MODEL UW50A30 UTILITY® WINCH

WARNING

This Winch is not to be used for lifting or lowering people

Always operate and maintain this Winch in accordance with American National Standards Institute Safety Code (ANSI B30.7) and any other applicable safety codes and regulations.

FOR TOP PERFORMANCE AND MAXIMUM DURABILITY OF PARTS, OPERATE THIS WINCH AT 90 psig (6.2 bar/620 kPa) AIR PRESSURE WITH 1-1/4" (32 mm) DIAMETER HOSE.

OPERATING PRACTICES

The two most important aspects of Winch operation are: (1) Allow only qualified people to operate a Winch and (2) Subject each Winch to a regular inspection and maintenance procedure.

A qualified operator must be physically competent. He must have no health condition which might affect his ability to react, and he must have good hearing, vision and depth perception. The qualified Winch operator must be carefully instructed in his duties and must understand the operation of the Winch, including a study of the manufacturer's literature. He must thoroughly understand proper methods of hitching loads. He should have a good attitude regarding safety and should refuse to operate under unsafe conditions.

Regular inspection procedures should be set up, rigidly adhered to and recorded by or under direction of a qualified person. On Winches in continuous service, inspection should be made at the beginning of each shift. The items to be checked include, but are not limited to:

- a. LUBRICATION: See lubrication instructions on pages 2 and 3.
- b. BRAKES: Visually check for proper adjustment. Lift a capacity or near capacity load a few inches off the floor and check ability of braking system to stop and hold the load without excessive drift.
- c. WIRE ROPE AND HOOKS; Visually inspect the wire rope. Replace it AT ONCE if there is indication of fraying, or if it is crushed, cut or otherwise damaged. Follow cable manufacturer's recommended practice for proper use and inspection of wire rope.
 - Hooks should be checked for wear, increase in throat opening, and bending.
- d. CONTROLS: See that controls function properly and return to neutral when released.
- e. GENERAL: Check to see that mounting fastenings are secure, unworn and undamaged. Be alert for unusual visual or audible signs which could indicate a defect. Do not operate the Winch until the defect has been determined and corrected.
 - Periodically, depending on the severity of the service:
- a. Inspect Brake components for wear or damage.
- b. Check all bolts or fasteners.
- c. Inspect the Winch structure for damage.

(Continued on Page 2.)

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

Refer All Communications to the Nearest Ingersoll-Rand Office or Distributor.
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Form P6242 Edition 5 September, 1982

PARTS

BULLETIN

OPERATING INSTRUCTIONS

- 1. Read the manufacturer's instructions before operating the Winch.
- 2. Never lift a load greater than the rated capacity of the Winch.
- 3. Never use the Winch rope as a sling.
- 4. Always stand clear of the load.
- 5. Never use the Winch for lifting or lowering people, and never stand on a suspended load.
- 6. Never carry loads over people.
- 7. Before each shift, check the Winch for wear or damage. Check brakes, controls, etc.
- 8. Periodically inspect the Winch thoroughly and replace worn or damaged parts.
- 9. Follow the lubrication instructions.
- 10. Do not disengage clutch with a load on the Winch. Be sure clutch is fully engaged before operating Winch.
- 11. Do not "side pull" or "yard".
- 12. Always rig the Winch properly and carefully.
- 13. Never operate a Winch with twisted, kinked or damaged wire rope.
- 14. Be sure cable winds properly on drum.
- 15. Ease the slack out of the wire rope and sling when starting a lift. Do not jerk the load.
- 16. Be certain there are no objects in the way of a load or hook when operating the Winch.
- 17. Be certain the air supply is shut off before performing maintenance work on the Winch.
- 18. Shut off air supply while Winch is unattended.
- 19. Properly secure the Winch before leaving it unattended.
- 20. Be certain the load is properly seated in the saddle of the hook. Do not tipload the hook as this leads to spreading and eventual failure of the hook.
- 21. Do not allow unqualified personnel to operate a Winch.
- 22. Do not swing a suspended load.
- 23. Do not operate a Winch if you are not physically fit to do so.
- 24. Do not do anything you believe may be unsafe.
- 25. Do not use the Winch rope as a ground for welding. Do not attach a welding electrode to a Winch or sling chain.
- 26. Do not divert your attention from the load while operating a Winch.
- 27. Do not leave a load suspended for any extended period-never unattended.
- 28. Never splice a sling chain by inserting a bolt between links.
- 29. Do not force a chain or hook into place by hammering. Do not insert the point of the hook into a chain link.
- 30. Do not expose the sling chain to freezing temperatures, and do not apply sudden loads to a cold chain.

LUBRICATION

Warning: Do not operate this Utility Winch until you have lubricated the motor and gearing in accordance with the following instructions.

To avoid leakage during shipment, the oil was drained from the motor and gearing. A quantity of oil sufficient for one filling is contained in the can packed with the Winch. Before using the Winch, make certain the three Plugs (2 and 3) are screwed securely into place. Unscrew the Vent Cap (4) and pour the entire contents of the can into the opening in the top of the Motor Case (1).

Check the oil level daily. The oil level must be even with the opening in the side of the Motor Case.

When the Winch is not subjected to freezing temperatures: After the Winch has been idle for several hours or overnight, loosen the Drain Plug (2) located at the bottom of the Motor Case (1) and allow the accumulated water to drain out. After draining the water, tighten the Plug in the bottom and remove the Plug (2) on the side of the Motor Case. Unscrew the Vent Cap (4) and pour a sufficient quantity of the recommended oil through this opening to bring the oil level up to the side opening. Replace the Plug and Vent Cap.

When the Winch is subjected to freezing temperatures: Allow the Winch to remain idle long enough for the water content in the Motor Case (1) to separate from the oil, but not long enough for it to freeze. Drain the water and replenish the oil as above. Should this procedure be impractical, drain the entire contents of the Motor Case immediately after operation ceases, and pour the oil back into the Motor Case before resuming operation. If not drained a sufficient quantity of water will eventually accumulate so that the Oil Splasher (37), which is attached to the Crank (36), will freeze fast.

For Temperatures 30° to 80° F (-1° C to 26° C), use Ingersoll-Rand Pneu-Lube[®] Medium Oil No. 50 or SAE 20 or 20W motor oil

For Temperatures below 30° F (-1° C), use SAE 10 or 10W motor oil.

For Temperatures above 80° F (26° C), use SAE 30 motor oil.

We recommend the use of an air line lubricator with the Utility Winch. This will improve the efficiency and prolong the life of the motor.

Throttle Valve Lubrication

Weekly, insert a small quantity of Ingersoll-Rand Light Grease No. 28 or a good quality No. 2 Cup Grease into the Grease Fittings (14) located in the Valve Chest (10). Two or three strokes from the No. P25-228 Grease Gun is an ample amount for each Fitting.

HOSE AND HOSE CONNECTIONS

Use 1-1/4" (32 mm) hose with a suitable hose for attaching it to the inlet. Use of smaller hose and fittings will reduce the efficiency of the Winch.

MOUNTING

Mount the Winch so that the axis of the Rope Drum (84) is horizontal. Operation of the Winch with the axis of the Drum more than 10° from horizontal will result in lubrication difficulties and the Wire Rope will tend to pile up on the low end of the Drum.

The Motor Case can be rotated to any one of five different positions. The Motor Case must be repositioned when the Winch is to be mounted in such a way that the Drain Plug (2) is more than 25 degrees off bottom vertical center. To change the position of the Motor Case:

- 1. Drain the oil.
- 2. Unscrew the ten Motor Case Screws (57).
- 3. Rotate the Motor Case to bring the Drain Plug as near bottom vertical center as possible.
- 4. Replace the Cap Screws.
- 5. Fill with oil.

The Winch should not be operated in such a position that one of the Cylinders (48) is directly at the bottom.

MAINTENANCE INSTRUCTIONS

Apply the Wire Rope to wind on the Rope Drum in the direction indicated by the instruction plate on the Winch.

Adjust the brake so that considerable pressure is required to push the Brake Lever (104) past center for locking. Threading the Brake Adjusting Nut (109) further onto the Screw (108) tightens the brake; backing the Nut off loosens the brake. Remove the Throttle Valve Spring (21), Poppet Throttle Valve (20) and Throttle Valve Ball (22) from the Valve Chest (10) before attempting to withdraw the Reverse Valve Bushing (13).

The following procedure is recommended when replacing the Rotary Valve Bushing (12) or Reverse Valve Bushing (13):

- 1. Unscrew the Valve Chest Screws (18) and remove the Valve Chest Cover (17).
- 2. Screw a No. HU-932 Jack Bolt into each tapped lug on the Valve Chest (10) until the Jack Bolts contact the Motor Case (1). Turn each Bolt a little at a time to jack the Valve Chest from the Motor Case.
- 3. Unscrew the Throttle Valve Cap (23) and remove the Spring (21), Poppet Throttle Valve (20) and Ball (22) from the Valve Chest (10).
- 4. Withdraw the Rotary Valve (25), Reverse Valve (24) and remove the Throttle Lever Spring (35).
- 5. Support the face of the Valve Chest (10) that contacts the Motor Case (1), and press out the old Bushings with an arbor that will clear the Bushing Keys (11). Caution: Failure to use an arbor that will clear the Bushing Keys, or pressing the Bushings in the opposite direction will destroy the Keys.
- 6. While supporting the face of the Valve Chest (10) that contacts the Valve Chest Cover (17), align the keyslot in the new Reverse Valve Bushing with the Bushing Key (11) and press the Bushing into the Chest until the leading face of the Bushing is flush with the supported face of the Chest. Align the keyslot in the new Rotary Valve Bushing with the Bushing Key and press the Bushing into the Chest until the bushing shoulder is flush with the supported face of the Chest.
- 7. Insert the No. 23470 Throttle Valve Stem Reamer or a .505" (12.8 mm) hand reamer through the throttle valve chamber in the Valve Chest and ream the hole through the wall of the new Reverse Valve Bushing.
- 8. Check the fit of the Rotary Valve (25) in the new Rotary Valve Bushing. If the Valve is tighter than a good running fit in the Bushing, lap in the Valve, using a fine grain lapping compound whose abrasive agent will break up rapidly. Remove all trace of the compound with kerosene after obtaining the desired fit.
- 9. Check the fit of the Reverse Valve (24) in the new Reverse Valve Bushing. If the fit is too tight, ream the Bushing with a 1.875" (47.625 mm) diameter reamer. Caution: The Reverse Valve is chrome-plated; do not lap.
- 10. Rotate the Reverse Valve in the Reverse Valve Bushing until the arrows on the two parts align, and install the Throttle Valve Ball, Poppet Throttle Valve, Spring and Cap.
- 11. Install the Throttle Lever Spring (35) and Throttle Control Arm (28).
- 12. Align the holes through the Valve Chest (10) with those in the face of Motor Case (1) and squarely start the protruding end of the Rotary Valve Bushing into the Motor Case. Place a hardwood block on the face of the Valve Chest and press or drive in the Bushing until the Valve Chest contacts the Motor Case.

The two sections of the Crank (36) are matched before final machining, and the web of each section is stamped with an identification mark as AA17, CC21, XX19, etc. Only sections bearing identical markings can be used together. If more than

MAINTENANCE INSTRUCTIONS (Continued)

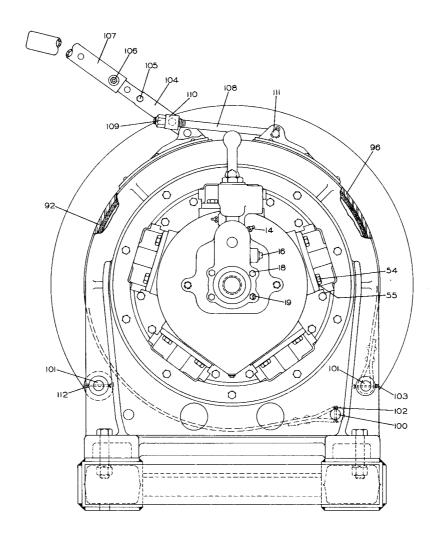
one Crank is disassembled at one time, make certain the matched parts are assembled together.

Slide the Crank Pin Sleeve (39), plain end first, onto the crank pin when assembling the Crank (36).

Install the Connecting Rod Rings (44) so that the internally beveled ends are toward the Connecting Rods (43) when assembling the Crank (36).

REPAIR PARTS

The repair parts listed herein are **NOT** Dimetcoted. However, they can be furnished on special order with special pricing. Contact the nearest Ingersoll-Rand Office.



(Dwg. TPB508-1)

Model UW50A30 Utility Winch (End View)

Model UW50A30 Utility Winch

PART NUMBER FOR ORDERING -

		V			<u> </u>
1	Motor Case	HH5D-501		Cylinder Assembly (5)	HH5D-A505A
2	Drain Plug (2)	D02-402	48	Cylinder Head	HH5D-H505A
*	1-1/4" Pipe Plug	E5UD-947	48A	Cylinder Sleeve	HH5D-L505A
	Vent Cap	D02-303A	49	Piston Assembly	HU-A513B
4		D02-303A D02-421	• 50	Piston Ring (1 for each Piston)	HU-337
5	S-Hook.	D02-421 D02-891	• 51	Oil Regulating Ring (1 for each Piston)	HU-338
6	Vent Cap Chain		51A	Retaining Ring (2 for each Piston)	902A45-632
7	Vent Cap Screen	D02-889	11	Piston Wrist Pin (1 for each Piston)	HU-514A
8	Vent Cap Screen Retainer	6CND-233-1/2	52 • 53	Cylinder Gasket (5)	HU-507
9	Vent Cap Cotter	D02-893		1 + 2	D10-354
	Valve Chest Assembly	UW50A30-A545	54	Cylinder Cap Screw (20)	HU-504
10	Valve Chest	H5U-545	55	Cylinder Cap Screw Washer (copper) (20)	
11	Bushing Key (2)	HU-538	• 56	Motor Case Gasket	HH5D-592
12	Rotary Valve Bushing	HH5D-525S	57	Motor Case Screw or Motor Cover Screw (20)	215-148
13	Reverse Valve Bushing	H5U-945S	58	1/2" Lock Washer (20)	D10-322
14	Grease Fitting (2)	23-188	59	Motor Cover	UW50A30-502
15	Throttle Lever Spring Stop Pin	D02-553	• 60	Motor Cover Gasket	UW50A30-592
16	Brake Inlet Plug	D02-402	61	Gear Case	UW50A30-353
17	Valve Chest Cover	H5U-546	62	Internal Gear	UW50A30-797
18	Valve Chest Screw (4)	HU-548	63	Internal Gear Screw (10)	AHC68-22
19	3/8" Lock Washer (4)	D02-321	64	3/8" Lock Washer (10)	UW50A30-58
20	Poppet Throttle Valve	KU-940	65	Motor Shaft	UW50A30-316
2021	Poppet Throttle Valve Spring	HU-942	66	Motor Shaft Pinion.	D10-319A
22	Poppet Throttle Valve Ball	D10-280	67	Motor Shaft Pinion Key	D10-320
22	Poppet Throttle Valve Cap	KU-943	0,	Intermediate Gear Frame Assembly	D20-A367A
24	Reverse Valve Assembly	H5U-A944	68	Intermediate Gear Frame	D10-367A
∠4 *	Reverse Valve O-ring	R0B2J73-359	69	Bearing Retaining Ring (6)	D10-340
25	Reverse Valve O-ling	H5U-526R	70	Pinion Thrust Washer.	D20-397
25		HU-527	71	Intermediate Gear Shaft Bearing	D10-366
• 26 • 27	Large Valve Drive Pin	HU-627	72	Intermediate Gear Shaft (3)	D10-365
• 27		HU-555A	73	Intermediate Gear (3)	D10-364A
28	Throttle Control Arm	D02-553	74	Drum Shaft Assembly	UW50A30-A459
29	Throttle Lever Spring Stop Pin	HU-556	• 75	Drum Shaft Seal.	UW50A30-103
• 30	Throttle Lever	HU-869	76	Drum Shaft Bushing	D04-355
31	Throttle Lever Latch	HU-567	77	Drum Shaft Gear	D10-798A
• 32	Throttle Lever Latch Spring	.	78	Drum Shaft Cap Screw (8)	D10-790A D10-799
33	Throttle Lever Setscrew	HU-842	• 79	Drum Bearing Motor End	UW50A30-466
34	Throttle Lever Pin	HU-870			C6H40A-466
*	Throttle Lever Pin Cotter (2)	D02-524]]	Drum Bearing Bracket End	UW50A30-137
• 35	Throttle Lever Spring	HU-412	η - O1	Gear Case Seal	UW50A30-137 UW50A30-119
	Crank Assembly	H5U-A516	82	Bearing Retaining Ring	
36	Crank Bare (consists of 2 matched parts which	*****	83	Drum Bearing Spacer	UW50A30-469
	are not sold separately)	HU-516	84	Rope Drum Assembly	UW50A30-324
37	Oil Splasher	HU-540	85	Rope Setscrew (2)	K6U-381
38	Oil Splasher Long Rivet (2)	HU-541	86	Drum Support Bracket	UW50A30-677
*	Oil Splasher Short Rivet (2)	HU-542	87	Support Bracket Bolt (4)	EU-775
• 39	Crank Pin Sleeve	HU-519	88	3/4" Lock Washer (8)	DU-563
40	Crank Lock Pin	HU-520	89	3/4" Nut (8)	DU-562
41	Crank Lock Pin Nut	D02-394	90	Gear Case Mounting Bolt (4 for Manual Brake;	
42	Crank Lock Pin Cotter	D02-524	il	3 for Automatic Brake)	K6U-775
• 43	Connecting Rod (5)	HH5D-509	91	Base	UW50A30-564
44	Connecting Rod Ring (2)	HU-510			
45	Connecting Rod Bushing	HU-511			
46	Crank Valve End Bearing	HU-518	1		
• 47	Crank Pin End Bearing	HUD-895	1		
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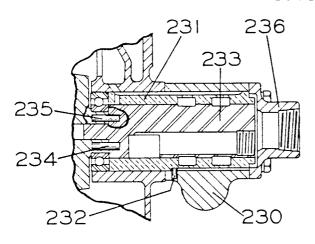
^{*} Not illustrated.

To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (•) for every four tools in service.

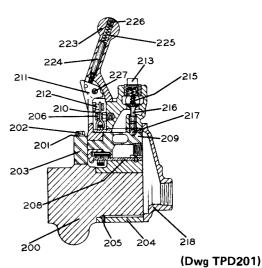
PA	ART NUMBER FOR ORDERING =	•	PAR	T NUMBER FOR ORDERING	•
• 92 • 96	Long Brake Band	K6U-252 K6U-152	107 108	Brake Lever Extension	231-625
100	Short Brake Band Long Brake Band Pin		108	Brake Adjusting Screw Brake Adjusting Nut	231-719 D01-341A
101	Short Brake Band Pin (2)	UW50A30-207	110	Brake Trunnion	215-159
102	1/8" x 1-1/4" Cotter (4)	D02-330	111	Brake Bracket Pin	K6U-147
103	1/8" x 2" Cotter (2)	RC5-865	112	Brake Support	K6U-161A
104	Brake Lever	231-715	l		
105	Brake Lever Bolt (2)	D10-312	l		
106	Brake Lever Bolt Nut (2)	WF171-13			
*	Brake Lever Screw	R0H-354			

- Not illustrated.
- To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part part indicated by a bullet (•) for every four tools in service.

REMOTE CONTROL



(Dwg. TPD206) **Remote Control Valve Chest**



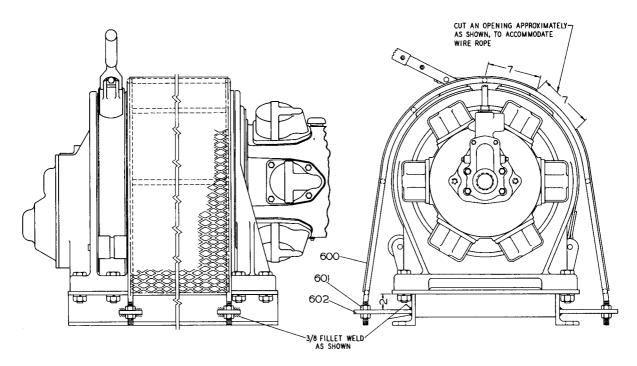
Remote Control Block Assembly

PART NUMBER FOR ORDERING-

PART NUMBER FOR ORDERING

	Remote Control Block Assembly		216	Control Block Poppet Throttle Valve	KU-940
	for Winch with Standard		217	Control Block Throttle Valve Ball	D10-280
	Brake	KU-A685	218	Control Block Valve Chest Cover	KU-546A
	for Winch with Auto-		223	Control Block Throttle Lever	HU-556
	matic Brake	KU-B685	224	Throttle Lever Latch	HU-869
200	Remote Control Block	KU-685	225	Latch Spring	HU-567
201	3/8" Lock Washer (2)	D02-321	226	Throttle Lever Setscrew	HU-842
202	Control Arm Retainer Screw (2)	HU-865	227	Throttle Lever Pin	HU-870
203	Control Arm Retainer	HU-687	*	Throttle Lever Pin Cotter (2)	D02-524
204	Control Block Valve Chest	KU-876A		Remote Control Valve Chest Assembly	H5U-A686
205	Bushing Key	HU-538	230	Remote Control Valve Chest	H5M-545
206	Throttle Lever Spring Stop Pin	D02-553	231	Rotary Valve Bushing	HH5D-525
208	Control Block Reverse Valve		232	Bushing Key	HU-538
	Bushing	KU-945	233	Rotary Valve	H5U-526R
*	Grease Fitting (2)	23-188	234	Large Valve Drive Pin	HU-527
209	Control Block Reverse Valve		235	Small Valve Drive Pin (2)	HU-627
	for Winch with Standard		236	Remote Control Valve Chest	
	Brake	KU-944		Cover	HX-546
	for Winch with Auto-		*	Valve Chest Screw (4)	HU-548
	matic Brake	KU-744	*	3/8" Lock Washer (4)	D02-321
210	Control Block Throttle Lever Spring	KU-412	*	Winch Nameplate	DU-301
211	Control Block Throttle Arm	KU-555A	*	Nameplate Screw (4)	R4K-302
212	Throttle Lever Spring Stop Pin	D02-553	*	Caution Tag	TA-147A
213	Control Block Throttle Valve Cap	KU-943	*	Caution Tag Screw (4)	R4K-302
215	Control Block Throttle Valve Spring	HU-942			

DRUM GUARD



(Dwg. TPB565)

	PART NUMBER FOR ORDERING -	ER FOR ORDERING	
		<u> </u>	
600	Drum Guard	UW50A30-298	
601	5/8"-11 thd. Nut (8)	K 6U-8	
602	Plate (4)	K6UL36-299	

AUTOMATIC BRAKE PARTS 328 329 338 ·337 -336 319--30C 318 330 .320 331 322 307 321 **3**09 325 308 314 0 326 -334 315 -333 310-306 332 312 316 (Dwg. TPA610) 347 / 348 346 340 323 ا30ا 318--303 323. 3140 314A 314B 314B 315 (Continued on Page 10.) (Dwg. TPA609-1)

AUTOMATIC BRAKE PARTS (Continued)

PART NUMBER FOR ORDERING -

		<u> </u>
	Automatic Brake Valve Chest Assembly (includes illustrated parts 10, 11 (2), 12, 13, 14 (2), 15,	
	17, 18 (4), 19 (4), 20, 21, 22, 23, 25, 26 and 27)	UW50A30-B545
300	Automatic Brake Reverse Valve Assembly	H5U-A744
*	Reverse Valve O-ring	R0B2J73-359
	Brake Pipe Elbow	K4U-400
301	Brake Connection Bushing	HU-547
302		K6U-401
303	Brake Pipe.	HU-727
*	Brake Pipe Strap	
*	Brake Pipe Strap Screw	CE110-112
	Brake Exhaust Valve Assembly	K6U-A733
306	Brake Exhaust Valve	HU-733
307	Exhaust Valve Ell	HU-745
308	Brake Connection	K4U-711
309	Brake Air Strainer Assembly	R0B2-A565
310	1/4" 90° Elbow	HUS-902
*	Screw (used with Bracket mounted Exhaust Valve (2)	R3-7A
*	Exhaust Valve Bolt Nut (2)	D02-428
312	Exhaust Valve Bolt (2)	SP9-11B
*	Valve Bolt Lock Washer (2)	T11-58
314	Exhaust Valve Hose.	K6U-731A
314A	Exhaust Valve Hose Nipple	RV1-46
314B	Hose Clamp (2)	K6U-4
314C	Hose Union	MR-129
315	Exhaust Valve Hose Nipple	D01-14
316	Drain Plug	D02-402
317	1/4" Nipple	HUS-908
• 318	Brake Cylinder	K6U-720
319	Brake Cylinder Yoke	K6U-719A
320	Cylinder Base	K6U-717
321	Cylinder Base Cap Screw (4).	K6U-716
322	Base Cap Screw Lock Washer (4).	D02-321
323	3/8" Street Ell (2)	12SR-8
325	Brake Cylinder Bracket	K6U-721
326	Cylinder Bracket Cap Screw (2)	215-36
320 *	Bracket Cap Screw Lock Washer (2)	A-67
	Brake Yoke Pin	22-720
328		D02-330
329	Brake Yoke Pin Cotter (2) (1/8" x 1-1/4")	HU-870
330	Cylinder Bracket Pin	D02-524
331	Cylinder Bracket Pin Cotter (2) (3/32" x 3/4")	
332	Cylinder Bracket Bolt	K6UL-775
333	Bracket Bolt Nut	DU-562
334	Bracket Bolt Lock Washer.	D01-692
335	Brake Spring (4)	K4U-726
336	Brake Spring Pin (2)	K6U-735
337	Brake Spring Pin Cotter (4) (1/8" x 1-1/4")	D02-330
338	Brake Spring Pin Sleeve (4)	K6U-736
339	Brake Spring Pin Washer (4)	24-741
340	Automatic Brake Lever	K6U-718
341	Brake Lever Pin	K6U-149
342	Brake Lever Pin Cotter (2) (1/8" x 1-1/4")	D02-330
343	Brake Bracket Short Pin	K6U-148
344	Brake Bracket Short Pin Cotter (1/8" x 2")	RC5-865
345	Automatic Brake Adjusting Screw Yoke	K6U-759
	, , ,	******
346	Automatic Brake Adjusting Screw	K6U-758
	Automatic Brake Adjusting Screw	K6U-758 K6U-760

^{*} Not illustrated.

[•] To keep downtime to a minimum, it is desirable to have on hand certain repair parts. We recommend that you stock one (pair or set) of each part indicated by a bullet (●) for every four tools in service.

MAINTENANCE TOOLS

TOOL NUMBER FOR ORDERING	TOOL NAME FOR ORDERING	OPERATION
P25-228 HU-932 HU-933	Grease Gun	Lubrication. Removing the Valve Chest (10) from the Motor Case (1). Compressing the Piston Rings (50 and 51) when installing the Cylinder (48).
23470	Throttle Valve Stem Reamer	Reaming the throttle valve stem hole in the Reverse Valve Bushing (13) after installing a new Bushing.
25670	Throttle Valve Seat Reamer	Refacing the seat for the Poppet Throttle Valve (20) in the Valve Chest (10).

CONVERSION KITS

UW50A30-C721 Automatic Brake Kit.

For converting winches with manual throttle to manual throttle with automatic brake.

H5U-RC685 Remote Control Kit.

For converting manual throttle winches without automatic brake to remote control.

H5U-RC685AB Remote Control Kit.

For converting manual throttle winches with automatic brake to remote control.