



# **Troubleshooter Index No. 1**

**(FOR YEARS 1958 THROUGH 1962)**

1 FEBRUARY 1963

COG I STOCK NO. 0618-250-0010

# THE TROUBLESHOOTER

Published by the Naval Mine Engineering Facility, Yorktown, Virginia.  
Frederick F. Jewett, CDR, USN.....Officer-in-Charge  
Haines A. Miller.....Technical Director  
Frank N. Potter.....Editor  
Roland R. Rollins.....Art Director

By direction of the Chief, Bureau of Naval Weapons, Troubleshooter is an official BUWEPS publication. Technical content pertinent to the assembly, testing, and delivery of US naval depth charges and mines is both authoritative and directive in nature, and reference may therefore be made to a particular issue as the authority for adoption of ideas promulgated therein. Content which does not fall in this category is reasonably verified before publication but is not to be considered official nor representative of official BUWEPS doctrine.

Troubleshooter is also the official journal of the Rudminde Program, a world-wide defect-reporting campaign designed to promote a high level of under-sea warfare readiness in US naval depth charges and mines. The Program's basic instrument is NAVORD Form 2776. Everyone who encounters problems with these weapons is encouraged to report them via this form direct to the Naval Mine Engineering Facility as prescribed by NAVORDINST 8500.7.

Troubleshooter is published quarterly by the Naval Mine Engineering Facility's Publications Division and printed by NPPSO-5ND, as approved by the Secretary of the Navy on 21 February 1962. Contributions, questions, address changes, and requests for regular distribution should be addressed to: Editor, The Troubleshooter, Naval Mine Engineering Facility (Code Ts-2a), Yorktown, Virginia, U.S.A. Request copies of back issues from the Naval Supply Depot, 5801 Tabor Ave., Philadelphia, as instructed in NAVSANDA Publication 2002.

THE OFFICIAL JOURNAL OF THE RUDMINDE PROGRAM

## *about this index...*

If you have the following copies of the TROUBLESHOOTER, you have a complete file of all issues from 1958 through 1962, those covered by this index: 1-58; 1,2-59; 1,2,3,4-60; 1,2,3,4-61; 1,2,3,4-62.

Basically, this index is an alphabetical reference listing of mine and depth-charge components, items, and associated equipment such as tools and test sets. In seeking TROUBLESHOOTER information regarding parts, components, construction, operation, repair, modification, maintenance, storage, disposal, installation, assembly, tools and equipment, testing, tolerances, troubles, or what have you, first look for a listing of the item involved; if you don't find it, keep looking under the next larger part or component involved. For example; washers, fiber are listed under extenders and clock starters; piston retraction is under arming devices; refrigeration is under batteries, pressure detectors, and firing mechanisms (you wouldn't refrigerate a firing mechanism, but there is a question about refrigerating the condensers used in firing mechanisms). So that's how it works. Start with the specific item and work up through the larger components involved until you have checked through the general categories of mines and depth charges.

In using this index, remember that it's best to refer to the latest issues of the TROUBLESHOOTER first. If, for instance, the 4-62 issue has what you're looking for, don't look further in this index. Earlier issues may contain information not in line with the latest developments or policy. As future indexes are published, one for each year, the latest one is the one you should refer to first.

Because it covers so many issues, we've tried to keep Index No. 1 simple yet helpful, with a minimum of cross referencing. In printing it, we've left generous spacing between items so that you can write in whatever cross referencing you may wish. More importantly, however, you can use this space to enter items from the forthcoming 1963 issues, such as the revised bibliography in 1-63. This will give you a running index to serve until we distribute Index No. 2. Also, you might like to circle page numbers in this index to indicate where helpful illustrations appear.

This index has long been needed. We've told you that we'd get it out just as soon as we had the time and personnel available. Recently, we added a new man to our staff. This index is the first task we gave him to do. We feel that he did a fine job. Glance through it now to get an idea of what it contains and how it's been put together. It may save you time later. After you've tried looking up a few references, drop us a line to let us know what you think of it. We're not asking for orchids; the onions will be more helpful.

*The Editor*

	ISSUE	PAGE		ISSUE	PAGE
<b>ANCHORS</b>					
Mk 6, cotter pin . . . . .	3-61	4	ARMING-WIRE SAFETY LOCKS		
Mk 6-5, numerous defects . . . . .	1-59	2	Inspection and handling . . . . .	2-62	17
sleeve, pawl rod . . . . .	4-62	4	4-61	14	
Mk 10, mooring cable extension . . .	1-61	7	1-59	2	
Mk 10-5, camshaft springs . . . . .	1-60	4	Shipping . . . . .	4-60	3
Mk 16, cotter pin . . . . .	3-61	4	Special wrench . . . . .	4-61	7
Mk 16-1, brake flanges . . . . .	1-60	4	<b>BATTERIES</b>		
pawl assembly . . . . .	1-60	4	Crushing in Mine Mk 36-1 . . . . .	2-61	11
Mk 53-0, support ring . . . . .	1-58	2	Dry . . . . .	1-59	7
hoisting lug . . . . .	1-58	2	Exudate . . . . .	3-60	19
<b>AIR DRYERS</b>					
Oven . . . . .	1-60	4	History cards . . . . .	1-59	24
Retainer for Mine Mk 36 . . . . .	2-59	7	Refrigeration . . . . .	4-61	5
Mk 7-0, 1, installing . . . . .	3-60	18	1-61	11	
Mk 7-1, container, plastic . . . . .	2-60	17	Tape, retracting . . . . .	3-60	3
Mk 10-0, alternate item . . . . .	2-60	9	1-60	5	
Mk 10-1, installing . . . . .	2-60	4	Terminal clearance . . . . .	3-60	18
<b>ARMING DEVICES</b>					
Mk 5, washer, steel . . . . .	4-61	15	BA-205/U, installing . . . . .	1-5	2
Mk 5-0, flange thickness . . . . .	2-60	4	positioning . . . . .	3-61	6
piston retraction . . . . .	1-61	4	TB card installation . . . . .	4-60	3
repairing . . . . .	1-61	4	BA-236/U, leakage test . . . . .	4-60	3
<b>ARMING WIRES</b>					
Orientation . . . . .	4-61	7	BA-239/U, load voltage . . . . .	1-59	2
	1-58	7	BA-241/U, history card . . . . .	4-60	3
Installation . . . . .	1-61	13	testing . . . . .	2-59	4
Mk 2-0, eyes . . . . .	1-59	2	BA-248/U, load test . . . . .	2-60	4
			low voltage . . . . .	2-60	11
			testing . . . . .	1-59	2
			BA-249/U, exudate . . . . .	3-61	10
				4-60	3
			internal short . . . . .	1-58	2
			BA-250/U, history card . . . . .	1-60	4
			over age . . . . .	4-60	3

	ISSUE	PAGE		ISSUE	PAGE
BA-251/U, history card . . . . .	4-60	3	CA-410, lead markings . . . . .	1-58	2,22
BA-271/U, history card . . . . .	1-60	4	CA-422, lugs . . . . .	1-58	2
BA-311/U, low voltage . . . . .	1-58	2	CA-470, markings . . . . .	2-62	16
BA-340/U, RTP requirements . . . . .	3-61	4	CA-529, instead of CA-726 . . . . .	2-61	5
BA-1322, exploding . . . . .	4-60	3	lugs . . . . .	1-58	2
BIBLIOGRAPHY . . . . .	2-62	8	markings . . . . .	3-60	2,6
BOOSTERS			CA-531, strain loop . . . . .	2-62	5
Insulation test . . . . .	4-62	10	CA-585, strain loop . . . . .	4-62	3
	2-59	8	CA-631, strain loop . . . . .	4-61	3
Mk 6-0, 1, air pressure test . . . . .	1-59	2	CA-652, amphenol connector . . . . .	4-60	13
Mk 6-4, exudate . . . . .	4-60	12	guide . . . . .	4-60	3
CABLES			mating w/CA-564 . . . . .	1-61	4
Temp for Mine Mk 36-2 . . . . .	1-58	2	CA-656, markings . . . . .	2-60	10
Clock cable . . . . .	3-62	6	CA-726, should be CA-529 . . . . .	2-61	5
	4-60	16	CA-779, various defects . . . . .	4-60	3
Lugs, flag-type . . . . .	1-60	13		3-60	2
CA-16, installation . . . . .	2-60	11	CA-785, insulation . . . . .	1-58	2
CA-23, installation . . . . .	2-60	11	CA-831, connector pins . . . . .	3-60	2
CA-30, terminal lugs . . . . .	1-60	18	CA-904, OP 1860 listing . . . . .	3-60	5
	2-59	4	wrong identification . . . . .	1-62	5
CA-93, connections . . . . .	1-60	4,5	CA-919, modification . . . . .	3-60	6
CA-211, terminal lugs . . . . .	1-58	2	CA-951, plastic moulding . . . . .	4-60	3
	strain loop . . . . .	1-58	CA-958, lugs . . . . .	1-60	18
CA-233, connectors . . . . .	1-58	20	water stop . . . . .	1-58	10
CA-275, strain loop . . . . .	1-58	2,22	CA-959, installation . . . . .	3-60	18
CA-308, lead markings . . . . .	1-61	4	CASES, MINE		
CA-338, terminal lugs . . . . .	2-59	4	Cleaning and restenciling . . . . .	3-62	13
CA-365, colored leads . . . . .	4-60	11		2-61	6
CA-404, lugs . . . . .	2-62	14	Openings . . . . .	2-59	12

CASES, MINE (cont'd)	ISSUE	PAGE	CLOCK DELAYS	ISSUE	PAGE
Suspension-lug, mounting holes . . .	1-62	9	Shipping . . . . .	1-62	9
positioning . . . . .	3-61	11	Starting bar . . . . .	4-61	16
1-60	10		Test panel OE-SK-1377 . . . . .	2-59	4
Mk 6-6, studs, extender well . . . . .	1-61	4	Timing panel OE-SK-D-3090 . . . . .	4-60	4
Mk 25-1, hoisting lugs, check out recordings. . . . .	1-61	11	Washer, fiber . . . . .	2-61	7
screw holes. . . . .	2-61	4	Winding instructions . . . . .	2-62	16
Mk 36-1, bleeder installation . . . . .	1-60	4,5	1-62	6	
Mk 36-2, alteration marking . . . . .	1-61	4	3-60	19	
battery bracket accommoda- tion. . . . .	2-61	17	CD-8-0, strain loop. . . . .	1-58	2
bleeder installation . . . . .	1-60	5	CD-9-0, spring braces . . . . .	1-58	2
compartment studs. . . . .	4-60	4	CD-9-1, shipment and storage . . . . .	3-60	2
pin brackets . . . . .	3-60	3,4	various defects. . . . .	1-58	2
various defects . . . . .	1-59	2	CD-10-1, resistance check . . . . .	1-59	10
weld nuts. . . . .	4-60	4	CD-12, E-switch . . . . .	1-62	6
Mk 49-0, leakage test. . . . .	4-60	10	jumper plug. . . . .	3-61	
Mk 50-0, hoisting lug . . . . .	1-59	11	CD-12-0, cable CA-23 . . . . .	1-59	2
Mk 52-0, suspension lugs . . . . .	2-62	5	numerous defects . . . . .	1-61	4
			1-58	3	
<b>CIRCUIT BREAKS</b>					
Balance adjustment . . . . .	4-62	4	CD-14, cam setting . . . . .	2-62	15
Mounting . . . . .	4-61	14	continuity test. . . . .	1-59	9
Mk 1-0, balancing w/firing mech. . .	2-60	10	delay-arming time. . . . .	2-59	8
1-59	10		inspection . . . . .	3-60	4
balancing procedure . . . . .	2-59	19	jumper plug. . . . .	3-62	13
insulation resistance . . . . .	1-62	6	tests. . . . .	4-60	9
1-59	10		CD-14-6, current drain . . . . .	1-60	4
interlock dead period . . . . .	2-60	9	numerous defects . . . . .	1-59	2
mounting holes. . . . .	2-59	8	1-58	3	
testing . . . . .	1-58	2	switch operation. . . . .	2-62	15
Mk 2-1, insulation resistance . . . . .	1-62	6	CD-17, E-switch . . . . .	1-62	6
			Mk 18-0, cable CA-46. . . . .	3-61	4

	ISSUE	PAGE		ISSUE	PAGE
			<b>CONTROL BOXES</b>		
Mk 21-0, new clock delay . . . . .	2-62	5	Mk 13-1, terminal strip . . . . .	1-61	4
<b>CLOCK STARTERS</b>			Mk 15-0, switch contacts . . . . .	3-60	2
Diaphragm . . . . .	3-61	4	Mk 32-0, fuse, 150 MA . . . . .	2-60	4
Replacement . . . . .	4-61	4	Mk 39-0, testing . . . . .	4-61	16
Washers, fiber . . . . .	3-62	5	<b>CONTROL UNITS</b>		
CS 1-4, leakage test . . . . .	1-58	3	Mk 66-0, container . . . . .	3-61	4
operating test . . . . .	1-58	3	storage . . . . .	3-62	5
Mk 1, bushings (washers), fiber . . .	1-59	2	<b>CONTROLLED MINE SYSTEMS</b>		
Mk 1-1, mod standardization . . . . .	4-62	5	Mk 1-0, cable M6P . . . . .	1-59	2
Mk 1-4, replacement . . . . .	4-60	4	Mk 2-0, cable M6P . . . . .	1-59	2
Mk 1-5, mod standardization . . . . .	4-62	5	<b>COUNTERS, ACTUATION</b>		
<b>COILS, SEARCH</b>			Bushing-tube fit . . . . .	3-60	18
Cover, fastenings . . . . .	3-62	6	Assembling instructions . . . . .	1-59	15
Cover, tube . . . . .	1-59	3	Mk 10-0, registering discrepancies .	4-62	11
Handling . . . . .	4-62	10	SE-3, cable connections . . . . .	3-61	5
Testing . . . . .	4-61	16	mount . . . . .	2-60	5
SC-7-0, end disc . . . . .	2-60	5	SE-3-2, installing . . . . .	1-59	4
	1-60	5	testing . . . . .	1-62	4
	1-59	4	SE-3-3, fuse wires . . . . .	3-61	4
SC-20-1, end cap screw . . . . .	1-61	10	terminal screws . . . . .	3-61	4
	1-59	4		2-61	11
Mk 20-1, cable sleeve . . . . .	3-61	4	terminal strips . . . . .	1-58	2
Mk 27-0, coupling nut . . . . .	2-60	5	<b>CRATES, MINE</b>		
<b>COLOR CODES</b> . . . . .	4-62	7	Fastenings . . . . .	1-61	6
	3-62	7	Ground straps . . . . .	4-62	3
<b>COMPENSATOR</b>				1-60	19
Mk 3-0, orientation dot . . . . .	1-61	4	Yellow spot . . . . .	3-62	5

	ISSUE	PAGE		ISSUE	PAGE
<b>CUSHIONS</b>					
Mk 18-0,1, newsboard spacer . . . . .	4-60	12	Mk 2-1, dating . . . . .	1-62	4
			shorting bar . . . . .	3-60	21
<b>DETONATORS</b>			Mk 3-0, plastic seal . . . . .	1-58	3
Circuit test, Mine Mk 10-3. . . . .	2-59	8	Mk 4, testing. . . . .	1-61	8
Mines Mk 25, 36, 49 . . . . .	3-61	6			
Installing . . . . .	2-59	8	<b>EXTENDERS</b>		
	1-59	25	Counterboring . . . . .	2-59	20
Mk 1-1, disposal . . . . .	3-60	6	Diaphragm . . . . .	3-61	4
Mk 35-1, replaced by Mod 3 . . . . .	2-59	8	Insulation test . . . . .	4-62	10
Mk 35-3, excessive paint . . . . .	3-60	6	Tags, serial marker . . . . .	3-62	5
			Washers, fiber . . . . .	3-62	5
				2-61	7
				2-59	20
<b>DEPTH CHARGES</b>			Mk 6-2, bushings . . . . .	2-61	6
Case, Mk 9-2, exudate . . . . .	1-60	9	Mk 12-3,4, bushings (washers), fiber . . . . .	1-59	2
	1-59	2	Mk 14-0,1,2, bushings (washers), fiber . . . . .	1-59	
Mk 9-3, exudate . . . . .	4-60	4	diaphragm . . . . .	4-60	4
Shipboard handling and maintenance. . . . .	1-62	10	leakage test . . . . .	4-61	15
Mk 6, failed to fire . . . . .	2-59	4,9		2-61	6
Mk 6-0, failed to fire . . . . .	3-60	2	operational test . . . . .	1-58	3
	1-58	3	piston travel . . . . .	1-62	17
Mk 9, failed to fire . . . . .	2-59	4,9	terminal block . . . . .	1-59	3
Mk 9-2,3, exudate . . . . .	3-61	17		1-58	3
	4-60	12			
	2-60	4			
Mk 9-4, preferred mod . . . . .	3-61	17			
Mk 14, face plate protection . . . . .	1-60	12	<b>FIRING MECHANISMS</b>		
Mk 15-12, failed to fire . . . . .	1-58	3	Cap, DWG 416741 . . . . .	1-59	2
warning . . . . .	1-58	21	Refrigeration . . . . .	1-61	7
<b>DETECTORS, PRESSURE</b>			Retainer assembly, DWG 883359 . . . . .	2-59	5
Mk 1-0, refrigeration . . . . .	4-62	4	DWG 451863 . . . . .	1-59	4
<b>EXPLOSIVE FITTINGS</b>			A-4, oscillator tube . . . . .	3-62	5
Mk 2, testing . . . . .	1-61	8	tape . . . . .	1-60	12
			A-4-0, diaphragm . . . . .	1-61	11

T-SHOOTER INDEX NO. 1

	ISSUE	PAGE		ISSUE	PAGE
shop test . . . . .	1-59	3	K-4-0, insulation resistance. . . . .	1-59	3
A-5-2, CD 12's lead 6. . . . .	1-61	4	low resistance . . . . .	4-60	4
electrical failures . . . . .	1-59	3	K-4-1, insulation resistance. . . . .	2-59	5
failed to fire or countermine..	2-59	4	piston travel . . . . .	3-60	2,5
pot shaft . . . . .	3-60	2	M-5, mounting sleeve. . . . .	2-59	19
A-6, firing condenser . . . . .	4-62	11	M-5-1, missing parts. . . . .	4-60	4
operational test . . . . .	1-58	20	numerous defects . . . . .	1-58	3
A-6-1, numerous defects . . . . .	2-59	4	static and rocking test . . . . .	2-59	5
pipe connection . . . . .	1-59	3	M-5-2, missing parts. . . . .	4-60	4
pressure-look test. . . . .	2-60	4	reworked Mod 1. . . . .	1-60	19
time out test . . . . .	1-61	5	M-9-0, reworked as Mod 2 . . . . .	1-58	19
A-6-3, condenser lug . . . . .	2-62	15	M-9-1, insulation resistance. . . . .	1-59	3
pressure look test . . . . .	2-60	4	jumpers . . . . .	1-61	5
SR 9 test . . . . .	1-60	4	M-9-2, bench test . . . . .	1-58	18
testing . . . . .	4-60	4	preassembly test . . . . .	2-60	4
A-8, firing condenser . . . . .	4-62	11	sensitivity test . . . . .	2-59	5
operational test . . . . .	1-58	20	M-11, spacers . . . . .	2-60	16
A-8-0, converting to Mod 1 . . . . .	1-59	3	testing . . . . .	3-60	6
numerous defects . . . . .	2-59	4	M-11-4, malfunction . . . . .	1-58	3
pot adjusting screw. . . . .	4-60	11	Mk 16-0, rewiring . . . . .	1-60	4
pot shaft nut. . . . .	3-61	12	Mk 20-0, brass spacers. . . . .	2-60	5
pressure look test. . . . .	2-60	4	Mk 22-0, insulator . . . . .	1-58	3
time-out test . . . . .	3-60	2	FLEET SERVICE MINE TEST PROGRAM ..	1-58	8
A-8-1, condenser screw and switch contact . . . . .	3-60	2	<b>FLOATS</b>		
glyptal . . . . .	4-60	4	Painting . . . . .	3-61	7
SR 9 test . . . . .	1-60	4	Premature release . . . . .	2-61	7
K-4, repairing . . . . .	2-59	6	1-59	5	
K-4, magnets . . . . .	1-62	8	Release mech Mk 1-0, 1. . . . .	3-62	13

	ISSUE	PAGE		ISSUE	PAGE
<b>FLOATS (cont'd)</b>			<b>MINES</b>		
Shield cap screw . . . . .	4-60	10	Angle plate, eye bolt distortion. . . . .	1-58	2
D-4-6, contact plate . . . . .	1-61	4	Antenna assembly. . . . .	4-60	3
cotter pin . . . . .	2-59	5	Button attachment. . . . .	2-60	16
Mk 15-0, O-ring . . . . .	2-59	5	Component repackaging . . . . .	4-61	8
Mk 15-1, assembling . . . . .	1-58	10	Cover assembly, tail for Mk 36-1. . . . .	1-59	2
cleaning . . . . .	1-59	15	Cover, tail, fastenings for Mk 25-0 . . . . .	3-60	19
information . . . . .	2-60	18	Mk 25-1 . . . . .	3-61	11
<b>GASKETS AND O-RINGS</b>			Filling hole cover. . . . .	1-60	10
Cold flow . . . . .	2-61	11	Fins, aircraft loading interference . . . . .	2-61	4
1-61	5	1-61	13		
DWG numbers . . . . .	4-60	4	Hydrostat Mk 2-2 for Mk 10-9 . . . . .	3-60	21
2-59	5	Initiator Mk 4-0 for Mk 53. . . . .	3-60	2	
General information. . . . .	1-60	21	Plummet cord . . . . .	3-61	5
Inspection . . . . .	1-59	11	Plummet spool . . . . .	1-59	4
Installing . . . . .	2-59	20	Tail cover for Mk 36-2 . . . . .	4-60	5
O-rings, color code. . . . .	3-61	4	Mk 52 . . . . .	1-61	5
Ring-type vs full-type. . . . .	2-59	12	Tail plate for Mk 36-3. . . . .	1-59	4,10
Silicone grease. . . . .	2-61	10	Mk 10, special tools . . . . .	1-61	3
1-61	10	Mk 10-3, bill of material . . . . .	4-60	5	
<b>INSTRUMENT RACK</b>			Mk 10-9, hydrostat . . . . .	2-59	5
Installation. . . . .	2-61	12	Mk 16-1, shipping . . . . .	1-60	4
1-60	18	Mk 25-2, bill of material . . . . .	2-60	14	
1-59	3	Mk 27, polarity check. . . . .	1-61	6	
<b>MICROPHONES</b>			Mk 27-0, 1, obsolete . . . . .	3-60	19
MI-4, diaphragm . . . . .	1-60	4	2-60	17	
1-59	3	Mk 36-1, float release . . . . .	1-58	3	
1-58	3	<b>MINES, DRILL</b>			
test procedure . . . . .	1-59	14	Drill kit, Mk 4, bolt seals. . . . .	1-59	3
testing. . . . .	3-60	4	Mk 4-0, gaskets. . . . .	1-61	4
moisture barrier. . . . .	2-59	21			
<b>MINE MATERIAL COG CHANGES</b>	. . . . .	4-62			

	ISSUE	PAGE		ISSUE	PAGE
Mk 5, bolt seals . . . . .	1-59	3	<b>RELAYS</b>		
Shields, corrosion . . . . .	1-61	5	Assembly, TS-1-2 . . . . .	3-60	3
rivets . . . . .	1-62	4	Sensitrol, relay limits . . . . .	1-61	6
MULTIMETER AN/PSM-4A, zeroing . . . . .	2-61 1-59	4 3	SR-7-2 . . . . .	3-60	3
NAVSTRIP . . . . .	4-62	8	SR-9, springs . . . . .	4-60	10
<b>PACKS, PARACHUTE</b>			Thermal, TS-1-1 . . . . .	1-58	4
Failure results . . . . .	1-62	5	Time delay, TD-16 . . . . .	2-60	5
General information . . . . .	1-58	12	<b>RELEASE MECHANISMS</b>		
Storage . . . . .	3-62	17	Mk 7-0, parts . . . . .	1-59	4
Mk 9-1, malfunction . . . . .	1-59	3	<b>RESISTORS, BLEEDER</b>		
Mk 13-2, adapter . . . . .	1-58	4	Assembly mounting holes . . . . .	2-62	5
Mk 18-0, static lines . . . . .	1-59	3,14	Assembly terminal block . . . . .	1-61	4
Mk 20-0, Mod 1 preferred item . . . . .	2-59	6	Installation . . . . .	4-62	11
joining to tail section . . . . .	3-61	7	Mounting plates . . . . .	1-59	9
Mk 26-0, fin assembly Mk 9-0 . . . . .	4-60	5	Use in Mine Mk 18-0 . . . . .	2-62	15
<b>PISTOLS, DEPTH CHARGE</b>			<b>REVERSE POLARITY</b> . . . . .	1-59	22
Mk 6-0, 1, 2, testing . . . . .	1-59	3	<b>RUDMINDE FORM</b> . . . . .	4-60	2
Mk 12-0, cases . . . . .	1-58	4,21	<b>SIGNALS</b>		
det leads, tests . . . . .	1-59	4	Colored . . . . .	3-62	5
<b>POWER SUPPLIES</b>			Mk 25-0, cotter pin . . . . .	1-58	21
Mk 110-1, resistance values . . . . .	3-60	3	Mk 25-1, defective . . . . .	1-61	5
<b>PROJECTOR CHARGE</b>			springs . . . . .	3-62	13
Mk 12-0, general information . . . . .	3-62	17	Mk 25-0, cotter pin . . . . .	1-58	21
<b>RECORDER, MINE FIRE</b> . . . . .	1-62	7	planting depth . . . . .	1-59	15
<b>T-SHOOTER INDEX NO. 1</b>					9

	ISSUE	PAGE		ISSUE	PAGE
<b>STERILIZERS</b>			<b>TEST CHAMBERS</b>		
SD-4-1, banana plugs . . . . .	1-61	5,8	Mk 4-1, pins . . . . .	1-61	8
SD-4-1, filling date . . . . .	1-60	10	switch . . . . .	1-61	8
				2-59	5
<b>STENCILING</b>			<b>TEST POLICY</b> . . . . .		
Cases . . . . .	3-62	10,11,13		1-60	6
	2-61	6			
Crates . . . . .	3-62	5,10,11	<b>TEST POT</b>		
General information . . . . .	2-61	5	Mk 3-1, Fire Mech Mk 24-0 fixture . .	3-60	3
<b>SWITCHES, HYDROSTATIC</b>			<b>TEST SETS</b>		
HS-4-0, operating limits . . . . .	4-60	4	Cables . . . . .	1-59	4
Mk 22-0, diaphragm . . . . .	1-58	3	Grounding . . . . .	3-62	4
<b>SWITCHES, SENSITIVITY</b>			Instructions . . . . .	2-60	5
Cover, tail, mounting . . . . .	1-59	3	Load or no-load voltage . . . . .	4-60	9
Mk 3-0, amphenol plug . . . . .	4-60	5	Plug assembly, Mk 269-0 . . . . .	1-59	4
various defects . . . . .	1-59	4	Mk 8-1, instructions . . . . .	2-59	5
Mk 3-1, elbow fittings . . . . .	2-62	16	Mk 9-1, Fire Mech M-9-1 . . . . .	3-61	4
inlet tube . . . . .	2-61	11	Mk 26-1, cable CA 652 . . . . .	3-60	3
	1-61	5		2-59	5
			resistance . . . . .	1-61	7
<b>TERMINAL BLOCKS</b>			Mk 26-2, shields . . . . .	1-62	5
TB-8, capacitor . . . . .	4-62	4	shunt . . . . .	2-60	16
	3-62	4	Mk 27-1, resistor . . . . .	3-60	3
TB-8-0, barriers break . . . . .	1-58	4	Mk 41-1, instructions . . . . .	1-58	4
TB-11, shipping . . . . .	4-60	5		3-62	13
TB-18, voltage-polarity test . . . . .	3-61	7	jumper plugs . . . . .	1-62	8
TB-19, resistor . . . . .	3-60	5	Mk 61-1, replaced by Mod 2 . . . . .	1-58	4
TB-19-0, shipping . . . . .	2-61	4	Mk 61-2, calibration instructions . . .	2-59	5
TB-20-0, lug fit . . . . .	2-61	4		1-59	4
TB-24-1, mounting holes . . . . .	3-60	3,19		1-58	4
TB-27-1, holes . . . . .	1-59	4	noise voltage . . . . .	1-62	8
			shipping . . . . .	3-60	3
			stray a.c. currents . . . . .	2-60	5

	ISSUE	PAGE		ISSUE	PAGE
Mk 65-1, cable CA-904 vs CA-686 . . .	3-60	5	Mk 195-0, battery test instructions . . .	2-59	6
Mk 66-0, replaced by Mod 1 . . . . .	2-60	5	1-59		4
Mk 66-1, clamping arm . . . . .	4-60	17	calibration procedure . . . . .	1-58	4
	2-60	5	output meter scale . . . . .	3-61	5
Mk 71-0, weights . . . . .	2-61	11	resistor R-51 value . . . . .	1-61	5
Mk 72-0, connecting plug . . . . .	2-61	4	Mk 210-0, overload circuit . . . . .	3-60	3
Mk 75-1, calibration instructions . . .	2-59	5	Mk 217-1, oscillator . . . . .	3-61	4
	1-59	9	Mk 238-0, classification . . . . .	2-61	4
Mk 75-2, switch lettering . . . . .	1-61	5	Mk 246-0, no barometer . . . . .	4-61	15
Mk 95-2, shipping . . . . .	1-60	5	Mk 250-0, pressure limit . . . . .	4-61	16
stepping switches . . . . .	2-60	5	Mk 269-0, connection box plug . . . . .	1-60	20
	1-61	5			
	1-60	10			
Mk 96, instructions . . . . .	2-59	19	<b>TOOLS AND HANDLING EQUIPMENT</b>		
Mk 96-1, alignment bar . . . . .	4-60	11	Applicator, E-ring . . . . .	2-60	21
target strip . . . . .	3-60	3	Basic tool set . . . . .	4-60	13
Mk 97, voltmeter . . . . .	2-62	14		3-60	7
Mk 97-1, replaced by Mod 2 . . . . .	1-58	4	Cable extractor for use w/connection boxes . . . . .	1-60	20
Mk 110-1, internal connections . . . . .	3-61	11	Camshaft cocking tool . . . . .	4-60	13
fire mech Mk 15-0 . . . . .	2-60	5	Depressor, clock starter . . . . .	2-62	15
Mk 128-0, meter pegs . . . . .	1-58	20	Extractor, fiber washer . . . . .	4-60	16
Mk 128-1, instructions, circuitry . . .	1-60	5	Fork-lift mine carrier . . . . .	1-59	17
meter pegs . . . . .	1-60	5	Locating pin, firing mechanism . . . . .	2-60	17
	1-58	4,20	Mine dolly . . . . .	2-60	4,10
Mk 128-2, meter pegs . . . . .	1-58	20	Piston-travel gage, extender . . . . .	1-62	17
Mk 137-1, cable CA-656 . . . . .	2-60	5	Pliers, lug-altering . . . . .	1-60	13
Mk 177-0, resistors . . . . .	2-62	4	Puller, clock-starter and extender . . . . .	1-59	16
shipping . . . . .	1-60	5	anchor drive gear . . . . .	3-60	20
Mk 181-0, shipping . . . . .	3-60	3	Rack, tail plate assembly . . . . .	3-61	13
Mk 194-0, hydrostatic switch closure .	4-62	4	Rethreading die, stud . . . . .	3-61	12
			Shaft clamp, potentiometer . . . . .	3-61	12

TOOLS AND HANDLING EQUIPMENT (cont'd)	ISSUE	PAGE	ISSUE	PAGE	
Shopcart, instrument rack . . . . .	2-61	12	Test fixture, D-C pistol . . . . .	4-61	17
Special tools, Mine Mk 10 . . . . .	1-61	3	Universal mine carrier . . . . .	2-61	8
Mine Mk 53-0 . . . . .	1-58	4	Wrench, arming-wire safety lock . .	4-61	7
Suction tool, booster . . . . .	2-61	13	Wrench, crowfoot for Mine Mk 36-3		
Slings, mine . . . . .	3-61	10	gland plug . . . . .	1-59	10

---

NOTES: