

**INSURV Mine Warfare Inspection Guide
(MCM / MHC)**

Updated: 1-Dec-03

OK-520 Winch

Reference: NAVSEA SE813-B3-IEM-010, REV 1, OK-520 Common Winch

CURRENT PMS: MIP 4762/002, Minehunting Systems

MIP 4603/002, AN/SQQ-32(V) Series Minehunting Sonar Systems

EQUIPMENT		REMARKS / DISCREPENCIES
WINCH ASSEMBLY		MRC Q-1
(1) Was the equipment free of physical damage to castings, housings, or support structures?	YES / NO	
(2) Were all welds free of cracks?	YES / NO	
(3) Was all mounting hardware, cable clips, etc., properly installed?	YES / NO	
(4) Was the winch assembly properly preserved and free of corrosion?	YES / NO	
(5) Were all winch foundation bolts tight?	YES / NO	
(6) Was the High Speed/Low Speed gear oil level within specifications?	YES / NO	
(7) Was the High Speed/Low Speed gear oil clean and free of contaminants?	YES / NO	
(8) Was the Manual Drive Gear Oil level within specifications?	YES / NO	
(9) Was the Manual Drive Gear Oil clean and free of contamination?	YES / NO	
WINCH MOUNTED ENCLOSURES (10A1, 10A2, and 10A3)		MRC S-1
(1) Was all securing hardware and cover hardware properly installed?	YES / NO	
(2) Were gaskets in good condition and mating surfaces clean and free of corrosion?	YES / NO	
(3) Was the interior free of corrosion, dirt, debris, and water intrusion?	YES / NO	
(4) Were all wires and internal components in good condition and properly secured?	YES / NO	
(5) Were grounding straps in good condition and effective?	YES / NO	

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UNITS 17, 18 19, 20, & 21		MRC Q-2R
(1) Was the enclosure properly preserved and free of corrosion?	YES / NO	
(2) Were all cover and mounting screws properly installed?	YES / NO	
(3) Was gasket in good condition and mating surfaces clean and free of corrosion?	YES / NO	
(4) Was plexiglass cover installed? (Unit 18, 19, & 20)	YES / NO	
(5) Was interior free of corrosion, dirt, debries and water intrusion?	YES / NO	
(6) Were all wires and internal components in good condition and properly secured?	YES / NO	
(7) Was the grounding strap in good condition / effective?	YES / NO	
(8) Did all contactors operate freely? (Unit 18 & 19)	YES / NO	
(9) Was main contactor wipe within specification (1/16" +/- 1/64")? (Unit 18 & 19)	YES / NO	MRC S-3R, A-2R
(10) Were EMI gaskets in good condition? (Unit 21)	YES / NO	
FULL DRUM LIMIT SWITCH (Unit 22)		MRC S-1
(1) Was the Full Drum Limit switch properly set and functional?	YES / NO	
(2) Was the Full Drum Limit Switch free of water?	YES / NO	
5 HP MOTOR		MRC U-2, U-3
(1) Were motor current readings within 10 percent of previous readings?	YES / NO	
(2) Was the Low Speed Cone Gear Backlash witin acceptable limits?	YES / NO	MRC, U-2, U-3,
WINCH BRAKE		MRC W-1R, M-4R, 2M-1R, Q-3R
(1) Did the manual brake release operate properly?	YES / NO	
(2) Was the brake assembly clean and free of corrosion and water intrusion?	YES / NO	

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(3) Were all components in good condition, properly installed, and operational?	YES / NO	
(4) Did the winch brake operate properly IAW PMS?	YES / NO	
HPU :		MRC M-4R
(1) Was the HPU oil level within specifications?	YES / NO	
(2) Was the HPU oil clean and free of contaminants?	YES / NO	
(3) Was the HPU free of oil leaks?	YES / NO	
(4) Did the HPU Clutch operate properly and without leaks?	YES / NO	
(5) Did the Manual Pressure Release Valve operate properly?	YES / NO	
CABLE		4603/003, R-11 (Inspect during Mine Hunting DEMO)
(1) Was the cable free of nicks, cuts, broken strands?	YES / NO	
(2) Were fairing strips in good condition / usable?	YES / NO	
OP TEST		
(1) Did the "EMERGENCY OFF" at Unit 7 function properly?	YES / NO	
(2) Did the High Speed UP / DOWN operation function.	YES / NO	