGRAM, POWER SUPPLY
001	041C	-				
001	043C	5975-1029320			F	RTU CABINET ASSEMBLY -D-
001	045C	7690-1029340			D	IDENTIFICATION TAG, CABINET - ITEM 4
001	046C	7690-1029350			D	IDENTIFICATION TAG, PANEL - ITEMS 20 THRU 24
001	048C	5935-1012604	10279		D	CONNECTOR RAIL

LIST NC-C01 RUN JOB-HAUNTED MANSION (1-06) WDW

LIST	SEQ.	FSC	DWG NO.	CAPSS REF.	S	TITLE
001	0490	6130-1015	AY-2034		F	ASSEMBLY - POWER SUPPLY
001	0510	6130-1015428	SD-2034		C	SCHEMATIC DIAGRAM, POWER SUPPLY
001	0520	6130-1015738	WD-2034		D	WIRING DIAGRAM, POWER SUPPLY
001	0530	-				
001	0550	5975-1029330			E	RTU CABINET ASSEMBLY -E-
001	0570	7690-1029340			D	IDENTIFICATION TAG, CABINET - ITEM 5
001	0580	7690-1029350			D	IDENTIFICATION TAG, PANEL - ITEMS 26 THRU 30
001	0590	5935-1012 A	10279		D	CONNECTOR RAIL
001	0620	6130-1015428	SD-2034		C	SCHEMATIC DIAGRAM, POWER SUPPLY
001	0630	6130-1015738	WD-2034		D	WIRING DIAGRAM, POWER SUPPLY
001	0650	-				
001	0660	6110-1030 9A			J	HIGH LEVEL XCT CAB 15S ASSEMBLY
001	0670	6110-1030 0			J	HIGH LEVEL XCT MODULE MTG PLATE ASSEMBLY
001	0680	6110-1030 0			D	HIGH LEVEL XCT MODULE MTG PLATE DETAIL
001	0690	6110-1030 0			D	HIGH LEVEL XCT TERM STRIP MARKER
001	0691	-				
001	0700	5930-1033240			J	PRINTED CIRCUIT BOARD RELAY WDW
001	0710	5930-1033250			A	SILKSCREEN RELAY PRINTED CKT BOARD WDW
001	0720	5930-1033260			D	ASSY RELAY PRINTED CKT BOARD WDW
001	0730	5930-1033270			D	SCHEMATIC DIAG RELAY PRINTED CKT BOARD WDW
001	0740	5930-1033280			B	PARTS LIST RELAY PRINTED CKT BOARD WDW
001	0750	-				
001	0760	5830-1030430			E	AUDIO AMPLIFIER RACK ASSEMBLY
001	1165	-				
001	1170	6110-1033200			D	ASSY CONTROL CONSOLE LOAD AREA
001	1180	6110-1033210			B	PARTS LIST
001	1190	6110-1032040			D	DETAIL PANEL
001	1200	6110-1034470			D	DETAIL PANEL
001	1210	6110-1034500			D	DETAIL PANEL
001	1220	6110-1033080			D	DETAIL PANEL FRAME
001	1230	6110-1033090			D	DETAIL PANEL FRAME
001	1240	-				
001	1250	6110-1033210			D	ASSY CONTROL CONSOLE UNLOAD AREA
001	1260	6110-1033210			B	PARTS LIST
001	1270	6110-1032050			D	DETAIL PANEL
001	1280	6110-1034460			D	DETAIL PANEL
001	1290	6110-1034500			D	DETAIL PANEL
001	1300	6110-1033080			D	DETAIL PANEL FRAME
001	1310	6110-1033090			D	DETAIL PANEL FRAME
001	1320	-				
001	1330	6110-1033220			D	ASSY CONTROL CONSOLE MAINT AREA
001	1340	6110-1033210			B	PARTS LIST
001	1350	6110-1032030			D	DETAIL PANEL
001	1360	6110-1034490			D	DETAIL PANEL

LIST NO=001 R&M 000=HAUNTED MANSION (1=06) NOW

LIST	SEQ.	FSC	U/M	CROSS REF.	F	TITLE
001	1370	6110-1034400			P	DETAIL PANEL
001	1380	6110-1034500			P	DETAIL PANEL
001	1390	-				
001	1400	6110-1033230			P	ASSY CONTROL CONSOLE CLEANING AREA
001	1410	6110-1033270			P	PARTS LIST CLEANING AREA
001	1420	6110-1033300			P	DETAIL PANEL
001	1430	6110-1034450			P	DETAIL PANEL
001	1440	6110-1034600			P	DETAIL PANEL
001	1450	6210-1034020			P	CONTROL INDICATOR - STRETCHING ROOM
001	1460	-				
001	1470	5975-1042330			P	WIRING BOXES HAUNTED MANSION STRETCHING ROOM NOW
001	1480	-				
001	1490	6110-1041100			P	TELEPHONE PANEL CONTROL CONSOLE 2
001	1500	6110-1041140			P	TELEPHONE PANEL CONTROL CONSOLE 3
001	1510	-				
001	1520	6110-1036010			P	SCHEMATIC DIAG,STRETCHING ROOM SLIDING DOOR CONT.
001	1530	6110-1036960			P	ASSY,START, + CONT,RX,STRETCH, RM,SLIDING DOOR,HD
001	0010	5961-1032740				ASSY PHOTO CELL COUNTER
001	0020	5961-1032730				PARTS LIST
001	0030	5961-1032750	ET-6121		P	ELECTRICAL TEST PHOTOCELL SENSOR ASSY, AND CABLE
001	0040	5975-1032730				ASSY, CABLE, PHOTO CELL
001	0050	5975-1032730				PARTS LIST
001	0060	5961-1032700				WELDMENT, MOUNTING BRACKET
001	0070	5961-1032700				WELDMENT, GUIDE TUBE
001	0080	5961-1032700				LENS COLLAR
001	0090	5961-1032700				GUIDE TUBE
001	0100	5961-1032700				LAMP SOCKET
001	0110	5961-1032700				RING GUIDE
001	0116	5961-1032800				SWIVEL PIN
001	0120	5961-1032810				MOUNTING BRACKET, PHOTO CELL
001	0130	5961-1032820				STANDOFF, MODIFIED
001	0140	5961-1032830				CLAMP, GUIDE TUBE
001	0150	5961-1032640				
001	0160	5961-1032650				
001	0010	5820-1021470	AY-6106		P	ASSY 100 KHZ OSCILLATOR P.C. BOARD
001	0020	5820-1021471	PL-6106		P	PARTS LIST, 100 KHZ OSC P.C. BOARD
001	0030	5820-1021472	SD-6106		P	SCHEM DIAG 100 KHZ OSC P.C. BOARD
001	0040	5820-1021114	ET-6106		P	ELECTRICAL TEST 100 KHZ OSC P.C. BOARD
001	0050	5820-1036240			P	ARTWORK 100 + 110 KHZ MASTER P.C. BOARD
001	0060	5820-1021670	[illegible]		P	SILKSCREEN, 100 + 110 KHZ OSC P.C. BOARD
001	0070	5820-1021640	[illegible]		P	
001	0080	-				
001	0090	5820-1021480	AY-6107		P	ASSY 110 KHZ OSCILLATOR P.C. BOARD
001	0100	5820-1021473	PL-6107		P	PARTS LIST, 110 KHZ OSC P.C. BOARD
001	0110	5820-1021474	SD-6107		P	SCHEM DIAG 110 KHZ OSC P.C. BOARD
001	0120	5820-1021115	ET-6107		P	ELECTRICAL TEST 110 KHZ OSC P.C. BOARD
001	0130	5820-1036250			P	

LIST NC=001 RUN JOB-HAUNTED MANSION (L-06) WDW

LIST	SEQ.	FSC	DWG NO.	CROSS REF.	S	TITLE
001	0150	5820-1023670	10243		C	ARTWORK 100 + 110 KHZ OSC P.C. BOARD
001	0160	5820-1023680	10469		C	SILKSCREEN 100 + 110 KHZ OSC P.C. BOARD
001	0010	6110-1035630			C	ASSEMBLY RADIO STOP, RIDE CONTROL - H.M. WDW
001	0020	6110-1035670			B	SCHEMATIC DIAGRAM RADIO STOP RIDE CONTROL - WDW
001	0030	6110-1035680			D	EMERGENCY LOAD AND UNLOAD BELT CONTROL SKETCHES
001		5830-1035630			J	ASSEMBLY AUXILIARY POWER SUPPLY HM-WDW
001		5830-1035640			C	PANEL-AUXILIARY POWER SUPPLY HM-WDW
001		5830-1035650			B	SILKSCREEN DETAIL PANEL AUXILIARY POWER SUPPLY HM
001		5830-1035660			J	CHASSIS-AUXILIARY POWER SUPPLY HM-WDW
001		5830-1035740			J	ASSEMBLY B POWER SUPPLY HM-WDW
001		5830-1035750			C	PANEL B POWER SUPPLY HM-WDW
001		5830-1035760			B	SILKSCREEN DETAIL-PANEL B POWER SUPPLY HM-WDW
001		5830-1035900			J	CHASSIS B POWER SUPPLY HM-WDW
001		5830-1035910			C	PANEL-REAR CONNECTOR NOMENCLATURE HM-WDW
001		5830-1035920			B	SILKSCREEN-REAR CONNECTOR NOMENCLATURE PNL HM-WDW
001		5830-1035530			J	ASSY RF SOUND CABINET 14L HM-WDW
001		5830-1035540			B	BILL OF MATERIAL RF SOUND CABINET 14L HM-WDW
001		5830-1035550			F	SWITCHING SCHEMATIC RF SND SYS CS1-CS6 HM-WDW
001		5830-1035560			F	SWITCHING SCHEMATIC RF SND SYS CS7-CS12 HM-WDW
001		5830-1035530			J	ASSY AUDIO ATTENUATOR PANEL HM-WDW
001		5820-1035560			J	PANEL DETAIL AUDIO ATTENUATOR HM-WDW
001		5820-1035570			J	SILKSCREEN DETAIL AUDIO ATTENUATOR PANEL HM-WDW
001		5820-1035580			D	ASSEMBLY-TAPE START PANEL HM-WDW
001		5830-1035600			D	PANEL-TAPE START HM-WDW
001		5830-1035610			D	SILKSCREEN DETAIL TAPE START PANEL HM-WDW
001		5830-1035620			J	ASSEMBLY-FUSE PANEL RF SOUND SYSTEM HM-WDW
001		5830-1035640			B	FUSE PANEL-RF SOUND SYS HM-WDW
001		5830-1035650			B	SILKSCREEN-FUSE PANEL HM-WDW
001		5830-1035600			J	ASSEMBLY A POWER SUPPLY HM-WDW
001		5830-1035670			B	BILL OF MATERIAL A POWER SUPPLY HM-WDW
001		5830-1035680			J	CHASSIS A POWER SUPPLY HM-WDW
001		5830-1035690			C	PANEL A POWER SUPPLY HM-WDW
001		5830-1035700			B	SILKSCREEN DETAIL-PANEL A POWER DETAIL HM-WDW
001		5830-1035710				