

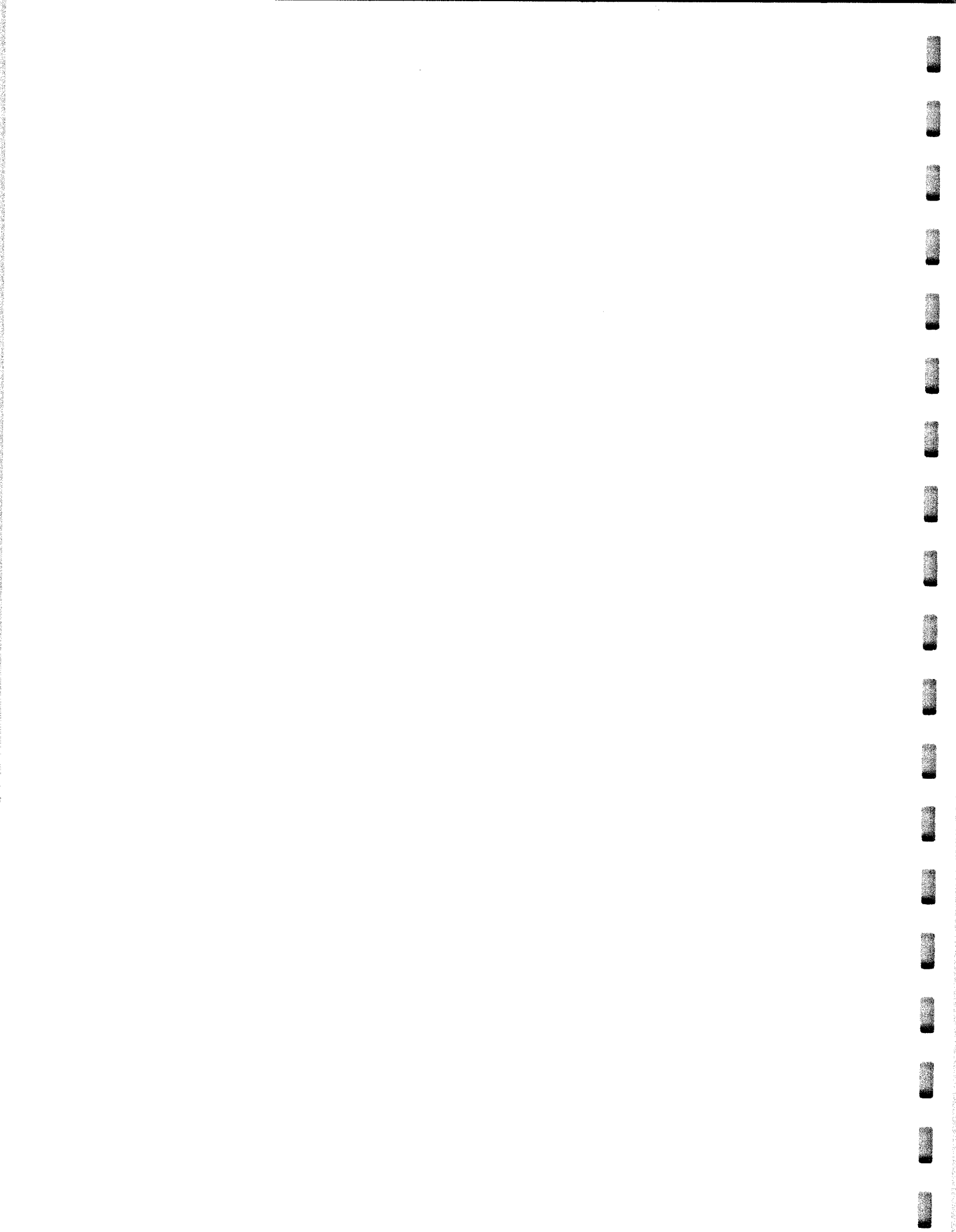
Class 69—Direction Finders

**CLASS 69
DIRECTION FINDERS**

**INCLUDES: LOOPS & LOOP ASSEMBLIES
PEDESTALS & HANDWHEELS, ETC.**

CONFIDENTIAL

NAVSHIPS 900,109



Class 69—Direction Finders

3.69-1

NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION	NAVY TYPE DESIGNATION	FIRST ASSIGNED FOR	NAVY DRAWING OR SPECIFICATION
CKD 69000 DM LOOP ASSEMBLY COMPLETE WITH HANDWHEEL AND AZIMUTH SCALE.			CRY 69005-B DO-3 LOOP PEDESTAL UPRIGHT TYPE.			CRY 69008 * SEE BELOW DECK BEARING FOR 1.90" DIAMETER SHAFTING.		
7/6/32 NOV. 41			8/25/33 NOV. 41			* DP-1, DP-2, DP-3. 11/8/34 NOV. 41		KX-280906
CRR 69001 CXP LOOP AND SHAFT			CRY 69005-C DO-3 CONTROL PEDESTAL			CRY 69009 DP-2, DP-3 CABLE DRUM 15-1/4" DIAMETER.		
3/29/33 NOV. 41			8/25/33 NOV. 41			11/8/34 NOV. 41		KX-280907
CRR 69002 CXP LOOP PEDESTAL			CRY 69005-X DO OR DO-1 LOOP PEDESTAL IMPROVED 69005 PEDESTAL FOR REPLACEMENT PURPOSES.			CRY 69010 DP-1 UNIVERSAL JOINT FOR 1.90" DIAMETER SHAFTING.		
3/29/33 NOV. 41			1/4/37 NOV. 41			11/8/34 NOV. 41		KX-280908
CRY 69003 DO - DO-1 LOOP 24" CIRCULAR.			CRY 69006 DP.-1,2,3 LOOP 24" DIAMETER. 60 MICROHENRIES ± 1%.			CRY 69011 DP.-1,2,3 OPERATING PEDESTAL 33" HIGH.		
8/25/33 NOV. 41			11/8/34 DEC. 41		KX-280905	11/8/34 NOV. 41		KX-280909
CRY 69003-X DO OR DO-1 LOOP IMPROVED 69003 LOOP FOR REPLACEMENT PURPOSES.			CRY 69006-A DP-4, 5, 6 LOOP ASSEMBLIES			CRY 69012 DP.-1,2,3,DQ HAND WHEEL 15" DIAMETER, WOODEN RIM AND SPOKES. CROSS-SECTION OF RIM IS CIRCULAR.		
1/4/37 NOV. 41			11/25/36 NOV. 41		T-601567-501	11/8/34 DEC. 41		KX-280910
CRY 69004 DO-2 - DO-3 LOOP 34" SQUARE.			CRY 69007 DP.-1,2,3 LOOP PEDESTAL			CRY 69012-A * SEE BELOW HAND WHEEL 15" OVERALL DIAMETER. SAME AS BASIC NUMBER EXCEPT RIM AND SPOKES ARE OF PHENOLIC MATERIAL AND CROSS-SECTION OF RIM IS ELLIPTICAL.		
8/25/33 NOV. 41			11/8/34 NOV. 41		KX-280905	* DP-12, 13; DQ-5. 6/26/41 NOV. 41		K-866351-501 SUB 0
CRY 69005 DO, DO-1, DO-2 LOOP PEDESTAL UPRIGHT TYPE.			CRY 69007-A DP-4, 5 & 6 LOOP PEDESTAL			CRY 69013 DP.-1,2,3,DQ AZIMUTH SCALE 10" DIAMETER - 5/8" FACE.		
8/25/33 NOV. 41			11/25/36 NOV. 41			11/8/34 NOV. 41		KX-280911
CRY 69005-A DO-2 LOOP PEDESTAL INVERTED TYPE.			CRY 69007-B DP-7 & DP-8 LOOP PEDESTAL			CRY 69014 DQ LOOP 24" DIAMETER.		
8/25/33 DEC. 41		T-601567-501	7/24/37 NOV. 41			11/8/34 NOV. 41		T-601545

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CRV 69014-A DQ-1 LOOP ASSEMBLY			CKD 69020 DR LOOP LOOP #2: 928 TO 7480 KC, 14-1/2" DIA.			RA-69028 OC LOOP COLLECTOR UNIT		
11/25/36 NOV. 41	T-601567-501		3/11/37 NOV. 41			2/3/39 NOV. 41		
CRV 69015 LOOP PEDESTAL (CANCELLED).			CKD 69021 DR LOOP LOOP #3: 7480 KC TO 18,000 KC, 8-3/8" DIAMETER.			CRV 69029 DZ LOOP MOUNTING PEDESTAL		
NOV. 41			3/11/37 NOV. 41			11/20/39 NOV. 41	M-420742 REV 1 M-420745 REV 1	
CRV 69016 DQ PRESSURE HULL FITTING			CRR 69022 CYT DIRECTION FINDER FREQUENCY RANGE 200 TO 1500 KC INCLUSIVE			CRV 69030 DZ LOOP PEDESTAL EXTENSION		
11/8/34 NOV. 41	T-601345		7/10/37 NOV. 41			11/20/39 NOV. 41	M-420742 REV 1 M-420745 REV 1	
CRV 69016-A DQ-1 PRESSURE HULL FITTINGS			CRR 69023 GQ LOOP FOR USE WITH CRR-46057 RECEIVER FOR HOMING.			CRV 69031 DZ LOOP ANTENNA		
11/25/36 NOV. 41			10/30/37 NOV. 41			11/20/39 NOV. 41	M-420745 REV 4 P-720414 REV 3	
CRV 69017 DQ COLLECTOR RING ASSEMBLY			CRR 69024 DU LOOP & AZIMUTH UNIT			RW-69032 DT & DT-1 DIPOLE ANTENNA TWO REQUIRED PER EQUIPMENT.		
11/8/34 NOV. 41	T-601345		1/19/38 L-70405 NOV. 41	L-70405		11/24/39 NOV. 41		
CRV 69017-A DQ-1 COLLECTOR RING ASSEMBLY			CRR 69025 DV & DW PLUG IN LOOP			RW-69033 DT & DT-1 DIPOLE SUPPORTING ARM WITH HANDWHEEL TO FACILITATE ROTATION DIPOLE ANTENNA WITH THE SUPPORTING ARM AS AN AXIS.		
11/25/36 NOV. 41			1/19/38 L-70404 NOV. 41	L-70404		11/24/39 NOV. 41		
CRR 69018 DS LOOP ASSEMBLY	RW 13A 136		CRR 69026 CXS PLUG IN LOOP 15 TO 1500 KC.			RW-69034 DT & DT-1 DIPOLE SUPPORTING ARM SAME AS RW-46033 LESS HANDWHEEL.		
8/4/36 NOV. 41			7/11/38 NOV. 41	B-13023		11/24/39 NOV. 41		
CKD 69019 DR LOOP LOOP #1: 200 TO 928 KC, 14-1/2" DIA.			CRR 69027 DW AZIMUTH SCALE AND ROTATING MECHANISM.			RW-69035 DT DIRECTION FINDER UNIT CONSISTS OF METAL CABINET HOUSING TWO -19019 STORAGE BATTERIES, ONE RW-20067 VIBRATOR POWER UNIT, ONE RW-23157 SWITCH PANEL, ONE RW-46063 RECEIVER UNIT AND TWO CRA-49108 LOUDSPEAKERS.		
3/11/37 NOV. 41			1/20/38 L-70406 NOV. 41	L-70406		11/24/39 NOV. 41		

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RW-69035-A DT-1 DIRECTION FINDER UNIT SAME AS RW-69035 EXCEPT INCLUDES A RW-20092 VIBRATOR POWER UNIT IN LIEU OF A RW-20067 UNIT. THESE POWER UNITS ARE ELECTRICALLY AND MECHANICALLY INTER-CHANGEABLE.	11/24/39 NOV. 41		RW-69043 DY DIRECTION FINDER UNIT CONSISTS OF METAL CABINET HOUSING TWO -19019 BATTERIES, ONE RW-20093 VIBRATOR POWER UNIT, ONE RW-46089 RECEIVER AND ONE CRA-49108 LOUDSPEAKER.	11/24/39 NOV. 41		CRV 69051 DQ-3 LOOP ASSEMBLY: FREQUENCY RANGE 150 TO 1500 KC. SAME AS NAVY TYPE 69048 EXCEPT FOR PEDESTAL LENGTH WHICH IS 16 FT. 7 IN. (INCLUDES SAME LOOP COUPLING TRANSFORMER.)	1/22/40 APR. 42	K-856321 SUB 1
RW-69036 DT & DT-1 ROTATING MECHANISM.			RW-69044 DY ROTATING MECHANISM AND RECEIVER CONTROL UNIT.			CRR 69052 DW-1 PLUG IN LOOP INDUCTANCE: 20.5 ± 1 MICROHENRIES. DISTRIBUTED CAPACITY 20 MMF OR LESS.		
	11/24/39 NOV. 41			11/24/39 NOV. 41			4/24/40 NOV. 41	L-71934C
RW-69037 DT & DT-1 AZIMUTH SCALE FOR USE WITH TYPE RW-69036 ROTATING MECHANISM.			CRR 69045 RAP LOOP ANTENNA FREQUENCY RANGE 150 TO 1500 KC.			CRR 69053 DW-1 AZIMUTH DIAL & ROTATING MECHANISM.		
	11/24/39 NOV. 41			12/6/39 NOV. 41	L-71139 B REV 2		4/24/40 NOV. 41	L-71935A
RW-69038 DT & DT-1 HANDWHEEL FOR USE WITH TYPE RW-69036 ROTATING MECHANISM.			CRV 69046 DP-9 & DP-10 LOOP ASSEMBLY FREQUENCY RANGE 100 TO 1500 KC.			CRR 69054 DU-1 LOOP AND AZIMUTH UNIT INDUCTANCE: 20.5 ± 1 MICROHENRIES. DISTRIBUTED CAPACITY 20 MMF OR LESS. HAS A 200 MMF CAPACITOR CONNECTED ACROSS THE LOOP WINDING AT THE SLIP RING TERMINALS.		
	11/24/39 NOV. 41			12/15/39 NOV. 41	T-620135-501 REV 1		4/24/40 NOV. 41	L-71952A
RW-69039 DY DIPOLE ANTENNA FOR USE WITH 12 FOOT SUPPORTING ARM. TWO REQUIRED PER EQUIPMENT.			CRV 69047 DP-9 & DP-10 LOOP PEDESTAL ASSEMBLY			RW-69055 DY-1 DIPOLE ANTENNA FOR USE WITH 12 FOOT SEPARATING ARM. TWO REQUIRED PER EQUIPMENT.		RW 69F 152A
	11/24/39 NOV. 41			12/15/39 NOV. 41	TT-620045-502 REV 3		6/24/40 NOV. 41	
RW-69040 DT 12 FOOT DIPOLE SUPPORTING ARM. FOR SUPPORTING TYPE RW-69039 DIPOLE ANTENNA.			CRV 69048 DQ-3 LOOP ASSEMBLY FREQUENCY RANGE: 150 TO 1500 KC. SIMILAR TO NAVY TYPE -69014A EXCEPT FOR ADDITION OF LOOP COUPLING TRANSFORMER IN LOWER PART OF LOOP AND FOR PEDESTAL LENGTH WHICH IS 5 FEET.			RW-69056 DY-1 12 FOOT DIPOLE SUPPORTING ARM.		RW 69F 153A
	11/24/39 NOV. 41			12/20/39 APR. 42	X-856321 SUB 1		6/24/40 NOV. 41	
RW-69041 DY DIPOLE ANTENNA FOR USE WITH 28 FOOT SUPPORTING ARM. TWO REQUIRED PER EQUIPMENT.			CRV 69049 DQ-3 LOOP ASSEMBLY: FREQUENCY RANGE 150 TO 1500 KC. SAME AS NAVY TYPE 69048 EXCEPT PEDESTAL LENGTH WHICH IS 14 FEET 9-3/4" INCHES. (INCLUDES SAME LOOP COUPLING TRANSFORMER.)			RW-69057 DY-1 ROTATING MECHANISM AND RECEIVER CONTROL UNIT.		RW 69F 147A RW 69F 157A
	11/24/39 NOV. 41			1/22/40 APR. 42	K-856321 SUB 1		6/24/40 NOV. 41	
RW-69042 DY 28 FOOT DIPOLE SUPPORTING ARM. FOR SUPPORTING TYPE RW-69041 DIPOLE ANTENNA.			CRV 69050 DQ-3 LOOP ASSEMBLY FREQUENCY RANGE: 150 TO 1500 KC; SAME AS NAVY TYPE -69048 EXCEPT PEDESTAL LENGTH WHICH IS 14 FEET, 2-3/4 INCHES. (INCLUDES SAME LOOP COUPLING TRANSFORMER.)			RW-69058 DY-1 DIRECTION FINDER UNIT CONSISTS OF A METAL CABINET HOUSING THE FOLLOWING UNITS: SHAFT EXTENSION, 2 TYPE CES-19019 BATTERIES, ONE TYPE RW-20093 VIBRATOR POWER UNIT, ONE TYPE RW-46089 RECEIVER UNIT & ONE TYPE CRA-49108 LOUDSPEAKER.		RW 69F 154A RW 69F 156A
	11/24/39 NOV. 41			1/22/40 APR. 42	K-856321 SUB 1		6/24/40 NOV. 41	

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NAVSHIPS 900,109

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CDE 69059 YD MARKER BEACON LOOP FOR USE IN CONNECTION WITH MOTOR LAUNCH OPERATION ONLY.	3/23/40 NOV. 41	2598 ALT 1	CRY 69067 DZ-2 LOOP ANTENNA SAME AS - 69031 EXCEPT FOR RELAY IN BASE, WHICH IS WOUND FOR 24 VOLTS.	3/18/41 NOV. 41	M-420745 REV 4	RA 69075 GEN'L SERVICE DIF ADAPTER UNIT FOR RAK/RAL RECEIVERS: FREQ RANGE 100 - 1500 KC. FOR COUPLING A DQ-5 DIRECTION FINDER LOOP TO AN RAK/RAL SERIES RECEIVERS. DE- VELOPED BY NRL IN EMERGENCY TO COMPLETE SUBMARINE EQUIPMENTS. ONLY FIVE BUILT.	2/9/42 MAR. 42	
CU- 69060 ZB HOMING ADAPTER FREQUENCY RANGE 234 TO 258 MC USED IN CONNECTION WITH RU-SERIES RECEIVERS TO PROVIDE HOMING. INCLUDES 4 TYPE -954 VACUUM TUBES; ONE DETECTOR & 3 STAGES OF RF.	10/17/40 NOV. 41	ESR-677839 ISSUE 4	CRY 69068 DZ-2 LOOP MOUNTING PEDESTAL SAME AS -69029 EXCEPT USES AN INVERTED AZIMUTH SCALE SO THAT PEDESTAL AND EXTENSION MAY BE MOUNTED THROUGH THE BOTTOM OF THE CRAFT.	3/18/41 NOV. 41	M-420745 REV 4	69076 ZB-2 & 3 HOMING ADAPTER: FREQUENCY RANGE 234 TO 258 MC. USED IN CONNECTION WITH MODEL RU SERIES, RECEIVERS TO PRO- VIDE HOMING INCLUDES 4 TYPE 954 VACUUM TUBES, ONE AS A DETECTOR AND 3 AS RF AMPLIFIERS. SAME AS -6960 EXCEPT SUB- STITUTES A RECEPTACLE FOR USE WITH PT-5 5/23/42 (CZR-CW) JUNE 42	69076	TRANSMISSION CABLE.
RW- 69061 DY-2 14 FOOT DIPOLE SUPPORTING ARM. FOR SUPPORTING RW-69055 DIPOLE ANTENNA.	12/13/40 NOV. 41		CDE 69069 YD-1 MARKER BEACON LOOP:	7/1/41 APR. 42	2987 REV 0	CIA 69077 DAG PLUG-IN-LOOP: FREQUENCY RANGE 1.5 TO 10.2 MC.	6/1/42 AUG. 42	
RW- 69062 DAA 24 FOOT DIPOLE SUPPORTING ARM. FOR SUPPORTING RW-69041 OR RW-69071 DIPOLE ANTENNAS.	12/13/40 NOV. 41		RW- 69070 DY-3 RW 46F 765A DIRECTION FINDER UNIT CONSISTS OF CABINET HOUSING, SHAFT EXTENSION, TWO TYPE -19019 BATTERIES ONE TYPE -20116 VIBRATOR POWER UNIT, ONE TYPE -46134 RADIO RECEIVER AND TYPE -49108 LOUDSPEAKER.	8/29/41 NOV. 41		CRG 69078 DAP PLUG-IN-LOOP: FREQUENCY RANGE .80 TO 1000 KC.	6/9/42 102-L AUG. 42	
RW- 69063 DY-2 & DAA DIRECTION FINDER UNIT CONSISTS OF CABINET HOUSING, SHAFT EXTENSION, TWO -19019 BATTERIES, ONE -20116 VIBRATOR POWER UNIT, -46119 RECEIVER UNIT, -49108 LOUDSPEAKER.	12/13/40 NOV. 41		RW- 69071 DY-3 RW 69F 188A DIPOLE ANTENNA ADJUSTABLE LENGTH; FOR USE IN CONNECTION WITH 14 OR 28 FOOT SUPPORTING ARMS.	8/29/41 NOV. 41		CRG 69079 DAP PLUG-IN-LOOP: FREQUENCY RANGE 1000 TO 3500 KC.	6/9/42 102-S AUG. 42	
CRY 69064 DZ-1 LOOP DRIVE ASSEMBLY INCLUDES HANDWHEEL, BRAKE, AZIMUTH SCALE, AND LOOP SHUDDER RELAY.	2/4/41 NOV. 41	P-720700 SUB 0	RW- 69072 DY-3 RW 69F 189A 14 FOOT DIPOLE SUPPORTING ARM. FOR SUPPORTING NAVY TYPE -69071 DIPOLE ANTENNA SAME AS -69061 EXCEPT FOR SUBSTITUTION OF 4" ALUMINUM TUBING.	8/29/41 NOV. 41		COL 69080 DAB.-1 LOOP ASSEMBLY: CONSISTS OF LOOPS, SUPPORTING FRAME FOR LOOPS AND TYPE COL-46177 RADIO RECEIVER MOUNTS ON MOUNTING FLANGE, MANUALLY ROTATED.	6/12/42 AUG. 42	K942C. REV 0 DATED 4/5/42
CRY 69065 DZ-1 LOOP ASSEMBLY INCLUDES TWO ORTHAGONALLY MOUNTED LOOPS, COLLECTOR RING AND BRUSH ASSEMBLY IN A STREAMLINE HOUSING ON AN ALUMINUM MOUNT- ING BASE.	2/4/41 NOV. 41	P-720700 SUB 0	CRY 69073 DQ-6 LOOP ASSEMBLY: FREQ. RANGE 100 TO 1500 KC. SAME AS TYPE CRY-69051 EXCEPT LOOP COUPLING TRANSFORMER IN BASE OF LOOP IS OMITTED.	9/4/41 APR. 42	K-856321 SUB 1	CRG 69081 DZ-2A LOOP DRIVE ASSEMBLY: INCLUDES HANDWHEEL, BRAKE, AZIMUTH SCALE AND LOOP SHUDDER RELAY. SAME AS CRY-69064 EXCEPT AZIMUTH SCALE IS IN- VERTED.	6/21/42 AUG. 42	HI-8961-E
RW- 69066 RAC-1 LOOP FREQUENCY RANGE 12 TO 80 KCS.	2/7/41 NOV. 41		CRG 69074 DAB LOOP ASSEMBLY FREQUENCY RANGE 240 TO 2000 KC. IN- CLUDES DECKPLATES, DECK BEARING, AZIMUTH SCALE, HANDWHEEL, AND MOUNTING BOLTS.	3/23/41 MAR. 44	TS-180 10/6/41			

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3.69-5

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RA 69082 DAR
CROSS LOOP ASSEMBLY:
SIZE APPROX 5 FT. CUBE. INCLUDES VERTICAL ANTENNA AND COUNTERPOISE. FREQ. RANGE 1 TO 20 MC. BRITISH TYPE S25. ADM. PATTERN NO. W2610 MODIFIED.

8/17/42 SEE DESCRIPTION
AVG. 42

CFT 69083 DAQ
CROSSED LOOPS AND SENSE
ANTENNA ASSEMBLY: FREQ. RANGE: 1.5 TO 22 MC.

8/29/42 RF-954-12A
NOV. 43

CFT 69083-A X-DAU
CROSSED LOOPS AND SENSE
ANTENNA ASSEMBLY: FREQUENCY RANGE: 1.5 TO 22 MC. SAME AS CFT-69083 EXCEPT ADJUSTMENT OF SENSE BALANCING CONDENSER MAY BE MADE FROM THE BASE OF THE LOOP INSTEAD OF FROM THE APEX OF LOOP.

12/18/43
FEB. 44

CFT-69083-B DAV & DAQ
CROSSED LOOPS AND SENSE ANTENNA ASSEMBLY: FREQUENCY RANGE: 1.5 TO 22 MC. ADJUSTMENT OF SENSE BALANCING CONDENSER MAY BE MADE FROM THE BASE OF THE LOOP. SAME AS NAVY TYPE -69083-A EXCEPT HAS DIFFERENT AND IMPROVED TYPE TOP HAT INSULATOR.
3/21/45 4826-14
JUN. 45

CFT-69083-C DAV & DAQ
CROSSED LOOPS AND SENSE ANTENNA ASSEMBLY: FREQUENCY RANGE: 1.5 TO 22 MC. ADJUSTMENT OF SENSE BALANCING CONDENSER MAY BE MADE FROM BASE OF LOOP. SAME AS -69083-A EXCEPT HAS BEEN WEATHERPROOFED.
CANCELLED

4/17/45
JUN. 45

CFT 69084 DAK
CROSS LOOP & SENSE
ANTENNA ASSEMBLY.

10/5/42 CFT:F-42359-14C
NOV. 43

CGQ 69085 DAP
LOOP ASSEMBLY:
OUTSIDE DIAMETER: 15". WINDING IS OF LITZ WIRE WOUND ON A 1/16" THICK BAKE-LITE FORM. CONTAINS AZIMUTH SCALE FOR BEARING PLOTTING AND A JACK PERMANENTLY ATTACHED FOR ELECTRICAL CONNECTION. MOUNTED IN BEARING AND MAY BE CONTINUED.
11/21/42
SEPT 43

CGQ 69085
USEFULLY ROTATED IN EITHER DIRECTION BY MEANS OF HANDLES ATTACHED AT THE BASE.

69086
CANCELLED

SEPT 43

CRH 69087 DAE-1
LOOP ASSEMBLY:
FREQ RANGE: 240 TO 1000 KC. INCLUDES AZIMUTH SCALE BRAKE KNOB AND CONNECTOR FOR RF CABLE TO RECEIVER. MAY BE EITHER TABLE OR BULKHEAD MOUNTED. FUNCTIONALLY THE SAME AS TYPE -69074 BUT IS FOR INSIDE MOUNTING.
*TCG:36000
7/16/43 CRM:KS-213
MAR. 44 SUB 0

CN-69088 DAV
DIRECTION FINDER ADAPTER:

8/24/43
NOV. 43

CFT 69089 DAK-2
CROSS-LOOP ANTENNA:

8/27/43
SEPT 43

CFT 69090 FOR USE WITH OAN
TEST LOOP ASSEMBLY:
LOOP PLUS X MISSION LINE.

8/31/43
MAR. 44

CN-69091 DAV-1
DIRECTION FINDER ADAPTER
SIMILAR TO -69088 EXCEPT FOR POSITION OF RECEPTACLES.

12/4/43
FEB. 44

CRH 69092 DAE-2
LOOP ASSEMBLY
FREQ RANGE: 240 TO 2000 KC. SAME AS -69074 EXCEPT INCLUDES PEDESTAL.

12/30/43
FEB. 44

CCI-69093 DAV-2
LOOP & SWITCHING UNIT
FREQUENCY RANGE: 2.3 TO 4.5 MC. INCLUDES CABLE HARNESS AND ANTENNA CABLE. TWO SWITCHES. PLUGS INTO THE TYPE -43063 RADIO TRANSMITTER-RECEIVER AND FITS THE TYPE -10344 CARRYING CASE.

5/24/44 164-LX 164-L-501
NOV. 44 REV C

CIA 69094 DBA
ROTATING LOOP ASSEMBLY
FREQ. RANGE 1.5 TO 30 MC. CONSISTS OF A TRIPOD, ROTATING LOOP ASSEMBLY, -10210 COMPASS & SENSE ANTENNA.

11/9/44
JAN. 45

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NAVSHIPS 900,109

