

Operation Instruction and Parts List for EMERGENCY STOP AND OVERLOAD VALVE

This instruction sheet provides information for personnel to operate and maintain the Emergency Stop and Overload valve.

This sheet should be used in conjunction with Parts, Operation and Maintenance Manual form MHD56114.

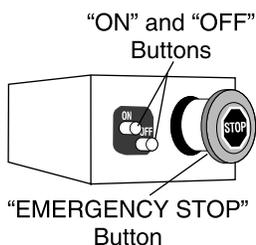
OPERATION

Emergency Stop (optional feature)

Refer to Dwg. MHP2087 on page 2. The emergency stop device is located on the pendant. When activated, winch drum rotation will immediately cease. To activate emergency stop valve conduct the following:

1. Depress (push down) red palm valve.
2. Press emergency stop button on remote control pendant (optional feature).

Emergency Stop Valve Operation



(Dwg. MHP0754)

NOTICE

• If winch overload occurs, overload device, if equipped, also stops winch by activating the emergency stop device. To operate winch after an overload, reduce load and reset emergency stop.

Reset Emergency Stop Valve:

Refer to Dwg. MHP0754.

1. Rotate black ring, located on stop button, in clockwise direction until red stop button 'pops' up.
2. Depress emergency stop valve 'ON' button.
3. Winch is ready to resume operation.

Overload Device (optional feature)

An overload device is available on winches provided with the emergency shutoff valve option. Overload device operation is based on differential pressure between air motor inlet and exhaust. The overload device is factory preset to actuate at 150% (+/- 25%) of winch rated capacity.

When an overload condition is sensed, air is directed to the emergency shutoff valve. Emergency shutoff valve activates to secure supply air to winch, stopping winch operation. If an overload shutoff occurs, winch load must be reduced. Reset the emergency stop valve and operate winch in payout direction to lower load.

Overload Valve Adjustment

Refer to Dwg. MHP2087 on page 2.

1. Adjust overload valve by turning setscrew located at bottom of Delta-P valve.
2. Rotating setscrew **clockwise** will **increase** pressure required to activate overload valve.

WARNING

• This adjustment can cause overload device to **NOT** activate before winch's safety limit is exceeded. This procedure should only be done by personnel trained in testing and servicing this winch.

3. Rotating setscrew **counterclockwise** will **decrease** pressure required to activate overload valve.

Checking Overload Valve Setting:

4. Attach load line to a load that is calibrated to the maximum load for which winch is rated. Move control lever to haul-in position. If winch does not lift load, adjust the setscrew as described above.

Setting the Overload:

5. Attach load line to a load that is calibrated to 150% of winch rated capacity. Shift control lever to haul-in position.
 - a. If overload valve is activated, reset emergency stop valve. Winch is ready for normal operation
 - b. If winch lifts load, lower load. Turn adjustment screw counterclockwise in ¼ turn increments until overload valve is activated when control lever is shifted to haul-in position. After each ¼ turn, retest winch.

Form MHD56218

Edition 2

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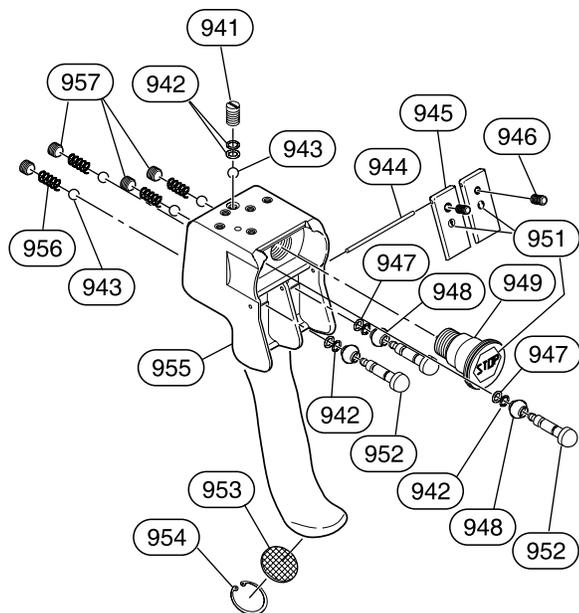
EMERGENCY STOP AND OVERLOAD ASSEMBLY PARTS LIST

ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER	ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER
901	Fitting, Elbow	8	52179	917	Fitting, Connector	4	71048268
902	Fitting, Tee	1	54081	918	Capscrew	4	50829
903	Fitting, Hose End	12	51029	919	Washer	4	50893
904	Fitting, Nipple	2	52092	921	Manifold	1	13881
905	Hose Bulk (specify length)	As Req'd	50923-XX	922	Washer	4	50200
906	Breather	1	50595	923	Capscrew	4	51780
907	Shuttle Valve	1	71269036	924	Fitting, Nipple	1	53939
908	Fitting, Elbow	1	54273	925	Fitting, Tee	1	52181
909	Shut Off Valve	1	25541	926	Fitting, Union	1	71149355
911	Fitting, Elbow	2	71273676	927	Capscrew	2	54240
912	Fitting, Nipple	4	71057483	928	Fitting, Elbow	3	71327316
913	Muffler	2	52472	929	Delta-P Valve	1	36360002
914	Fitting, Elbow	1	71330112	931	Delta-P Bracket*	1	26148
915	Fitting, Nipple	5	71078158	932	Capscrews (for bracket)*	2	71327324
916	Pendant Assembly	1	PHS2E-U	933	Fitting, Tee	1	71067789

XX Order in even foot increments; i.e., 50923-03 = 3 feet (1 metre)

* Items not shown

PENDANT AND PILOT VALVE ASSEMBLY DRAWING AND PARTS LIST



(Dwg. MHP2088)

Pendant Assembly Parts List

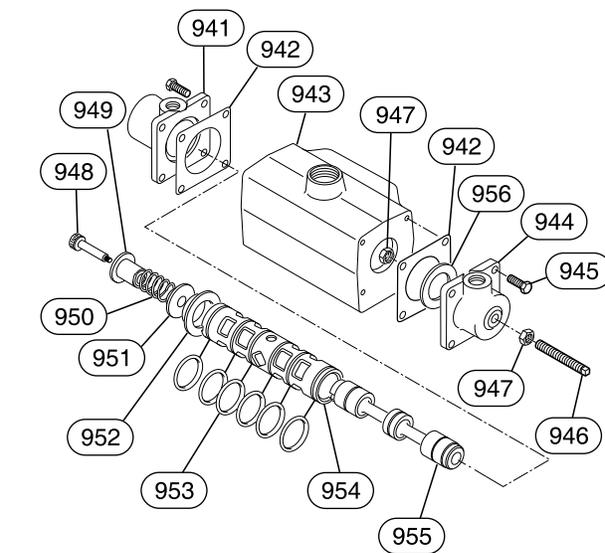
ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER	ITEM NO.	DESCRIPTION OF PART	QTY TOTAL	PART NUMBER
941	Plug	3	95790106	949	Emergency Stop Valve	1	95790108
•942	'O' Ring	5	58209229	951	Label Kit	1	95790111
943	Ball	5	69401625	952	Valve	3	95790104
944	Pin	1	95790040	953	Exhaust Washer	1	67600303
945	Lever	2	95790122	954	Retainer Ring	1	47713030
946	Setscrew	2	42006207	955	Pendant Handle	1	order item 916
•947	'O' Ring	3	58235329	956	Spring	4	69128541
948	Protector	3	95790107	957	Plug	4	65107741

Pilot Valve Assembly Parts List

934	Pilot Valve Assembly (1)	1	20993	949	Guide	1	71136741
941	End Cap	1	71136725	950	Spring	1	71136758
942	Gasket	2	71136733	951	Washer	1	71136774
943	Valve Body	1	(2)	952	Spacer	1	71136766
944	End Cap Assembly (3)	1	25591	953	'O' Ring	6	71136782
945	Capscrew	8	71030118	954	Valve Sleeve	1	Part of item 355
946	Adjusting Screw	1	53545	955	Valve Spool	1	
947	Nut	2	50176	956	Washer	1	71332324
948	Shoulder Screw	1	54710				

• Recommended spare for one winch, 2 years of normal operation

1. Includes items 941 through 956.
2. Not sold separately, order item 355.
3. Includes items 946 and 947.



(Dwg. MHP2089)