

MCR TROLLEY VALVE RENEWAL KIT INSTALLATION INSTRUCTIONS

INTRODUCTION

The MCR air trolley had no trolley speed adjustability. It was either on or off. Many customers had expressed an interest in having the same speed adjustability in the trolley as in the hoist. The MCR Valve Renewal kit provides that speed adjustability for the MCR air trolley.

PURPOSE & SCOPE

Provide instructions to install the MCR Valve Renewal kit that will allow trolley speed adjustability for the MCR1000, MCR3000 and MCR6000 air trolleys.

INFORMATION

To provide more trolley speed adjustability or “feathering” similar to the TCR hoist, three (3) trolley valve body parts, listed below, were redesigned. **The part numbers did not change** because the previous design parts are no longer available, only the redesigned ones.

An exploded parts view with the redesigned parts identified follows.

Fig. No.	Description	Qty.	MCR1000 MCR3000 MCR6000
N/A	MCR Valve Renewal Kit	1	MCR42260102D
52	Valve Bushing	1	MCR422601020
55	Piston	2	MCR422601050
67	Element Holder	2	MCR426221G50

Do to the possibility of damage during removal, O-Ring items 53 and 56 must be replaced. The O-Ring part numbers are listed below.

Fig. No.	Description	Qty.	MCR1000 MCR3000 MCR6000
53	O-Ring	4	MCR131117026
56	O-Ring	2	MCR131151025



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Installation Instructions

Disassembly

1. Remove 4 socket head cap screws (70) from the left and right valve caps (60).
2. Remove both valve caps (60) from the valve body (51).
3. Remove socket head cap screws (58) and sealing washers (59) from the left and right pistons (55).
4. Remove the valve bushing (52), throttle valve (54), and piston shaft (57) from the valve body (51).
5. Remove the piston shaft (57) from the throttle valve (54).
6. Remove the element holder (67), element (68), and sealing washers (69) from the left and right valve caps (60).

Installation

1. Assemble the new element holders (67) supplied in the kit to the existing elements (68), and sealing washers (69), and install on the valve caps (60).
2. Install 4 **NEW** O-rings (53) (MCR131117026 ordered separately) on the valve bushing (52) supplied in the kit.
NOTE: Do not over stretch O-rings during installation.
3. Lubricate the existing throttle valve (54), and install in the valve bushing (52) supplied in the kit.
4. Lubricate and install the existing piston shaft (57), and install in the throttle valve (54).
5. Install **NEW** O-rings (56) (MCR1311151025 ordered separately) on the new pistons (55) supplied in the kit.
6. Insert the socket head cap screws (58) and sealing washers (59) into the new pistons and install the pistons on the piston shaft (57). Torque the socket head cap screws to 4 Lb/Ft.
7. Lubricate all O-rings, and carefully install the spool bushing assembly into the valve body bore until it is centered.
8. Install the left and right valve caps (60) with the socket head cap screws (70). Tighten the socket head cap screws to 4 Lb/Ft.
9. Verify operation.

END

