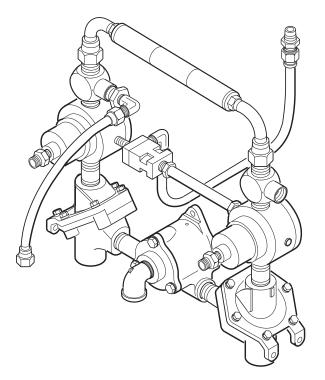
CLASSIC I-R AIR WINCH

REMOTE CONTROL

PILOT AIR VALVE KITS

PARTS LIST





READ THIS MANUAL BEFORE USING THESE PRODUCTS. This manual contains important safety and installation information. Make this manual available to all persons responsible for the operation, installation and maintenance of these products.

Always install, inspect and maintain these Remote Control Kits in accordance with American National Standards Institute Safety Code (ASME B30.7) and any other applicable safety codes and regulations.

Refer all communications to the nearest Ingersoll-Rand Material Handling Products Office or Distributor.

Form MHD56065 Edition 2 April 1998 71116552 © 1998 Ingersoll-Rand Company

INGERSOLL-RAND MATERIAL HANDLING

Reference Information

Winches must have the remote control valve chest installed in order to install the Pilot Air Valve Kit.

Table 1 lists the applicable winch manual necessary to determine any additional parts required to install the Pilot Air Valve Kit on your particular winch.

For assistance contact the factory or your nearest

Ingersoll-Rand distributor.

Table 1

WINCH MODELS	MANUAL FORM NUMBER
D6U and D6UL	P5637
HU, HUL, HUA, HUAL, HUB and HUBL	P5918
KU, KUA, KUL and KUAL	*
K4U AND K4UL	P5893
K5UL	P3695
K6U, K6UL, K6UL36, K6UL48, K6UA and K6UAL	P5869
ODR40A15	P6263
ODR60A20	P6264
ODR100A24 and ODR100A36	P6265

* Manual not available for these units. Reference Manual Form Number P5893 for general guidance.

General Notes

- 1. Item numbers of parts in this manual may not agree with the item numbers of identical parts as shown in other manuals. The item numbers in this manual are for use only in the identification of components associated with drawings found in this manual.
- 2. During installation, inspection and maintenance observe the following:
 - a. Maintain a clean, dust free work area.
 - b. Keep open piping and disassembled components covered to prevent the entry of dirt and contaminants into the system.
 - c. Observe proper safety requirements when operating this equipment.
 - d. Prior to disassembly, isolate the pilot air valve piping and the winch from the air source. Tag the air isolation control to prevent accidental operation when working on the system components.
 - e. When repairs have been completed, purge the piping with clean, filtered air prior to connecting the pilot air valve piping to the winch.
 - f. Test winch and pilot air valve piping components (including lever control or pendant) prior to allowing the unit to be used for general service.

Pilot Air Valve Adjustments

R Pendant Control Adjustments

The pilot air valve pendant remote control is factory set for maximum load conditions necessary for test certification. The system can be adjusted in the field for optimum control and performance on a particular application. Adjust the pendant as follows:

1. Set-up and operate hoist as described by the applicable winch operation manual listed in Table 1.

2. Adjust Up Signal Bleed Valve (17).

While lifting load, open up the signal bleed valve (17) enough to allow winch to reach full speed when the pendant lever is fully depressed.

If valve is not open far enough, the winch will reach full speed before the pendant lever is fully depressed. If valve is open to far, the winch will not reach maximum speed.

3. Adjust Down Signal Bleed Valve (17).

While lowering load, open down signal bleed valve (17) enough to allow winch to reach full speed when the pendant lever is fully depressed.

If valve is not open far enough, the winch will reach full speed before the pendant lever is fully depressed. If valve is open to far, the winch will not reach maximum speed.

4. Adjust Brake Bleed Valve.

This valve is similar to the signal bleed valve and is located in the brake signal line.

> Adjust the brake bleed valve to trim the brake release pressure to hold the load without back-dropping (lowering slightly after a stop) or over traveling.

If valve is not open far enough, the brake will release too soon causing the load to back drop. If valve is open too far, the brake will not release soon enough and it will drag.

Lever Control Adjustments

Adjust brake bleed valve as described in "Pendant Control Adjustments" section. No adjustment is necessary for the **UP** signal or **DOWN** signal on the lever control operator.

PILOT AIR VALVE KIT LIST

	PART NUMBER			
WINCH MODELS	Pendant Control Kit	Lever Control Kit		
D6U and D6UL with automatic brake	D6U-PAK269AB	D6U-PAK686AB		
EU, EUL with automatic brake				
HU, HUL, HUA, HUAL, HUB and HUBL with automatic brake	HU-PAK269AB	HU-PAK686AB		
H5U and H5UL with automatic brake				
KU, KUA, KUL and KUAL with automatic brake				
K4U AND K4UL with automatic brake	KU-PAK269AB	KU-PAK686AB		
K5UL with automatic brake	KU-PAK209AD			
ODR40A15 and ODR60A20 with automatic brake				
UW50A30 with automatic brake				
K6U, K6UL, K6UL36, K6UL48, K6UA and K6UAL with automatic brake	K6U-PAK269AB	K6U-PAK686AB		
ODR100A24 and ODR100A36 with automatic brake	K0U-FAK209AB	KUU-FAK080AB		

PARTS ORDERING INFORMATION

The use of other than **Ingersoll-Rand Material Handling Products** replacement parts will invalidate the Company's warranty.

If the Pilot Air Valve Kit was supplied as original equipment with your winch it is recommended that the following information be recorded for your convenience and future reference.

Winch Model Number:

Winch Serial Number: _____

Date Purchased: _

If the Pilot Air Valve Kit was installed after your original winch purchase (retro-fit) it is recommended that the following information should also be recorded with the above.

Pilot Air Valve Kit Part Number:

Date Purchased:

When ordering replacement parts, please specify the following:

- 1. Complete model number and serial number as it appears on the nameplate.
 - Examples:
 - a. D6U-PAK269 or D6U-PAK269AB
 - b. KU-PAK686 or KU-PAK686AB
- 2. Part number(s) and part description as shown in this manual.
- 3. Quantity required.

When the life of this equipment has expired, it is recommended that it be disassembled, degreased and parts separated as to materials so that they may be recycled.



• Continuing improvement and advancement of design may cause changes to this equipment which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.

Return Goods Policy

Ingersoll-Rand will not accept any returned goods for warranty or service work unless prior arrangements have been made and written authorization has been provided from the location where the goods were purchased.

For additional information contact:

Ingersoll-Rand Material Handling

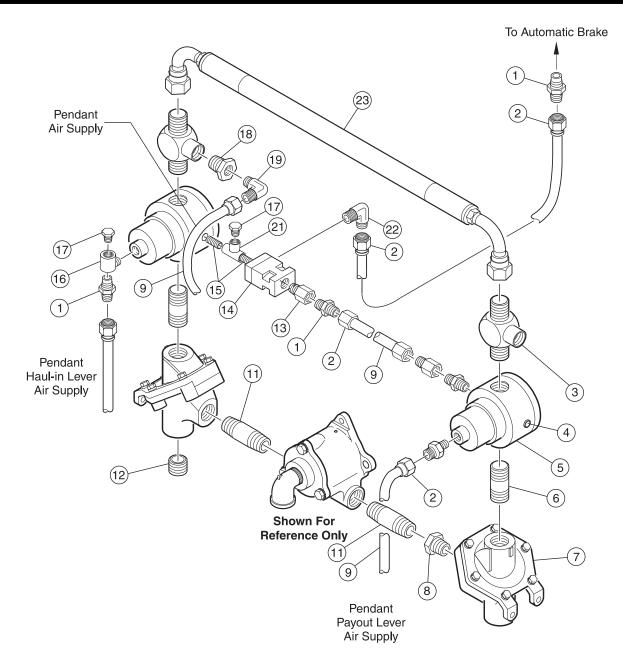
P.O. Box 24046 2724 Sixth Avenue South Seattle, WA 98124-0046 USA Phone: (206) 624-0466 Fax: (206) 624-6265

or

Ingersoll-Rand Material Handling

Samiia, Douai Operations 111, avenue Roger Salengro 59450 Sin Le Noble, France Phone: (33) 3-27-93-08-08 Fax: (33) 3-27-93-08-00

PILOT AIR VALVE KIT DRAWING



(Dwg. MHP0383)

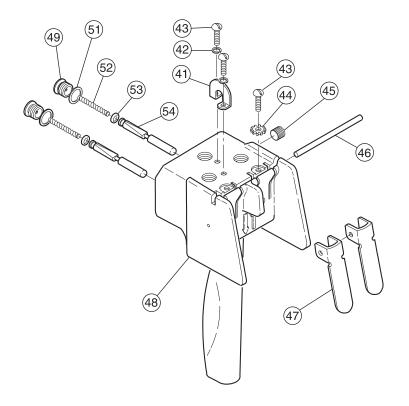
PILOT AIR VALVE KIT PARTS LIST

		QUANTITY REQUIRED		PART NUMBER			
ITEM DESCRIPTION NUMBER PART	DESCRIPTION OF PART	Pendant Control (269AB)	Lever Control (686AB)	D6U-PAK	HU-PAK	KU-PAK	K6U-PAK
1	Fitting, Adapter		5	53939			
2	Fitting, Swivel		5	51029			
3	Fitting, Tee		2	К6U-927			
4	Plug	2		ROH-377			
5	Regulator		2		K6U-200		
6	Fitting, Connector	2		517	51785 C10-286)-286
7	Dump Valve	2		KU-939			
8	Fitting, Bushing	2		C10-284	HX-284		
9	Bulk Hose *	Specify Length			50923		
11	Fitting, Connector	2		P25-200	HHM-286		
12	Vented Plug	2			PAK-943		
13	Adapter	1		51361707			
14	Valve, Shuttle	1			50277		
15	Fitting, Nipple	2			HUS-908		
16	Fitting, Tee	2				54	977
17	Bleed Valve	3		HU-264-4			
18	Fitting, Bushing	1		D01-705			
19	Fitting, Elbow	1		53934			
21	Fitting, Tee	2		K6U-926			
22	Fitting, Elbow	1		52182			
23	Hose With Fittings	1		НО-925 К6О-925			J-925

ACCESSORIES

Control Hose	Specify length	50923-XX
Quick Exhaust Valve	1 per 10 ft. of Control Hose	20417
Hose Binder	1 per 5 - 7 ft. of Control Hose	D10-927

PENDANT CONTROL ASSEMBLY DRAWING AND PARTS LIST

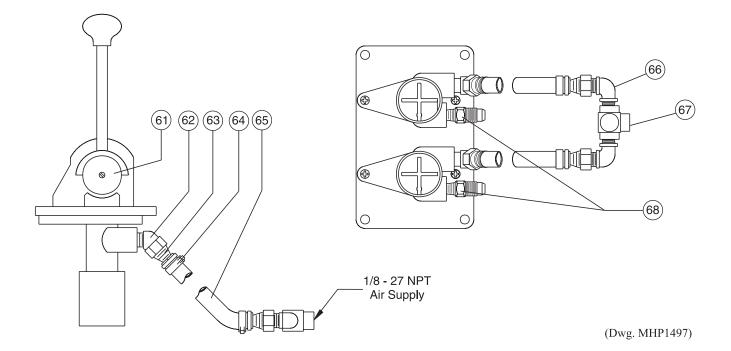


(Dwg. MHP1499)

ITEM NUMBER	DESCRIPTION OF PART	QTY. REQUIRED	PART NUMBER
40	Pendant Assembly (Consists of items 41 thru 54.)	1	MLK-A269C
41	Strain Relief Support	1	MLK-450
42	Lockwasher	2	H54U-352
43	Screw, SH	4	HRE20A-68
44	Lockwasher	2	D02-138
45	Pipe Plug	1	54247
46	Pin	2	DLC-120A
47	Throttle Valve Lever	2	MLK-273
48	Pendant Handle	1	MLK-269A
49	Throttle Valve Cap	2	MLK-266A
• 51	Gasket	2	MLK-504
52	Throttle Valve Spring	2	MLK-51A
53	Throttle Valve Face	2	R000BR1C-283
54	Throttle Valve	2	MLK-K264B

Recommended spare.

LEVER CONTROL ASSEMBLY DRAWING



ITEM NUMBER	DESCRIPTION OF PART	QTY. REQUIRED	PART NUMBER
60	Lever Control Valve Assembly (Consists of items 61 thru 68)	1	UWD-A686
61	Control Valve	1	VWD-686
62	Fitting, Elbow	2	25619
63	Fitting, Swivel	4	UWD-162
64	Clamp	4	CA110-476A
65	Hose	As Required *	50923-XX
66	Fitting, Elbow	2	MLK-161
67	Fitting, Tee	1	25620
68	Fitting, Straight	2	52092

XX = Order Hose (item 5) in feet; i.e., for 10 foot hose order 50923-10.

United States Office Locations

For Order Entry, Order Status and Technical Support Ingersoll-Rand Material Handling P.O. Box 24046 2724 Sixth Avenue South Seattle, WA 98124-0046 Phone: (206) 624-0466 Fax: (206) 624-6265

Ingersoll-Rand

Distribution Center P.O. Box 618 510 Hester Drive White House, TN 37188 Phone: (615) 672-0321 Fax: (615) 672-0801

Web Site at: www.ingersoll-rand.com Regional Sales Offices Chicago, IL 888 Industrial Drive Elmhurst, IL 60126 Phone: (630) 530-3873 Fax: (630) 530-3891

Detroit, MI

23192 Commerce Drive Farmington Hills, MI 48335 Phone: (248) 476-6677 Fax: (248) 476-6670

Houston, TX

450 Gears Road Suite 210 Houston, TX 77067-4516 Phone: (281) 872-6800 Fax: (281) 872-6807

Los Angeles, CA

11909 E. Telegraph Road Santa Fe Springs, CA 90670-0525 Phone: (562) 948-4189 Fax: (562) 948-1828

Philadelphia, PA

P.O. Box 425 900 E. 8th Ave., Suite 103 King of Prussia, PA 19406 Phone: (610) 337-5930 Fax: (610) 337-5912

International Office Locations

Offices and distributors in principal cities throughout the world. Contact the nearest **Ingersoll-Rand** office for the name and address of the distributor in your country or write/fax to:

Ingersoll-Rand

Material Handling P.O. Box 24046 2724 Sixth Avenue South Seattle, WA 98124-0046 USA Phone: (206) 624-0466 Fax: (206) 624-6265

Canada

National Sales Office Regional Warehouse Toronto, Ontario 51 Worcester Road Rexdale, Ontario M9W 4K2 Phone: (416) 213-4521 Fax: (416) 213-4510 Order Desk Fax: (416) 213-4605

Regional Sales Offices

Edmonton, Alberta 1430 Weber Center 5555 Calgary Trail N.W. Edmonton, Alberta T6H 2P9 Phone: (403) 438-5039 Fax: (403) 437-3145

Montreal, Quebec

3501 St. Charles Blvd. Kirkland, Quebec H9H 4S3 Phone: (514) 695-9040 Fax: (514) 695-0963 **British Columbia** 1200 Cliveden Avenue Delta, B. C. V3M 6G4 Phone: (604) 523-0803 Fax: (604) 523-0801

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