STANDARD DUTY HAND CHAIN HOISTS

SIZES 5RBS3, 10RBS3 and 20RBS3

3 Metre (9.84 ft.) Maximum Hook-To-Hook Length

SIZES 5RBS5, 10RBS5 and 20RBS5

5 Metre (16.4 ft.) Maximum Hook-To-Hook Length

WARNING THESE HOISTS ARE NOT TO BE USED FOR LIFTING OR LOWERING PEOPLE

SAFE OPERATING PRACTICES

- 1. Always make certain the load is within the rated capacity of the Hoist. Overloading can cause failure of some load-carrying part, or result in damage causing future failure with a load at less than the rated capacity.
- 2. When lifting a load, always use a sling or grab made specially for that purpose. Never wrap the load chain around the load and do not bring the load in contact with the Hoist.
- 3. Stand clear of all loads and avoid moving a load over the heads of other personnel. Warn personnel of your intention to move a load in their area.
- 4. Keep the Lower Hook Assembly overhead when not in use, but never leave a load suspended in the air when the Hoist is unattended.
- 5. Do not lower the hook to the point where the load chain becomes taut between the Loadwheel and the slack end anchor bolt.
- 6. WARNING: These Hoists are designed for manual operation. Never adapt them to any source of power operation. Doing so may result in structural damage and/or premature wear.

METRIC TOOLS MUST BE USED FOR MAINTENANCE OF THESE HOISTS

HOW TO ORDER

Order all repair parts for your Ingersoll-Rand Tool by the NAME and NUMBER shown in the Repair Part List section. Never use the illustration numbers which appear in the first column.

For prompt service and genuine Ingersoll-Rand parts, place orders with the nearest Ingersoll-Rand Branch Office or Authorized Distributor.

Notice: The use of other than genuine Ingersoll-Rand replacement parts may result in decreased tool performance and increased maintenance, and may, at the Company's option, invalidate all warranties.

FOR ADDITIONAL REPAIR SERVICE INFORMATION, REQUEST FORM S6384 SERVICE BULLETIN.

Refer All Communications to the Nearest Ingersoll-Rand Branch Office or Distributor. © Ingersoll-Rand Company 1977

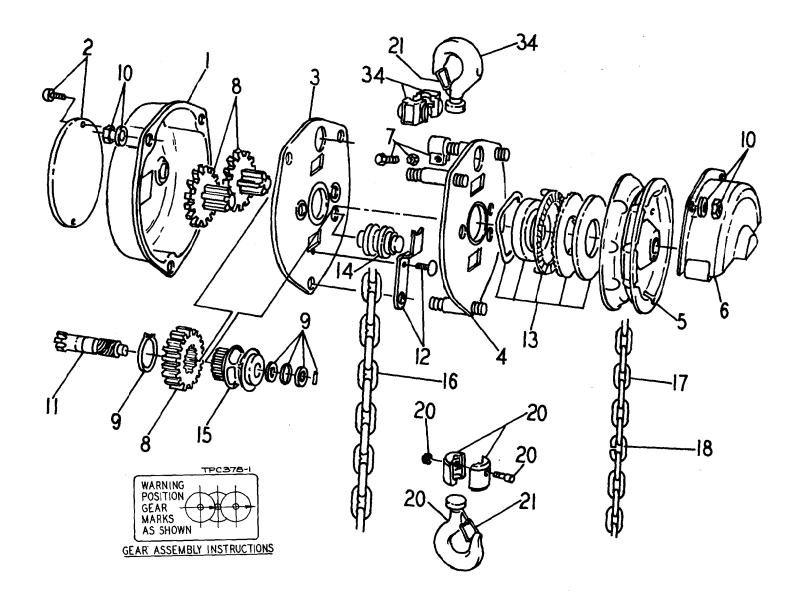
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Form P6384 Edition 3 June, 1977

> F A R T S

> > RULLETI



Standard Duty Hand Chain Hoist

REPAIR PART LIST

ILLUS. NUMBER (Do not use for ordering)	PART NAME FOR ORDERING	PART NUMBER FOR ORDERING	ILLUS. NUMBER (Do not use for ordering)	PART NAME FOR ORDERING	PART NUMBER FOR ORDERING
1	Gear Cover		+ 12	Chain Stripper with Screw	
	for 5RBS3 and 5RBS5	5RBS-FS1		for 5RBS3 and 5RBS5	5RBS-FS12
	for 10RBS3 and 10RBS5.	10RBS-FS1	H	for 10RBS3 and 10RBS5	10RBS-FS12
	for 20RBS3 and 20RBS5	20RBS-FS1))	for 20RBS3 and 20RBS5	20RBS-FS12
2	Nameplate Kit	20000101	+ 13	Brake Set	200051512
~	for 5RBS3 and 5RBS5	5RBS-A301		for 5RBS and 10RBS	5RBS-FS13
	for 10RBS3 and 10RBS5	10RBS-A301		for 20RBS	20RBS-FS13
	for 20RBS3 and 20RBS5	20RBS-A301	+ 14	Load Chain Guide	20KD5-1-515
+ 3	Gear Side Plate	201000 71301	. 14	for 5RBS3 and 5RBS5	5RBS-FS14
. 3	for 5RBS3 and 5RBS5	5RBS-FS3	•	for 10RBS3 and 10RBS5	10RBS-FS14
	for 10RBS3 and 10RBS5	10RBS-FS3	1	for 20RBS3 and 20RBS5	20RBS-FS14
	for 20RBS3 and 20RBS5	20RBS-FS3	+ 15	Loadwheel	20105-1-514
+ 4.	Handwheel Side Plate	201100100	15	for 5RBS3 and 5RBS5	5RBS-FS15
•	for 5RBS3 and 5RBS5	5RBS-FS4		for 10RBS3 and 10RBS5	10RBS-FS15
	for 10RBS3 and 10RBS5	10RBS-FS4		for 20RBS3 and 20RBS5	20RBS-FS15
	for 20RBS3 and 20RBS5	20RBS-FS4	16	Load Chain	20103-1313
+ 5	Handwheel	20105154	10	for 5RBS3	5RBS3-FS16
	for 5RBS3, 5RBS5, 10RBS3 and 10RBS5	5RBS-FS5	1	for 5RBS5	5RBS5-FS16
	for 20RBS3 and 20RBS5	20RBS-FS5		for 10RBS3.	10RBS3-FS16
6	Handwheel Cover	20100 1 00		for 10RBS5	10RBS5-FS16
O	for 5RBS3 and 5RBS5	5RBS-FS6		for 20RBS3.	20RBS3-FS16
	for 10RBS3 and 10RBS5	10RBS-FS6	1	for 20RBS5	20RBS5-FS16
	for 20RBS3 and 20RBS5	20RBS-FS6	17	Hand Chain	20KB33-F310
+ 7	Loose End Set	20KD3-1'30	1 ′	for 3 metre hook-to-hook	5RBS3-FS17
' '	for 5RBS3 and 5RBS5	5RBS-FS7		for 5 metre hook-to-hook.	5RBS5-FS17
	for 10RBS3 and 10RBS5	10RBS-FS7	18	Hand Chain Connecting Link	
	for 20RBS3 and 20RBS5	20RBS-FS7	20	Bottom Hook Assembly	5RBH-Y25
+ 8	Gear Set	20KD3-F3/	20		SDDG EGGG
т б	for 5RBS3 and 5RBS5	5RBS-FS8		for 5RBS3 and 5RBS5	5RBS-FS20
	for 10RBS3 and 10RBS5	10RBS-FS8	1	1	10RBS-FS20
			21	for 20RBS3 and 20RBS5	20RBS-FS20
9	for 20RBS3 and 20RBS5	20RBS-FS8	21	Latch	CDDG EGGs
9	for 5RBS3 and 5RBS5	5RBS-FS9	#	for 5RBS3 and 5RBS5	5RBS-FS21
	for 10RBS3 and 10RBS5	3KB3-F39 10RBS-FS9			10RBS-FS21
	for 20RBS3 and 20RBS5	20RBS-FS9	+ 34	for 20RBS3 and 20RBS5	20RBS-FS21
10		20KB5-F59	 	Top Hook Assembly	. CDDC DCC.
10	Cover Hardware Set	enne reio		for 5RBS3 and 5RBS5	5RBS-FS34
	for 5RBS3, 5RBS5, 10RBS3 and 10RBS5	5RBS-FS10		for 10RBS3 and 10RBS5	10RBS-FS34
. 11	for 20RBS3 and 20RBS5	20RBS-FS10		for 20RBS3 and 20RBS5	20RBS-FS34
+ 11	Pinion Shaft	EDDC'POLL		Safety Label	5RBS-598
	for 5RBS3 and 5RBS5	5RBS-FS11			
	for 10RBS3 and 10RBS5	10RBS-FS11			
	for 20RBS3 and 20RBS5	20RBS-FS11	1		

⁺ It is advisable to order an appropriate set of hardware covered by Illustration No. 9 with each of these assemblies since the shape of the fasteners is usually distorted during disassembly.

^{*} Not illustrated.

INSTALLATION

Before installing the Hoist, examine it thoroughly to make certain that it was not damaged during shipment.

After mounting and before placing in service, check the Hoist for proper operation. On Hoists having a bottom hook block, make certain that all strands of chain are straight with no twist as a result of having the hook block flipped through the chain loop. WARNING: Make certain the load chain feeds between the Loadwheel (15) and the Load Chain Guide (14) and seats properly in the pocket wheel by running the hook up and down a reasonable distance without a load. The chain should run freely with no snagging or binding.

Always rig the Hoist to lift in a straight line from hook to hook, and make certain the Hoist is always free to swivel on the upper hook. Under no condition should the frame or hanger be allowed to bear against any support as this could cause bending of the hook or frame and damage the unit.

Make certain the member from which the Hoist is suspended is completely seated in the saddle of the hook.

OPERATION

When preparing to lift or move a load, make certain the load is completely seated in the saddle of the hook. Avoid eccentric loading of any kind, especially loading on the point of the hook.

When lifting, raise the load just enough to clear the floor and then check to make certain the brake will hold the load. Continue the lift only after you are certain the load is free of all obstructions.

LUBRICATION

Lubricate load chain with a light coat of penetrating oil and graphite. Be sure the lubricant reaches the bearing surface between the links. Remove excess oil from the chain.

The brake on these Hoists is a wet type wherein the friction lining is impregnated with General Motors Automatic Transmission Fluid Dexron®. A small hole is provided in the center of the handwheel for relubricating the lining. When hand chain pull becomes excessive, lubricate the brake through the hole in the center of the handwheel with approximately 1.5 cc of Dexron. Open and close the brake with the handwheel while adding the fluid. The brake should then be left in the open position for about one hour to allow the fluid to soak into the lining. Then again operate the brake several times before putting the Hoist back into service.

CAUTION: Excessive lubrication or not allowing fluid to soak into the lining may result in erratic brake operation when lowering a load.

These Hoists normally require no additional lubrication except when the unit has been disassembled for cleaning or repairs.

If chain pull should increase significantly, it may be greatly reduced by relubricating hoist bearings. When this is done, use Dow Corning Corp. Molykote BR-2-S grease after thoroughly cleaning the old grease from the parts. At the same time, lubricate these parts as well:

Ratchet Spring
Gear Train
Bearings
Handwheel Thread
Roller Guide
Pinion Shaft Stem
Ratchet Teeth and Lugs
Upper and Lower Hook Seats
Bore of Loadwheel
Screw Brake Plate - Stepped Face

MAINTENANCE

Initiating a regular inspection procedure is recommended to replace worn or damaged parts before they become unsafe. The inspection should include:

MONTHLY

- 1. Brake mechanism for evidence of slippage or abnormal operation.
- 2. Load chain for lubricant, damaged links or foreign material, particularly at inter-link contacting points.
- 3. Hooks for damage, cracks, twists, latch engagement and latch operation. Examine the bolt attaching the hook to the load chain.
- 4. Tightness of frame studs and nuts.

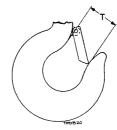
YEARLY

1. Load chain for wear.

Hook

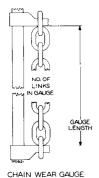
Periodically, examine the hook for wear. Excessive throat opening indicates abuse or overloading. At the same time, inspect other load sustaining components of the unit for damage. Make certain the latch is not damaged or bent.

Hoist Size	Replace Hook When "T" Opening is Greater than: in. mm			
5RBS	1 1/16	27.0		
10RBS	17/16	36.5		
20RBS	15/8	41.3		



Load Chain

Visually inspect the load chain for cleanliness and lubrication as well as wear or other damage, such as nicks and gouges. To determine if the chain should be replaced, check gauge lengths as shown below. Chain should be clean, free of twists and pulled taut before measuring.



Hoist Size	Dia. of Chain Stock	No. of Links To Gauge	Maximum Gauge Length Allowable Used Chain	
0.20	in.		in.	mm
5RBS	.197	11	7	177.8
10RBS	.250	11	87/8	225.4
20RBS	.354	11	121/2	317.5
Hand Chain	.213	15	$14^{13}/_{16}$	376.3

Load chain has a hard long-wearing surface. We urge extreme caution when cutting as the link may fly when cut.

Hand Chain

Visually inspect hand chain the same as load chain and use the chart above for gauging. Care must be taken to assure that there is no twist in the hand chain loop.

HOOK-ON TROLLEY FOR MODELS 5RBS AND 10RBS

Models 5RBS and 10RBS with rated capacity of 500 and 1000 kg (1100 lb and 2200 lb) can be attached to a Hook-On Trolley by means of the Top Hook, for operation on 5 to 12" I-Beams having flanges 3.00" (76 mm) to 5" (127 mm) wide. WARNING: The Trolley must not be used on the 20RBS Models.

PART NAME FOR ORDERING (Parts indented after aniitem are included with that item)	PART NUMBER FOR ORDERING	
Nut (2)	D01-692 D01-694-8 DU-562 MR20-430 MR20-691 21-748	

•Atlanta, Ga.
111 Ingersoll-Rand Drive
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