



KEES, INC.

Products for Sheet Metal HVAC, Food Service, & Architectural Construction Industries

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MODEL BO & BI OPERATION AND MAINTENANCE MANUAL

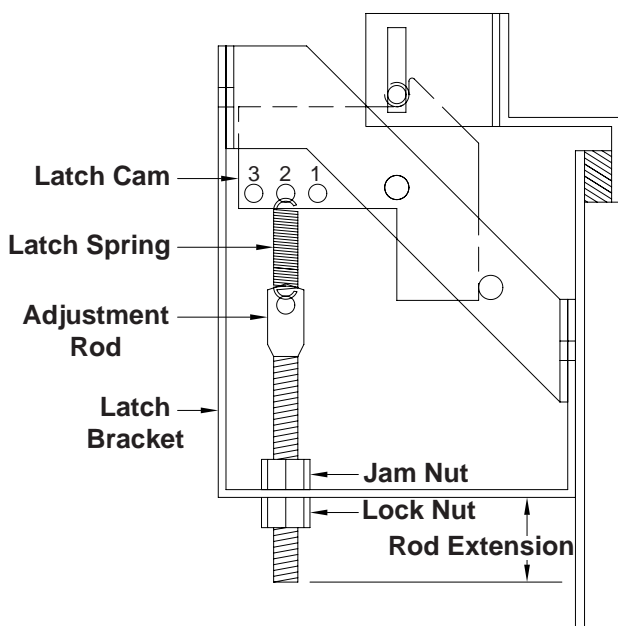
CAUTION: STAND CLEAR OF BO DOOR. BO PRESSURE RELIEF DOOR MAY SWING OPEN RAPIDLY WITHOUT WARNING.

LATCH MAINTENANCE: Clean and lubricate latch mechanism every six months.

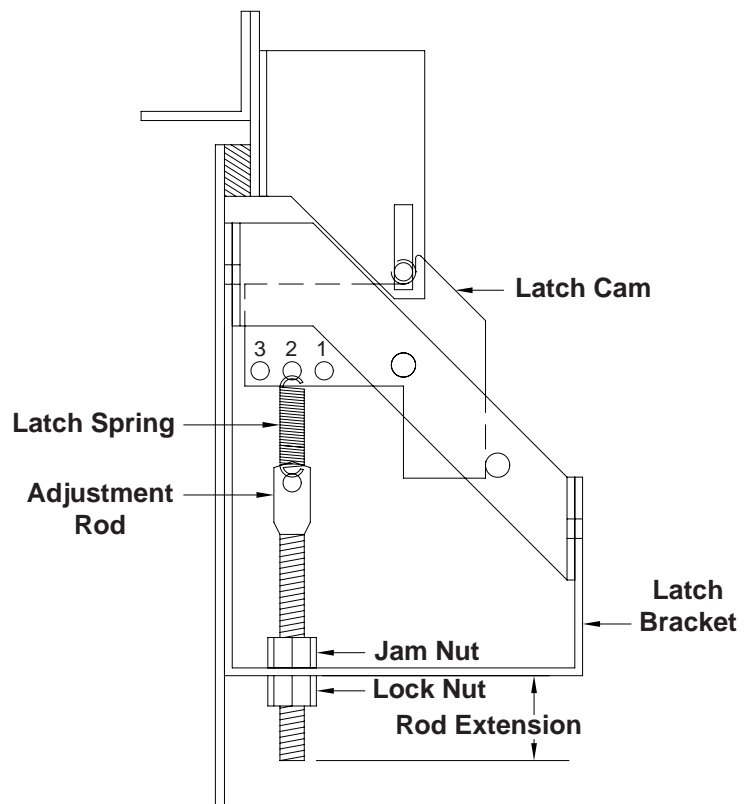
LATCH ADJUSTMENT: Should it be necessary to change the latch setting from the factory setting, follow the steps listed below:

1. Latch adjustments should be made with the duct system turned off i.e. no pressure in the duct.
2. Grip the threaded Adjustment Rod at the spring end with pliers while loosening the Lock Nut. Loosen the Jam Nut as required for adjustment.
3. Adjust the Latch Spring tension by repositioning the Lock Nut to achieve the required Adjustment Rod extension. Refer to the other side for Adjustment Rod extension settings. It may be necessary to relocate the Spring and Adjustment Rod to another Latch Cam Hole (if so, be sure the Adjustment Rod is located in the Latch Bracket Hole corresponding to the Latch Cam Hole).
4. Tighten the Jam Nut once the Lock Nut has been adjusted.

BO Latch



BI Latch



24" x 10" BO PARTS SELECTION VS. RELEASE PRESSURE					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	NOT AVAILABLE				NOT AVAIL.
3	SH8K24 4.00	37051G 12.7	1	0.90	
3.5	SH8K24 4.00	37051G 12.7	1	1.17	
4	SH8K24 4.00	37051G 12.7	2	1.09	
4.5	SH8K24 4.00	37051G 12.7	2	1.36	
5	SH8K24 4.00	37051G 12.7	3	1.10	
5.5	SH8K24 4.00	37057G 34.8	1	1.25	
6	SH8K24 4.00	37057G 34.8	1	1.32	
6.5	SH8K24 4.00	37057G 34.8	1	1.39	
7	SH8K24 4.00	37057G 34.8	1	1.46	
7.5	SH8K24 4.00	37057G 34.8	1	1.53	
8	SH8K24 4.00	37057G 34.8	2	1.33	
8.5	SH8K24 4.00	37057G 34.8	2	1.37	
9	SH8K24 4.00	37057G 34.8	2	1.42	
9.5	SH8K24 4.00	37057G 34.8	2	1.46	
10	SH8K24 4.00	37057G 34.8	2	1.50	

24" x 12" BO PARTS SELECTION VS. RELEASE PRESSURE					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	NOT AVAILABLE				NOT AVAIL.
3	SH8K24 4.00	37051G 12.7	1	0.99	
3.5	SH8K24 4.00	37051G 12.7	2	0.85	
4	SH8K24 4.00	37051G 12.7	2	1.02	
4.5	SH8K24 4.00	37057G 34.8	1	1.09	
5	SH8K24 4.00	37057G 34.8	1	1.28	
5.5	SH8K24 4.00	37057G 34.8	1	1.36	
6	SH8K24 4.00	37057G 34.8	1	1.43	
6.5	SH8K24 4.00	37057G 34.8	1	1.51	
7	SH8K24 4.00	37057G 34.8	2	1.28	
7.5	SH8K24 4.00	37057G 34.8	2	1.33	
8	SH8K24 4.00	37057G 34.8	2	1.38	
8.5	SH8K24 4.00	37057G 34.8	2	1.43	
9	SH8K24 4.00	37057G 34.8	2	1.48	
9.5	SH8K24 4.00	37057G 34.8	2	1.53	
10	SH8K24 4.00	37057G 34.8	2	1.57	

24" x 10" BI PARTS SELECTION VS. RELEASE PRESSURE					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	NOT AVAILABLE				NOT AVAIL.
3	SH8K24 4.00	37051G 12.7	1	0.84	
3.5	SH8K24 4.00	37051G 12.7	1	0.98	
4	SH8K24 4.00	37051G 12.7	1	1.22	
4.5	SH8K24 4.00	37051G 12.7	2	1.05	
5	SH8K24 4.00	37051G 12.7	3	1.10	
5.5	SH8K24 4.00	37057G 34.8	1	1.25	
6	SH8K24 4.00	37057G 34.8	1	1.32	
6.5	SH8K24 4.00	37057G 34.8	1	1.39	
7	SH8K24 4.00	37057G 34.8	1	1.46	
7.5	SH8K24 4.00	37057G 34.8	1	1.53	
8	SH8K24 4.00	37057G 34.8	2	1.33	
8.5	SH8K24 4.00	37057G 34.8	2	1.37	
9	SH8K24 4.00	37057G 34.8	2	1.42	
9.5	SH8K24 4.00	37057G 34.8	2	1.46	
10	SH8K24 4.00	37057G 34.8	2	1.50	

24" x 12" BI PARTS SELECTION VS. RELEASE PRESSURE					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	NOT AVAILABLE				NOT AVAIL.
3	SH8K24 4.00	37051G 12.7	1	1.00	
3.5	SH8K24 4.00	37051G 12.7	2	0.96	
4	SH8K24 4.00	37051G 12.7	2	1.20	
4.5	SH8K24 4.00	37057G 34.8	1	1.28	
5	SH8K24 4.00	37057G 34.8	1	1.36	
5.5	SH8K24 4.00	37057G 34.8	1	1.43	
6	SH8K24 4.00	37057G 34.8	1	1.51	
6.5	SH8K24 4.00	37057G 34.8	2	1.28	
7	SH8K24 4.00	37057G 34.8	2	1.33	
7.5	SH8K24 4.00	37057G 34.8	2	1.38	
8	SH8K24 4.00	37057G 34.8	2	1.43	
8.5	SH8K24 4.00	37057G 34.8	2	1.48	
9	SH8K24 4.00	37057G 34.8	2	1.53	
9.5	SH8K24 4.00	37057G 34.8	2	1.57	
10	SH8K24 4.00	37057G 34.8	2	1.62	

18" BO PARTS SELECTION					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	SH10K33 4.95	37054G 20.2	1	0.86	
3	SH10K33 4.95	37054G 20.2	1	0.98	
3.5	SH10K33 4.95	37054G 20.2	2	0.94	
4	SH10K33 4.95	37054G 20.2	2	1.06	
4.5	SH10K33 4.95	37054G 20.2	2	1.20	
5	SH10K33 4.95	37054G 20.2	3	1.10	
5.5	SH10K33 4.95	37054G 20.2	3	1.20	
6	H16K48K 9	37057G 34.8	1	1.32	
6.5	H16K48K 9	37057G 34.8	1	1.43	
7	H16K48K 9	37057G 34.8	2	1.26	
7.5	H16K48K 9	37057G 34.8	2	1.36	
8	H16K48K 9	37057G 34.8	2	1.46	
8.5	H16K48K 9	37057G 34.8	3	1.30	
9	H16K48K 9	37057G 34.8	3	1.36	
9.5	H16K48K 9	37057G 34.8	3	1.42	
10	H16K48K 9	37057G 34.8	3	1.48	
10.5	H16K48K 9	37057G 34.8	3	1.52	

24" BO PARTS SELECTION					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	SH12K39 5.94	37057G 34.8	1	1.10	
2.5	SH12K39 5.94	37057G 34.8	1	1.28	
3	SH12K39 5.94	37057G 34.8	1	1.46	
3.5	SH12K39 5.94	37057G 34.8	2	1.26	
4	SH12K39 5.94	37057G 34.8	2	1.38	
4.5	SH12K39 5.94	37057G 34.8	3	1.30	
5	H16K48K 9.00	37057G 34.8	3	1.42	
5.5	H16K48K 9.00	37057G 34.8	3	1.50	
6 *	SH20R50 16.50	37057G 34.8	3	1.28	
6.5 *	SH20R50 16.50	37057G 34.8	3	1.37	
7 *	SH20R50 16.50	37057G 34.8	3	1.46	
7.5 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.36	
8 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.55	
8.5 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.60	
9 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.64	
9.5 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.67	

* Spring is not interchangeable with springs used for lower pressures.
** Rod in hole #2.

18" BI PARTS SELECTION					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	SH10K33 4.95	37054G 20.2	1	0.84	
3	SH10K33 4.95	37054G 20.2	1	0.92	
3.5	SH10K33 4.95	37054G 20.2	1	1.02	
4	SH10K33 4.95	37054G 20.2	2	0.94	
4.5	SH10K33 4.95	37054G 20.2	2	1.06	
5	SH10K33 4.95	37054G 20.2	2	1.20	
5.5	SH10K33 4.95	37054G 20.2	3	1.10	
6	SH10K33 4.95	37054G 20.2	3	1.20	
6.5	H16K48K 9	37057G 34.8	1	1.32	
7	H16K48K 9	37057G 34.8	1	1.43	
7.5	H16K48K 9	37057G 34.8	2	1.26	
8	H16K48K 9	37057G 34.8	2	1.36	
8.5	H16K48K 9	37057G 34.8	2	1.46	
9	H16K48K 9	37057G 34.8	3	1.30	
9.5	H16K48K 9	37057G 34.8	3	1.36	
10	H16K48K 9	37057G 34.8	3	1.42	
10.5	H16K48K 9	37057G 34.8	3	1.48	
11	H16K48K 9	37057G 34.8	3	1.52	

24" BI PARTS SELECTION					ROD
IWG	COIL SPRING P/N #	LATCH SPRING P/N #	SPRING HOLE #	EXTENSION INCHES	
2	NOT AVAILABLE				NOT AVAIL.
2.5	SH12K39 5.94	37057G 34.8	1	1.20	
3	SH12K39 5.94	37057G 34.8	1	1.36	
3.5	SH12K39 5.94	37057G 34.8	1	1.52	
4	SH12K39 5.94	37057G 34.8	2	1.26	
4.5	SH12K39 5.94	37057G 34.8	2	1.38	
5	SH12K39 5.94	37057G 34.8	3	1.30	
5.5	H16K48K 9.00	37057G 34.8	3	1.28	
6	H16K48K 9.00	37057G 34.8	3	1.36	
6.5	H16K48K 9.00	37057G 34.8	3	1.44	
7 *	SH20R50 16.50	37057G 34.8	3	1.40	
7.5 *	SH20R50 16.50	37057G 34.8	3	1.47	
8 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.36	
8.5 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.55	
9 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.60	
9.5 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.64	
10 *	SH20R50 16.50	37057G 34.8	1 & 3 **	1.66	

* Spring is not interchangeable with springs used for lower pressures.
** Rod in hole #2.