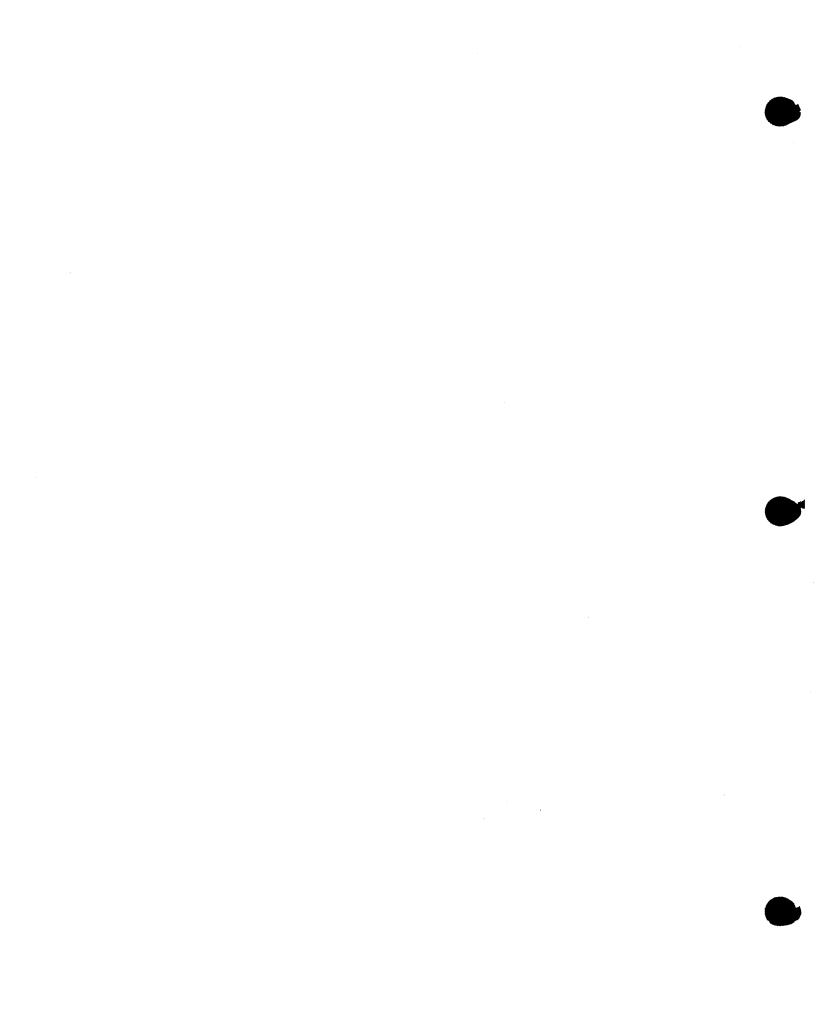
HOIST REFERENCE SHEET

REFERENCE

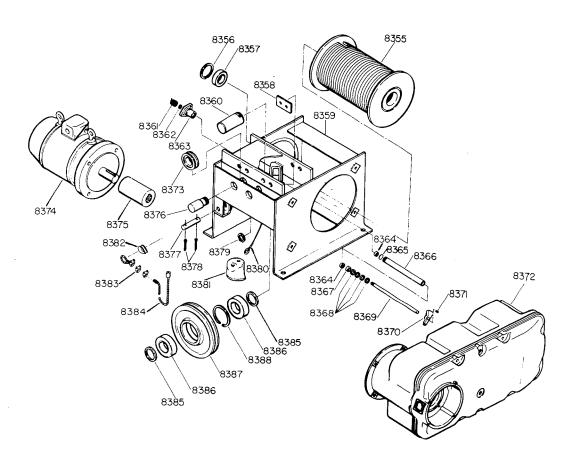
APRIL 1982

	ITEM NUMBER	BASIC PARTS	SEI	RIES		
				A	В	C
	5640-5650	Wheel Type Collector	Basic Section			
	6662-6676	Trolley Motor Brake	Basic Section			
	8001-8035	Trolley Drive Motor (Rectangular Gear Box)	Basic Section			
	8131-8137	Trolley Drive Parts (Rectangular Gear Box)	Basic Section			·
	8285-8303	Gear Case Parts		2-1 2-2		2-1 2-2
	8304-8324	Gear Case Parts		2-2	2-2	2-2
	8325-8339	Four Part Bottom Block		5 - 3	5-3	5- 3
	8340-8353	Two Part Bottom Block		5-1	5-1	5- 1
)	8355 - 8373	Frame & Components		1-1 1-2		1-1 1-2
	8374-8375	Motor & Coupling		1-2	1-2	1-2
	8376-8388	Miscellaneous Parts		1-2	1-2	1-2
	8390-8410	M-7 "C" Brake Assy. (45.0#)		3-2	3-2	3-2
	8390-8410	M-7 "C" Brake Assy. (90.0#)		3-1	3-1	3-1
	8461-8596	8 Part Bottom Block		5 - 7	5 - 7	5-7
	8521 - 8538	Hoist & Trolley Controls		4-1 4-2		4-3 4-4
	8384-	Hoisting Cable	Basic Section			
	8551-8563	"M" Type Trolley		6-1	6-1	6-1
	8576-8596	6 Part Bottom Block		5 - 5	5 - 5	5 -5
	8667-8673	Push Button & Components	Basic Section			



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FRAME AND COMPONENTS



ITEM	DESCRIPTION	PART NUMBER	QUANTITY
835 5	Rope Drum	Consult Factory	1
8356	Snap Ring	22-02244-014	1
8357	Ball Bearing	6-30-050-211-1	1
8358	Keeper Plate	22-01801-001	1
8359	Hoist Frame	Consult Factory	1
8360	Sheave Pin	22-10791-006	1
8361	Spring	22-09449-001	1
8362	Snap Ring	22-06497-007	1
8363	Mounting Bracket	22-08533-002	1
8364	Ball Bearing	6-30-102-007-0	2
8365	O'Ring	22-08171-002	1
8366	Limit Tube	Consult Factory	1
8367	Felt Washer	6-23-060-204-0	1
8368	Shim Washer	6-23-030-169-0	8
8369	Limit Switch Shaft	Consult Factory	1

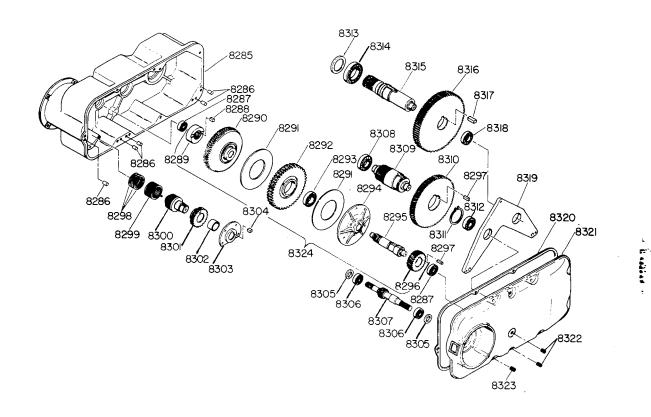
FRAME AND COMPONENTS

1 - 2

ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8370 8371 8372 8373	Lever Key Gear Case Spool	23-06635-003 6-11-002-008-0 25-03034-001 22-11453-001	1 1 1 1
8374 .*	230/460 Volts 7.5 HP @ 1800 RPM 200 Volts 10 HP @ 1800 RPM 230/460 Volts 10 HP @ 1800 RPM 575 Volts 10 HP @ 1800 RPM 230 Volts 10/3.3 HP @ 600/1800 RPM 460 Volts 10/3.3 HP @ 600/1800 RPM 230 Volts 15 HP @ 1800 RPM 575 Volts 15 HP @ 1800 RPM 230 Volts 1.5/.5 HP @ 1800/600 RPM 460 Volts 1.5/.5 HP @ 1800/600 RPM 575 Volts 1.5/.5 HP @ 1800/600 RPM 575 Volts 7.5 HP @ 1800/600 RPM 575 Volts 7.5/2.5 HP @ 1800/600 RPM 460 Volts 7.5/2.5 HP @ 1800/600 RPM 575 Volts 7.5/2.5 HP @ 1800/600 RPM	23-07790-006 23-07790-009 23-07790-010 23-07790-012 23-07790-013 23-07790-014 23-07790-017 23-07790-019 23-07790-020	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8375 8376 8377 8378 8379 8380 8381 8382 8383 8384 8385 8386 8387 8388	Motor Coupling Pin Dead End Pin Cotter Pin Retaining Ring Limit Cable Assy. Limit Weight Rope Thimble Rope Clip Wire Rope Assembly Bearing Spacer Ball Bearings Rope Sheave Snap Ring	23-07795-001 23-07798-001 22-00034-038 6-16-005-063-0 22-06497-034 22-09092-003 23-02305-701 22-11457-001 22-07510-001 See Basic Section Sect	1 1 1 2 1 1 1 1 2 2 1 2 2 1 1 1



GEARCASE



ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8285 8286 8287 8288 8289 8290 8291 8292 8293 8294 8295	Gearcase Dowel Pins Ball Bearings Cam Nut Key Cam Nut Spider Gear Friction Disc Ratchet Gear Ball Bearing Thrust Disc Load Brake Shaft	25-03034-001 6-16-018-065-0 6-30-041-207-0 22-00483-001 23-00146-001 25-02993-009 22-03228-001 24-05959-001 6-30-041-210-0 24-02203-001 23-06028-003	1 3 2 1 1 1 2 1 1 1
8296 8297	Int. Pinion 30 FPM 4 Part 48T Int. Pinion 22 FPM 4 Part 40T Int. Pinion 20 FPM 4 Part 37T Int. Pinion 15 FPM 4 Part 30T Int. Pinion 11 FPM 4 Part 24T	24-05955-001 24-05955-002 24-05955-003 24-05955-004 24-05955-005 6-11-028-026-0	1 1 1 1
8297	Key Washer	22-09986-001	1 3

JULY 1982

ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309	Spring Clutch Shaft Pinion Bushing Clutch Cover Key Oil Seal Ball Bearing Motor Extension Shaft Ball Bearing Drum Pinion 24T	22-09561-003 23-06740-004 23-06741-005 22-02829-003 23-07322-001 22-00482-015 22-02792-001 6-30-041-306-0 24-05954-001 6-30-041-211-0 24-05957-001	1 1 1 1 1 2 2 1 2
8310	Int. Gear 30 FPM 4 Part 79T Int. Gear 22 FPM 4 Part 87T Int. Gear 20 FPM 4 Part 90T Int. Gear 15 FPM 4 Part 97T Int. Gear 11 FPM 4 Part 103T	24 - 05956 - 002 24 - 05956 - 003 24 - 05956 - 004	1 1 1 1
8311 8312 8313 8314 8315 8316 8317 8318 8319 8320 8321 8322 8323 8324	Snap Ring Ball Bearing Oil Seal Ball Bearing Drum Drive Shaft Drum Gear 95T Key Ball Bearing Spider Gasket Gearcase Cover Pipe Plug Vent Plug Load Brake Assy. 30 FPM 22 FPM 20 FPM 15 FPM 11 FPM	22-06497-036 6-30-042-209-0 22-11454-004 6-30-020-118-0 24-05953-001 24-05958-001 22-02600-008 6-30-042-209-0 24-05960-001 24-05962-001 25-03035-001 6-16-014-008-1 22-00536-003 23-07948-001 23-07948-004 23-07948-005	1 1 1 1 1 1 1 1 2 1 1 1 1 1

JULY 1982

All load brakes are self-adjusting and require a minimum of maintenance. Wear on friction disc should be checked during any gear case maintenance. Replace discs when thickness reaches 1/16". To adjust for disc wear, or reset after disc replacement, remove the key from the cam nut. Rotate cam nut/load brake gear until brake is closed snugly. Back off cam nut/load brake gear just enough to replace key in the first available key slot. Retighten load brake gear and check the clearance between the cam nut and spider gear shoulders. The clearance should be between 1/8" and 3/8". If the gap is less than 1/8" it will be necessary to use the second available key slot. In no case should initial gap adjustment exceed 7/16".

Brake should be readjusted whenever gap exceeds 5/8". See Figure 6-1.

The load brake should be checked for proper holding action after any load brake maintenance is performed.

To check to see whether load brake is holding properly, attach approximately a 25% capacity load to hook and raise off floor 6". Release motor brake by backing off center adjusting screw approximately 2 turns. Load should remain suspended. If load drifts to floor, check for malfunctioning spring clutch assembly or worn friction discs. Repair/replace as necessary.

Note: Severe impact or shock loads on hook due to improper handling of loads may result in a locked load brake. Load can be raised, but motor torque is not sufficient to unlock brake to permit lowering, and motor stalls. If load brake does not release after several inchings of the down button, the load must be removed from the hook before manual efforts are made to unlock the brake. It is recommended that the unlocking and subsequent inspection of load brake be performed by a serviceman experienced in these areas.

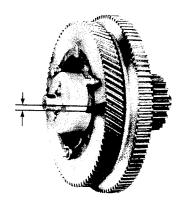
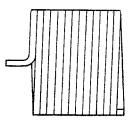
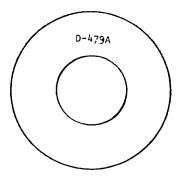


Figure 6-1



When replacing clutch spring always use 12 3/4 coil spring no. 22-09561-003. On units built prior to June 1982 it is recommended this replacement be made a part of any service routine involving the load brake.

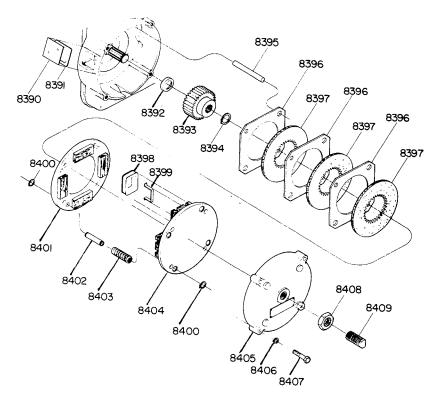


When replacing friction discs always use discs marked D-479A as shown.

FRAME 6 SERIES A FRAME 6

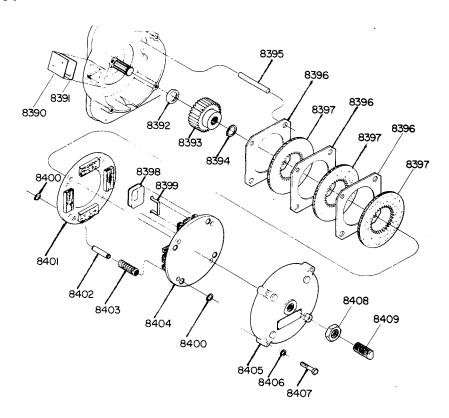
M7C BRAKE

3 - 1



ITEM	DESCRIPTION	PART NUMBER	QUANTĪTY
8390	Inspection Plate Assy.	23-07793-001	1
8391	Gasket	22-10416-002	1
8392	Oil Seal	22-02792-001	1
8393	Brake Hub	23-06258-013	1
8394	Retaining Ring	22-06497-006	1 4
8395	Brake Studs	22-06497-006 22-11455-002	
8396		23-03648-012	4 3 3
8397	Friction Disc	22-03607-013	3
8398	Coil (115 Volts) *	22-08269-002	4
8399	Wedge	22-08471-001	4
8400		22-06497-032	4
8401	Armature Plate Assy.	23-06098-005	1
8402	S1eëve	22-09072-002	4
8403	Spring	22-03615-008	4
8404	Pole Plate Assy.	23-07791-001	1
8405	Brake Cover	25-03037-001	1
8406	Lock Washers	6-23-001-043-0	1 4
8407	Hex Head Cap Screws	22-09413-520	4
8408		6-14-008-032-0	1
8409	Adjustable Screw	22-03612-003	1
8410	Complete Brake Assy.		1
	* See Brake Section I	For Other Voltages	

M7C BRAKE



DESCRIPTION	PART NUMBER	QUANTITY
Inspection Plate Assy.	23-07793-001	1
Gasket		1
Oil Seal	22-02792-001	1
Brake Hub	23-06258-013	1
Retaining Ring	22-06497-006	4
Brake Studs	22-11455-002	4
Int. Thrust Disc	23-03648-012	3
Friction Disc	22-03607-013	3
	22-08269-002	2
	22-08471-001	4 3 3 2 2 4
	22-06497-032	4
1 9	23-06098-006	. 1
Sleeves	22-09072-002	4
Springs	22-03615-007	4
	23-07791 - 002	1
Brake Cover	25-03037-001	1
Lock Washers	6-23-001-043-0	4
	22-09413-520	4
	6-14-008-032-0	1
		1
Complete Brake Assy.	27-25043-004	1
	Inspection Plate Assy. Gasket Oil Seal Brake Hub Retaining Ring Brake Studs Int. Thrust Disc Friction Disc Brake Coils (115V) * Coil Support Snap Ring Armature Plate Assy. Sleeves Springs Pole Plate Assy. Brake Cover Lock Washers Hex Head Cap Screws Hex Jam Nut Adjustment Screw	Inspection Plate Assy. 23-07793-001 Gasket 22-10416-002 Oil Seal 22-02792-001 Brake Hub 23-06258-013 Retaining Ring 22-06497-006 Brake Studs 22-11455-002 Int. Thrust Disc 23-03648-012 Friction Disc 22-03607-013 Brake Coils (115V) * 22-08269-002 Coil Support 22-08471-001 Snap Ring 22-06497-032 Armature Plate Assy. 23-06098-006 Sleeves 22-09072-002 Springs 22-03615-007 Pole Plate Assy. 23-07791-002 Brake Cover 25-03037-001 Lock Washers 6-23-001-043-0 Hex Head Cap Screws Hex Jam Nut 6-14-008-032-0 Adjustment Screw 22-03612-003

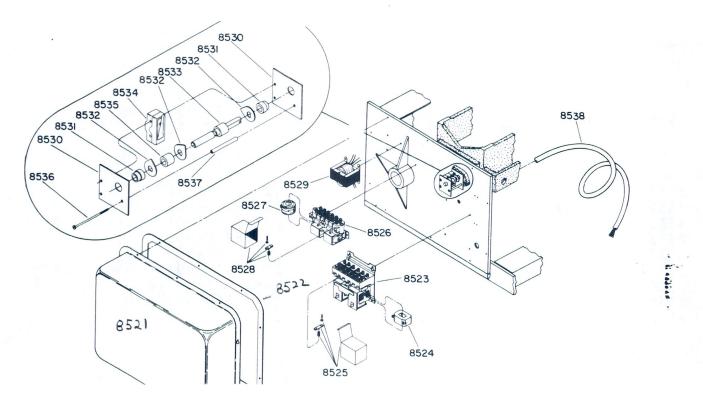
^{*} See Brake Section For Other Voltages

FRAME 6

4-1

AUGUST 1980

CONTROL PANEL HOIST AND TROLLEY CONTROLS



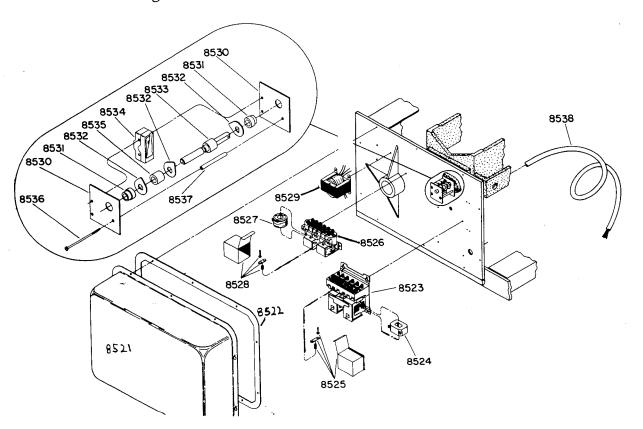
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8521 8522	Control Cover Cover Gasket	22-08426-001 22-08544-001	1 1
8523	Hoist Controller Complete (7½HP) Hoist Controller 10HP Hoist Controller 15HP	22-07861-001 23-07605-001 23-07604-001	1 1 1
8524	Magnet Coil-Hoist Controller 24 Volt 7½HP 115 Volt 7½HP 24 Volt 10&15HP 115 Volt 10&15HP	22-07866-001 22-07866-002 23-07604-003 23-07604-004	2 2 2 2
8525	Contact Kit (Hoist) 7½HP Contact Kit (Hoist) 10&15HP	22-07619-005 23-07604-014	1 6
8526 8527	Trolley Controller Complete Magnet Coil Trolley Controller	23-07623-001	1
	24 Volt 115 Volt	22-10755-003 22-10755-004	2 2
8528	Contact Kit Trolley	23-07623-010	6

FRAME 6

4 - 2

CONTROL PANEL HOIST AND TROLLEY CONTROLS

ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8529	Transformer 230/460V PRI 115VSEC 75VA 575VPRI 115VSEC 75VA 230/460 PRI 24VSEC 75VA 230/460PRI 115VSEC 150VA 575VPRI 115VSEC 150VA	23-07228-047	1 1 1 1
8530 8531 8532 8533 8534 8535 8536 8537 8538	orwe transfer	22-08535-001 22-08536-001 22-08534-001 22-08539-002 23-05987-003 22-08546-001 6-02-061-044-0 22-08540-002 22-04382-003	2 2 3 1 3 1 3 1



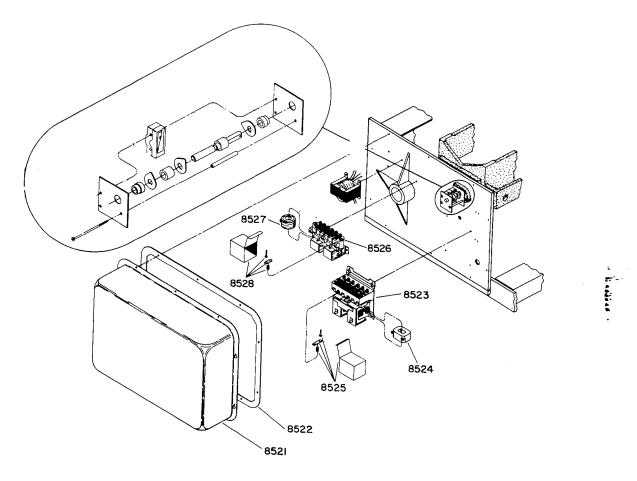
CONTROL PANEL

FRAME 6

HOIST AND TROLLEY CONTROLS SERIES C

4-3

APRIL 1982



ITEM	DESCRIPTION	PART NUMBER	QUANTITY
	Control Cover	22-08426-001	1
8522		22-08544-001	1
8523		23-08410-001	1
	Hoist Controller 10HP	23-08412-001	1
	Hoist Controller 15HP	23-08413-001	1
	Magnet Coil-Hoist Controller (ALL)	1	
	24 volt	22-10755-003	2
8524	115 volt	22-10755-004	2
8525	Contact Kit (Hoist) 7½HP	23-08410-003	6
	Contact Kit (Hoist) 10HP	23-08412-002	6
	Contact Kit (Hoist) 15HP	23-08413-002	6
8526	Trolley Controller Complete	23-07623-001	1
8527	Magnet Coil Trolley Controller		
	24 volt	22-10755-003	2
	115 volt	22-10755-004	2
8528	Contact Kit Trolley	23-07623-010	6

FRAME 6

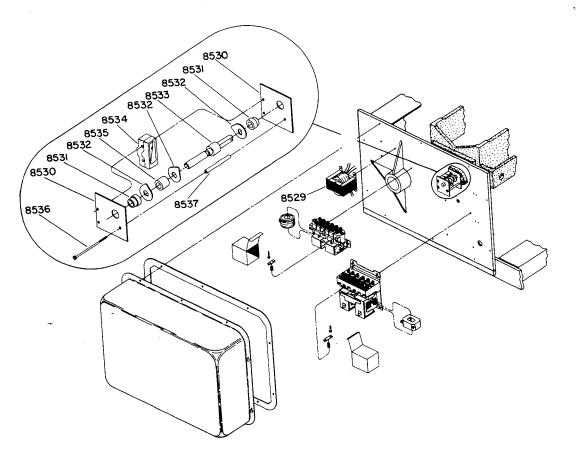
CONTROL PANEL

4-4 HOIST AND TROLLEY CONTROLS

SERIES C

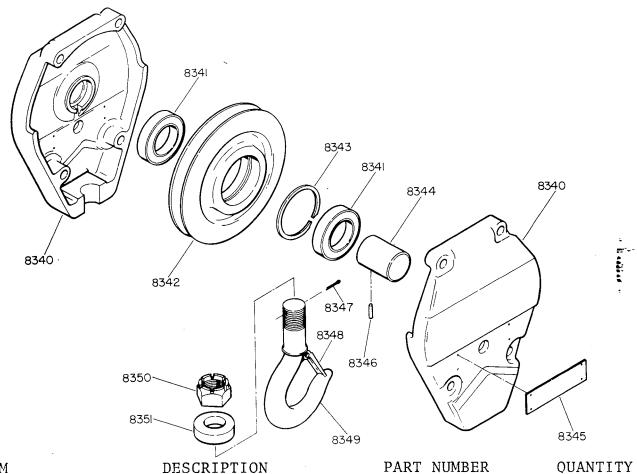
APRIL 1982

ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8529	Transformer 230/460V PRI 115VSEC 75VA 575VPRI 115VSEC 75VA 230/460 PRI 24VSEC 75VA	23-07228-051 23-07228-052 23-07228-047	1 1 1
8530 8531 8532 8533 8534 8535 8536 8537 8538	Side Plate Bushing Operating Cam Limit Shaft Micro Switch Cam Spacer Screw Side Plate Spacer Main Line Cable #12-3	22-08535-001 22-08536-001 22-08534-001 22-08539-002 23-05987-003 22-08546-001 6-02-061-044-0 22-08540-002 22-04382-003	2 2 3 1 3 1 3 1



2 PART BOTTOM BLOCK

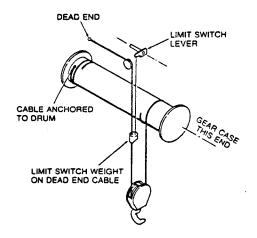
5-1



ART NUMBER QU -03047-001	ANTITY
-03047-001	2
	4
30-050-211-1	2
-05949-001	1
-02244-014	1
-10791-007	1
	2
-07653-011	1
16-005-063-0	1
	1
-05974-001	1
-07796-013	1
30-160-022-0	1
-03046-001	1
-11576-002	1
	30-050-211-1 -05949-001 -02244-014 -10791-007 -11456-004 -07653-011 16-005-063-0 -09929-004 -05974-001 -07796-013 30-160-022-0 -03046-001 -11576-002

AUGUST 1980

2 Part Single Reeving Diagram F6 Hoist



When the need for cable replacement has been established, proceed as follows:

CAUTION

Always wear heavy gloves when handling cables to avoid hand injuries from possible broken wires.

- Run hoist in the down direction until only one half to one wrap of cable remains on the drum. Stop with drum in position where the keyhole slot anchoring the cable socket is most accessible.
- Remove the rope clips and thimble from the dead end attachment and pull free cable end through dead end spool, limit weight, and block sheave. Free the socketed end of the cable from the hoist drum by removing plug from the keyhole slot. Discard old cable.
- Inspect rope sheave, bearings, pin, etc. for wear or damage. Repair or replace as needed. Note: Placing a new cable in service in a sheave tracked or worn to a reduced groove radius will severely shorten cable life and can cause premature cable failure.
- 4. Unreel the replacement cable and inspect for any shipping damage, kinks, etc. Refer to Operation Maintenance Section — Wire Rope. If replacement cables are held in storage for extended periods of time, check for fried out lubricant or possible corrosion.

- Place one half to one wrap of the socketed cable end around the drum, live cable leading off drum side nearest the motor. Place socket through the keyhole slot and replace plug, anchoring socket inside the drum.
- Tighten plug securely, checking to make certain that surface of plug does not extend above bottom of rope groove in the drum.
- 7. Depending on the distance of the hoist to the floor, or surface where the block lies, it may be desirable to run the hoist (up direction) and wind part of the free cable onto the drum. Cable should be guided to ensure that it spools properly onto drum, and remaining free length of cable should be adequate to complete the reeving system with block lying on the floor.
- 8. If cable is to be threaded into the system without disassembly of the block, it will be helpful to tape a section of stiff wire to the free end of the cable. This "lead wire" can be formed to the sheave contour and rolled through the sheave, serving as a pilot to lead the cable into proper position.
- 9. Thus fitted, the free end, or live cable, from the drum is passed first into the block sheave, then through the hole in limit switch weight, over the dead end spool, and anchored to the dead end pin. Refer to reeving diagram. Make certain that rope clips are properly applied and tightened as outlined in the Operation Maintenance Section.

CAUTION

Make certain that limit switch weight is properly threaded onto dead end cable and operating freely. Safe operation of the hoist requires a properly operating limit switch mechanism.

- Operate hoist up control to raise block from the floor. Check to be certain that sheave turns freely and that block hangs properly as shown in the reeving diagram.
- 11. Operate the block through the full range of lift for 2-3 cycles with empty hook. Check cables with block near the full up position to ensure they hang properly. Make 1-2 short lifts from the floor with a near capacity load. Follow this by retightening rope clips.

IMPORTANT

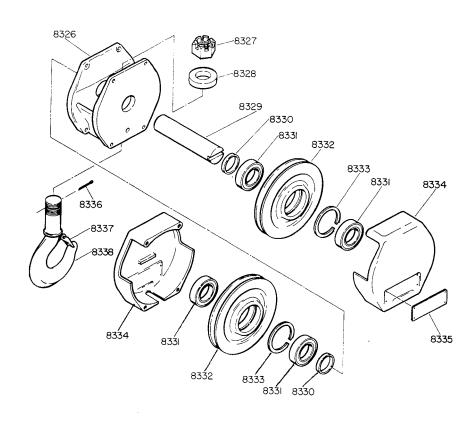
If equipped with optional geared limits, check and adjust limits as necessary to maintain original stop locations.

. . .

FRAME 6

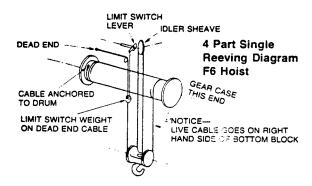
4 PART BOTTOM BLOCK

5 - 3



ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8325 8326 8327 8328 8329 8330 8331 8332 8333 8334 8335 8336 8337 8338 8339	Complete Block Assy. Trunion Slotted Nut Thrust Bearing Sheave Pin Bearing Spacers Ball Bearings Rope Sheaves Snap Rings Block Side Covers Capacity Plates (10 Ton) Cotter Pins Latch Kit Load Hook Load Hook Assy. (Includes	25-03031-006 25-03038-001 23-07796-016 6-30-160-078-0 23-07797-001 22-10790-005 6-30-050-211-1 24-05949-001 22-02214-014 25-03039-001 22-11456-001 6-16-005-083-0 22-09929-005 24-05961-001 22-11576-001	QUANTITY 1 1 1 1 2 4 2 2 2 1 1 1 1
	Latch-Nut-Bearing-Cotter Pins)		

AUGUST 1980



When the need for cable replacement has been established, proceed as follows:

CAUTION

Always wear heavy gloves when handling cables to avoid hand injuries from possible broken wires.

- Run block to the floor and lay on its side with axis of sheaves parallel to axis of hoist drum. Continue to run hoist in the down direction until only one half to one wrap of cable remains on the drum. Stop with drum in position where the keyhole slot anchoring the cable socket is most accessible.
- Remove the rope clips and thimble from the dead end attachment and pull free cable end through dead end spool, limit weight, sheaves, etc. Free the socketed end of the cable from the hoist drum by removing plug from the keyhole slot. Discard old cable.
- 3. Inspect rope sheaves, bearings, pins, etc. for wear or damage. Repair or replace as needed. Note: Placing a new cable in service in a sheave tracked or worn to a reduced groove radius will severely shorten cable life and can cause premature cable failure.
- 4. Unreel the replacement cable and inspect for any shipping damage, kinks, etc. Refer to Operation Maintenance Section — Wire Rope. If replacement cables are held in storage for extended periods of time, check for dried out lubricant or possible corrosion.
- Place one half to one wrap of the socketed cable end around the drum, live cable leading off drum side nearest the motor. Place socket through the keyhole slot and replace plug, anchoring socket inside the drum.

- Tighten plug securely, checking to make certain that surface of plug does not extend above bottom of rope groove in the drum.
- 7. Depending on the distance of the hoist to the floor, or surface where the block lies, it may be desirable to run the hoist (up direction) and wind part of the free cable onto the drum. Cable should be guided to ensure that it spools properly onto drum, and remaining free length of cable should be adequate to complete the reeving system with block lying on the floor.
- 8. If cable is to be threaded into the system without disassembly of the block or idler sheaves, it will be helpful to tape a section of stiff wire to the free end of the cable. This "lead wire" can be formed to the sheave contour and rolled through the sheaves, serving as a pilot to lead the cable into proper position.
- Thus fitted, the free end, or live cable, from the drum is passed first into the block sheave at gearcase end, drum side, second, into the idler sheave, motor side, and third, into the block sheave at control end, drum side. Refer to reeving diagram.
- 10. Pass cable through the hole in limit switch weight, over the dead end spool, and anchor to the dead end pin. Make certain that rope clips are properly applied and tightened as outlined in the Operation Maintenance Section.

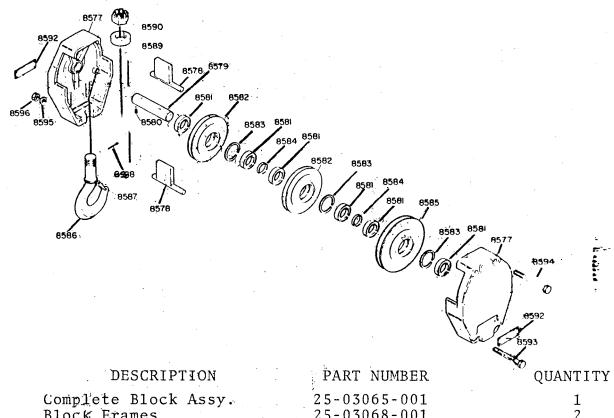
CAUTION

Make certain that limit switch weight is properly threaded onto dead end cable and operating freely. Safe operation of the hoist requires a properly operating limit switch mechanism.

- Operate hoist up control to raise block from the floor. Check to be certain that all sheaves turn freely and that block hangs properly as shown in the reeving diagram.
- 12. Operate the block through the full range of lift for 2-3 cycles with empty hook. Check cables with block near the full up position to ensure they hang properly. Make 1-2 short lifts from the floor with a near capacity load. Follow this by retightening rope clips.

IMPORTANT

If equipped with optional geared limits, check and adjust limits as necessary to maintain original stop locations.



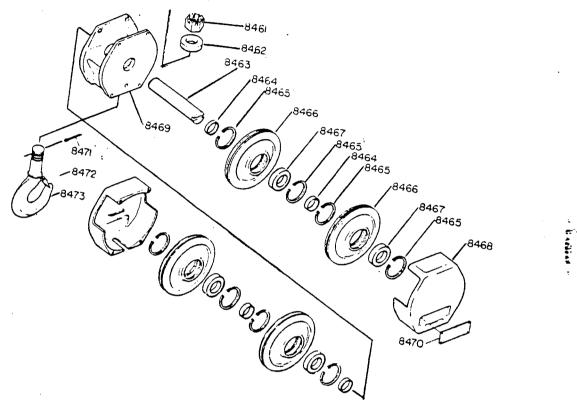
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8576 8577 8578 8579	Complete Block Assy.	25-03065-001 25-03068-001 22-11528-001 22-10791-009	1 2 2
8580	Roll Pin	22-07653-011	1
8581 8582	Ball Bearings Rope Sheave	6-30-050-211-1 24-05949-001	6 2** ,
8583	Snap Rings	22-02244-014	3
8584 8585	Bearing Spacer Rope Sheave	22-10790-006 24-06012-001	$\frac{2}{1}$
8586 8587	Load Hook Latch	24-03481-029 22-09929-006	1
8588	Cotter Pin	6-16-005-084-0	1
8589 8590	Thrust Bearing Slotted Nut.	6-30-160-032,50 23-07796-017	1
8591	Load Hook Assy. (Includes Latch-Nut-Bearing-Cotter Pins)	22-11576-003	` `1 -·
8592	Capacity Plates	22-11456-008(15ton)	2
8593 8594	Bolt Bolt	22-09413-760 22-09413-780	2 2
8595 8596	Washer Nut	6-23-001-047-0 6-14-007-008-0	4 4

FRAME 6

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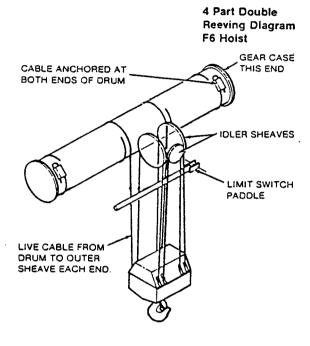
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ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8461	Slotted Nut	23-077,96-016	1
8462	Thrust Bearing	6-30-160-028-0	1
8463	Sheave Pin	23-07797-002	1
8464	Bearing Spacer	22-02265-007	2
8464	Bearing Spacer	22-02265-008	2
8465	Snap Rings	22-06498-017	8
8466	Rope Sheaves	24-06000-001	$\overset{\circ}{4}$
8467	Ball Bearings	6-30-050-210-1	4
8468	Block Side Covers	25-03039-002	2
8469	Trunion	25-03038-002	1
8470	Capacity Plates	22-11456-007 (10to	n)* 2
8471	Cotter Pin	6-16-005-084-0	1
8472	Latch Kit	22-09929-005	1
8473	Load Hook & Latch	24-05961-001	1
8474	Load Hook Assy. (Includes		1
	Latch-Nut-Bearing-Cotter Pins)	22-113/0-001	1
8475	Complete Block	25-03031-002	1

^{*}Consult Factory For Other Tonnages

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When the need for cable replacement has been established, proceed as follows:

CAUTION

Always wear heavy gloves when handling cables to avoid hand injuries from possible broken wires.

- Run block to the floor and lay on its side with axis of sheaves parallel to axis of hoist drum. Continue to run hoist in the down direction until only one half to one wrap of cable remains on the drum. Stop with drum in position where the rope clips anchoring the cable to the drum are most accessible.
- Remove the rope clips which anchor the cable ends to the drum. Pull the free cable ends from the drum and through the sheaves, removing the cable from the hoist. Discard old cable.
- Inspect rope sheaves, bearings, pins, etc. for wear or damage. Repair or replace as needed. Note: Placing a new cable in service in a sheave tracked or worn to a reduced groove radius will severely shorten cable life and can cause premature cable failure.

- 4. Unreel the replacement cable and inspect for any shipping damage, kinks, etc. Refer to Operation Maintenance Section — Wire Rope. If replacement cables are held in storage for extended periods of time, check for dried out lubricant or possible corrosion.
- Pass one end of the new cable around the stationary idler sheave (small sheave nearest the motor), pulling through half of the cable length so the free ends hang parallel and equal distance from the hoist.
- 6. Pass the free cable ends through the block sheaves, one each side, entering first the innersheaves, from the motor side. Check to insume cables are not crossed. Pass the free cable ends through the hoist idler sheaves, one each side, entering the sheaves from the drum side. Check to insure cables are not crossed. Pass the free cable ends through the outer block sheaves, one each side, entering from the motor side. Check to insure cables are not crossed. Pull the cable ends up to the drum and anchor them securely under the rope clips, one at either end of the drum. See reeving diagram. Check to insure that cables hang straight and are free of the limit paddle mechanism.

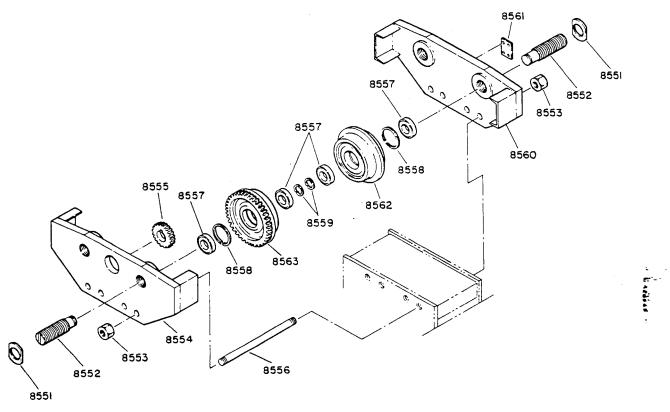
CAUTION

Make certain that limit switch paddle is operating freely. Safe operation of the hoist requires a properly operating limit switch mechanism.

- 7. Operate the hoist up control and guide cables to insure they spool properly onto the drum until the block weight is supported. Check to be certain that sheaves turn freely and that block hangs properly as shown in the reeving diagram.
- 8. Operate the block through the full range of lift for 2-3 cycles with empty hook. Check cables with block near the full up position to ensure they hang properly. Make 1-2 short lifts from the floor with a near capacity load. Follow this by retightening rope clips.

IMPORTANT

If equipped with optional geared limits, check and adjust limits as necessary to maintain original stop locations.

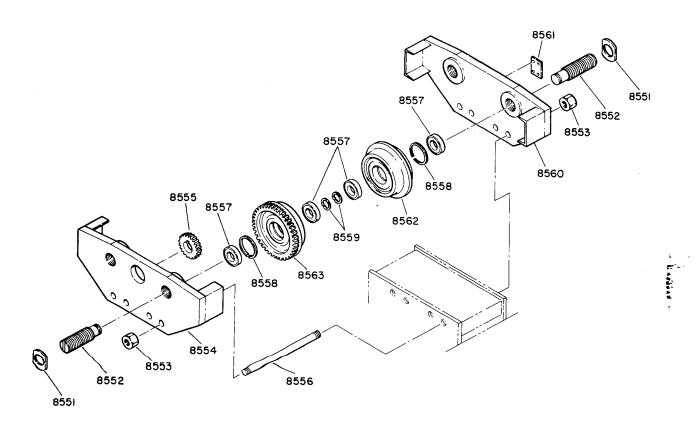


ITEM	DESCRIPTION	PART NUMBER	QUANTITY
8551	Lock Collar	22-00490-001	8
8552	Wheel Stud	23-05077-008	4
8553	Hex Nut	6-14-007-010-0	8
8554	Drive Side Plate	24-05784-001	1
8555	Drive Pinion	22-10985-003	1
8556*	Mounting Stud	22-03338-007	4
8557	Ball Bearing	6-30-042-209-0	8
8558	Retaining Ring	22-06498-022	4
8559	Retaining Ring	22-06497-034	4
8560	Idler Side Frame	24-05784-002	1
8561	No Longer Required		-
8562	Idler Wheel	23-07177-017	2
8563	Geared Wheel Assy.	23-07480-004	2

^{*}Length May Vary Depending On Operating Beam Flange Width.

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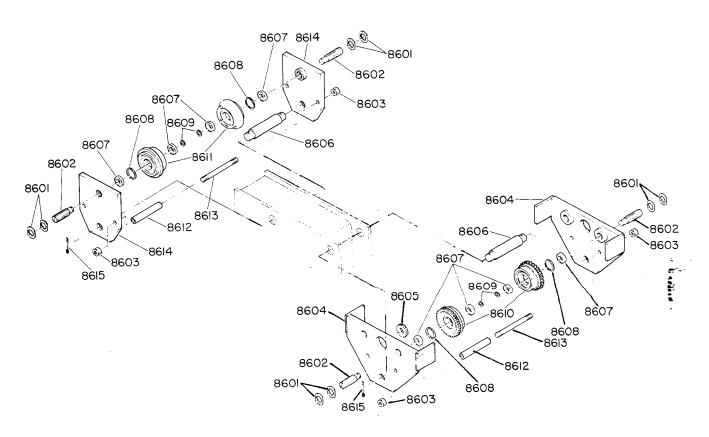
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ITEM	DESCRIPTION	PART NUMBER	<u>QTY</u>
8551	Lock Collar	22-00490-001	8
8552	Wheel Stud	23-05077-008	4
8553	Hex Nut	6-14-007-010-0	4 8
8554	Drive Side Plate	24-05784-001	1
8555	Drive Pinion	22-10985-024	ī
	Pinion Key	6-11-024-034-0	ī
	Pinion Set Screw	6-06-077-008-3	2
8556	Mounting Stud	22-03338-007	4
8557	-Ball Bearing	6-30-042-209-0	2 4 8 4 4
8558	Retaining Ring	22-06498-022	4
855 9	Retaining Ring	22-06497-034	4
8560	Idler Side Frame	24-05784-002	1
8561	No Longer Required	******	_
8562	Idler Wheel	23-08414-002	2
8563	Drive Wheel	23-08414-001	2 2
Not Shown	Shaft Bracket	23-07484-007	1
Not Shown	Shaft	23-07485-008	ī
Not Shown	Chain Guard	24-00217-004	ī
Not Shown	Hand Wheel	24-00216-026	ī
Not Shown	Chain	22-00005-001	ī

TYPE "M" TROLLEY 15 TON

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ITEM	DESCRIPTION	PART NUMBER	QTY
8601	Lock Collars	22-00490-001	12
8602	Wheel Studs	23-05077-009	6
8603	Hex Nuts	6-14-007-012-0	8
8604	Drive Side Plate	24-06013-001	2
8605	Drive Pinion	22-10985-024	2
	Pinion Key	6-11-024-034-0	2
	Pinion Set Screw	6-06-077-008-3	6 8 2 2 2 4
8606	Suspension Pins	23-07901-001	2
8 607	Ball Bearing	6-30-042-209-0	12
8608	Retaining Rings	22-06498-022	6
8609	Retaining Rings	22-06497-034	6
8610	Geared Wheel	23-08414-001	4
8611	Idler Wheel	23-08414-002	4 2 4
8612	Pipe Spacer	22-11530-001	4
8613	Trolley Stud	22-11529-001	4
8614	Idler Side Plate	24-06014-001	2
8615	Cotter Pin	6-16-005-096-0	4

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Trolley Wheel Setting

Trolleys designed to run on I-beams or WF sections (see Figure 6-2) must have wheel clearance such that there is approximately '%" clearance between wheel flange and rail with hoist/trolley centered on beam.

Trolley designed to run on patented type rails (see Figure 6-3) should have 1/16" clearance between wheel flange and rail with hoist/trolley centered on rail.

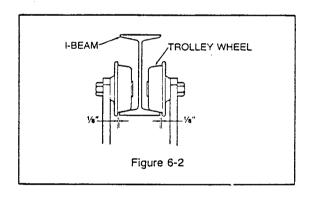
Note: If binding occurs while negotiating curves in track, trolley may be adjusted to provide 1/16" maximum additional clearance between wheel and WF or I-beam flanges.

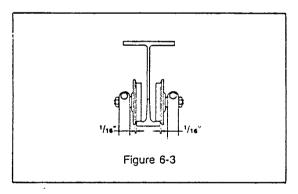
Trolley Adjustment Procedure

To adjust wheel setting, back off lock collars. Turn threaded wheel studs to adjust distance between wheel flanges. Retighten lock collar.

IMPORTANT

Each wheel must be positioned an equal distance from trolley side plate to maintain proper hoist balance.





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