

**VOR
INSTRUMENTATION UNIT**

344A-1



ILLUSTRATED PARTS CATALOG

RADIO SECTION
MARSHALL OF CAMBRIDGE (ENG) LTD.

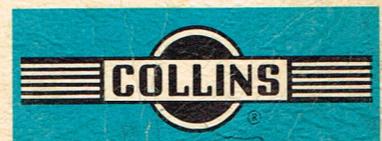
RADIO SECTION
MARSHALL OF CAMBRIDGE (ENG) LTD.

NOT SUBJECT TO AMENDMENT
Do not use for the certification of
equipment servicing.

NOT ~~ON~~ AMMBNDMBNT LIST

1081

COLLINS RADIO COMPANY



GUARANTEE

The equipment described herein is sold under the following guarantee:

Collins agrees to repair or replace, without charge, any equipment, parts, or accessories which are defective as to design, workmanship or material, and which are returned to Collins at its factory, transportation prepaid, provided

- (a) Notice of the claimed defect is given Collins within one (1) year from date of delivery and goods are returned in accordance with Collins' instructions.
- (b) Equipment, accessories, tubes, and batteries not manufactured by Collins or from Collins' designs are subject to only such adjustments as Collins may obtain from the supplier thereof.
- (c) No equipment or accessory shall be deemed to be defective if, due to exposure or excessive moisture in the atmosphere or otherwise after delivery, it shall fail to operate in a normal or proper manner.

Collins further guarantees that any radio transmitter described herein will deliver full radio frequency power output at the antenna lead when connected to a suitable load, but such guarantee shall not be construed as a guarantee of any definite coverage or range of said apparatus.

The guarantee of these paragraphs is void if equipment is altered or repaired by others than Collins or its authorized service center.

No other warranties, expressed or implied, shall be applicable to any equipment sold hereunder. The foregoing shall constitute the Buyer's sole right and remedy under the agreements in this paragraph. In no event shall Collins have any liability for consequential damages, or for loss, damage or expense, direct or indirectly arising from the use of the products, or any inability to use them either separately or in connection with other equipment or materials, or from any other cause.

HOW TO RETURN MATERIAL OR EQUIPMENT. If, for any reason, you should wish to return material or equipment, whether under the guarantee or otherwise, you should notify us, giving full particulars including the details listed below, insofar as applicable. If the item is thought to be defective, such notice must give full information as to nature of defect and identification (including part number if possible) of part considered defective. (With respect to tubes we suggest that your adjustments can be speeded up if you give notice of defect directly to the tube manufacturer.) Upon receipt of such notice, Collins will promptly advise you respecting the return. Failure to secure our advice prior to the forwarding of the goods or failure to provide full particulars may cause unnecessary delay in handling of your returned merchandise.

ADDRESS:

Collins Radio Company
Sales Service Department
Cedar Rapids, Iowa

INFORMATION NEEDED:

- (A) Type number, name, and serial number of equipment
- (B) Date of delivery of equipment
- (C) Date placed in service
- (D) Number of hours of service
- (E) Nature of trouble
- (F) Cause of trouble if known
- (G) Part number (9 or 10 digit number) and name of part thought to be causing trouble
- (H) Item or symbol number of same obtained from parts list or schematic
- (I) Collins' number (and name) of unit sub-assemblies involved in trouble
- (J) Remarks

HOW TO ORDER REPLACEMENT PARTS.

When ordering replacement parts, you should direct your order as indicated below and furnish the following information insofar as applicable. To enable us to give you better replacement service, please be sure to give us complete information.

ADDRESS:

Collins Radio Company
Sales Service Department
Cedar Rapids, Iowa

INFORMATION NEEDED:

- (A) Quantity required
- (B) Collins' part number (9 or 10 digit number) and description
- (C) Item or symbol number obtained from parts list or schematic
- (D) Collins' type number, name, and serial number of principal equipment
- (E) Unit sub-assembly number (where applicable)

VOR INSTRUMENTATION UNIT

344A-1

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CEDAR RAPIDS, IOWA, U.S.A.

1959

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ILLUSTRATED PARTS CATALOG

VOR INSTRUMENTATION UNIT 344A-1

SECTION I
INTRODUCTION
RADIO SECTION
MARSHALL OF CAMBRIDGE (ENG) LTD.

1. GENERAL.

This Illustrated Parts Catalog is a complete list of parts for the VOR Instrumentation Unit 344A-1 (see figure 1), manufactured by Collins Radio Company. For servicing and for overhaul procedures, refer to the appropriate handbook of overhaul and maintenance instructions.

2. ALPHABETICAL TABLE OF CONTENTS.

Section II, Alphabetical Table of Contents consists of a list of all sections of the Illustrated Parts Catalog and the first page number. Page numbers for each illustration may also be found in this section.

3. NUMERICAL PARTS LIST INDEX.

A. General. Section III, Numerical Parts List Index consists of an alpha-numerical list of all part numbers listed in the Group Assembly Parts List. If a part number other than Collins Radio part number has been assigned, both numbers are shown in proper numerical sequence and both make reference to the applicable figure and index number.

B. Part Number Column. In this column are listed part numbers, which are the same as drawing numbers, for procurable parts and assemblies in the Group Assembly Parts List. The order of precedence beginning on the extreme left-hand position in part number numerical arrangement is as follows:

Letters A through Z

Numerals 0 through 9

(Alphabetical O's are considered numerical zeros.)

The order of precedence in continuing the part number arrangement in second and succeeding positions of the part number from left to right is as follows:

Space (blank column)

Diagonal (slant) /

Point (period)

Dash (-)

Letters A through Z

Numerals 0 through 9

(Alphabetical O's are considered as numerical zeros.)

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C. Figure and Index Number Column. In this column the digits preceding the dash refer to the figure in the Parts Catalog on which the parts or assemblies are illustrated. The digits following the dash are the index numbers of procurable parts or assemblies. For any part the figure and index number shown in the Numerical Index is for the first occurrence only of such parts in the Group Assembly Parts List.

D. Quantity Per Article Column. In this column is listed the total quantity of parts or assemblies per equipment.

4. GROUP ASSEMBLY PARTS LIST.

A. General. Section IV, Group Assembly Parts List consists of a breakdown of the complete unit into subassemblies and detailed parts. Each assembly is listed in its order of disassembly and is followed immediately by its component parts properly indented below it to show their relationship to the assembly. Attaching parts are listed immediately following the parts which they attach. Items which are made from raw stock such as cut lengths of wire, solder, varnish, lacing cord and flexible tubing are not included in the Group Assembly Parts List.

B. Figure and Index Number Column. In this column the digits preceding the hyphen refer to the figure in the parts breakdown on which a part or assembly is illustrated. The digits following the hyphen are

ILLUSTRATED PARTS CATALOG

the index numbers of the parts and assemblies. The index numbers are used to assist in locating a part after it has been found in the Numerical Index.

- C. Part Number Column. In this column are listed either MIL part numbers, part numbers of vendors other than Collins Radio or Collins Radio part numbers. When more than one part number is available the preference as to which one to use will be MIL, Vendor and Collins Radio Company. Vendors' part numbers listed in the part number column are subject to change without notice.
- D. Nomenclature Column. In this column is listed each assembly, its attaching parts, and components of the assembly, properly indented to show their relationship to the assembly. If a part is purchased by Collins Radio from a vendor, the Federal Manufacturer's Code number, preceded by the letter V, is listed in this column. The vendor's part number will be listed in the part number column and the Collins Radio part number will be listed in parentheses in the Nomenclature Column. Symbol designations, where applicable, will be listed as the last item in this column.
- E. Usable On Code Column. Part variations within different models of the same equipment are indicated in the Usable On Code Column. In cases where this column has been left blank, the part listed would apply to all models of equipment covered by this publication.
- F. Units Per Assembly Column. This column lists the quantity of subassemblies or parts required in the preceding assembly. The quantities specified, therefore, are not necessarily the total used per equipment. For totals per equipment, refer to Section III, Numerical Parts List Index. The letters "AR" denote that the selection of a part or parts should be made "as required." "REF" refers to an assembly which is completely assembled on a preceding illustration. In this case the description has a notation which refers to the illustration on which the assembly is shown completely assembled and indexed.

VENDOR'S CODE-NAME INDEX

CODE	VENDOR'S NAME AND ADDRESS	CODE	VENDOR'S NAME AND ADDRESS .
16688	De Jur Amsco Corp. Shelton, Connecticut	75618	Lion Fastener Co., Inc. Honeoye Falls, New York
21520	Fansteel Metallurgical Corp. North Chicago, Illinois	75915	Littlefuse Inc. Chicago, Illinois
24446	General Electric Co. Schenectady, New York	76005	Lord Mfg. Co. Erie, Pennsylvania
56289	Sprague Electric Co. North Adams, Massachusetts	77147	Patton MacGuyer Co. Providence, Rhode Island
70703	AEMCO Inc. Mankato, Minnesota	78189	Shakeproof Inc. Chicago, Illinois
71400	Bussman Mfg. Co. Div. of the McGraw Electric University at Jefferson St. Louis, Missouri	79136	Waldes Koh-I-Noor Long Island City, New York
71468	Cannon Electric Development Los Angeles, California	80223	United Transformer Co. Chicago, Illinois
72962	Elastic Stop Nut Corp. of America Union, New Jersey	80294	Bourns Laboratories Riverside, California
73293	Hughes Aircraft Co. Culver City, California	86684	Radio Corp. of America Tube Department Harrison, New Jersey

ILLUSTRATED PARTS CATALOG

VENDOR'S CODE - NAME INDEX (Cont)

CODE	VENDOR'S NAME AND ADDRESS	CODE	VENDOR'S NAME AND ADDRESS
88063	Communication Assessories Co. Hickman Mills, Missouri	97315	Ballastran Corporation Fort Wayne, Indiana
91578	Cannon Electric Co. Los Angeles, California	97966	CBS Hytron Division Danvers, Massachusetts
91637	Dale Products Inc. Columbus, Nebraska	98291	Seaelectro Corp. New Rochell, New York
92825	Whitso Inc. Schiller Park, Illinois	99800	Delavan Electronics Corp. East Aurora, New York
96214	Texas Instruments, Inc. Dallas, Texas		

Collins
ILLUSTRATED PARTS CATALOG

SECTION II

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Shockmount 390D-8 (C398-38-X)	11	35
To-From Module (C398-35-X)	9	30
VOR Instrumentation Unit and Shockmount 390D-8 (C398-23-X)	1	10
VOR Instrumentation Unit 344A-1 (C398-24-X)	2	12
30 CPS Output Module (C398-26-X) (C398-27-X)	4	17
30 CPS Reference Amplifier Module (C398-25-X) (C171-76-2X)	3	14
30 CPS Variable Amplifier Module (C398-31-X) (C398-32-X)	7	24
9960 CPS Amplifier and Discriminator Module (C398-33-X) (C398-34-X)	8	27

SECTION III

NUMERICAL PARTS LIST INDEX

PART NUMBER	FIG. -INDEX NO.	QTY	PART NUMBER	FIG. -INDEX NO.	QTY
AN500C6R-4	5 3	2	P85249	8 5	4
AN936A516	3 20	5	RC20GF102K	7 14	1
AN936A8B	10 28	1	RC20GF104K	3 13	2
AN936B4	10 4	2	RC20GF152J	8 29	1
AN936B4B	5 2	2	RC20GF152K	7 18	1
BC-2034	6 32	1	RC20GF182J	8 31	1
BC1197	5 3	1	RC20GF182K	9 7	1
DA-15P	3 41	5	RC20GF184K	7 33	1
DAF-15S-1	10 18	3	RC20GF221J	8 26	1
DB-25P	4 9	1	RC20GF222J	8 27	1
DBF-25S-1	10 19	2	RC20GF222K	6 19	1
DE-9P	9 7	1	RC20GF224K	3 11	4
DEF-9S	10 20	1	RC20GF331K	3 5	4
DM-0171	6 23	1	RC20GF332K	3 17	1
DPA-24C1HV1-33S-1	11 5	1	RC20GF334K	7 34	1
DPA-32-34P-1	10 25	1	RC20GF392J	8 12	1
DT4-18	6 1	3	RC20GF392K	6 17	1
GO-2-92	2 1	1	RC20GF464K	7 15	1
HR10211	6 12	4	RC20GF470K	6 16	1
J-6677-3	11 15	2	RC20GF471K	9 7	2
J-6677-4	11 16	3	RC20GF472J	8 30	1
NOAS-51-31	6 26	1	RC20GF561J	8 14	1
MS35200-1	6 30	2	RC20GF562J	8 15	4
MS35200-11	3 3	10	RC20GF563K	5 9	6
MS35200-12	3 27	12	RC20GF681K	6 18	1
MS35200-13	3 42	24	RC20GF682K	3 12	2
MS35200-16	5 7	8	RC20GF683J	3 8	2
MS35200-17	4 1	4	RC20GF683K	6 21	1
MS35200-24	11 9	1	RC20GF684J	3 7	2
MS35200-25	10 16	6	RC20GF684K	3 6	3
MS35200-3	3 41	17	RC20GF822J	8 13	4
MS35200-6	6 3	2	RC32GF102K	5 10	2
MS35200-9	9 7	2	RC32GF221K	5 8	1
MS35216-11	3 24	2	RC32GF271K	6 29	1
MS35216-12	2 2	51	RC32GF362J	6 13	1
MS35216-13	3 27	9	RC42GF103K	8 16	1
MS35216-14	3 24	2	RN65B1473F	3 28	1
MS35216-16	7 27	2	RN65B1963F	3 9	2
MS35216-2	2 3	4	RN65B2613F	7 29	1
MS35216-23	10 15	2	RN65B2742F	7 13	1
MS35216-24	6 32	2	RN65B3163F	8 9	2
MS35216-25	11 16	10	RN65B3321F	3 16	1
MS35216-26	10 16	4	RN65B3833F	3 15	1
MS35216-6	4 7	2	RN65B6811F	3 10	2
MS35216-7	3 26	4	RN65B6812F	3 14	1
PP4B60A2	8 18	1	SKT-2-BC	6 35	2
P85200	8 8	2	ST-SM-1	6 36	4
P85208	8 6	1	ST-1050-34	3 24	1
P85216	3 22	2	Type CK61Y102Z	3 19	2
P85247	8 24	1	Type RH-25	10 24	1



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PART NUMBER	FIG. -INDEX NO.	QTY	PART NUMBER	FIG. -INDEX NO.	QTY
Type RS-2B	10 7	2	310 0282 00	6 32	4
Type 115	10 12	1	310 0452 00	6 2	3
Type 118P	9 5	2	310 6360 00	11 9	4
Type 2N398	6 26	1	313 0156 00	5 2	2
Type 230-1-201	9 7	2	313 0188 00	6 2	3
V-6632	10 2	1	330 2285 00	10 25	4
012 1395 00	2 1	1	330 2288 00	10 20	12
012 1507 00	2 1	1	330 2290 00	8 1	38
1N456	4 3	12	330 2294 00	10 4	2
1N457	8 11	2	333 0347 00	4 10	17
1N462	4 4	12	333 0368 00	10 16	20
1N540	5 11	1	333 0604 00	3 26	56
1007	6 4	1	333 0605 00	3 27	57
103A-4	7 24	3	334 0043 00	11 12	1
1218-02	9 6	4	334 0254 00	3 20	7
150D406X0010B2	7 17	1	338 2020 00	11 11	1
150D606X0006B2	8 10	1	340 0005 00	6 26	1
183 0432 00	6 31	2	340 0042 00	8 2	3
183 0531 00	5 1	2	340 0089 00	11 4	1
184 7000 00	8 18	1	340 0252 00	4	12
184 7037 00	6 24	1	340 0255 00	6 6	2
184 7226 00	10 22	1	342 0043 00	3 3	10
184 7370 00	8 10	1	342 0044 00	3 27	10
184 7380 00	7 17	1	342 0045 00	3 42	24
2-0-200	2 1	1	342 0048 00	5 7	8
200 0992 00	11 15	2	342 0049 00	4 1	4
200 0993 00	11 16	3	342 0061 00	11 9	1
220 1166 00	10 13	1	342 0062 00	10 16	6
220 1244 00	3 24	6	342 0131 00	6 30	2
230-1-102	6 3	1	342 0133 00	3 41	17
230-1-103	3 26	1	342 0136 00	6 3	2
230-1-202	10 10	1	342 0138 00	9 7	2
230-1-501	10 9	1	343 0123 00	2 3	4
230-1-502	4 7	2	343 0127 00	4 7	8
236L-1-303	7 26	1	343 0128 00	3 26	4
240 0171 00	6 23	1	343 0132 00	3 24	2
253 0002 00	3 2	6	343 0133 00	2 2	51
264 3080 00	6 4	1	343 0134 00	3 27	9
265 1068 00	6 28	2	343 0135 00	3 24	2
280 1058 00	2 3	1	343 0137 00	7 27	2
280 2628 00	11 2	1	343 0167 00	10 15	2
29F473	6 24	1	343 0168 00	6 32	2
29F510G4	10 22	1	343 0169 00	11 16	10
3S791G200F9	7 27	1	343 0170 00	10 16	4
302 0410 00	6 2	6	346 6016 00	11 8	2
304 0331 00	5 13	1	347 0033 00	5 3	2
304 0332 00	3 24	8	352 0009 00	8 2	3
305 1374 00	11 10	2	352 0044 00	6 1	3
306 0091 00	3 24	1	352 0063 00	6 26	1
306 0234 00	7 24	3	353 0197 00	4 3	12
306 0324 00	6 36	4	353 0199 00	4 4	12
306 0348 00	6 30	2	353 0204 00	8 11	2
310 0045 00	2 4	15	353 1546 00	5 11	1
310 0072 00	3 4	14	353 2555 00	6 25	1
310 0078 00	5 3	2	353 2580 00	6 12	4
310 0279 00	2 2	29	360 0087 00	6 35	2

PART NUMBER	FIG. -INDEX NO.	QTY	PART NUMBER	FIG. -INDEX NO.	QTY
370 2071 00	10 25	1	542 3796 005	11 14	1
370 2089 00	11 5	1	542 3823 004	8 19	1
371 0020 00	3 41	5	542 3824 004	8 4	1
371 0031 00	4 9	1	542 3830 003	5 12	1
371 0041 00	10 18	3	542 3831 003	5 7	1
371 0042 00	10 19	2	542 3832 004	2 7	1
371 0047 00	9 7	1	542 3833 005	2 6	1
371 0048 00	10 20	1	542 3834 005	2 8	1
373 0080 00	9 6	4	542 3835 005	2 5	1
373 0084 00	3 20	5	542 3837 004	4 6	1
373 3030 00	10 28	1	542 3838 004	4 2	1
373 7010 00	5 2	2	542 4736 002	10 14	1
373 8010 00	10 4	2	542 4787 004	7 42	1
380 2219 00	3 29	2	542 4788 004	7 28	1
381 1109 00	9 7	2	542 4790 003	7 19	1
381 1110 00	10 9	1	542 4793 005	3 40	1
381 1111 00	6 3	1	542 4794 005	3 27	1
381 1112 00	10 10	1	542 4796 002	3 18	1
381 1113 00	4 7	2	542 4811 00	6 27	1
381 1114 00	3 26	1	542 4812 004	6 11	1
381 1116 00	7 26	1	542 4813 005	2 7	1
4JD1E-17	8 2	3	542 4838 004	8 35	1
4040-2	5 13	1	542 4839 004	8 21	1
4051	6 28	2	542 4840 005	2 9	1
502 1515 002	7 25	14	542 6158 002	4 8	6
503 4970 001	10 15	1	542 6159 002	3 4	4
505 2784 002	11 1	2	542 6160 002	5 4	2
5100-34-C	8 2	3	542 6161 002	6 2	3
5133-14-C	6 6	2	542 6162 002	5 5	1
5133-15-C	3 4	12	542 6169 003	5 14	1
522 0798 005	1 2	1	542 6171 003	5 6	1
522 0973 005	1 1	1	542 6175 002	6 5	2
540 3023 003	10 16	4	542 6179 003	6 10	1
540 9041 003	3 25	4	542 6182 004	6 34	1
541 3616 002	11 4	1	542 6187 002	8 36	1
541 3617 002	11 4	1	542 6194 003	8 39	1
541 3619 002	11 3	2	542 6196 004	8 38	1
541 3620 002	11 13	1	542 6212 003	7 45	1
541 5979 002	5 7	8	542 6215 004	7 44	1
541 6024 002	4 1	4	542 6216 004	3 42	1
541 6445 002	11 10	1	542 6218 004	7 3	1
541 6447 004	11 17	1	542 6220 004	3 3	1
541 6502 002	11 12	1	542 6227 002	3 25	2
541 6503 002	11 12	1	542 6229 003	3 43	1
541 6506 002	11 11	1	542 6239 003	10 8	1
541 6507 002	11 11	1	542 6240 003	10 4	1
541 6508 002	11 12	1	542 6248 002	4 1	2
541 6509 002	11 12	1	542 6252 003	4 11	1
541 6510 002	11 10	1	542 6255 004	4 10	1
541 6533 003	3 23	6	542 6490 002	10 28	1
541 6553 003	3 1	6	542 7353 005	2 10	1
541 9733 002	5 2	2	543 2223 002	10 1	1
541 9762 002	10 20	12	543 2224 002	10 2	1
542 1590 003	3 4	14	543 2226 002	10 21	1
542 2857 002	6 33	1	543 2227 002	10 27	7
542 3793 003	11 6	1	543 2228 003	2 4	1

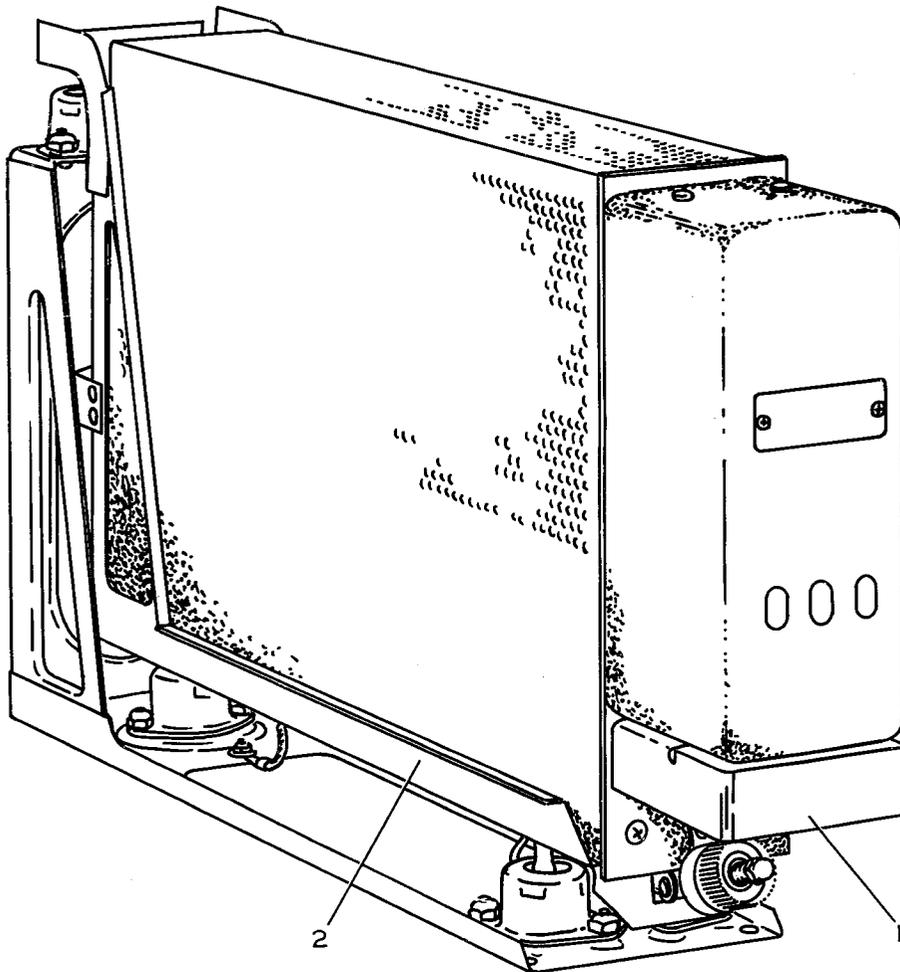


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PART NUMBER	FIG. -INDEX NO.	QTY	PART NUMBER	FIG. -INDEX NO.	QTY
543 2230 003	10 3	1	745 1387 00	3 12	2
543 2231 003	10 16	1	745 1390 00	8 13	4
543 2233 003	10 26	1	745 1426 00	5 9	6
543 2234 003	10 17	1	745 1428 00	3 8	2
543 2235 003	10 29	1	745 1429 00	6 21	1
543 2237 004	2 2	1	745 1436 00	3 13	2
543 2240 004	2 1	1	745 1447 00	7 33	1
543 2241 004	2 1	1	745 1450 00	3 11	4
543 2245 005	2 11	1	745 1457 00	7 34	1
543 2251 003	9 7	1	745 1464 00	7 15	1
543 2253 004	9 7	1	745 1470 00	3 7	2
543 2255 004	9 4	1	745 1471 00	3 6	3
5670	3 2	6	745 3324 00	5 8	1
651C5	6 25	1	745 3325 00	6 13	1
672 0950 00	5 3	1	745 3328 00	6 29	1
673 0383 00	10 2	1	745 3352 00	5 10	2
673 0468 00	8 1	1	745 5694 00	8 16	1
674 5013 00	6 32	1	747 9525 00	10 24	1
677 6009 00	4 1	2	747 9968 00	10 7	2
678 1071 00	8 32	1	747 9969 00	4 5	2
68NM-40	4 10	17	748 9135 00	3 32	2
68NM-62	10 16	20	748 9136 00	3 39	1
68-1660-26	3 26	56	748 9137 00	7 41	1
68-1660-40	3 27	57	748 9285 00	3 35	4
705 7121 00	3 16	1	748 9286 00	7 40	1
705 7136 00	3 10	2	748 9287 00	3 37	3
705 7165 00	7 13	1	912 2109 00	3 38	1
705 7184 00	3 14	1	912 2112 00	3 34	4
705 7200 00	3 28	1	912 2114 00	3 33	AR
705 7206 00	3 9	2	912 2115 00	3 33	AR
705 7212 00	7 29	1	912 2116 00	3 33	AR
705 7216 00	8 9	2	912 2117 00	3 33	AR
705 7220 00	3 15	1	912 2118 00	3 33	AR
714 1724 00	6 22	1	912 2120 00	3 36	8
745 1296 00	6 16	1	912 2169 00	8 34	1
745 1323 00	8 26	1	913 1186 00	3 19	2
745 1331 00	3 5	4	91456	8 32	1
745 1338 00	9 7	2	931 2060 00	3 30	1
745 1341 00	8 14	1	931 2061 00	3 31	2
745 1345 00	6 18	1	931 4481 00	8 8	2
745 1352 00	7 14	1	931 4482 00	8 24	1
745 1358 00	8 29	1	931 4486 00	8 5	4
745 1359 00	7 18	1	931 4508 00	3 22	2
745 1362 00	8 31	1	931 4524 00	8 6	1
745 1363 00	9 7	1	931 5943 00	8 17	2
745 1365 00	8 27	1	931 8358 00	3 20	4
745 1366 00	6 19	1	951 0027 00	3 21	1
745 1373 00	3 17	1	951 0176 00	9 5	1
745 1376 00	8 12	1	951 0177 00	9 6	1
745 1377 00	6 17	1	972 1450 00	10 12	1
745 1379 00	8 30	1	974 0587 00	7 27	1
745 1383 00	8 15	4			

SECTION IV

GROUP ASSEMBLY PARTS LIST

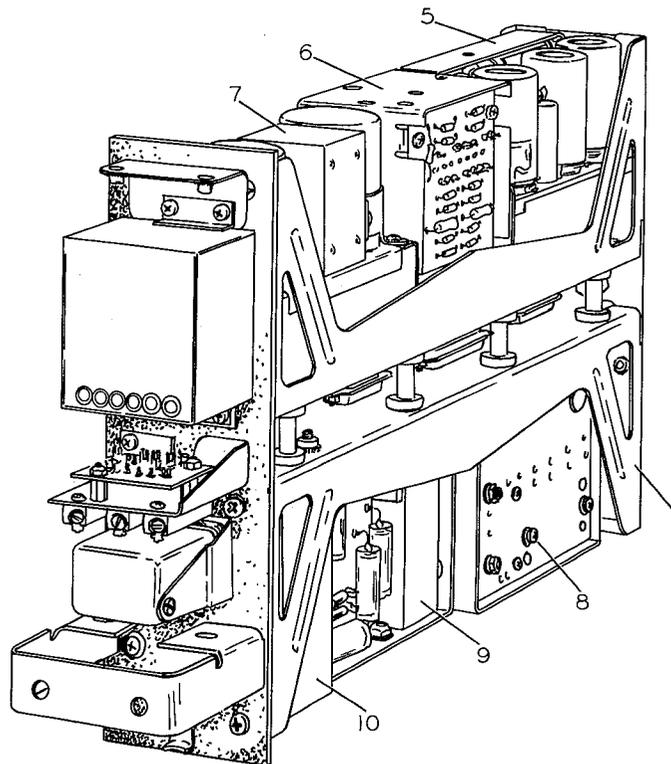
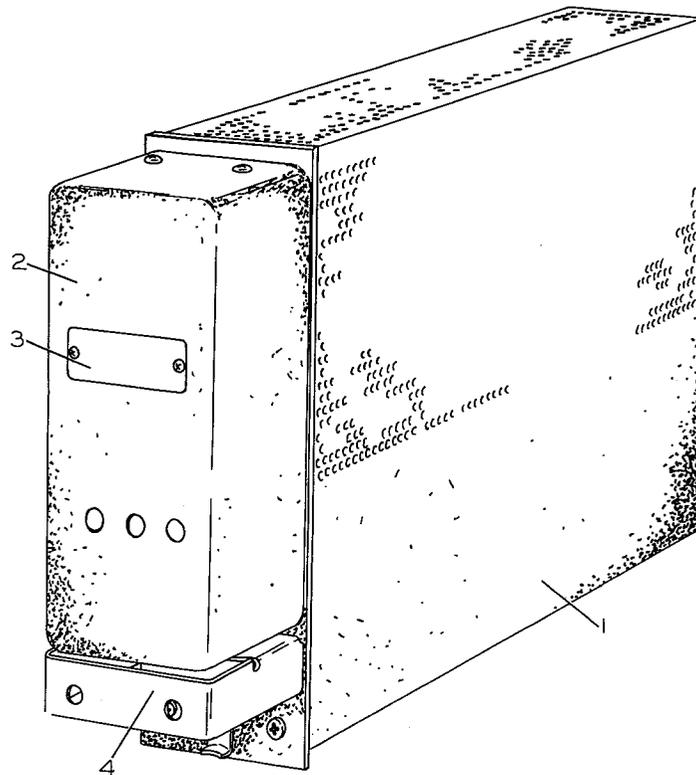


VOR Instrumentation Unit and Shockmount 390D-8
Figure 1



ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
1-	NO NUMBER	VOR INSTRUMENTATION 344A-1 and SHOCKMOUNT								1
-1	522 0973 005	390D-8								1
-2	522 0798 005	. VOR INSTRUMENTATION 344A-1 (See figure 2).								1
		. SHOCKMOUNT 390D-8 (See figure 11)								1



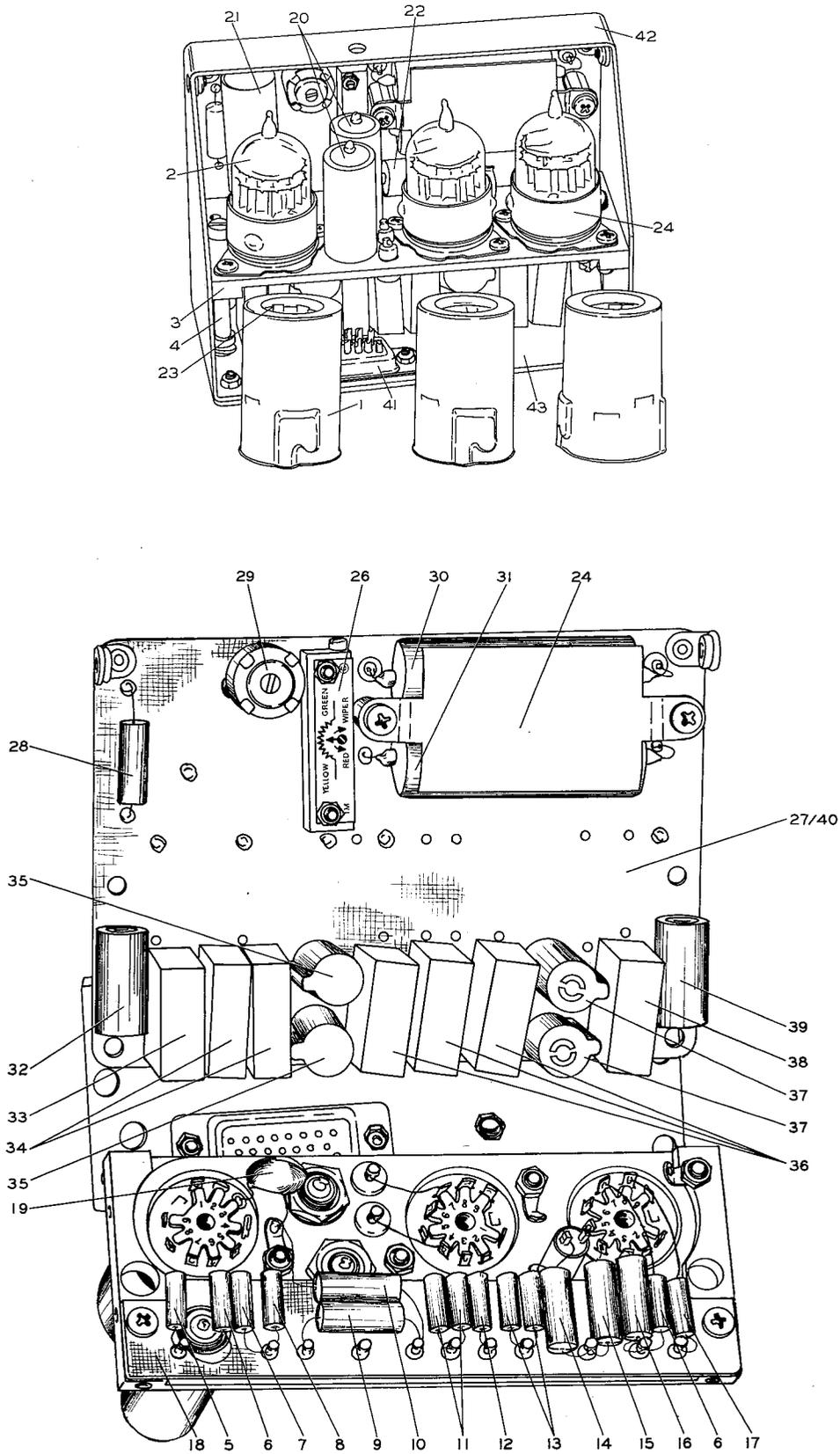
VOR Instrumentation Unit 344A-1
Figure 2



ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
2-	522 0973 005	VOR INSTRUMENTATION 344A-1 (See figure 1-1 for . . . next higher ASSY)								REF
-1	543 2241 004	. COVER, Dust								1
	543 2240 004	. . COVER, Dust								1
	2-0-200	. . STUD, Fastener V75618 (012 1507 00)								1
	GO-2-92	. . GROMMET, Fastener V75618 (012 1395 00)								1
-2	543 2237 004	. COVER, Front Panel A2 (ATTACHING PARTS)								1
	MS35216-12	. SCREW, Machine (343 0133 00)								2
	310 0279 00	. WASHER, Lock								2
		-----*-----								
-3	280 1058 00	. NAMEPLATE (ATTACHING PARTS)								1
	MS35216-2	. SCREW, Machine (343 0123 00)								2
		-----*-----								
-4	543 2228 003	. HANDLE A1 (ATTACHING PARTS)								1
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	310 0279 00	. WASHER, Lock								4
	310 0045 00	. WASHER, Flat								4
		-----*-----								
-5	542 3835 005	. 30 CPS REF AMPLIFIER (See figure 3)								1
-6	542 3833 005	. 30 CPS OUTPUT (See figure 4)								1
-7	542 3832 004	. POWER SUPPLY, AC (See figure 5)								1
	OR									
-7	542 4813 005	. POWER SUPPLY, DC (See figure 6)								1
-8	542 3834 005	. 30 CPS VAR AMPLIFIER (See figure 7)								1
-9	542 4840 005	. 9960 CPS AMPLIFIER and DISCRIMINATOR (See figure 8)								1
-10	542 7353 005	. TO-FROM MODULE (See figure 9)								1
-11	543 2245 005	. CHASSIS ASSEMBLY, MECHANICAL (See figure 10)								1

NOT SUBJECT TO AMENDMENT
 Do not use for the certification of
 equipment servicing.



REF.
30 CPS Variable Amplifier Module
Figure 3



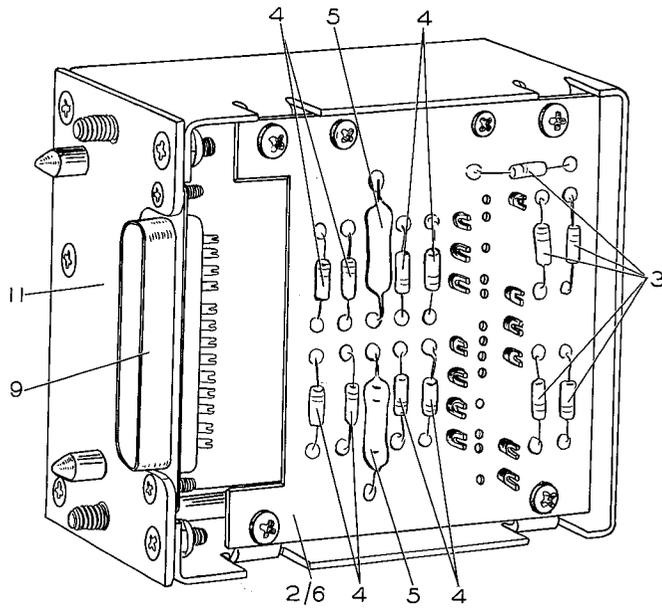
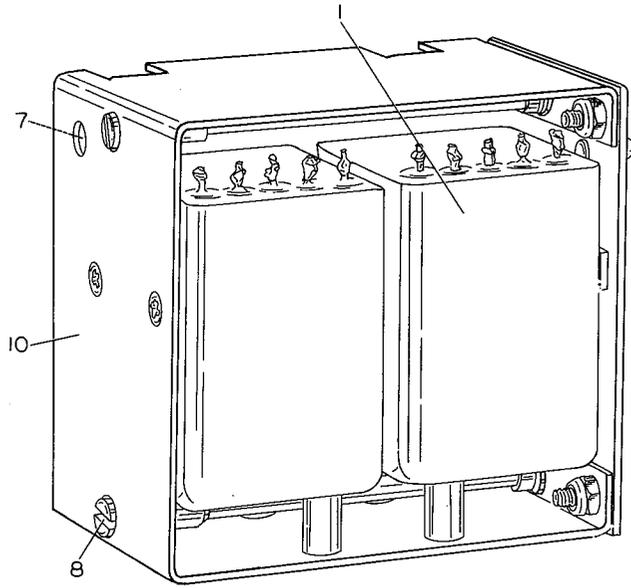
ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
3-	542 3835 005	30 CPS REF AMPLIFIER (See figure 2-5 for next higher ASSY)								REF
-1	541 6553 003	. SHIELD, Tube E1, E2, E3								3
-2	5670	. TUBE, Electron V24446 (253 0002 00) V1, V2, V3 . . .								3
-3	542 6220 004	. SHELF, Tube								1
		(ATTACHING PARTS)								
	MS35200-11	. SCREW, Machine (342 0043 00)								4
		-----*-----								
-4	542 6159 002	. SCREW, Captive H8								2
		(ATTACHING PARTS)								
	5133-15-C	. RING, Retaining V79136 (340 0252 00) H3								2
	310 0072 00	. WASHER, Lock								2
	542 1590 003	. WASHER, FLAT H7								2
		-----*-----								
-5	RC20GF331K	. RESISTOR, 330 ohms (745 1331 00) R20								1
-6	RC20GF684K	. RESISTOR, 680,000 ohms (745 1471 00) R19, R24 . . .								2
-7	RC20GF684J	. RESISTOR, 680,000 ohms (745 1470 00) R17								1
-8	RC20GF683J	. RESISTOR, 68,000 ohms (745 1428 00) R18								1
-9	RN65B1963F	. RESISTOR, 196,000 ohms (705 7206 00) R16								1
-10	RN65B6811F	. RESISTOR, 6810 ohms (705 7136 00) R12								1
-11	RC20GF224K	. RESISTOR, 220,000 ohms (745 1450 00) R14, R15 . . .								2
-12	RC20GF682K	. RESISTOR, 6800 ohms (745 1387 00) R13								1
-13	RC20GF104K	. RESISTOR, 100,000 ohms (745 1436 00) R23, R25 . . .								2
-14	RN65B6812F	. RESISTOR, 68,100 ohms (705 7184 00) R5								1
-15	RN65B3833F	. RESISTOR, 383,000 ohms (705 7220 00) R22								1
-16	RN65B3321F	. RESISTOR, 3320 ohms (705 7121 00) R21								1
-17	RC20GF332K	. RESISTOR, 3300 ohms (745 1373 00) R6								1
-18	542 4796 002	. TERMINAL Board, No. 2 TB2								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								2
		-----*-----								
-19	Type	. CAPACITOR, 1000 uuf (913 1186 00) C10								1
	CK61Y102Z									
-20	931 8358 00	. CAPACITOR, 150,000 uuf C8, C9								2
		(ATTACHING PARTS)								
	334 0254 00	. NUT, Plain, Hex								2
	AN936A516	. WASHER, Lock (373 0084 00)								2
		-----*-----								
-21	951 0027 00	. CAPACITOR, 1.5 uf C14								1
		(ATTACHING PARTS)								
	334 0254 00	. NUT, Plain, Hex								1
	AN936A516	. WASHER, Lock (373 0084 00)								1
		-----*-----								
-22	P85216	. CAPACITOR, 100,000 uuf V56289 (931 4508 00) C12 . .								1
-23	541 6533 003	. LINER, Tube H6								3
-24	220 1244 00	. SOCKET, Tube XV1, XV2, XV3								3
		(ATTACHING PARTS)								
	MS35216-11	. SCREW, Machine (343 0132 00)								1
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	MS35216-14	. SCREW, Machine (343 0135 00)								1
	68-1600-40	. NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .								4
	304 0332 00	. TERMINAL, Lug E8, E9, E10								3
	ST-1050-34	. TERMINAL, Stud V16688 (306 0091 00) E11								1
	310 0279 00	. WASHER, Lock								1
		-----*-----								

ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
3-25	542 6227 002	.	CLAMP, Capacitor H9							1
			(ATTACHING PARTS)							
	MS35216-12	.	SCREW, Machine (343 0133 00)							4
	310 0279 00	.	WASHER, Lock							4
	502 1515 002	.	WASHER, Flat							2
	540 9041 003	.	SPACER H4							2
			-----*-----							
-26	230-1-103	.	RESISTOR, Variable 10,000 ohms V80294							1
			(381 1114 00) R3							
			(ATTACHING PARTS)							
	MS35216-7	.	SCREW, Machine (343 0128 00)							2
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .							2
			-----*-----							
-27	542 4794 005	.	BOARD, NO. 1							1
			(ATTACHING PARTS)							
	MS35216-12	.	SCREW, Machine (343 0133 00)							3
	MS35216-13	.	SCREW, Machine (343 0134 00)							1
	MS35200-12	.	SCREW, Machine (342 0044 00)							2
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .							2
	502 1515 002	.	WASHER, Flat							3
	310 0279 00	.	WASHER, Lock							3
			-----*-----							
-28	RN65B1473F	.	RESISTOR, 147,000 ohms (705 7200 00) R11							1
-29	380 2219 00	.	RESISTOR, 500,000 ohms R10							1
-30	931 2060 00	.	CAPACITOR, 270,000 uuf C11							1
-31	931 2061 00	.	CAPACITOR, 330,000 uuf C4							1
-32	748 9135 00	.	RESISTOR, 44,200 ohms R9							1
-33	912 2114 00	.	CAPACITOR, 24,000 uuf C13							AR
	912 2115 00	.	CAPACITOR, 27,000 uuf C13							AR
	912 2116 00	.	CAPACITOR, 30,000 uuf C13							AR
	912 2117 00	.	CAPACITOR, 33,000 uuf C13							AR
	912 2118 00	.	CAPACITOR, 36,000 uuf C13							AR
-34	912 2112 00	.	CAPACITOR, 20,000 uuf C5, C6							2
-35	748 9285 00	.	RESISTOR, 88,400 ohms R7, R8							2
-36	912 2120 00	.	CAPACITOR, 40,000 uuf C2, C3, C7							3
-37	748 9287 00	.	RESISTOR, 132,600 ohms R2, R4							2
-38	912 2109 00	.	CAPACITOR, 40,000 uuf C1							1
-39	748 9136 00	.	RESISTOR, 127,000 ohms R1							1
-40	542 4793 005	.	BOARD, NO. 1 TB1							1
-41	DA-15P	.	CONNECTOR, Receptacle, 15 male CONT V91578 . . .							1
			(371 0020 00) P1							1
			(ATTACHING PARTS)							
	MS35200-3	.	SCREW, Machine (342 0133 00)							2
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .							2
			-----*-----							
-42	542 6216 004	.	WRAPAROUND A1							1
			(ATTACHING PARTS)							
	MS35200-13	.	SCREW, Machine (342 0045 00)							4
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .							4
			-----*-----							
-43	542 6229 003	.	PLATE, Base							1

Collins
ILLUSTRATED PARTS CATALOG



30 CPS Output Module
Figure 4

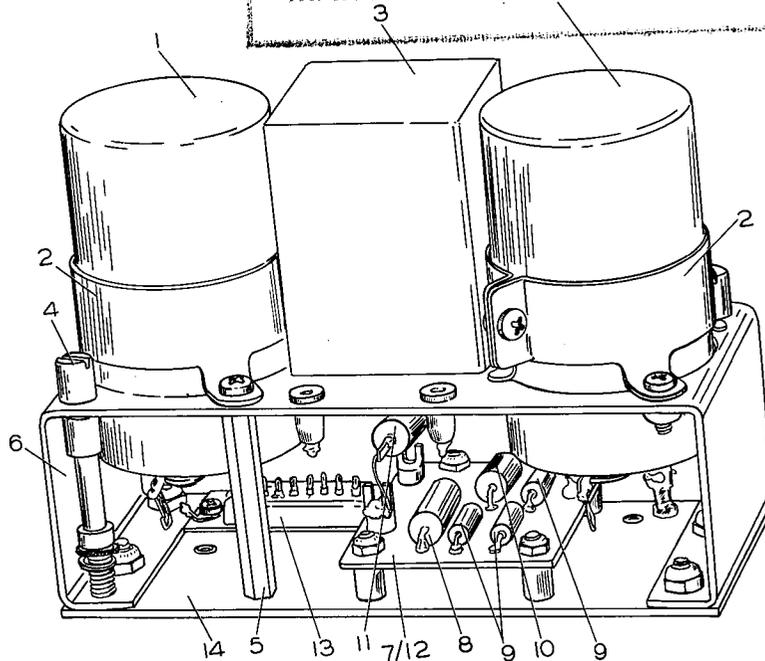
ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
4- -1	542 3833 005	30 CPS OUTPUT (See figure 2-6 for next higher ASSY) . . .								REF
	677 6009 00	. TRANSFORMER T1, T2								2
	MS35200-12	. (ATTACHING PARTS)								
	MS35200-17	. SCREW, Machine (342 0044 00)								4
	541 6024 002	. SCREW, Machine (342 0049 00)								4
	542 6248 002	. SLEEVE, Spacing H6								4
		. SPACER, Transformer H4								2
		-----*-----								
-2	542 3838 004	. BOARD, Terminal								1
		. (ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								4
		-----*-----								
-3	1N456	. . DIODE, Silicon V73293 (353 0197 00)								5
		CR9 thru CR13								
-4	1N462	. . DIODE, Silicon V73293 (353 0199 00)								8
		CR1 thru CR8								
-5	747 9969 00	. . RESISTOR, 5000 ohms R1, R2								2
-6	542 3837 004	. . TERMINAL, BOARD TB1								1
-7	230-1-502	. RESISTOR, Variable 5000 ohms V80294								1
		. (381 1113 00) R4								
		. (ATTACHING PARTS)								
	MS35216-6	. SCREW, Machine (343 0127 00)								2
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .								2
		-----*-----								
-8	542 6158 002	. SCREW, Captive H5								2
		. (ATTACHING PARTS)								
	5133-15-C	. RING, Retaining V79136 (340 0252 00) H7								2
	542 1590 003	. WASHER, Flat H3								2
	310 0072 00	. WASHER, Lock								2
		-----*-----								
-9	DB-25P	. CONNECTOR, Receptacle, 25 male CONT V91578 . . .								1
		. (371 0031 00) P1								
		. (ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (342 0133 00)								2
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .								2
		-----*-----								
-10	542 6255 004	. WRAPAROUND A1								1
		. (ATTACHING PARTS)								
	MS35200-13	. SCREW, Machine (342 0045 00)								4
	68NM-40	. NUT, Self-locking, Hex V72962 (333 0347 00) H1 . . .								4
		-----*-----								
-11	542 6252 003	. PLATE, Base								1



ILLUSTRATED PARTS CATALOG

MARSHALL OF CALIFORNIA (ENC) 11-11



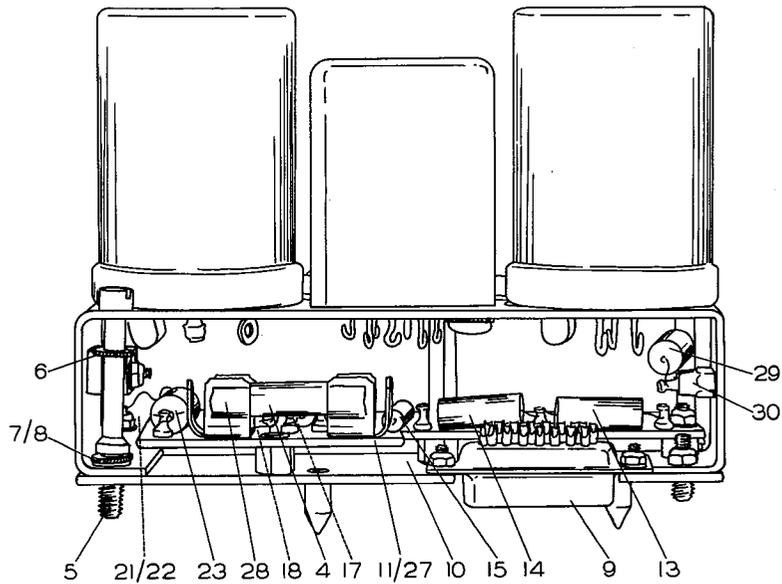
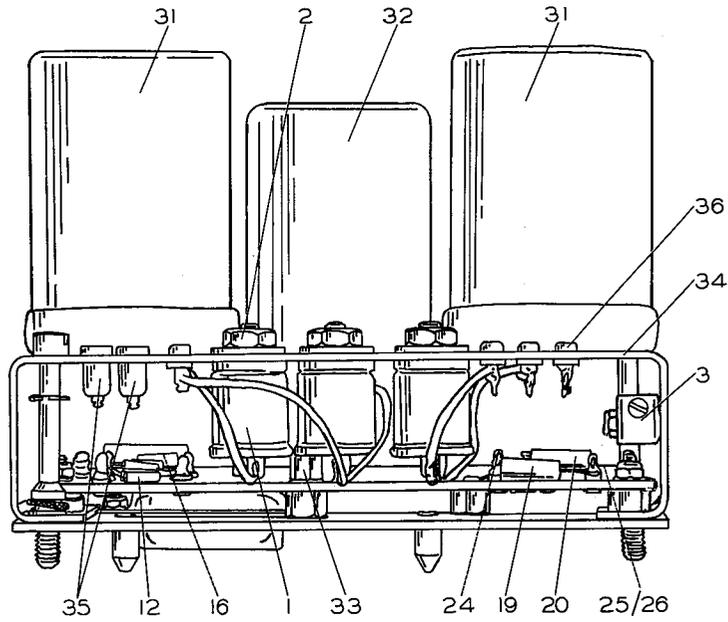
AC Power Supply Module
Figure 5

NOT SUBJECT TO AMENDMENT
Do not use for the certification of equipment servicing.

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
5-	542 3832 004	AC POWER SUPPLY (See figure 2-7 for next higher ASSY) .								REF
-1	183 0531 00	. CAPACITOR 24 uf C1, C2								2
		(ATTACHING PARTS)								
-2	541 9733 002	. CLAMP H7								2
	MS35216-13	. SCREW, Machine (343 0134 00)								4
	MS35216-12	. SCREW, Machine (343 0133 00)								2
	68NM-40	. NUT, Self-locking, Hex V72962 (333 0347 00) H6								2
	AN936B4B	. WASHER, Lock (373 7010 00)								2
	313 0156 00	. NUT, Plain, Hex								2
	304 0332 00	. LUG, Solder E1								1
		-----*								
-3	BC1197	. TRANSFORMER V97315 (672 0950 00) T1								1
		(ATTACHING PARTS)								
	AN500C6R-4	. SCREW, Machine (347 0033 00)								2
	310 0078 00	. WASHER, Lock								2
		-----*								
-4	542 6160 002	. SCREW, Captive H1								2
		(ATTACHING PARTS)								
	5133-15-C	. RING, Retaining V79136 (340 0252 00) H3								2
	542 1590 003	. WASHER, Flat H2								2
	310 0072 00	. WASHER, Lock								2
		-----*								

ILLUSTRATED PARTS CATALOG

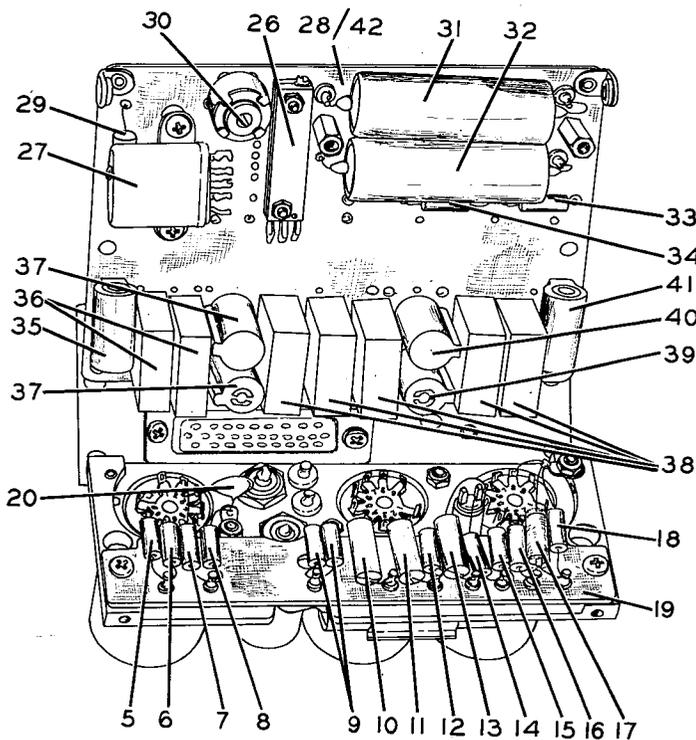
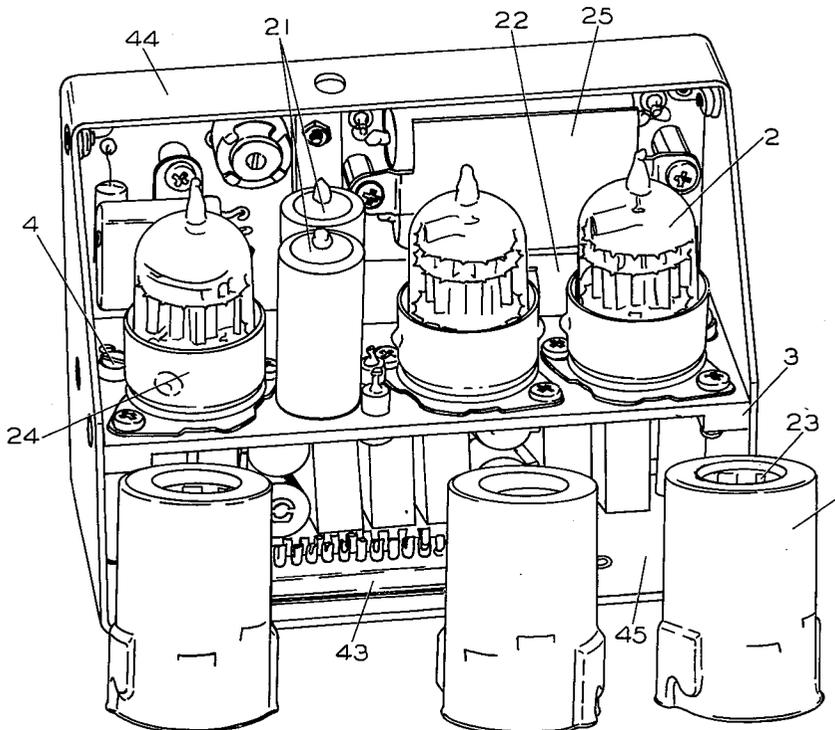
FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
5-5	542 6162 002	.	POST, Hex H9							1
			(ATTACHING PARTS)							
	MS35200-13	.	SCREW, Machine (342 0045 00)							1
			-----*							
-6	542 6171 003	.	BRACKET, Pressed A2							1
			(ATTACHING PARTS)							
	MS35200-13	.	SCREW, Machine (342 0045 00)							4
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H5 . . .							4
	304 0332 00	.	LUG, Solder E2							1
			-----*							
-7	542 3831 003	.	TERMINAL Board, Soldered							1
			(ATTACHING PARTS)							
	MS35200-16	.	SCREW, Machine (342 0048 00)							4
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H4 . . .							4
	541 5979 002	.	SPACER H8							4
			-----*							
-8	RC32GF221K	.	RESISTOR, 220 ohms (745 3324 00) R1							1
-9	RC20GF563K	.	RESISTOR, 56,000 ohms (745 1426 00) R3, R4, R5 .							3
-10	RC32GF102K	.	RESISTOR, 1000 ohms (745 3352 00) R2							1
-11	1N540	.	DIODE, Silicon V24446 (353 1546 00) R1							1
-12	542 3830 003	.	TERMINAL Board, Rolled TB1							1
-13	DA-15P	.	CONNECTOR, Receptacle, 15 male CONT V91578 . . .							1
			(371 0020 00) P1							
			(ATTACHING PARTS)							
	MS35200-3	.	SCREW, Machine (342 0133 00)							2
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H5 . . .							2
	4040-2	.	LUG, Solder V77147 (304 0331 00) E3							1
			-----*							
-14	542 6169 003	.	PLATE, Base							1



DC Power Supply Module
Figure 6

ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE	USAGE CODE	UNITS PER ASSY.		
					1	2	3	4	5	6	7
6-	542 4813 005	DC POWER SUPPLY (See figure 2-7 for next higher ASSY) .		REF		
-1	DT4-18	. TRANSISTOR V97966 (352 0044 00) Q1, Q2, Q4.		3		
		(ATTACHING PARTS)				
-2	313 0188 00	. NUT, Hex		3		
	310 0452 00	. WASHER, Flat		3		
	302 0410 00	. WASHER, Mica		6		
	542 6161 002	. FERRULE		3		
		-----*				
-3	230-1-102	. RESISTOR, Variable 1000 ohms V80294		1		
		(381 1111 00)				
		(ATTACHING PARTS)				
	MS35200-6	. SCREW, Machine (342 0136 00)		2		
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00)		2		
		-----*				
-4	1007	. FUSE, Cartridge 1/2 amp V75915 (264 3080 00) F1 .		1		
-5	542 6175 002	. SCREW, Captive		2		
		(ATTACHING PARTS)				
-6	5133-14-C	. RING, Retaining V79136 (340 0255 00)		2		
-7	310 0072 00	. WASHER, Lock		2		
-8	542 1590 003	. WASHER, Flat		2		
		-----*				
-9	DA-15P	. CONNECTOR, Receptacle, 15 male CONT V91578		1		
		(371 0020 00) P1				
		(ATTACHING PARTS)				
	MS35200-3	. SCREW, Machine (342 0133 00)		2		
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00)		2		
		-----*				
-10	542 6179 003	. PLATE, Base		1		
		(ATTACHING PARTS)				
	MS35200-13	. SCREW, Machine (342 0045 00)		2		
	MS35200-16	. SCREW, Machine (342 0048 00)		4		
	68-1660-40	. NUT, Self-locking, Hex V72962 (333 0605 00)		4		
		-----*				
-11	542 4812 004	. BOARD, Terminal, Soldered		1		
-12	HR10211	. . DIODE, Silicon V73293 (353 2580 00)		4		
		CR1 thru CR4				
-13	RC32GF362J	. . RESISTOR, 220 ohms (745 3325 00) R1		1		
-14	RC32GF102K	. . RESISTOR, 1000 ohms (745 3352 00) R2		1		
-15	RC20GF563K	. . RESISTOR, 56,000 ohms (745 1426 00) R3, R4, R5 .		3		
-16	RC20GF470K	. . RESISTOR, 47 ohms (745 1296 00) R6		1		
-17	RC20GF392K	. . RESISTOR, 3900 ohms (745 1377 00) R7		1		
-18	RC20GF681K	. . RESISTOR, 680 ohms (745 1345 00) R8		1		
-19	RC20GF222K	. . RESISTOR, 2200 ohms (745 1366 00) R9		1		
-20	RC20GF331K	. . RESISTOR, 330 ohms (745 1331 00) R10		1		
-21	RC20GF683K	. . RESISTOR, 68,000 ohms (745 1429 00) R11		1		
-22	714 1724 00	. . RESISTOR 1000 ohms R12		1		
-23	DM-0171	. . COIL, Radio Frequency V99800 (240 0171 00) L1 .		1		
-24	29F473	. . CAPACITOR, 4.5 uf V24446 (184 7037 00) C3		1		
-25	651C5	. . DIODE, Silicon V96214 (353 2555 00) CR5		1		
-26	Type 2N398	. . TRANSISTOR, V86684 (352 0063 00) Q3		1		
		(ATTACHING PARTS)				
	NOAS-51-31	. . RING, Retaining V79136 (340 0005 00)		1		
		-----*				
-27	542 4811 00	. . BOARD, Terminal, Rolled TB1		1		
-28	4051	. . . CLIP, Electrical V71400 (265 1068 00) E1, E2 .		2		



30 CPS Variable Amplifier Module
Figure 7

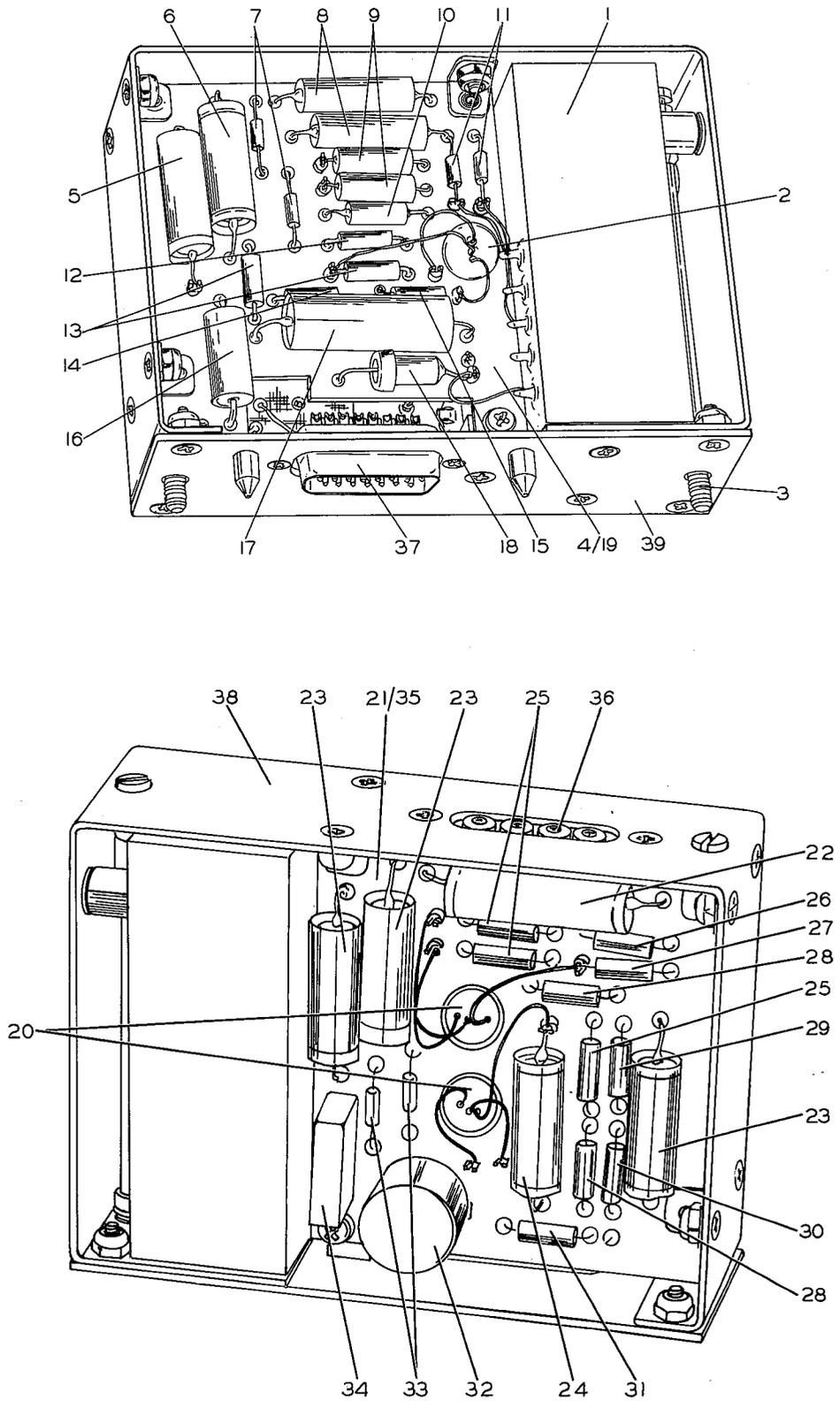
ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
7-	542 3834 005	30 CPS VAR AMPLIFIER (See figure 2-8 for next								REF
		higher ASSY)								
-1	541 6553 003	. SHIELD, Tube E1, E2, E3								3
-2	5670	. ELECTRON, Tube V24446 (253 0002 00) V1, V2, V3 .								3
-3	542 6218 004	. SHELF, Tube								1
		(ATTACHING PARTS)								
	MS35200-11	. SCREW, Machine (342 0043 00)								4
		-----*-----								
-4	542 6159 002	. SCREW, Captive H8								2
		(ATTACHING PARTS)								
	5133-15-C	. RING, Retaining V79136 (340 0252 00) H2								2
	542 1590 003	. WASHER, Flat H7								2
	310 0072 00	. WASHER, Lock								2
		-----*-----								
-5	RC20GF331K	. RESISTOR, 330 ohms (745 1331 00) R20								1
-6	RC20GF684K	. RESISTOR, 680,000 ohms (745 1471 00) R19								1
-7	RC20GF680J	. RESISTOR, 680,000 ohms (745 1470 00) R17								1
-8	RC20GF683J	. RESISTOR, 68,000 ohms (745 1428 00) R18								1
-9	RC20GF224K	. RESISTOR, 220,000 ohms (745 1450 00) R14, R15								2
-10	RN65B1963F	. RESISTOR, 196,000 ohms (705 7206 00) R16								1
-11	RN65B6811F	. RESISTOR, 6810 ohms (705 7136 00) R12								1
-12	RC20GF682K	. RESISTOR, 6800 ohms (745 1387 00) R13								1
-13	RN65B2742F	. RESISTOR, 27,400 ohms (705 7165 00) R5								1
-14	RC20GF102K	. RESISTOR, 100 ohms (745 1352 00) R25								1
-15	RC20GF464K	. RESISTOR, 460,000 ohms (745 1464 00) R23								1
-16	RC20GF331K	. RESISTOR, 330 ohms (745 1331 00) R24								1
-17	150D406X	. CAPACITOR, 40 uf (184 7380 00) V56289 C12								1
	0010B2									
-18	RC20GF152K	. RESISTOR, 1500 ohms (745 1359 00) R6								1
-19	542 4790 003	. BOARD NO. 2 TB2								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								2
		-----*-----								
-20	Type	. CAPACITOR, 1000 uuf (913 1186 00) C10								1
	CK61Y102Z									
-21	931 8358 00	. CAPACITOR, 150,000 uuf C8, C9								2
		(ATTACHING PARTS)								
	334 0254 00	. NUT, Plain, Hex								2
	AN936A516	. WASHER, Lock (373 0084 00)								2
		-----*-----								
-22	P85216	. CAPACITOR, 100,000 uuf V56289 (931 4508 00) C14 .								1
-23	541 6533 003	. LINER, Tube Shield H6								3
-24	220 1244 00	. SOCKET, Tube XV1, XV2, XV3								3
		(ATTACHING PARTS)								
	MS35216-11	. SCREW, Machine (343 0132 00)								1
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	MS35216-14	. SCREW, Machine (343 0135 00)								1
	68-1660-40	. NUT, Self-locking, Hex V72962 (333 0605 00) H1								5
	304 0332 00	. TERMINAL, Lug E8, E9, E11								3
	103A-4	. TERMINAL, Stud V92825 (306 0234 00) E10								1
		-----*-----								
-25	542 6227 002	. CLAMP, Capacitor H9								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	310 0279 00	. WASHER, Lock								4

ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
7-	502 1515 002	.	WASHER, Flat							2
	540 9041 003	.	SPACER H4							2
			-----*							
-26	236L-1-303	.	RESISTOR, Variable 30,000 ohms V80294							1
			(381 1116 00) R3							
			(ATTACHING PARTS)							
	MS35216-7	.	SCREW, Machine (343 0128 00)							2
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .							2
			-----*							
-27	3S2791G200F9	.	RELAY, Armature V24446 (974 0587 00) K1							1
			(ATTACHING PARTS)							
	MS35216-16	.	SCREW, Machine (343 0137 00)							2
	68-1600-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .							2
	502 1515 002	.	WASHER, Flat							2
	541 5979 002	.	SLEEVE, Spacer H5							2
			-----*							
-28	542 4788 004	.	BOARD, NO. 1							1
			(ATTACHING PARTS)							
	MS35216-12	.	SCREW, Machine (343 0133 00)							3
	MS35216-13	.	SCREW, Machine (343 0134 00)							1
	MS35200-12	.	SCREW, Machine (342 0044 00)							2
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .							4
	502 1515 002	.	WASHER, Flat							1
	310 0279 00	.	WASHER, Lock							3
			-----*							
-29	RN65B2613F	.	RESISTOR, 261,000 ohms (705 7212 00) R11							1
-30	380 2219 00	.	RESISTOR, Variable 500,000 ohms R10							1
-31	931 2060 00	.	CAPACITOR, 270,000 uuf C11							1
-32	931 2061 00	.	CAPACITOR, 330,000 uuf C4							1
-33	RC20GF184K	.	RESISTOR, 180,000 ohms (745 1447 00) R22							1
-34	RC20GF334K	.	RESISTOR, 330,000 ohms (745 1457 00) R21							1
-35	748 9135 00	.	RESISTOR, 44,200 ohms R9							1
-36	912 2112 00	.	CAPACITOR, 20,000 uuf C5, C6							2
-37	748 9285 00	.	RESISTOR, 88,400 ohms R7, R8							2
-38	912 2120 00	.	CAPACITOR, 40,000 uuf C1, C2, C3, C7, C13							5
-39	748 9287 00	.	RESISTOR, 132,600 ohms R1							1
-40	748 9286 00	.	RESISTOR, 127 ohms R2							1
-41	748 9137 00	.	RESISTOR, 132,600 ohms R4							1
-42	542 4787 004	.	BOARD, NO. 1 TB1							1
-43	DA-15P	.	CONNECTOR, Receptacle 15 male CONT V91578							1
			(371 0020 00) P1							
			(ATTACHING PARTS)							
	MS35200-3	.	SCREW, Machine (342 0133 00)							2
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H2 . . .							2
			-----*							
-44	542 6215 004	.	WRAPAROUND A1							1
			(ATTACHING PARTS)							
	MS35200-13	.	SCREW, Machine (342 0045 00)							4
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H1 . . .							4
			-----*							
-45	542 6212 003	.	PLATE, Base							1

Collins
ILLUSTRATED PARTS CATALOG



9960 CPS Amplifier and Discriminator Module
Figure 8

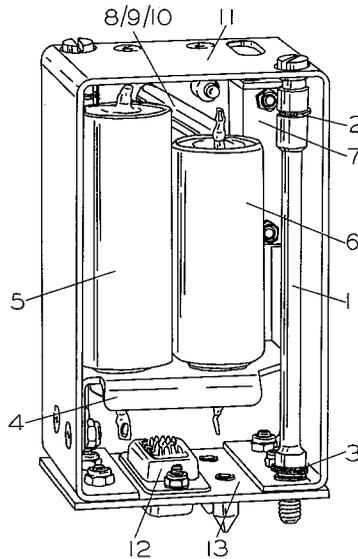
ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY.
8-	542 4840 005	9960 AMPLIFIER and DISCRIMINATOR (See figure 2-9 . . . for next higher ASSY)		REF
-1	673 0468 00	. FILTER, Discriminator Z1		1
	330 2290 00	. (ATTACHING PARTS)		
	330 2290 00	. SCREW, Machine		4
		-----*-----		
-2	4JD1E-17	. TRANSISTOR, V24446 (352 0009 00) Q3		1
		. (ATTACHING PARTS)		
	5100-34-C	. RING, Retaining V79136 (340 0042 00) H6		1
		-----*-----		
-3	542 6158 002	. SCREW, Captive H5		2
		. (ATTACHING PARTS)		
	542 1590 003	. WASHER, Flat H4		2
	310 0072 00	. WASHER, Lock		2
	5133-15-C	. RING, Retaining V79136 (340 0252 00) H3		2
		-----*-----		
-4	542 3824 004	. BOARD, Terminal, NO. 1		1
		. (ATTACHING PARTS)		
	330 2290 00	. SCREW, Machine		3
	68NM-40	. NUT, Self-locking, Hex V72962 (333 0347 00) H1		3
	MS35216-12	. SCREW, Machine (343 0133 00)		1
	310 0045 00	. WASHER, Flat		1
		-----*-----		
-5	P85249	. . CAPACITOR, 47,000 uuf V56289 (931 4486 00) C7		1
-6	P85208	. . CAPACITOR, 22,000 uuf V56289 (931 4524 00) C8		1
-7	1N462	. . DIODE, Silicon V73293 (353 0197 00) CR3, CR4		2
-8	P85200	. . CAPACITOR, 10,000 uuf V56289 (931 4481 00)		2
		C10, C11		
-9	RN65B3163F	. . RESISTOR, 316,000 ohms (705 7216 00) R15, R16		2
-10	150D606X	. . CAPACITOR, 60 uf V56289 (184 7370 00) C12		1
	0006B2			
-11	1N457	. . DIODE, Silicon V73293 (353 0204 00) CR5, CR6		2
-12	RC20GF392J	. . RESISTOR, 3900 ohms (745 1376 00) R17		1
-13	RC20GF822J	. . RESISTOR, 8200 ohms (745 1390 00) R12, R13		2
-14	RC20GF561J	. . RESISTOR, 560 ohms (745 1341 00) R14		1
-15	RC20GF562J	. . RESISTOR 5600 ohms (745 1383 00) R11		1
-16	RC42GF103K	. . RESISTOR, 10,000 ohms (745 5694 00) R18		1
-17	931 5943 00	. . CAPACITOR, 330,000 uuf C9		1
-18	PP4B60A2	. . CAPACITOR, 4 uf V21520 (184 7000 00) C13		1
-19	542 3823 004	. . BOARD, Terminal NO. 1 TB1		1
-20	4JD1E-17	. TRANSISTOR V24446 (352 0009 00) Q1, Q2		2
		. (ATTACHING PARTS)		
	5100-34-C	. RING, Retaining V79136 (340 0042 00) H6		2
		-----*-----		
-21	542 4839 004	. BOARD, Terminal, NO. 2		1
		. (ATTACHING PARTS)		
	330 2290 00	. SCREW, Machine		3
	68NM-40	. NUT, Self-locking, Hex V72962 (333 0347 00)		3
	MS35216-12	. SCREW, Machine (343 0133 00)		1
	310 0045 00	. WASHER, Flat		1
		-----*-----		
-22	931 5943 00	. . CAPACITOR, 330,000 uuf C6		1
-23	P85249	. . CAPACITOR, 47,000 uuf V56289 (931 4486 00)		3
		C3, C4, C5		
-24	P85247	. . CAPACITOR, 33,000 uuf V56289 (931 4482 00) C2		1



ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
8-25	RC20GF562J	. .			RESISTOR, 5600 ohms (745 1383 00)	R1, R6, R9	. .		3	
-26	RC20GF221J	. .			RESISTOR, 220 ohms (745 1323 00)	R8	. . . . .		1
-27	RC20GF222J	. .			RESISTOR, 2200 ohms (745 1365 00)	R10	. . . . .		1
-28	RC20GF822J	. .			RESISTOR, 8200 ohms (745 1390 00)	R2, R7	. . . . .		2
-29	RC20GF152J	. .			RESISTOR, 1500 ohms (745 1358 00)	R4	. . . . .		1
-30	RC20GF472J	. .			RESISTOR, 4700 ohms (745 1379 00)	R3	. . . . .		1
-31	RC20GF182J	. .			RESISTOR, 1800 ohms (745 1362 00)	R5	. . . . .		1
-32	91456	. .			REACTOR, Audio V88063 (678 1071 00)	L1	. . . . .		1
-33	1N462	. .			DIODE, Silicon V73293 (353 0197 00)	CR1, CR2	. . . . .		2
-34	912 9169 00	. .			CAPACITOR, 1000 uuf C1	. . . . .			1
-35	542 4838 004	. .			BOARD, Terminal, NO. 2 TB2	. . . . .			1
-36	542 6187 002	. .			PLATE, Test Point	. . . . .			1
-37	DA-15P	. .			CONNECTOR, Receptacle, 15 male CONT V91578 (371 0020 00) P1	. . . . .			1
					(ATTACHING PARTS)					
	MS35200-3	. .			SCREW, Machine (342 0133 00)	. . . . .			2
	68-1660-26	. .			NUT, Self-locking, Hex V72962 (333 0604 00)	. . . . .			2
					-----*					
-38	542 6196 004	. .			WRAPAROUND A2	. . . . .			1
	MS35200-13	. .			SCREW, Machine (342 0045 00)	. . . . .			4
	68NM-40	. .			NUT, Self-locking, Hex V72962 (333 0347 00)	. . . . .			4
					-----*					
-39	542 6194 003	. .			PLATE, Base	. . . . .			1



To-From Module
Figure 9

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
9-	542 7353 005	TO-FROM MODULE (See figure 2-10 for next higher ASSY) .								REF
-1	542 6158 002	. SCREW, Captive H1								2
		(ATTACHING PARTS)								
-2	5133-15-C	. RING, Retaining V79136 (340 0252 00)								2
-3	310 0072 00	. WASHER, Lock								2
	542 1590 003	. WASHER, Flat H2								2
		-----*-----								
-4	543 2255 004	. BRACKET, Pressed								1
		(ATTACHING PARTS)								
	330 2290 00	. SCREW, Machine								4
	68-1660-40	. NUT, Self-locking, Hex V72962 (333 0605 00) H4								4
	502 1515 002	. WASHER, Flat								2
		-----*-----								
-5	Type 118P	. CAPACITOR, 4 uf V56289 (951 0176 00) C1								1
-6	Type 118P	. CAPACITOR, 2 uf V56289 (951 0177 00) C2								1
		(ATTACHING PARTS)								
	334 0254 00	. NUT, Plain, Hex								2
	1218-02	. WASHER, Lock V78189 (373 0080 00)								4
		-----*-----								
-7	Type 230-1-201	. RESISTOR, Variable V80294 (381 1109 00) R4, R5								2

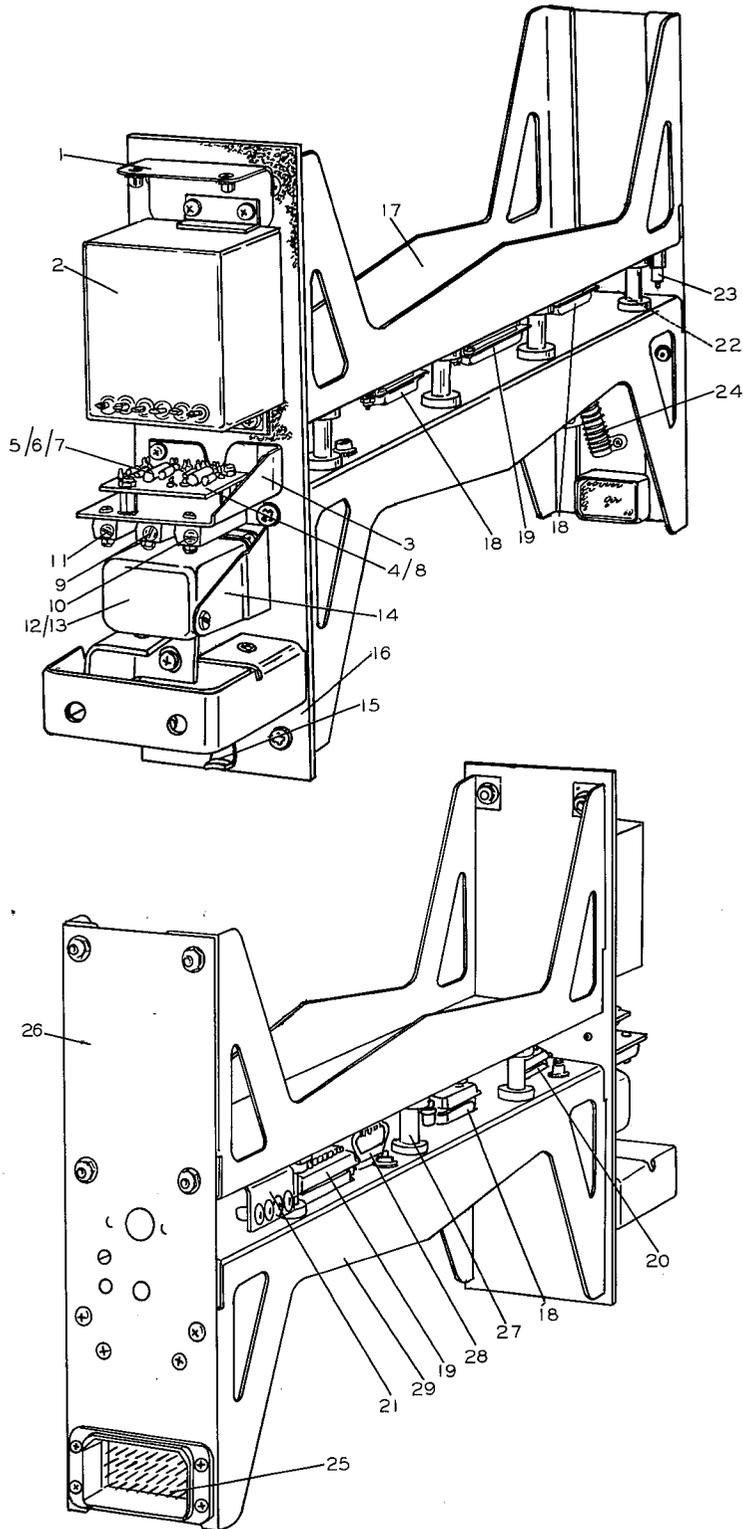


ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.	
		1	2	3	4	5	6	7			
9-		(ATTACHING PARTS)									
	MS35200-9	.	SCREW, Machine	(342 0138 00)	.	.	.	.	.	2
	68-1660-26	.	NUT, Self-locking, Hex	V72962 (333 0604 00)	H3	.	.	.	.	2
			-----*-----								
	RC20GF182K	.	RESISTOR, 1800 ohms	(745 1363 00)	R1	.	.	.	.	1
	RC20GF471K	.	RESISTOR, 470 ohms	(745 1338 00)	R2, R3	.	.	.	.	2
	1N462	.	DIODE, Silicon	V73293 (353 0197 00)	CR1, CR2	.	.	.	.	2
	543 2253 004	.	WRAPAROUND	A1	.	.	.	.	.	1
			(ATTACHING PARTS)								
	330 2290 00	.	SCREW, Machine	.	.	.	.	.	.	4
	68-1660-40	.	NUT, Self-locking, Hex	V72962 (333 0605 00)	H4	.	.	.	.	4
			-----*-----								
	DE-9P	.	CONNECTOR, 9 rd male	CONT V91578 (371 0047 00)	.	.	.	.	.	1
			P1								
		(ATTACHING PARTS)									
MS35200-3	.	SCREW, Machine	(342 0133 00)	.	.	.	.	.	2	
68-1660-26	.	NUT, Self-locking, Hex	V72962 (333 0604 00)	H3	.	.	.	.	2	
		-----*-----									
543 2251 003	.	PLATE, Base	.	.	.	.	.	.	1	

NOT SUBJECT TO AMENDMENT
 Do not use for the certification of
 equipment servicing.

RADIO SECTION
 MARSHALL OF CAMBRIDGE (ENG) LTD.



Chassis Assembly
Figure 10

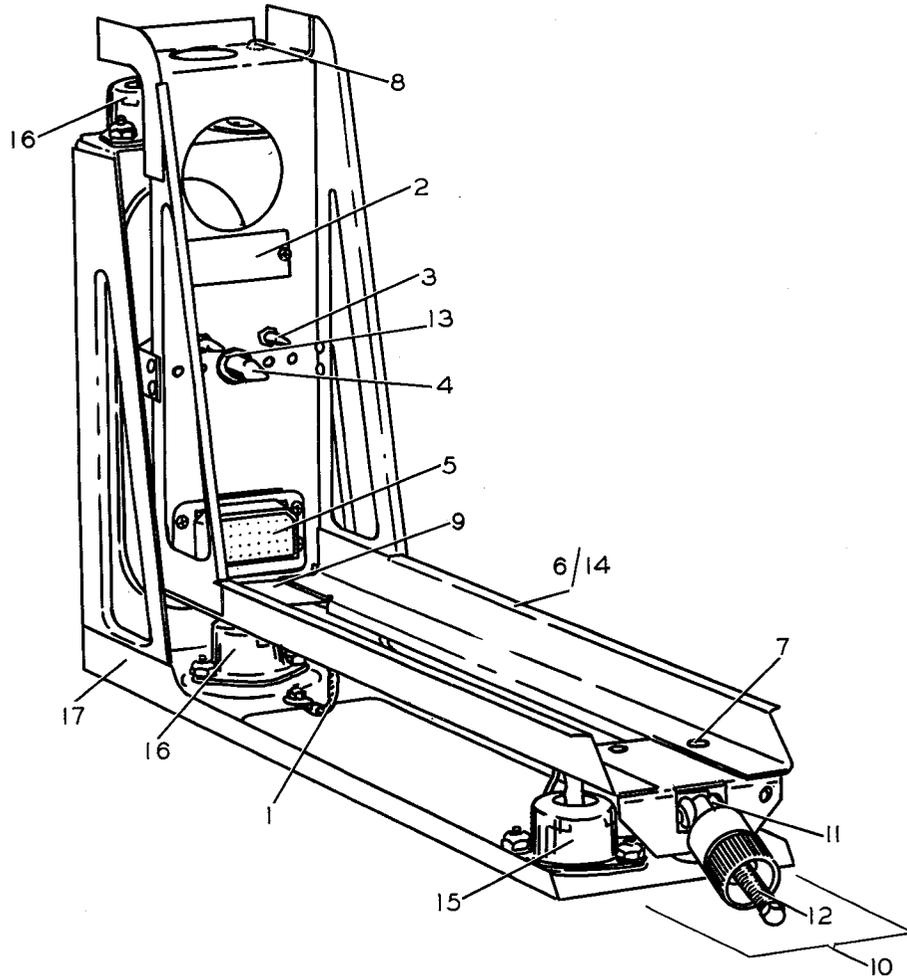
ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
10-	543 2245 005	CHASSIS ASSEMBLY, MECHANICAL (See figure 2-11 . . . for next higher ASSY)								REF
-1	543 2223 002	. BRACKET, Cover MTG A4								1
-2	V-6632	. FILTER V80223 (673 0383 00) FL1								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	310 0279 00	. WASHER, Lock								4
	543 2224 002	. SPACER								1
		-----*-----								
-3	543 2230 003	. BRACKET, Board MTG A3								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								1
	MS35216-13	. SCREW, Machine (343 0134 00)								1
	310 0279 00	. WASHER, Lock								2
	310 0045 00	. WASHER, Flat								1
		-----*-----								
-4	542 6240 003	. BOARD, Terminal								1
		(ATTACHING PARTS)								
	330 2294 00	. SCREW, Machine								2
	68-1660-40	. NUT, Self-locking, Hex V72962 (333 0605 00) H3								2
	AN936B4	. WASHER, Lock (373 8010 00)								2
	541 5979 002	. POST								2
		-----*-----								
-5	1N456	. . DIODE, Silicon V73293 (353 0199 00) CR1 thru CR4								4
-6	1N462	. . DIODE, Silicon V73293 (353 0197 00) CR5								1
-7	Type RS-2B	. . RESISTOR, 300 ohms V91637 (747 9968 00) R2, R3.								2
-8	542 6239 003	. . TERMINAL Board TB1								1
-9	230-1-501	. RESISTOR Variable 500 ohms V80294 (381 1110 00) R4								1
-10	230-1-202	. RESISTOR Variable 2000 ohms V80294 (381 1112 00) R1								1
-11	230-1-502	. RESISTOR Variable 5000 ohms V80294 (381 1113 00) R5								1
		(ATTACHING PARTS)								
	MS35216-6	. SCREW, Machine (343 0127 00)								6
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00)								6
		-----*-----								
-12	Type 115	. RELAY, Arm V70703 (972 1450 00) K1								1
-13	220 1166 00	. SOCKET XK1								1
-14	542 4736 002	. BRACKET								1
		(ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								2
	310 0279 00	. WASHER, Lock								2
		-----*-----								
-15	503 4970 001	. BRACKET A11								1
		(ATTACHING PARTS)								
	MS35216-23	. SCREW, Machine (343 0167 00)								2
	310 0282 00	. WASHER, Lock								2
		-----*-----								
-16	543 2231 003	. PANEL, Front A5								1
		(ATTACHING PARTS)								
	MS35200-25	. SCREW, Machine (342 0062 00)								4
	MS35216-26	. SCREW, Machine (343 0170 00)								4
	68NM-62	. NUT, Self-locking, Hex V72962 (333 0368 00)								8
	540 3023 003	. WASHER								4
		-----*-----								
-17	543 2234 003	. CHASSIS, Upper A7								1

ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
10-		(ATTACHING PARTS)								
	330 2290 00	.	SCREW, Machine	.	.	.	.	.	11
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H3	.	.	.	.	.	4
	310 0045 00	.	WASHER, Flat	.	.	.	.	.	4
		.	-----*-----		
-18	DAF-15S-1	.	CONNECTOR, 15 female CONT V91578 (371 0041 00)	.	.	.	.	.	3
		.	J1, J2, J6	.	.	.	.	.
-19	DBF-25S-1	.	CONNECTOR, 25 female CONT V91578 (371 0042 00)	.	.	.	.	.	2
		.	J3, J4	.	.	.	.	.
-20	DEF-9S	.	CONNECTOR, 9 female CONT V71468 (371 0048 00) J5	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	330 2288 00	.	SCREW, Machine	.	.	.	.	.	12
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00) H2	.	.	.	.	.	12
	541 9762 002	.	SPACER	.	.	.	.	.	12
		.	-----*-----		
-21	543 2226 002	.	BRACKET, Jack A9	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	330 2290 00	.	SCREW, Machine	.	.	.	.	.	2
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H3	.	.	.	.	.	2
		.	-----*-----		
-22	29F510G4	.	CAPACITOR, 10 uf V56289 (184 7226 00) C1	.	.	.	.	.	1
-23	103A-4	.	TERMINAL, Stud V92825 (306 0234 00) E2, E3	.	.	.	.	.	2
		.	(ATTACHING PARTS)	.	.	.	.	.
	MS35200-11	.	SCREW, Machine (342 0043 00)	.	.	.	.	.	2
		.	-----*-----		
-24	Type RH-25	.	RESISTOR, 12.3 ohms V91637 (747 9525 00) R6	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	MS35216-13	.	SCREW, Machine (343 0134 00)	.	.	.	.	.	2
	68-1660-40	.	NUT, Self-locking Hex V72962 (333 0605 00) H3	.	.	.	.	.	2
	502 1515 002	.	WASHER, Flat	.	.	.	.	.	2
		.	-----*-----		
-25	DPA-32-34P-1	.	CONNECTOR, 32 male CONT V71468 (370 2071 00) P1	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	330 2285 00	.	SCREW, Machine	.	.	.	.	.	4
	68-1660-26	.	NUT, Self-locking, Hex V72962 (333 0604 00)	.	.	.	.	.	4
		.	-----*-----		
-26	543 2233 003	.	PLATE, Rear A6	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	MS35216-12	.	SCREW, Machine (343 0133 00)	.	.	.	.	.	2
	68-1660-40	.	NUT, Self-locking, Hex V72962 (333 0605 00) H3	.	.	.	.	.	2
		.	-----*-----		
-27	543 2227 002	.	POST, MOD H1	.	.	.	.	.	7
		.	(ATTACHING PARTS)	.	.	.	.	.
	330 2290 00	.	SCREW, Machine	.	.	.	.	.	7
		.	-----*-----		
-28	542 6490 002	.	TERMINAL E1	.	.	.	.	.	1
		.	(ATTACHING PARTS)	.	.	.	.	.
	MS35200-13	.	SCREW, Machine (342 0045 00)	.	.	.	.	.	1
	68NM-40	.	NUT, Self-locking, Hex V72962 (333 0347 00)	.	.	.	.	.	1
	AN936A8B	.	WASHER, Lock (373 3030 00)	.	.	.	.	.	1
		.	-----*-----		
-29	543 2235 003	.	CHASSIS, Lower A8	.	.	.	.	.	1

Collins
ILLUSTRATED PARTS CATALOG



Shockmount 390D-8
Figure 11

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
11-	522 0798 005	SHOCKMOUNT 390D-8 (See figure 1-2 for next								REF
-1	505 2784 002	. GROUND STRAP								2
		. (ATTACHING PARTS)								
	MS35200-12	. SCREW, Machine (342 0044 00)								4
	310 0045 00	. WASHER, Flat								4
	68-1660-40	. NUT, Self-locking, Hex V72962 (333 0605 00)								4
		-----*-----								
-2	280 2628 00	. NAMEPLATE								1
		. (ATTACHING PARTS)								
	MS35216-2	. SCREW, Machine (343 0123 00)								2
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00)								2
		-----*-----								
-3	541 3619 002	. PIN, Fixed								2
		. (ATTACHING PARTS)								
	68NM-62	. NUT, Lock V72962 (333 0368 00)								2
		-----*-----								
-4	541 3616 002	. PIN, Locating								1
		. (ATTACHING PARTS)								
	340 0089 00	. RING, Retaining								1
	541 3617 002	. SPRING, Helical, Compression								1
		-----*-----								
-5	DPA-24C1HV1- 33S-1	. CONNECTOR, Receptacle, 24 female CONT V91578 . . .								1
		. (370 2089 00)								
		. (ATTACHING PARTS)								
	MS35216-12	. SCREW, Machine (343 0133 00)								4
	68-1660-26	. NUT, Self-locking, Hex V72962 (333 0604 00)								4
		-----*-----								
-6	542 3793 003	. TRAY, Shockmount, Riveted								1
		. (ATTACHING PARTS)								
-7	MS35200-25	. SCREW, Machine (342 0062 00)								2
-8	346 6016 00	. SCREW								2
-9	MS35200-24	. SCREW, Machine (342 0061 00)								1
	310 6360 00	. WASHER, Flat								4
		-----*-----								
-10	541 6510 002	. . . . . RETAINER, Front								1
		. (ATTACHING PARTS)								
	305 1374 00	. . . . . RIVET								2
	541 6445 002	. . . . . SHIM								1
		-----*-----								
-11	541 6506 002	. . . . . CLEVIS								1
		. (ATTACHING PARTS)								
	541 6507 002	. . . . . PIN								1
	338 2020 00	. . . . . PIN, Cotter								1
		-----*-----								
-12	541 6509 002	. . . . . SHAFT Assembly								1
	334 0043 00	. . . . . NUT, Captive								1
	541 6502 002	. . . . . SHAFT								1
	541 6503 002	. . . . . WASHER, Locking								1
	541 6508 002	. . . . . THUMB Nut								1
-13	541 3620 002	. . . . . BEARING, Sleeve								1
-14	542 3796 005	. . . . . BRACKET, Clutch Bearing								1
-15	J-6677-3	. MOUNT, Resilient V76005 (200 0992 00)								2
-16	J-6677-4	. MOUNT, Resilient V76005 (200 0993 00)								3



ILLUSTRATED PARTS CATALOG

FIG. & INDEX NO.	PART NO.	NOMENCLATURE							USAGE CODE	UNITS PER ASSY.
		1	2	3	4	5	6	7		
11-	MS35216-25	.								10
	68NM-62	.								10
		-----*								
-17	541 6447 004	.								1

ELECTRICAL WIRE CODE

EXAMPLES

UNSHIELDED WIRE, MIL TYPE B #22 AWG, WHITE WITH RED AND GREEN TRACERS:

D	A	9	25	4-1/4
Type of Wire	Size of Wire	Color of Body	Color of Tracers	Length of Wire in Inches (Includes Stripping & Tinning)

SHIELDED WIRE (SINGLE), MIL TYPE C, #15 AWG, WHITE WITH RED AND GREEN TRACERS:

R	D	S	9	25	4-1/4
Type of Wire	Size of Wire	Shielded	Color of Body	Color of Tracers	Length of Wire in Inches (Includes Stripping & Tinning)

SHIELDED WIRE (MULTIPLE), MIL TYPE B, #22 AWG, WHITE, AND WHITE WITH RED TRACER:

D	A	S	(9)	(92)	4-1/4
Type of Wire	Size of Wire	Shielded	First Conductor	Second Conductor	Length of Wire in Inches (Includes Stripping & Tinning)

TYPE OF WIRE CODE			SIZE OF WIRE CODE		COLOR CODE	
	TYPE OF WIRE	FAMILY USUALLY FOUND IN	LETTER	SIZE	NUMBER OR LETTER	COLOR
A	Cotton Braid Over Plastic (Formerly AN-J-C-48)	440 Plain 443 Shielded	A	#22 AWG	0	Black
B	Busbar, Round Tinned	421	B	#20	1	Brown
C	MIL-W-16878 Type B (#20 and Larger) (600 Volts)	439	C	#18	2	Red
D	Miniature Wire, MIL-W-16878 Type B (#22 & Smaller)	439-7000 Series	D	#16	3	Orange
E	Extra Flexible Varnished Cambric	423	E	#14	4	Yellow
F	Kel-F (Monochlorotrifluoroethylene)	422	F	#12	5	Green
G	Neon Sign Cable (15,000 Volts)	423 0004 00	G	#10	6	Blue
H	Silicone	425 0942 00	H	#8	7	Violet
J	Single Conductor Stranded (Not Rubber Covered)	422	J	#6	8	Gray (Slate)
K	Single Conductor Stranded (Rubber Covered)	423	K	#4	9	White
L	MIL-W-16878 Type C (1000 Volts)	439 1000 Series	L	#2	a	Clear
M	Teflon, MIL-W-16878 Type E (600 Volts)	439 4000 Series	M	#1	b	Tan
N	MIL-W-16878 Type D (3000 Volts)	439 3000 Series	N	#0	c	Pink
P	Teflon, MIL-W-16878 Type EE (1000 Volts)	439 0000 Series	P	#00	d	Maroon
Q	Acetate Yarn Telephone Type	428	Q	#000	e	Light Green
R			R	#0000	f	Light Blue
T			T	#28		
V			V	#26		
W			W	#24		
X			X	#19		
Y			Y	#30		
Z			Z			

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