



MSC/MST-INSP-RSP-5

SPECIALTY HAULAGE SOLUTIONS FOR CONSTRUCTION AND MINING

SCHEDULED/SPECIAL INSPECTIONS & RECOMMENDED SUPPORT PARTS



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Definitions and Abbreviations

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MANUAL USAGE

This technical manual only contains information required to safely install or service an MSC/MST. See the appropriate Maintenance and Operators Safety Manual for specific vehicle system information and maintenance procedures. If your system is not covered in this manual please contact MEGA Corp. Product Support Group at:
 US toll free: 1-800-345-8889
 Direct: 1-505-345-2661 or visit our website at www.megacorpinc.com for more detailed contact information.

The exact location of the hazards and description of the hazards are reviewed in this section. All personnel working on or operating the MSC/MST must become familiarized with all the safety messages.

WARNING

Due to the nature of these processes, ensure that all safety information, warnings and instructions are read and understood before any operation or any maintenance procedures are performed. Some procedures take place with heavy components and at moderate heights, ensure proper safety procedures are maintained when performing these actions. Failure to use and maintain proper safety equipment and procedures will cause injury, death or damage to equipment.

WARNING, CAUTION AND NOTES

The following definitions are found throughout the manual and apply as follows:

WARNING

Operating procedures and techniques, which could result in personal injury and/or loss of life if not carefully followed.

CAUTION

Operating procedures and techniques, which could result in damage to equipment if not carefully followed.

NOTE

Operating procedures and techniques that are considered essential to emphasize.

USE OF SHALL, WILL, SHOULD AND MAY

Shall and **Will** – Used when application of a procedure is mandatory.

Should – Used when application of a procedure is recommended.

May - Used to indicate an acceptable or suggested means of accomplishment.

SECTION 1

Definitions and Abbreviations

SAFETY MESSAGES

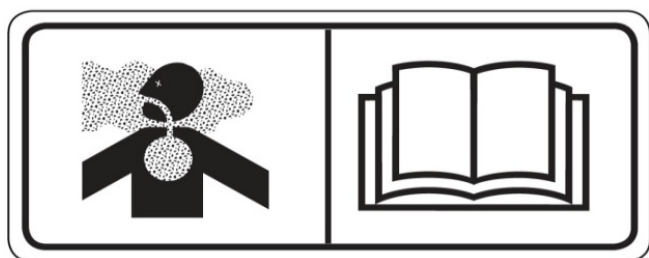
There are several specific safety messages on this machine. The exact location of the hazards and description of the hazards are reviewed in this section. All personnel working on or operating the machine must become familiarized with all the safety messages.

Make sure that all of the safety messages are legible. Clean the safety messages or replace the safety messages if you cannot read the words. Replace the illustrations if the illustrations are not legible. When you clean the safety messages, use a cloth, water, and soap. Do not use solvent, gasoline, or other harsh chemicals to clean the safety messages. Solvents, gasoline, or harsh chemicals could loosen the adhesive that secures the safety messages. Loose adhesive will allow the safety messages to detach.

Replace any safety message that is damaged or missing. If a safety message is attached to a part that is replaced, install a new safety message on the replacement part.

TOXIC GAS HAZARD (1)

This safety label is located on the side of the tank and at all water fill entrances.

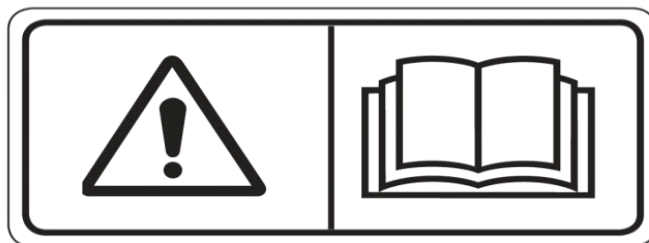


⚠ WARNING

Cutting or welding operation on the inside of the tank can cause the accumulation of toxic gases. Read and understand instructions and warnings in the Maintenance Manual. Failure to provide proper ventilation or breathing apparatus while conducting these operations may result in serious injury or death.

DO NOT OPERATE (2)

This safety label is located on the outside of the front and rear control boxes (if equipped).

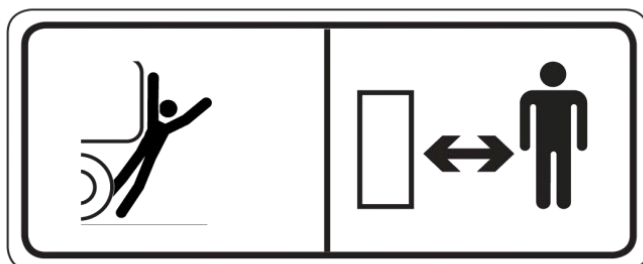


⚠ WARNING

Do not open this control box unless you read and understand the instructions and warnings in the Operator and Maintenance Manual. Failure to follow instructions or heed the warnings could result in serious injury or death.

BACKING RUNOVER HAZARD (3)

This safety label is located on the rear of the tank and inside the cab.



⚠ WARNING

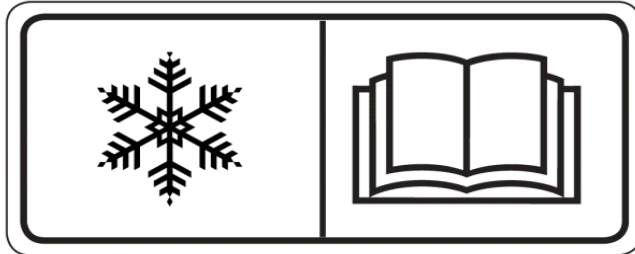
The vehicle is equipped with a back-up alarm. Alarm must sound when operating this vehicle in reverse. Failure to maintain a clear view in the direction of travel could result in serious injury or death.

SECTION 1

Definitions and Abbreviations

FREEZING (4)

This safety label is located on the side of the tank, at the sump drain, and on the pump.

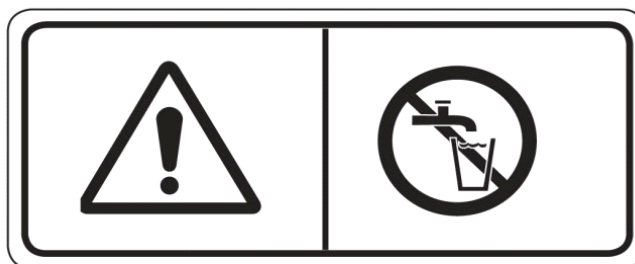


⚠ WARNING

Drain tank, fill pipe and valve in freezing weather. Refer to the Operator and Maintenance Manual for the procedure to follow.

NON-POTABLE (5)

This safety label is located on the side of the tank and sump drain.



⚠ WARNING

Water held within tank is not potable. Do not use tank for transport of water intended for human or animal consumption or serious injury or death may result.

DO NOT HOIST WHILE IN MOTION (6)

This safety label is located inside the cab.



⚠ WARNING

Do not engage hoist cylinders while vehicle is in motion. Before engaging hoist STOP the vehicle. Do not engage hoisting cylinders unless you read and understand the instructions and warnings in the Operator or Maintenance Manual. Failure to follow instructions or heed the warnings will result in injury or death.

FALL HAZARD (7)

This safety label is located at the top of the front and rear of the tank.



⚠ WARNING

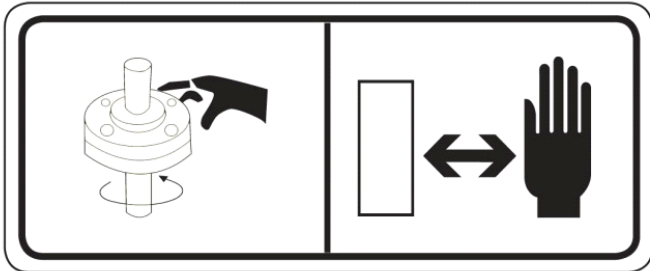
Do not walk on the top of tank without fall arrest PPE. Serious injury or death could occur from a fall.

SECTION 1

Definitions and Abbreviations

ROTATING SHAFT (8)

This safety label is located on the pump.

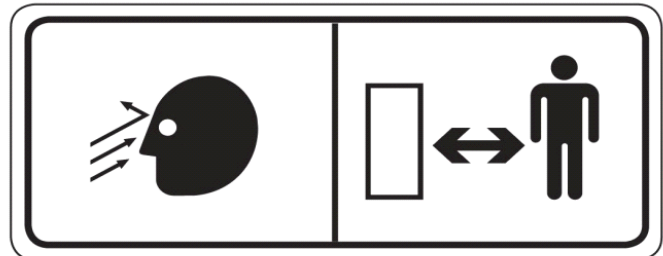


⚠ WARNING

Do not place your hand or tools within pump bell while pump is rotating and/or pressure held within the motor supply hose. Refer to the Operator and Maintenance Manual for the procedures to operate and maintain the pump. Failure to follow proper procedures could result in serious injury.

HIGH PRESSURE WATER CANNON (10)

This safety label is located on top of the cab control box.

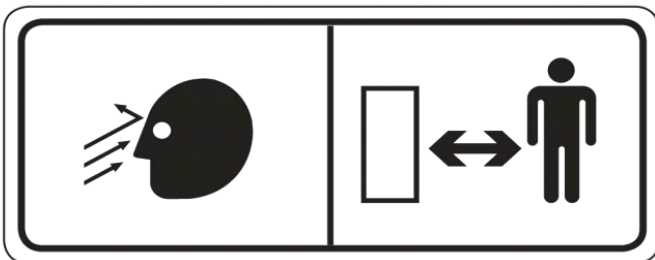


⚠ WARNING

Do not operate the water cannon until all personnel are a safe distance away from the vehicle.

HIGH PRESSURE SPRAY HEADS (9)

This safety label is located on the spray bar.

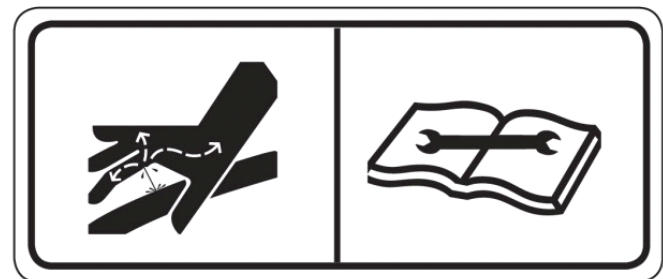


⚠ WARNING

Do not operate spray heads until all personnel are a safe distance away from the vehicle.

HIGH PRESSURE MOTOR (11)

This safety label is located on the hydraulic motor.



⚠ WARNING

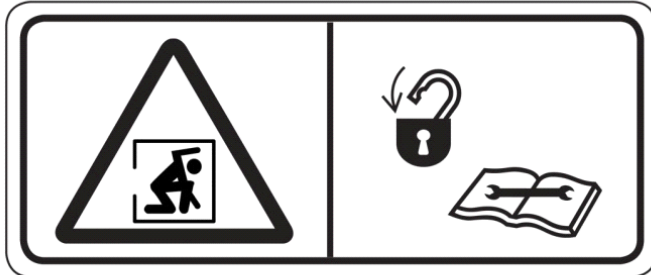
Hydraulic motor and supply lines contain oil under high pressure. Improper removal and repair procedures could cause severe injury. To remove or repair, instructions in the Maintenance Manual must be followed.

SECTION 1

Definitions and Abbreviations

CONFINED SPACE (12)

This safety label is located near the water tank access and fill ports.



WARNING

Do not enter confined spaces without following established site specific procedures. Failure to follow proper safety procedures will result in serious injury or death.

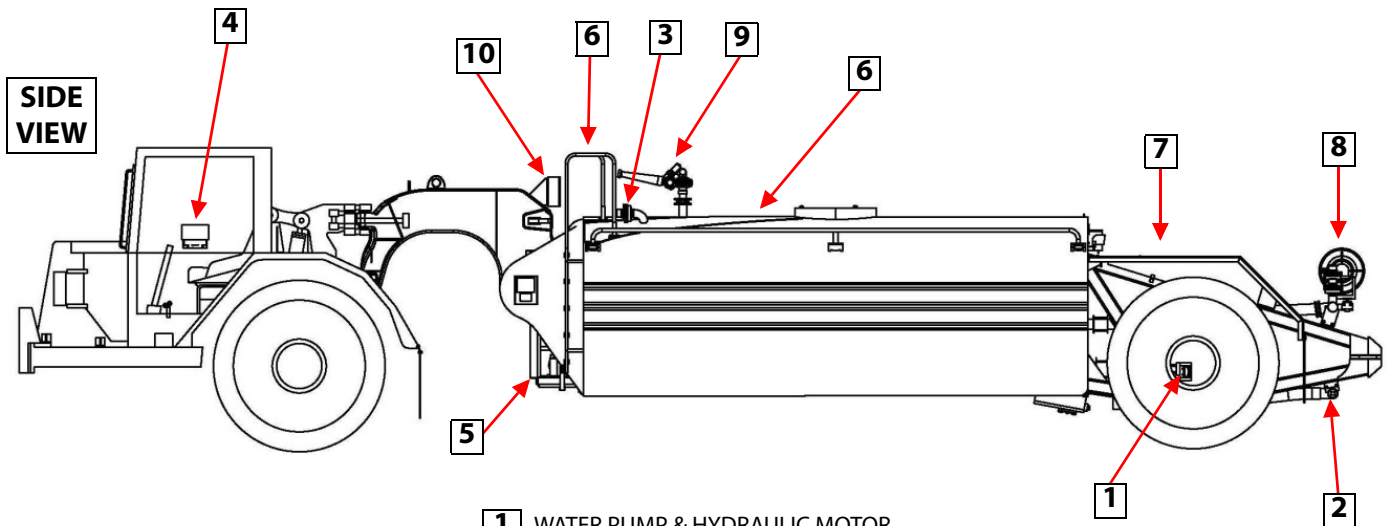
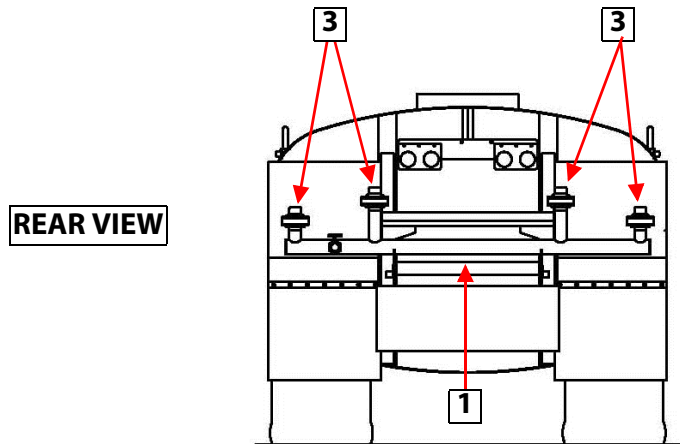
ABBREVIATIONS

BFV - Butterfly Valve
 cc - Cubic Centimeters
 CCW - Counter Clockwise
 CW - Clockwise
 fl. oz. - Fluid Ounce
 FT - Feet
 FPM - Feet Per Minute
 GPM - Gallons Per Minute
 IN/SQ FT - Inches per Square Feet
 KM-H - Kilometers Per Hour
 Kg - kilograms
 Kpa - Kilopascals
 l - liters
 lpm - Liters per minute
 LT - Left as viewed from the operators
 position facing forward
 m - meters
 MPH - Miles Per Hour
 MSC/MST - Mega Scraper Conversion
 Nm - Newton meters of torque
 psi - pounds per square inch
 QCC - Quick Change Component
 RPM - Revolutions Per Minute
 RT - Right as viewed from the operators
 position facing forward
 SQ FT - Square Feet
 VDC - Volts, Direct Current

SECTION 1

Definitions and Abbreviations

MSC/MST GENERAL OVERVIEW (TYPICAL)



- 1** WATER PUMP & HYDRAULIC MOTOR
- 2** DUMP BAR
- 3** SPRAY HEADS
- 4** CAB CONTROLS
- 5** SUCTION PUMP STATION
- 6** HAND RAIL & WALKWAY
- 7** FOAM CONCENTRATE TANK
- 8** HOSE REEL
- 9** WATER CANNON
- 10** SOLENOID BOX

SECTION 2

Scheduled Maintenance Inspections

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DESCRIPTION

This section establishes scheduled maintenance inspections of the installed MSC/MST at the designated frequencies. Performing these inspections will identify potential system discrepancies and allow preventative maintenance to be performed before a component or system is rendered totally inoperative.

****NOTE:** Vehicles operated in extremely low quality water environments may require more frequent inspections.

		FREQUENCY				
		WEEKLY (150 HRS)	BI-WEEKLY (250 HRS)	MONTHLY (500 HRS)	QUARTERLY (1000 HRS)	ANNUALLY (5000 HRS)
STEP	SPRAY HEADS					
1	Check spray head for damage and clean deflector ring and spray head opening.	X				
2	Check hydraulic lines for security, damage and leaks.	X				
3	Check spray head drop-in assembly for leaks with spray head switch OFF and water pump ON. Replace drop-in assembly as required.			X		
4	Check spray head base plate and upper housing mount bolts for security.			X		
5	Check spray head adjustable deflector ring for damage and correct adjustment. Apply dry-film lubricant to the deflector inner ring.			X		
6	Check spray head base plate for evidence of leaks. Replace base plate O-ring as required.					X

		FREQUENCY						
		WEEKLY (150 HRS)	BI-WEEKLY (250 HRS)	MONTHLY (500 HRS)	QUARTERLY (1000 HRS)	ANNUAL (5000 HRS)	MANHOURS PER INSPECTION	TOTAL ANNUAL MANHOURS
STEP	CONTROL SYSTEM							
1	Check all electrical cables for security and damage. Disconnect, clean and coat Deutsch connector junctions with Dielectric grease as required.			X			0.7	7
2	Check all hydraulic solenoids and hosing for security and leaks. Repair as required.				X		0.3	1.5
3	Check water cannon/nozzle assembly for security leaks and condition. Repair as required.				X		0.2	1
4	Check foam agent supply hoses and shut-off valve for security condition and evidence of suction leaks.				X		0.1	0.5

SECTION 2

Scheduled Maintenance Inspections

STEP	CONTROL SYSTEM	FREQUENCY						TOTAL ANNUAL MANHOURS
		WEEKLY (150 HRS)	BI-WEEKLY (250 HRS)	MONTHLY (500 HRS)	QUARTERLY (1000 HRS)	ANNUAL (5000 HRS)	MANHOURS PER INSPECTION	
5	Check all in-cab control functions for proper operation. Repair and replace control components as required.				X		0.7	3.5
6	Check hose reel for security mounting and leaks.			X			0.2	2
7	Unreel the entire length of hose, pressurize hose and check hose and nozzle for security, wear and leaks.					X	0.6	0.6
								16.10 Total

STEP	MSC/MST STRUCTURE	FREQUENCY						TOTAL ANNUAL MANHOURS
		WEEKLY (150 HRS)	MONTHLY (500 HRS)	QUARTERLY (1000 HRS)	SEMI-ANNUAL (2500 HRS)	ANNUAL (5000 HRS)	MANHOURS PER INSPECTION	
1	Check filler port trash screen for debris and inspect assembly for security and damage. Repair or replace trash screen as required.	X					0.2	6.67
2	Visually inspection tank exterior for damage and evidence of leaks. Repair as required.		X				0.5	5
3	Drain tank and remove water pump sump access cover. Remove trash and inspect sump area for damage.		X				0.5	5
4	Check all lights (turn signal, brake, backing, parking, clearance and work) for proper operation. Replace lights as required.		X				0.6	6
5	Check all interior tank structure for leaks, cracks and condition of epoxy coating (if equipped). Repair structure and coatings as required.				X		3	6
6	Check body pad and guides for cracks, security and damage. Repair or replace as required.	X					0.3	10
7	Check the bogie structure for any cracking. Close attention should be paid to all gusseting, as well as to the wheel group mounting plates. Repair structure as required.					X	3	3
8	Check all components on the bogie for leaks and/or damage. These components include air tanks, air lines, brake pods, hydraulic connections, spray bar, dump bar, and wheel groups. Repair or replace as required.		X				1	10
								48.67 Total

SECTION 2

Scheduled Maintenance Inspections

STEP	M-4, M-4B WATER PUMP SYSTEM	150 HRS (WEEKLY)	250 HRS (BI-WEEKLY)	500 HRS (MONTHLY)	1,000 HRS (QUARTERLY)	5,000 HRS (ANNUALLY)	MANHOURS PER INSPECTION	TOTAL ANNUAL MANHOURS
1	Remove water pump from unit and check: water pump impeller retaining bolt/nut for security and for damage or contact to the impeller, impeller keyways for wear and security, shaft bearings for signs of heating and wear, drive end shaft keyways for signs of damage and heating and seals for security, damage and over or under lubrication. Check volute case for damage or contact. Check both of the impeller wear rings for damage and excessive wear (0.020" or 0.5 mm nominal tolerance) Check packing mount for security. (Disassembly of water pump is required to perform these maintenance operations). Repair as required.					X	5	5
2A	(This Step For M-4 Pump Only) Check shaft seals for excessive lubricant leakage and water leakage. Lubricate water pump with a manual grease gun only. When lubricating the drive motor side shaft bearing and the impeller end bearing, apply 16 to 20 squirts (injections) of grease (2 fl. oz. or 60 cc) to each. Apply 4 or 5 squirts (injections) of grease to lantern ring grease fitting. Adjust, repair or replace as required.		X				0.3	6
2B	(This Step For M-4B Pump Only) Check shaft seals for excessive lubricant leakage and water leakage. When lubricating, apply 5.5 fl oz (150 cc) of grease to the drive end bearing and 2.5 fl oz (75 cc) of grease to the impeller end bearing. Adjust, repair or replace as required.		X					6
3	Check water pump and drive motor for leaks, excessive vibration/noise leaks and evidence of excessive heating. Repair as required.	X					0.3	6
4	Check rope seals for excessive water leakage, compression, wear and overheating. Adjust rope packing seal packing gland or replace rope packing seals as required.	X					0.3	6
5	Check water pump inlet and discharge piping for security, leakage and misalignment. Repair leaks as required.		X				0.2	2
								25 Total

SECTION 2
Scheduled Maintenance Inspections

SECTION 3 Special Inspections

Contents

Description	3-1
Fire Suppression System.....	3-1

DESCRIPTION

This section contains special inspection requirements for a specific system after use, an unusual event or storage.

FIRE SUPPRESSION SYSTEM

AFTER USE

1. Flush foam concentrate supply hose, water cannon and nozzle with fresh water.
2. Adequately lubricate adjustable nozzle (if equipped) for smooth operation.
3. Inspect foam concentrate hose for signs of collapsing, kinks, wear or leaks.
4. Wash down all water tank and vehicle surfaces that were exposed to the foam or foam concentrate.

COLD WEATHER OPERATION AND STORAGE

CAUTION

Ice will cause serious damage to water pump, spray heads, butterfly valves and the water cannon if water is allowed to remain in the volute case, water piping or on top of a closed butterfly valve and freeze. Ensure all water is drained from system when the temperatures are expected to fall below freezing for any period of time. Failure to ensure all systems are drained and free from standing water will result in shaft, operator, diaphragm, drive motor, water pump, or butterfly valve damage when operation is attempted with ice in the housings.

To ensure that all water is drained from tank, check the following:

1. Remove any exterior dirt, grease and grime that may trap moisture.

2. Flush all water suction and discharge lines (e.g. water pump, spray heads, monitor, dump bar and hose reel).
3. Ensure all water is drained from the MSC/MST.
4. **(If equipped)** Fully extend hose reel and ensure nozzle and hose are fully drained of water.
5. Remove lowest drain plugs on the water pump and the MSC/MST. Ensure all suction and discharge lines are drained.
6. (If equipped) Inspect MSC/MST interior epoxy coating for wear.
7. Prime and paint any exposed metal.
8. Seal all fill and discharge openings to keep foreign matter out (e.g. dirt, dust, insects, rodents and water).
9. Lubricate the water pump and any other MSC/MST component that require grease.
10. Service all vehicle systems per prime mover service manual.
11. If possible, shelter the pump assembly from the elements.
12. Check to ensure all MSC/MST solenoid and junction boxes are closed and secure.
13. If possible, shelter entire vehicle from the elements.

To restore unit to service from drained storage:

1. Remove all covers and seals from all MSC/MST fill/discharge openings and components.
2. Inspect interior of the tank for any foreign matter and condition of epoxy coating (if equipped).

SECTION 3

Special Inspections

3. Check to ensure all water pump and MSC/MST drain plugs are installed.
4. Remove any exterior dirt, grease and grime and treat any corrosion.
5. Service all vehicle systems per prime mover service manual.
6. Fill MSC/MST with water and inspect the systems for leaks.
7. (If equipped) Perform a functional check of the hose reel.
8. Perform a full functional check of all MSC/MST cab controls systems.

SECTION 4

Recommended Support Parts

Contents

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DESCRIPTION

This section contains a listing of recommended support parts that should be available in the supply warehouse. The tables are categorized by specific sub system of the MSC/MST. **DO NOT FORGET** that all MSC/MSTs are not configured the same and there are several variations of water pumps, hydraulic drive motors, monitors and BFVs. Ensure MSC/MST serial numbers and actual component part numbers are checked before ordering any parts. Once parts are issued from warehouse stock ensure depleted quantities are replenished to keep the recommended support parts package at 100%.

Several support parts are designated as a "**Quick Change Component (QCC)**" and should be used to minimize repair time of an operational MSC/MST. Broken assemblies can be repaired by maintenance and later returned to the supply warehouse as a serviceable part.

A. SPRAY HEAD PARTS GROUP		
PART DESCRIPTION	PART NO.	QTY
1. Drop-in Assembly	300409	6
2. Diaphragm	300208	18
3. Guide Disk, Lower	300209	2
4. Guide Disk, Upper	300210	2
5. Stem Bolt	300211	2
6. O-Ring, Stem Bolt	300215	4
7. Nut, Stem	300214	2
8. Washer, Bell	300212	2
9. Cap Screw, SS, Housing	355335	16
10. Washer, Lock, SS, Housing	355337	16
11. Washer, Flat, SS, Housing	355336	16
12. Adjusting Ring	300216	6
13. Knob, Adjusting Ring	302912	6
14. O-Ring, Base	354502	16
15. Washer, Flat (Base Plate Mount)	355295	8
16. Bolt (Base Plate Mount)	355294	8
17. Hydraulic Spray System **MSC/MST Serial No. Specific Part		
a. (STD) Hydraulic Spray Head Assy. (<i>Quick Change Component</i>)	025610	2
b. Cylinder, Hydraulic	304744	2
c. Nut, Hex ½ x 20	350044	4
d. Spring	305304	1
18. Pneumatic Spray System **MSC/MST Serial No. Specific Part		
a. (STD) Pneumatic Spray Head Assy. (<i>Quick Change Component</i>)	300198	2
b. Valve, Release	300468	2
c. Spring	300213	1
19. Hydraulic Stainless Steel Spray Head, 3 inch **MSC/MST Serial No. Specific Part	047062	2

SECTION 4

Recommended Support Parts

B. CONTROL SYSTEM PARTS GROUP		
PART DESCRIPTION	PART NO.	QTY
1. Joystick, Universal **MSC/MST Serial No. Specific Part	303041	1
2. Timer, Intermittent **MSC/MST Serial No. Specific Part	304751	1
3. Switch, SPST, Green Lens (Cab Control)	305019	1
4. Switch, SPST, White Lens (Cab Control)	305020	1
5. Switch, DPDT, No Lens (Cab Control)	305021	2
6. Sensor, Water Level ** MSC/MST Serial No. Specific Part		
a. Units with Water Level Volume, <120 inches	303822	1
b. Units with Water Level Volume, >120 inches	304414	1
7. Hydraulic Spray System ** MSC/MST Serial No. Specific Part		
a. a. Solenoid Valve, Hydraulic (Solenoid Box)	305156	2
b. b. Coil, 24 VDC with Connector	305590	2
c. c. Filter Element (Solenoid Box)	305276	1
d. d. Repair Kit, Hydraulic Filter (for Filter Assy. 305277)	305918	2
8. Pneumatic Spray System ** MSC/MST Serial No. Specific Part		
a. a. Solenoid Valve, Pneumatic (Spray Head Valve)	304929	1
b. b. Solenoid Valve, Pneumatic (Butterfly Valve)	304948	1

C. DIGITAL SPRAY SYSTEM CONTROL GROUP		
NOTE: Serial No. & Software Revision Required		
PART DESCRIPTION	PART NO.	QTY
1. Switch Box Enclosure	306401	1
2. Fuse, Blade 10 Amp (Switch Box Power)	306524	1
3. Joystick Box Enclosure	306402	1
4. Joystick, Universal	303041	1
5. Controller, without cover plate (requires specific address settings), Contact MEGA Product Support Group before replacing.	306662	1
6. Programmer, Digital Control, Contact MEGA Product Support Group before ordering.	306679	1
7. Cable 6', 18 Gauge, Joystick to Switch Box	046057	1
8. Cable 45', 18 Gauge, Switch Box to Enclosure A, Controller with Pigtail	046059	1
9. Switch, Mini Series, Clip panel Mount, 12V, Green	306406	2
10. Switch, Mini Series, Clip Panel Mount, 12V, Red	306407	1
11. Switch Rocker, (ON) OFF (ON), Quick Connect	306408	1
12. Switch, Hole Plug, Mini Series, Clip Panel Mount, Black	306409	2
13. Cable Assembly, EWLI	046786	1
14. Fuse, Blade 5 Amp (Solenoid Box Controllers)	306525	4
15. Water Sensor with Pigtail	306626	1
16. Fuse, Main Power, Max 50 Amp (Solenoid Box)	306384	1
17. Ground Speed Sensing Module **Serial No. & Revision Specific	306530	1
a. GPS Junction Box	306419	1
b. GPS With Cable & Plug Assembly	306420	1
c. Cable Assembly, LIN 10'	046380	1

SECTION 4

Recommended Support Parts

D. WATER PUMP PARTS GROUP (M-4)

PART DESCRIPTION	PART NO.	QTY
1. M-4 ** MSC/MST Serial No. Specific Part (QCC)	304991	1
2. Ring Packing, Shaft Seal	305114	3
3. Shaft Kit	305403	1
4. Impeller Kit	305404	1
5. Drill Guide	044583	1
6. Coupling	305102	1
7. Screw, Set	305107	2
8. Seal, O-ring, Volute	305111	1
9. Gasket, Inlet Flange	302527	1
10. Bolt, Impeller	305627	1
11. Packing Gland Set	305098	1
12. Slinger	305100	1
13. Stud, Packing Gland	305105	2
14. Nut, Packing Gland	305288	4
15. Ring, Lantern	305112	1

E. WATER PUMP PARTS GROUP (M-4B)

PART DESCRIPTION	PART NO.	QTY
1. M-4B, Standard Cast Water Pump Assembly ** Serial No. Specific Part (QCC)	306200	1
2. M-4B, Corrosion Resistant Water Pump Assembly ** Serial No. Specific Part (QCC)	306201	1
3. Impeller Kit, M-4B	306664	1
4. Rope Packing Kit, M-4B	306766	1
5. Shaft Kit, M-4B	306663	1
6. Overhaul Kit, M-4B	306669	1
7. Gasket, Pump Inlet	302527	1
8. Gasket, Pump Outlet	012930	1
9. Gasket, Sump Flange	040922	1
10. Petcock, Volute Drain, ½" Npt	300460	1
11. Coupling, Splined Drive	301927	1

F. HYDRAULIC DRIVE MOTOR PARTS GROUP

PART DESCRIPTION	PART NO.	QTY
1. Motor, Hydraulic ** MSC/MST Serial No. Specific Part		1
2. Flow Control Valve	300161	1

SECTION 4

Recommended Support Parts

G. WATER CANNON SUPPORT PARTS GROUP		
PART DESCRIPTION	PART NO.	QTY
1. Joint Rebuild Kit	305141	1
2. Electric Water Cannon ** MSC/MST Serial No. Specific Part		
a. Motor, Electric	304618	1
3. Hydraulic Water Cannon ** MSC/MST Serial No. Specific Part		
a. Motor, Hydraulic	304656	1
b. Solenoid Valve (Water Cannon Control Valve Assembly)	304858	1
c. Solenoid Coil (Water Cannon Control Valve Assembly)	304859	2

H. MISCELLANEOUS PARTS GROUP		
PART DESCRIPTION	PART NO.	QTY
1. Valve, Butterfly, 3"	300030	1
2. Valve, Butterfly, 4" ** MSC/MST Serial No. Specific Part	300031	1
3. Valve, Gate, 1.5" (Spray Bar)	300106	1
4. Valve, 3/4" Ball (Spray Bar)	300627	2
5. Seal, Coupling, 4" Dresser	300820	2
6. O-Ring, #24 (Split Flange)	354816	20
7. Nozzle Tip, Water Cannon, 1.5" ** MSC/MST Serial No. Specific Part	300091	1
8. Nozzle Tip, Water Cannon, 1/0" ** MSC/MST Serial No. Specific Part	300087	1

If your system is not covered in this manual or are having difficulties locating the necessary components please contact MEGA Corp. Product Support Group at:
 US Toll Free: 1-800-345-8889 or
 Direct: 1-505-345-2661 or visit our website at www.megacorpinc.com for more detailed contact information.