

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS

AND SPECIAL TOOLS LISTS

FOR

RADAR SETS AN/APN-158 (NSN 5841-00-082-3534)

AND

AN/APN-158A (NSN 5841-00-143-4116)

ANTENNAS AS-1520/APN-158 (NSN 5841-00-082-3541)

AND

AS-1642/APN-158 (NSN 5841-00-082-3803)

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TECHNICAL MANUAL }
 No. 11-5841-241-20P }

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 29 June 1979

**ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
 FOR
 RADAR SETS AN/APN-158 (NSN 5841-00-082-3534)
 AND
 AN/APN-158A (NSN 5841-00-143-4116)
 ANTENNAS AS-1520/APN-158 (NSN 5841-00-082-3541)
 AND
 AS-1642/APN-158 (NSN 5841-00-082-3803)**

Current as of 2 March 1979

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*This manual supersedes TM 11-5841-241-20P, 1 June 1971.

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	0704 Isolation Amplifier assembly (3A4) (No parts authorized)		
	0705 IF Amplifier Assembly (3A6) (No parts authorized)		
	0706 Generator-Amplifier, Sweep (3A7) (No parts authorized)		
	0707 Heatsink assembly (3A8) (No parts authorized)		
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	0709 AFC assembly (3A10) (No parts authorized)		
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	030101 Terminal Board (A3A1TB1) (No parts authorized)		
	30102 Terminal Board (A3A1TB2) (No parts authorized)		
	30103 Terminal Board assembly (A3A1TB3) (No parts authorized)		
	30104 Terminal Board assembly (A3A1TB4) (No parts authorized)		
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	0603 Board, keep alive supply (A6A3) (No parts authorized)		
	0604 Board, regulator (A6A4) (No parts authorized)		
	0605 Circuit board assembly, meter (A6A5) (No parts authorized)		
	0606 Circuit card assembly, regulator (A6A6) (No parts authorized)		
	0607 Circuit card assembly, Fault Sen (A6A7) (No parts authorized)		
	0608 Mixer-Duplexer assembly (A6A10) (No parts authorized)		
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	0703 Amplifier, Servo Elevation (A7A3) (No parts authorized)		
	0704 Amplifier, Isolation-Circuit (A7A4) (No parts authorized)		
	0705 Amplifier, Intermediate Frequency (A7A6) (No parts authorized)		
	0706 Generator-Amplifier, Sweep (A7A7) (No parts authorized)		
	0707 Heatsink assembly (A7A8) (No parts authorized)		
	0708 Generator, Range Mark board assembly (A7A9) (No parts authorized)		
	0709 Circuit card assembly, control (A7A10) (No parts authorized)		
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**SECTION I
INTRODUCTION**

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of the AN/APN-158, AN/APN-158A, AS-1520/APN-158 and AS-1642/APN-158. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General

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

a. Section II. Repair Parts List. A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. Section III. Special Tools List. Not applicable.

c. Section IV. National Stock Number and Part Number Index. A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphabetic sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. Illustration. This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. Source, Maintenance, and Recoverability (SMR) Codes.

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

<i>Code</i>	<i>Definition</i>
PA	Item procured and stocked for anticipated or known usage.

XD	A support item that is not stocked. When required, item will be procured through normal supply channels.
----	--

NOTE

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

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance

authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

<i>Code</i>	<i>Application/Explanation</i>
O	—Support item is removed, replaced, used at the organizational level.

D	—Support items that are removed, replaced, used at depot, mobile depot, specialized repair activity only.
---	---

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

<i>Code</i>	<i>Application/Explanation</i>
H	—The lowest maintenance level capable of complete repair of the support item is the general support level.
Z	—Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

<i>Recoverability codes</i>	<i>Definition</i>
Z	—Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
H	—Reparable item. When uneconomically reparable, condemn and dispose at the general support level.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part.

number than the part being replaced.

e. Federal Supply Code for Manufacturer (FSCM).

The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g.,

ea, in, pr, etc). When the unit of measure differs from the

unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

a. The following publication pertains to the AN/APN-158, AN/APN-158A, AS-1520/APN-158 and AS-1642/APN-158 and their components: TM 11-5841-241-12, Radar Sets AN/APN-158 and AN/APN-158A

b. The illustrations in this manual are identical to those published in TM 11-5841-241-34P (AN/APN-158) and TM 11-5841-241-34P-1 (AN/APN-158A). Only those parts assigned the third position SMR maintenance code "C" or "O" are listed in the tabular listing; therefore,

there may be break in the item number number sequence. Only illustrations containing organizational authorized items appear in this manual.

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) First. Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listing are divided into the same groups.

(2) Second. Find the illustration covering the functional group to which the item belongs.

(3) Third. Identify the item on the illustration and note the illustration figure and item number of the item.

(4) Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.

b. When National stock number or part number is known.

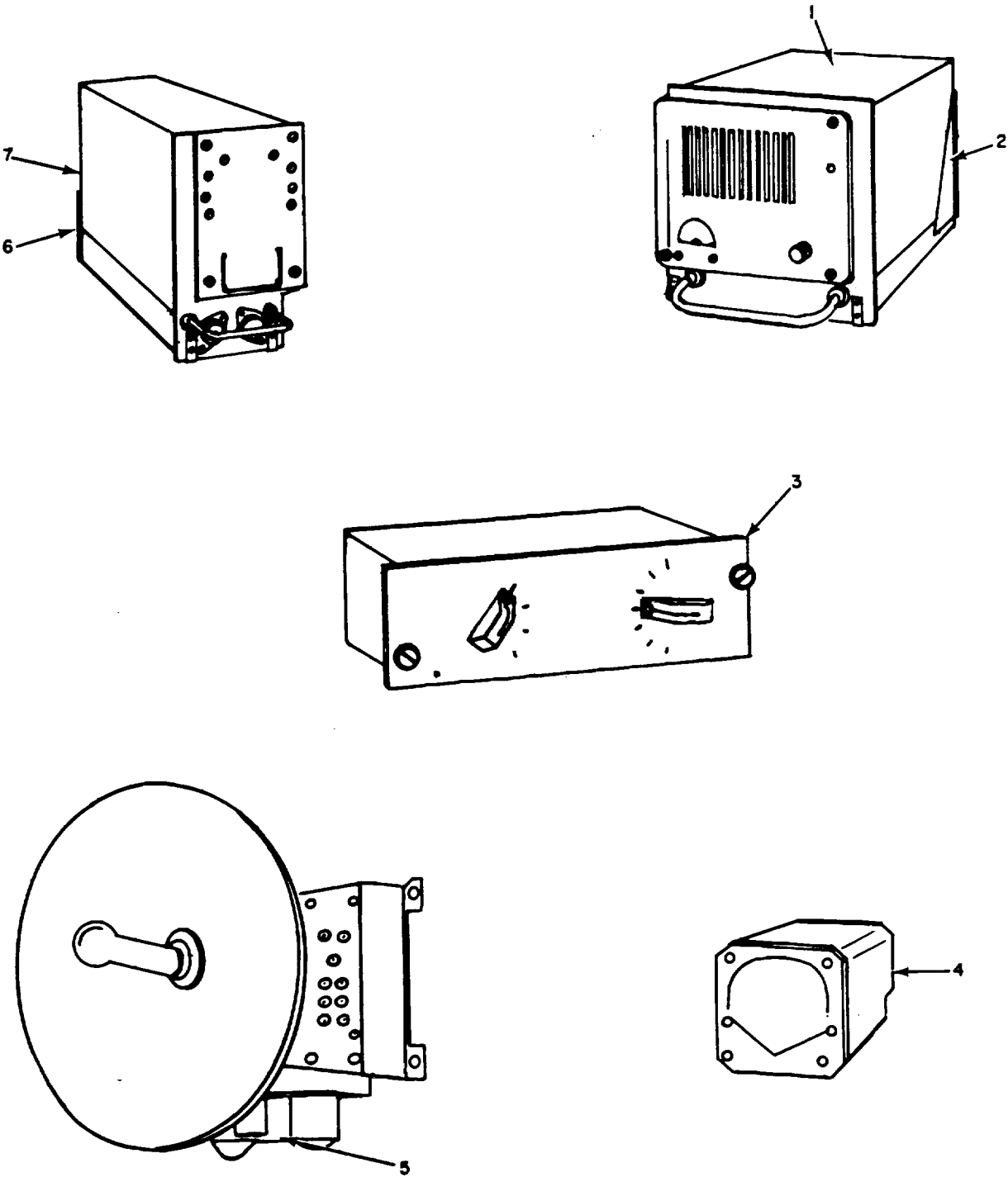
(1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.

(Next printed page is 4)



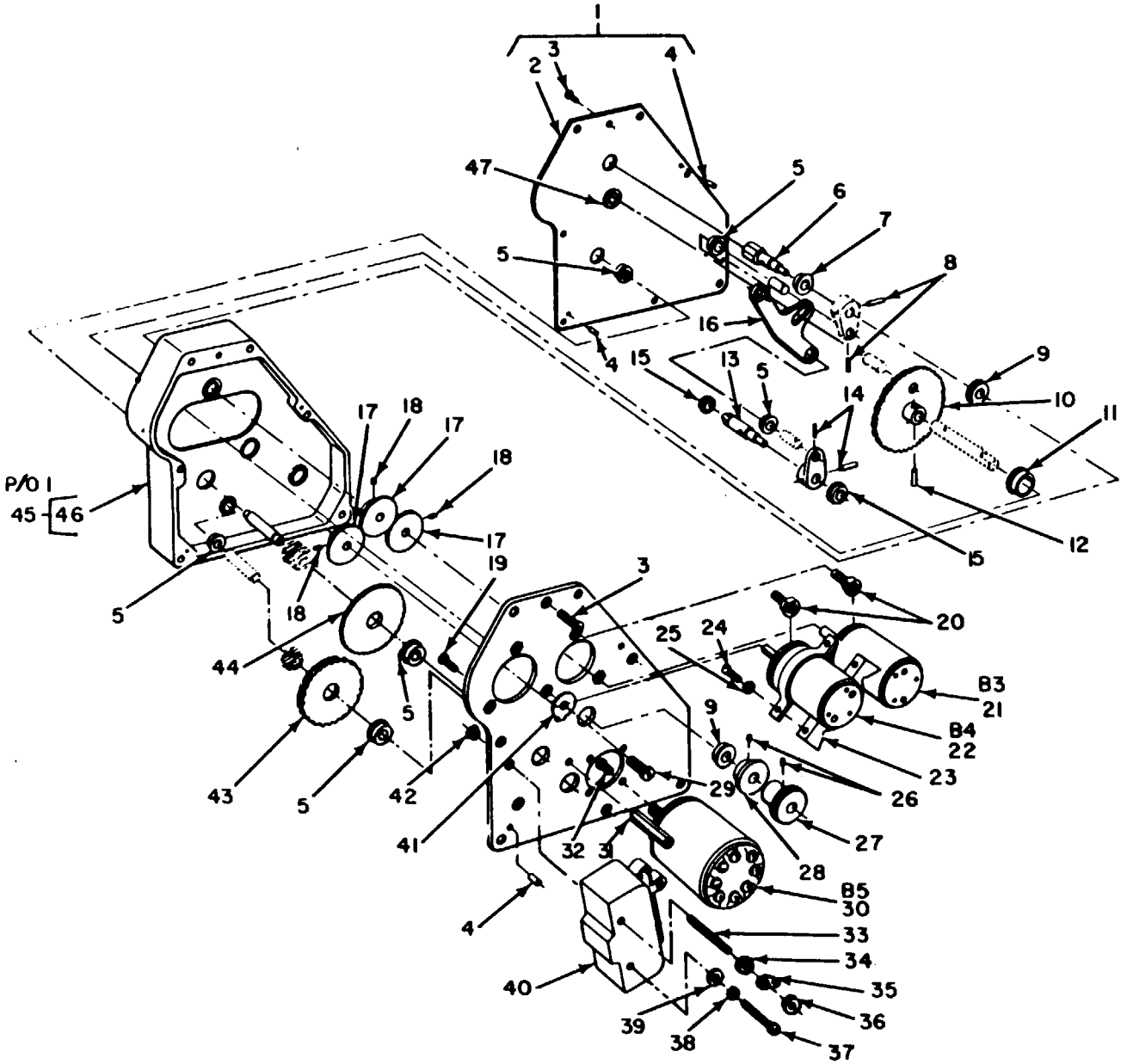
ELOOROOI

Figure 1. Radar Set AN/APN-158

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
1	1	PAOHH	5841-00-082-3538	RT711APN158	80058	GROUP 00 RADAR SET AN/APN-158 RECEIVER-TRANSMITTE	EA	1
					5			



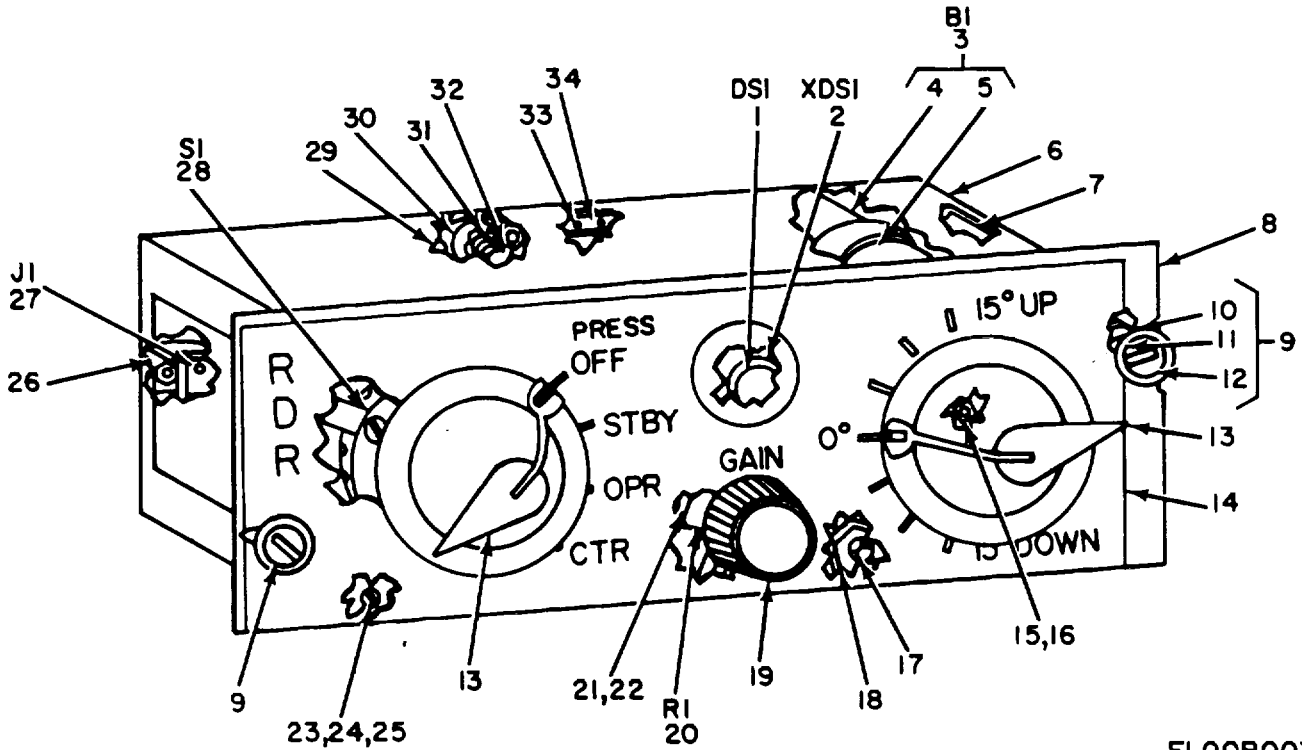
ELOOR004

Figure 2. Geartrain Assembly (A1A2)

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
2	27	PAOZZ	5355-00-772-6589	563-4877-002	13499	GROUP 0101 GEARTRAIN ASSEMBLY (563-9724-005) KNOB	EA	1
					7			



ELOOR007

Figure 3. Control, Radar Set C-4881/APN-158

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 02 CONTROL, RADAR SET C-4881/APN-158		
3	1	PAOZZ	6240-00-080-2012	MS25237-327-15	96906	LAMP, INCANDESCENT.....	EA	1
3	13	PAOZZ	5355-00-993-0760	MS25169P2B	96906	KNOB	EA	2
3	19	PAOZZ	5355-00-850-9799	MS91528-0N1B	96906	KNOB	EA	1
					9			

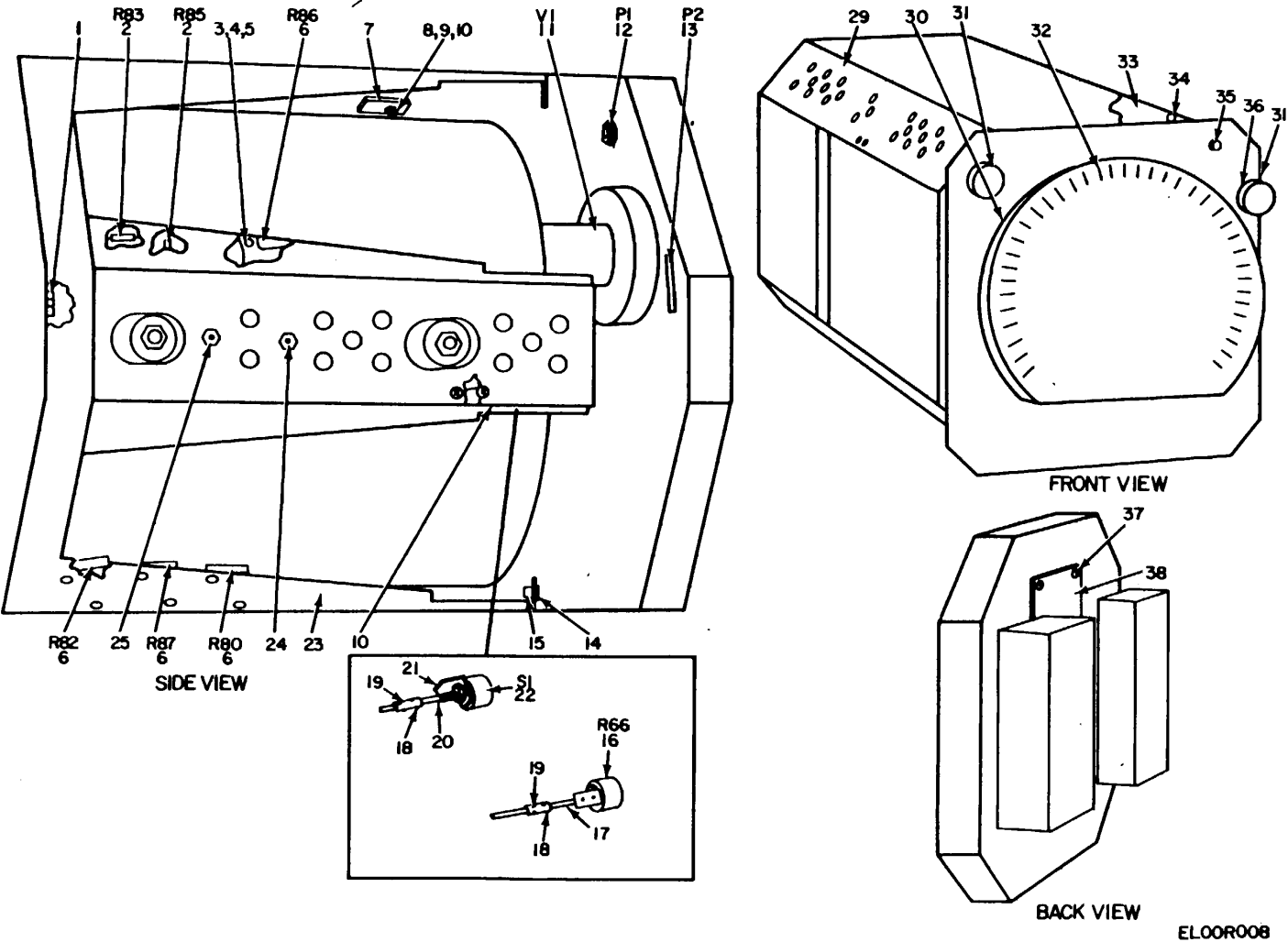


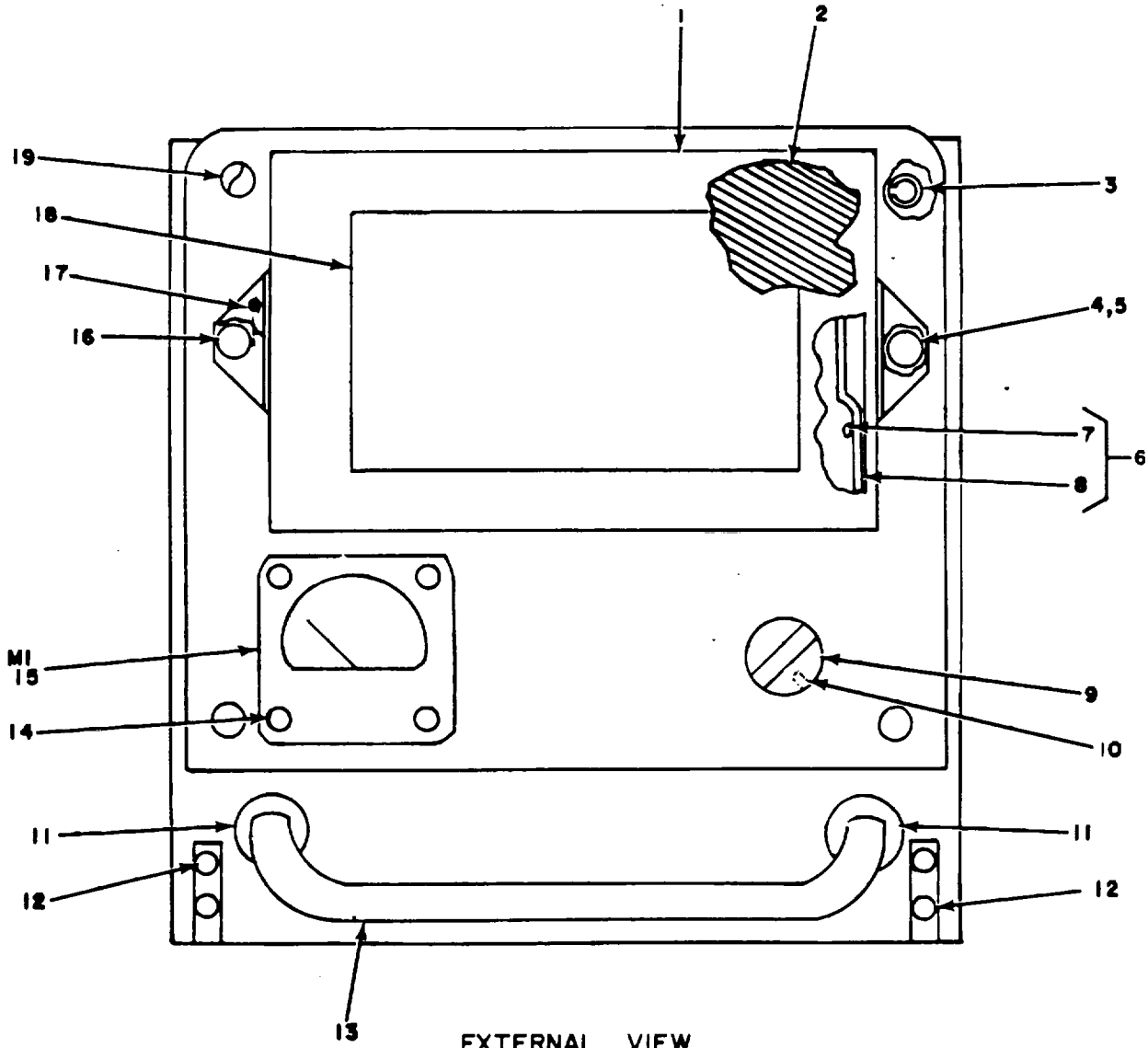
Figure 4. Indicator, Azimuth-Range IP-724/APN-158

ELOOR008

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 03 INDICATOR, AZIMUTH-RANGE IP-724/APN-158		
4	31	PAOZZ	5355-00-773-1611	564-2628-002	95104	KNOB EFF THRU REV H.....	EA	2
4	31	PAOZZ	5355-00-930-7487	565-5503-002	13499	KNOB EFF REV J	EA	2
					11			



NOTE: FOR COMPLETE REFERENCE DESIGNATION PREFIX WITH I.

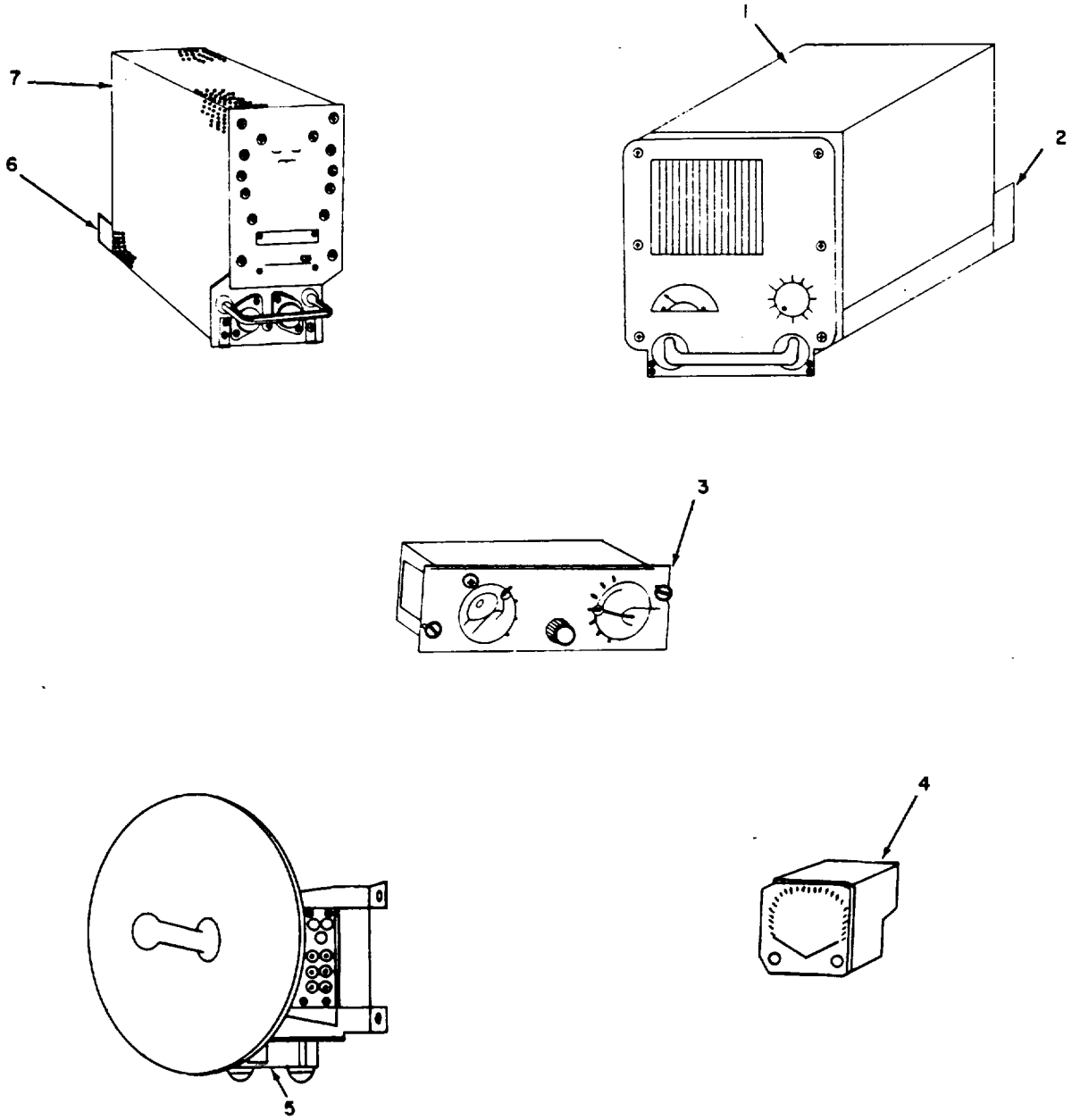
ELOOR022

Figure 5. Receiver-Transmitter, Radar RT-711/APN-158

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 06 RECEIVER-TRANSMITTER, RADAR RT-711/APN-158		
5	2	XDOZZ		099-0032-000	00736	AIR CLEANER.....	EA	1
5	9	PAOZZ	5355-00-773-1590	562-0521-002	13499	KNOB	EA	1
5	10	XDOZZ	5305-00-638-1883	335-0022-000	13499	SETSCREW	EA	2
					13			



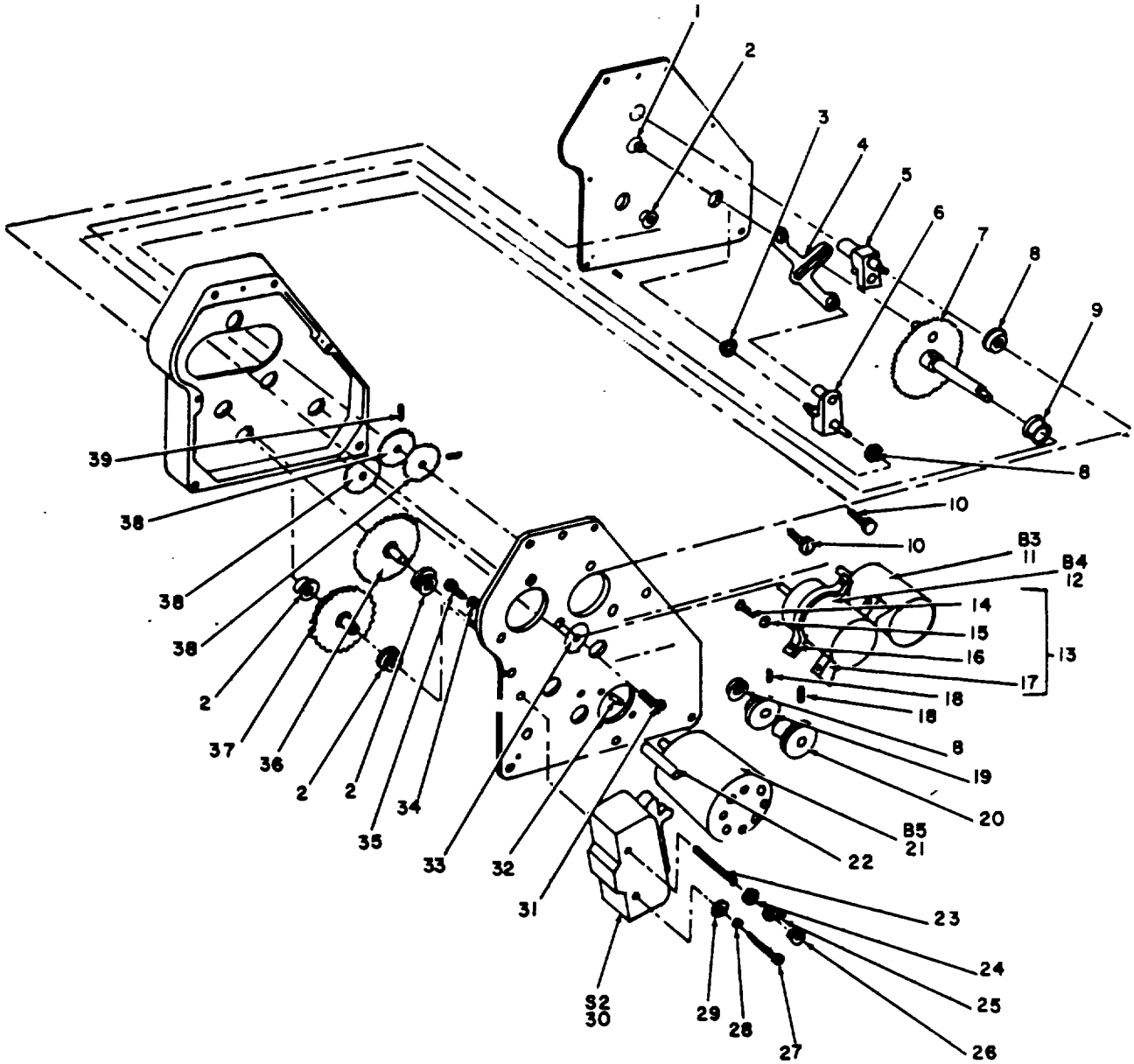
ELOOS001

Figure 6. Radar Set AN/APN-158A

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
6	1	PAOHH	5841-00-110-9847	RT711AAPN158	80058 15	GROUP 00 RADAR SET AN/APN-158A RECEIVER-TRANSMITTER.....	EA	1



NOTE: FOR COMPLETE REFERENCE DESIGNATION
PREFIX WITH A1A2.

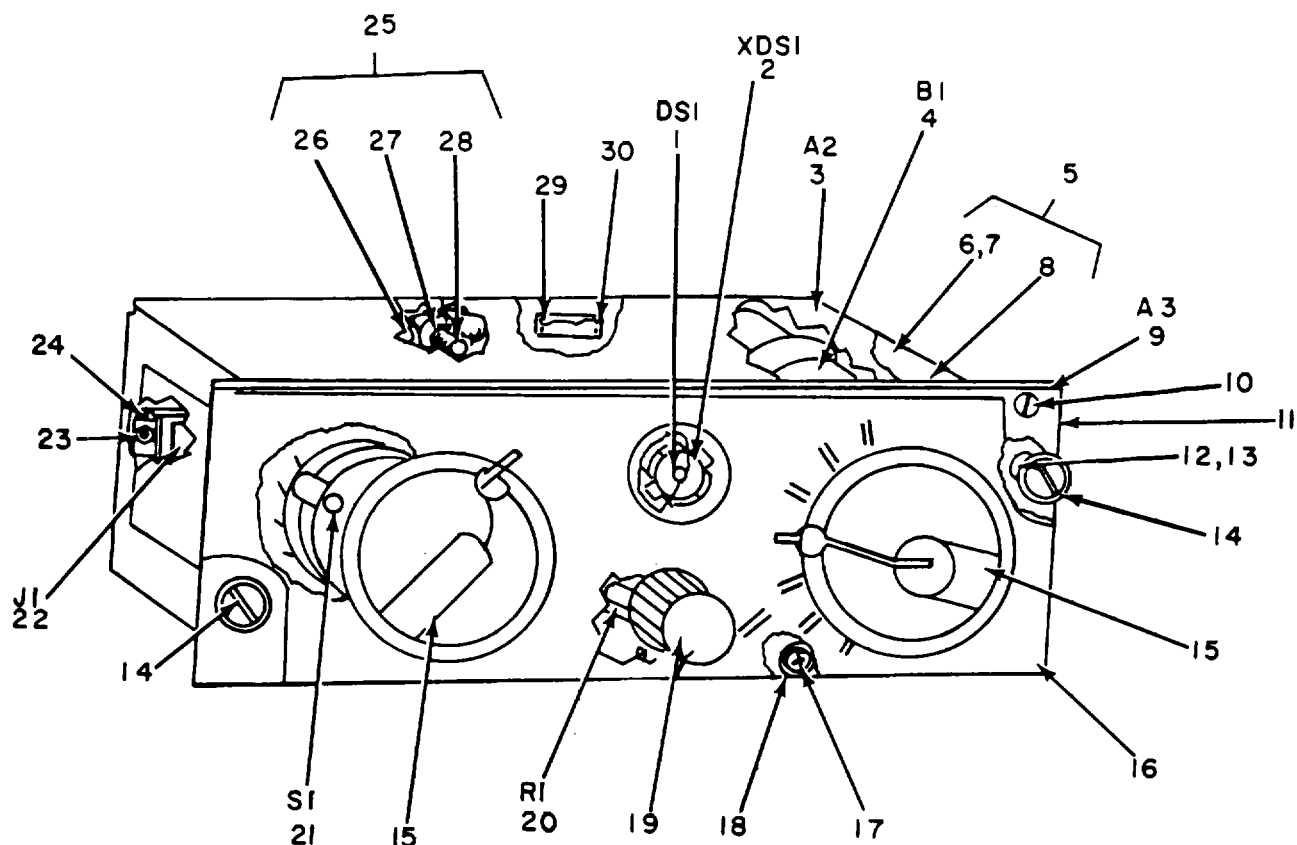
ELO05007

Figure 7. Geartrain Assembly (A1A2)

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
7	20	PAOZZ	5355-00-772-6589	563-4877-002	13499	GROUP 0102 GEARTRAIN ASSEMBLY (A1A2) KNOB,SETUP	EA	1
					17			



NOTE: FOR COMPLETE REFERENCE DESIGNATION
PREFIX WITH A2.

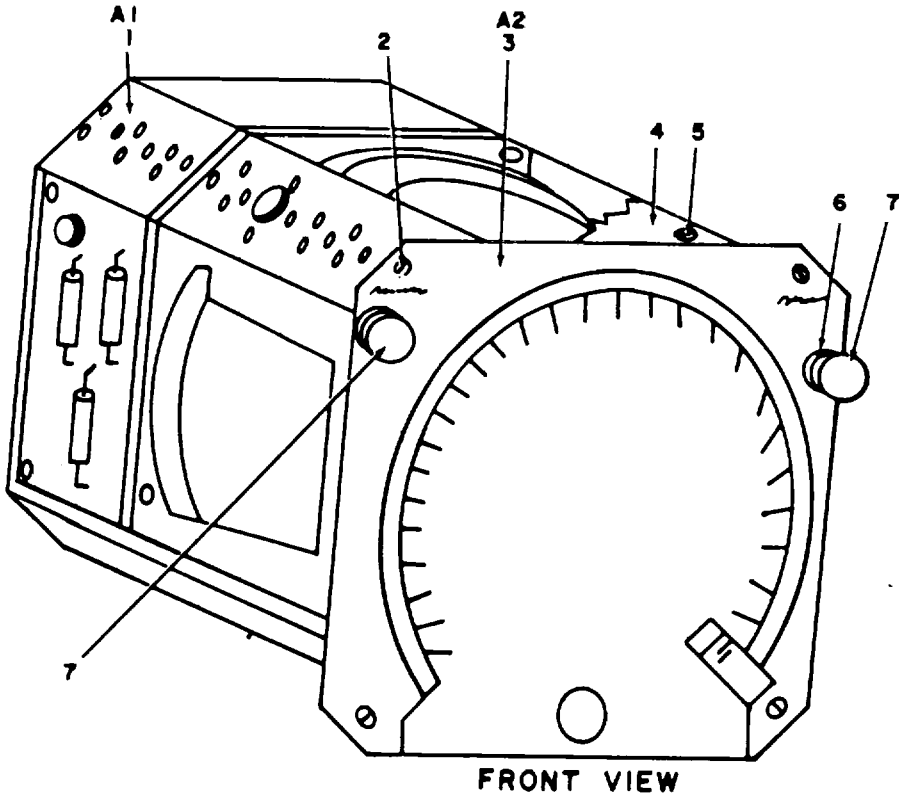
ELOOS009

Figure 8. Control, Radar Set C-4881/APN-158 (A2)

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 02 CONTROL,RADAR SET C-4881/APN-158 (A2)		
8	1	PADZZ	6240-00-080-2012	MS25237-327-15	96906	LAMP,INCANDESCENT.....	EA	1
8	15	PAOZZ	5355-00-993-0760	MS25169P2B	96906	KNOB	EA	2
8	19	PAOZZ	5355-00-850-9799	MS91528-0N1B	96906	KNOB	EA	1
					19			



NOTE: FOR COMPLETE REFERENCE DESIGNATION PREFIX WITH A3.

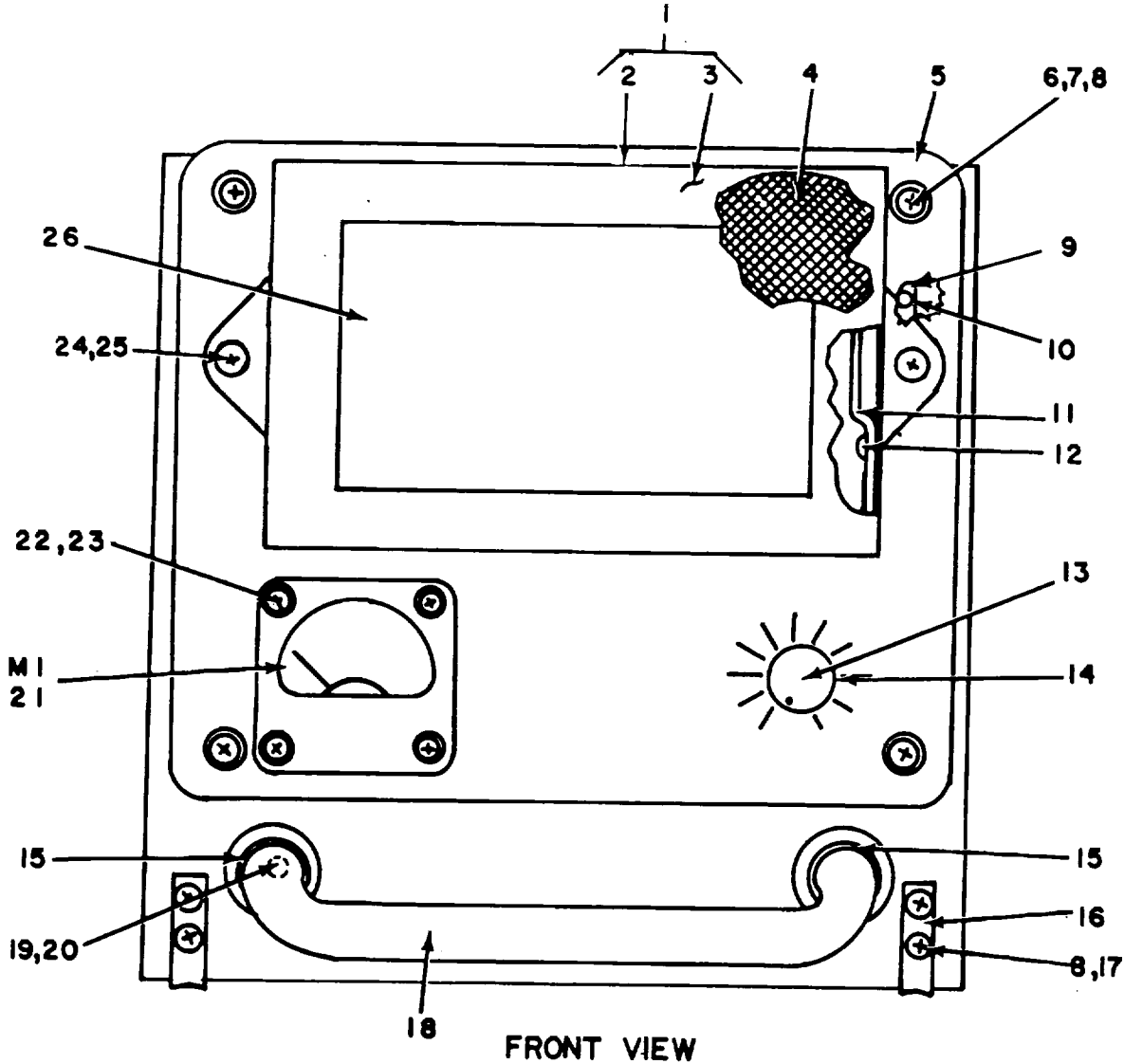
E L O O S O I O

Figure 9. Indicator, Azimuth-Range IP-724A/APN-158 (A3)

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
9	7	PAOZZ	5355-00-930-7487	565-5503-002	13499	GROUP 03 INDICATOR,AZIMUTH-RANGE IP-724A/APN-158 (A3) KNOB,SHOULDERED.....	EA	2
					21			



FRONT VIEW

NOTE: FOR COMPLETE REFERENCE DESIGNATION
PREFIX WITH A6.

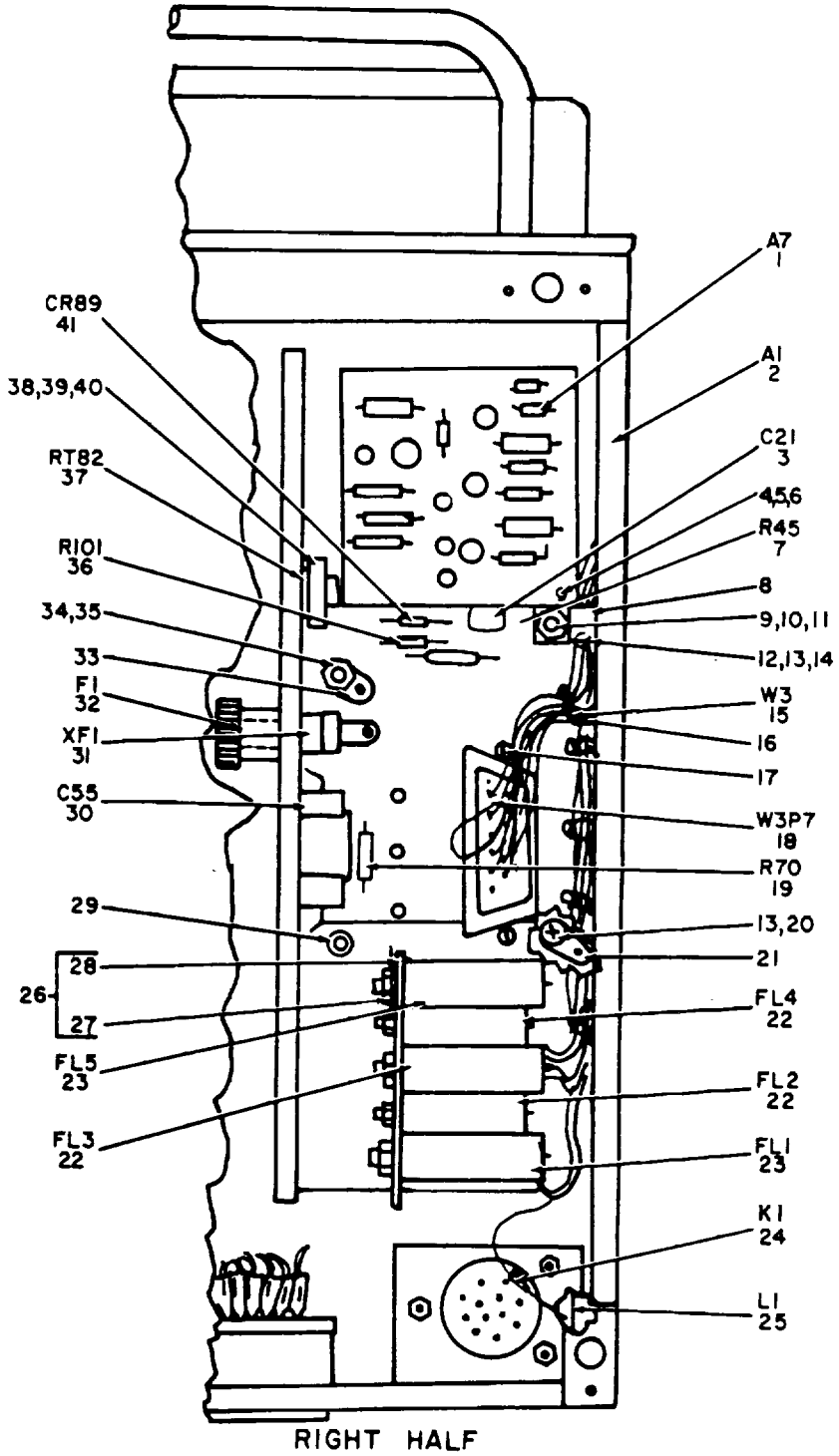
ELOOS025

Figure 10. Receiver-Transmitter, Radio RT-711A/APN-158 (A6)

SECTION II

TM 11 5841-241-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 06 RECEIVER-TRANSMITTER,RADIO RT-711A/APN-158 (A6)		
10	13	PAOZZ	5355-00-253-8895	757-0228-005	13499	KNOB,ROUND	EA	1
10	14	XDOZZ	5305-00-715-1251	MS51981-26	96906	SETSCREW	EA	2
10	26	PAOZZ	4130-00-245-0221	777-7778-001	13499	FILTER,AIR	EA	1
					23			



NOTE: FOR COMPLETE REFERENCE DESIGNATION
PREFIX WITH A6.

ELOOS029

Figure 11. Receiver-Transmitter, Radio RT-711A/APN-158 (6)

SECTION II

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(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION USABLE ON CODE	U/M	QTY INC IN UNIT
11	32	PAOZZ	5920-00-518-1793	F03A250V3AS	81349 25	FUSE,CARTRIDGE	EA	1

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NOTE: Latest National Stock Number assignments are included at end of index.

STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
6240-00-080-2012	3	1	5355-00-772-6589	2	27
6240-00-080-2012	8	1	5355-00-772-6589	7	20
5841-00-082-3538	1	1	5355-00-773-1590	5	9
5841-00-110-9847	6	1	5355-00-773-1611	4	31
4130-00-245-0221	10	26	5355-00-850-9799	3	19
5355-00-253-8895	10	13	5355-00-850-9799	8	19
5920-00-518-1793	11	32	5355-00-930-7487	4	31
5305-00-638-1883	5	10	5355-00-930-7487	9	7
5305-00-715-1251	10	14			

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
F03A250V3AS	81349	11	32	099-0032-000	00736	5	2
MS25169P2B	96906	3	13	335-0022-000	13499	5	10
MS25169P2B	96906	8	15	562-0521-002	13499	5	9
MS25237-327-15	96906	3	1	563-4877-002	13499	2	27
MS25237-327-15	96906	8	1	563-4877-002	13499	7	20
MS51981-26	96906	10	14	564-2628-002	95104	4	31
MS91528-0N1B	96906	3	19	565-5503-002	13499	4	31
MS91528-0N1B	96906	8	19	565-5503-002	13499	9	7
RT711AAPN158	80058	6	1	757-0228-005	13499	10	13
RT711APN158	80058	1	1	777-7778-001	13499	10	26

LATEST NATIONAL STOCK NUMBER ASSIGNMENTS

STOCK NUMBER	FIGURE NO.	ITEM NO.
5355-00-993-0760	3	13
5355-00-993-0760	8	15

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Official:

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Major General, United States Army
The Adjutant General

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