

THE HUGHES-KEENAN COMPANY
Mansfield, Ohio

**PARTS LIST FOR MODEL MC-1R ROUSTABOUT CRANE ASSEMBLY
MOUNTED ON INTERNATIONAL HARVESTER COMPANY MODEL TD-14
WIDE TREAD, RIGID TRACK FRAME TRACTRATOR**

All prices are F.O.B. Mansfield, Ohio, and subject to change without notice. Sales or Excise Taxes imposed by Law, and Prices for Crating or Boxing for Export must be added to Prices given.

Always give Crane serial number when ordering parts.

PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Frame, Buffer Plate, Rear Bumper</u>			
C-3745-H	1	Mounting Frame Welded Assembly.....	
P-42-D	12	3/4" x 2" SAE Cap Screw.....	
P-45-G	12	3/4" SAE Hex. Nut.....	
P-47-G	12	3/4" Lock Washer.....	
P-41-E	2	5/8" x 2" SAE Cap Screw.....	
P-45-F	2	5/8" SAE Hex Nut.....	
P-47-F	2	5/8" Lock Washer.....	
P-31-E	8	1/2" x 1-3/4" USS Cap Screw.....	
P-31-F	2	1/2" x 2" USS Cap Screw.....	
P-47-E	10	1/2" Lock Washer.....	
P-48-A	10	1/2" Tapered washers.....	
C-4389	1	Buffer plate.....	
P-41-C	6	5/8" x 1-1/2" SAE Cap Screw.....	
P-45-F	6	5/8" SAE Hex Nut.....	
P-47-F	6	5/8" Lock Washer.....	
P-33-H	4	3/4" x 3" USS Cap Screw.....	
P-47-G	4	3/4" Lock Washer.....	
C-4419	2	Spacer for buffer plate (between buffer plate and tractor).....	
C-3745-R	1	Rear Bumper.....	
P-41-B	8	5/8" x 1-1/4" SAE Cap Screw.....	
P-45-F	8	5/8" SAE Hex Nut.....	
P-47-F	8	5/8" Lock Washer.....	
<u>Hoist Drum Gear Case and Drive Gear Assembly</u> (See Assembly Drawings C-2875 and C-2885)			
C-2807-X	1	Gear Case complete with C-2809 cover, C-3008 & C-3009 gaskets and C-181 bronze bushing.....	
P-40-E	14	1/2" x 1-3/4" SAE Cap Screw.....	
P-45-E	14	1/2" SAE Hex. Nut.....	
P-47-E	14	1/2" Lock Washer.....	
P-52-A	2	3/8" x 1-1/8" Dowel Pin.....	
P-46-C	2	3/8" Pipe Plug.....	
C-3008	2	Gasket for C-2807-X (Lower Gasket).....	
C-3009	2	Gasket for C-2807-X (Upper Gasket).....	
C-181	1	Bronze Bushing for C-2807-X.....	
C-4418	1	1/8" Pipe Plug with air vent for C-2807-X.....	
C-2974	1	Drive Shaft for Hoist Drum Gear Case.....	

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<i>Hoist Drum Gear Case and Drive Gear Assembly (Con't)</i>			
C-2823	1	Housing for C-2974 shaft	
P-32-C	4	5/8" x 1-1/2" USS Cap Screw	
P-47-F	4	5/8" Lock Washers	
C-3002	1	Gasket for C-2823	
207-S	1	Ball Bearing for C-2974 shaft	
208-S	1	Ball Bearing for C-2974 shaft	
N-08	1	Lock Nut for 208-S bearing on C-2974 shaft	
W-08	1	Lock Washer for above nut	
C-2824	1	Closure Plate for C-2823 housing	
P-29-C	4	3/8" x 1" USS Cap Screw	
P-47-C	4	3/8" Lock Washer	
C-3004	1	Gasket for C-2824	
237112	1	Oil Seal for C-2824	
C-2826	1	Retaining Plate for Oil Seal	
P-27-A	4	1/4" x 1/2" USS Cap Screw	
P-47-A	4	1/4" Lock Washer	
C-117	1	Bevel Gear (Drive gear on C-2974 shaft)	
P-20-E	1	#E Woodruff Key	
P-17-C	1	1-1/4" SAE Castellated Half Nut for C-117 gear	
C-107-A	1	Hoist Worm	
P-11-B	1	Key for C-107-A	
C-2972	1	Shaft for C-107-A Worm	
C-2829-X9	1	Shaft Support with C-2819 bushing	
C-2819	1	Bronze Bushing for C-2829 shaft support	
C-4673-A	2	5/8" x 1-1/2" USS Cap Screw-drilled for wire - for C-2829	
P-47-F	2	5/8" Lock Washer	
208-S	2	Ball Bearing for C-2972	
C-2999	2	Bearing Collar for 208-S bearings	
P-18-B	1	3/4" Retaining Washer (Cut Washer) for 208-S bearing	
P-19-A	1	3/4" SAE Retaining Nut (Castellated Half Nut) for 208-S	
P-50-F	2	1-1/8" SAE Retaining Nut (Half Nut) for 208-S bearing	
P-66-A	1	Thrust Bearing - between C-107-A worm and C-2829	
C-112-X	2	Reverse Gear with C-187 bronze bushing	
C-187	2	Bronze Bushing for C-112	
C-2814-A	1	Steel Thrust Washer - between C-2829 shaft support and C-187 Bushing	
C-2814-B	2 to 3	Steel Thrust Washer - between C-2999 collar and C-187 bushing.	
C-122	1	Reverse Clutch	
C-134-B	2	Thrust Ring for C-122 reverse clutch	
C-164	1	Shifter Yoke for C-122 reverse clutch	
C-169	1	Shifter Arm for C-164 Yoke	
P-10-C	1	Key for C-169 shifter arm	
C-168-B	2	Pin for joining C-164 yoke to C-169 arm	
C-3049	1	Shaft for C-169	
C-4679	1	Square Head Set Screw - 3/8" x 1/2" - drilled for wire	
C-3164	1	Operating Lever for C-3049 shaft	

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Hoist Drum Gear Case and Drive Gear Assembly (Con't)</u>			
P-10-A	1	Key for C-3164 lever.....	
C-3177	1	Bracket for C-3164 lever.....	
P-38-A	2	3/8" x 3/4" SAE Cap Screw.....	
P-47-C	2	3/8" Lock Washer.....	
C-2827	1	Bearing Cap for C-2807-X gear case, rear.....	
P-31-C	4	1/2" x 1-1/4" USS Cap Screw.....	
P-47-E	4	1/2" Lock Washer.....	
C-3003	1	Gasket for C-2827 bearing cap.....	
C-2729	1	Bearing Cap for C-2807-X gear case, front.....	
P-31-D	4	1/2" x 1-1/2" USS Cap Screw.....	
P-47-E	4	1/2" Lock Washer.....	
C-3006	1	Gasket for C-2729 bearing cap.....	
18711	1	Oil Seal for C-2729 bearing cap.....	
C-4724	1	Brake Drum on C-2972 worm shaft.....	
P-20-A	1	#A Woodruff Key for C-4724 drum.....	
P-50-C	1	3/4" SAE Retaining Half Nut for C-4724 drum.....	
C-4728	1	Brake Band Assembly for C-4724 drum.....	
P-18-C	2	5/16" Flat (wrought) Washer.....	
P-45-P	2	5/16" SAE Hex Nut.....	
P-31-K	1	1/2" x 3" USS Cap Screw.....	
P-46-E	1	1/2" USS Hex Nut.....	
C-2473	1	Compression Spring for C-4728 brake band assembly.....	
C-2668	1	Cover for inspection hole in C-2807-X gear case.....	
P-29-A	10	3/8" x 3/4" USS Cap Screw.....	
P-47-C	10	3/8" Lock Washer.....	
C-3001	1	Gasket for C-2668 cover.....	
C-312	1	Hoist Drum.....	
P-12-C	1	Key for C-312 drum.....	
C-3432	1	Shaft for C-312 drum.....	
C-104	1	Worm Gear (Bronze) on C-3432 shaft.....	
P-12-A	2	Key for C-104 worm gear.....	
C-2939	1	Retaining Washer for C-104 worm gear.....	
P-42-A	1	3/4" x 1-1/4" SAE Cap Screw.....	
C-2817	1	Spacer on C-3432 shaft.....	
P-20-A	1	#A Woodruff Key for C-2817 spacer.....	
C-3433	1	Spacer on C-3432 shaft.....	
C-4372-X	1	Shaft Support with C-4377 bushing.....	
P-41-B	4	5/8" x 1-1/2" SAE Cap Screw.....	
P-47-F	4	5/8" Lock Washer.....	
P-51-A	1	1/8" - 90° Zerk Grease Fitting.....	
C-4377	1	Bronze Bushing for C-4372 shaft support.....	
C-4741	Var.	Shims between hoist drum gear case and turntable (varies in thickness - 1/8", 1/4", 5/16" and 3/8").....	
C-3007	1	Gasket - between hoist drum gear case and turntable.....	
P-41-C	7	5/8" x 1-3/4" SAE Cap Screw - for bolting hoist drum gear case to turntable.....	
P-47-F	7	5/8" Lock Washer.....	

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<i>Turntable and Turntable Drive Gear Assembly (See Assembly Drawings C-2875, C-2885, and C-2895)</i>			
C-2839-X	1	Turntable Housing complete with C-2849 cover and C-3017 gaskets	
P-40-O	19	1/2" x 4" SAE Cap Screw - for bolting cover to housing	
P-47-E	19	1/2" Lock Washer	
P-52-A	2	3/8" x 1-1/8" Dowel Pin	
P-53-B	1	1/4" Pipe Plug	
P-53-D	1	1/2" Pipe Plug	
P-42-B	3	3/4" x 1-1/2" SAE Cap Screw - for bolting housing to frame	
P-42-D	6	3/4" x 2" SAE Cap Screw - for bolting housing to frame	
P-50-C	2	3/4" SAE Hex Half Nut	
P-47-G	8	3/4" Lock Washer	
C-3017	1 to 3	Gasket for C-2839-X	
C-89	1	Turntable	
C-4597	1	Ring Gear for C-89 turntable	
P-32-D	16	5/8" x 1-3/4" USS Cap Screw	
P-47-F	16	5/8" Lock Washer	
P-21-A	120	1-1/2" dia. Steel Ball for turntable	
C-102-A	1	Slewing Worm	
P-11-C	1	Key for C-102-A Worm	
C-2977	1	Shaft for C-102-A slewing worm	
C-2829-X8	1	Shaft Support with C-2818 bushing for C-2977 shaft	
C-2829-X9	1	Shaft Support with C-2819 bushing for C-2977 shaft	
C-2818	1	Bronze Bushing for C-2829-X8	
C-2819	1	Bronze Bushing for C-2829-X9	
C-4598-X	1	Shaft Support with C-189 bushing for C-2977 shaft	
C-189	1	Bronze Bushing for C-4598-X	
C-4673	4	5/8" x 1-3/4" SAE Cap Screw - drilled for wire - for C-2829-X8 and C-2829-X9	
P-47-F	4	5/8" Lock Washer	
C-4674	2	3/4" x 1-3/4" SAE Cap Screw - drilled for wire - for C-4598-X	
P-47-G	2	3/4" Lock Washer	
C-2828	2	Spring for slewing worm	
C-2968	2	Washer - for between slewing worm and C-2828 springs	
C-4559	1	Spacer - for between C-2828 spring and C-4598-X shaft support	
C-3069-B	1	Bronze Thrust Washer - for between C-2828 spring and C-2829-X9 shaft support	
C-157	1	Bronze Thrust Washer - for between C-4559 spacer and C-4598-X shaft support	
C-112-X	2	Reverse Gear with C-187 bushing	
C-187	2	Bronze Bushing for C-112-X	
C-2814-A	2	Steel Thrust Washer - (1 between C-2829-X9 shaft support and C-187 bush- ing, 1 between C-3069-B washer and C-2828 spring	
C-2814-B	2	Steel Thrust Washer - (1 between C-2829-X8 shaft support and C-187 bush- ing, 1 between C-157 washer and C-4559 spacer	

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<i>Turntable and Turntable Drive Gear Assembly (Con't)</i> <i>(See Assembly Drawings C-2875, C-2885, and C-2895)</i>			
C-122	1	Reverse Clutch.....	
C-134-B	2	Thrust Ring for C-122 reverse clutch.....	
C-164	1	Shifter Yoke for C-122 reverse clutch.....	
C-169	1	Shifter Arm for C-164 yoke.....	
P-10-C	1	Key for C-169 shifter arm.....	
C-168-B	2	Pin for joining C-164 yoke to C-169 arm.....	
C-3049	1	Shaft for C-169.....	
C-4679	1	Square Head Set Screw - 3/8" x 1/2" - drilled for wire.....	
C-3099	1	Operating lever for C-3049 shaft.....	
C-3178	1	Bracket for C-3099 lever.....	
P-18-D	2	1/2" Wrought (Flat) Washer.....	
C-3097	1	Bell Crank for automatic boom swing stop.....	
P-10-B	1	Key for C-3099 lever and C-3097 bell crank.....	
C-2938	1	Cover Plate for inspection hole in C-2839-X.....	
P-28-C	4	5/16" x 3/4" USS Cap Screw.....	
P-47-B	4	5/16" Lock Washer.....	
C-3018	1	Gasket for C-2938 cover plate.....	
C-471	1	Cover Plate for oil filler hole in C-2839-X.....	
P-28-C	4	5/16" x 3/4" USS Cap Screw.....	
P-47-B	4	5/16" Lock Washer.....	
C-3468	1	Gasket for C-471 cover plate.....	
C-2979	1	Drive Shaft for turntable.....	
C-2823	1	Housing for C-2979 drive shaft.....	
P-41-C	4	5/8" x 1-1/2" SAE Cap Screw.....	
P-47-F	4	5/8" Lock Washer.....	
C-3002	1	Gasket for C-2823 housing.....	
207-S	1	Ball Bearing for C-2979 drive shaft.....	
208-S	1	Ball Bearing for C-2979 drive shaft.....	
N-08	1	Lock Nut for 208-S bearing on C-2979 shaft.....	
W-08	1	Lock Washer for above nut.....	
C-2824	1	Closure Plate for C-2823 housing.....	
P-29-C	4	3/8" x 1" USS Cap Screw.....	
P-47-C	4	3/8" Lock Washer.....	
C-3004	1	Gasket for C-2824.....	
237112	1	Oil Seal for C-2824.....	
C-2826	1	Retaining Plate for oil seal.....	
P-27-A	4	1/4" x 1/2" USS Cap Screw.....	
P-47-A	4	1/4" Lock Washer.....	
C-117	1	Bevel Drive Gear on C-2979 shaft.....	
P-20-E	1	#E Woodruff Key for C-117 gear.....	
P-19-C	1	1-1/4" SAE Retaining Half Nut (Castellated) for C-117 gear.....	

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Boom Topping Lift Winch Assembly</u> (See Assembly Drawing C-3065-H)			
C-1407-X	1	Winch Gear Case complete with C-1408 case, C-3014 & C-3121 gaskets and babbitt bearings.	
P-40-E	11	1/2" x 1-3/4" SAE Cap Screw	
P-40-L	2	1/2" x 3-1/4" SAE Cap Screw	
P-45-E	13	1/2" SAE Hex. Nut	
P-47-E	13	1/2" Lock Washer	
P-52-B	2	3/8" x 3/4" Dowel Pin	
P-53-E	2	3/4" Pipe Plug	
P-53-D	4	1/2" Pipe Plug	
C-3121	1	Gasket for C-1407-X (Upper Gasket)	
C-3014	1	Gasket for C-1407-X (Lower Gasket)	
C-1404	2	Closure Plate with 1-11/32" hole for C-1407-X gear case	
C-1409	2	Closure Plate (no hole) for C-1407-X gear case	
P-31-C	12	1/2" x 1-1/4" USS Cap Screw	
P-47-E	12	1/2" Lock Washer	
C-3019	4	Gasket for C-1404 and C-1409 closure plates	
C-1624	1	Shaft for Winch Drum	
C-312-A	1	Winch Drum	
P-12-E	1	Key for C-312-A drum	
C-1622-A	1	Spacing Collar - 5-1/4" long - for C-312-A drum	
C-1622-B	1	Spacing Collar - 3-1/4" long - for C-312-A drum	
C-1424-X	1	Shaft Support with babbitt bearing for C-1624 drum shaft	
C-1412	1	Worm Gear for C-1624 shaft	
P-12-D	2	Key for C-1412 worm gear	
C-1414	1	Hoist worm	
C-1439	1	Shaft for C-1414 hoist worm	
P-10-Q	1	Key for C-1414 hoist worm	
C-1431-X	1	Double Jaw Clutch -- with 1/2" SAE Nut welded on	
<u>C-1437</u>	1	Shaft for C-1431 jaw clutch	
P-21-B	1	Poppet Ball (1/2" steel ball) - for C-1431 jaw clutch	
P-13-A	1	Poppet Ball Spring - for C-1431 jaw clutch	
C-2478	1	Retaining Screw for poppet ball and spring	
C-1417	1	Jaw clutch Pinion -- 33 tooth	
C-1416	1	Pinion for C-1439 worm shaft - 33 tooth	
C-1419	1	Jaw Clutch Sprocket - 15 tooth - 3/4" pitch	
C-1418	1	Sprocket for C-1439 worm shaft - 15 tooth - 3/4" pitch	
P-10-R	2	Key - for C-1416 pinion and C-1418 sprocket	
WRA-206	2	Hyatt Roller Bearing -- for C-1417 pinion and C-1419 sprocket	
P-22-A	1	Length 3/4" pitch single Roller Chain - 26 links - connects C-1418 and C-1419 sprockets.	

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<i>Boom Topping Lift Winch Assembly (Con't)</i> <i>(See Assembly Drawing C-3065-H)</i>			
C-1462	2	Closure Spacer - for WRA-206 bearing	
7307	2	Ball bearing - for C-1439 shaft	
208-S	2	Ball bearing - for C-1437 shaft	
C-1461	2	Ball bearing collar for 208-S bearing	
20018	2	Oil seal - for C-1404 closure plate	
C-1466	2	End Collar - for C-1624 drum shaft	
P-52-C	2	Pin - 3/8" dia. x 3-1/2" long - for C-1466 collar	
C-1428	1	Bronze Shifting Fork for C-1431 jaw clutch	
C-1432	1	Shifting Rod - for C-1428 fork	
P-45-F	1	5/8" SAE Hex. Nut	
18328	2	Oil seal - for C-1432 rod	
C-1433	1	Tubing spacer - for C-1432 rod	
C-1434	1	Shifting lever with 3/8" x 2" SAE Clamp Bolt - for C-1432 rod	
C-1443	1	Cast Brake Drum - for C-1439 worm shaft	
C-1444	1	Brake Band Assembly	
P-45-B	2	5/16" SAE Hex. Nut	
P-18-C	2	5/16" wrought (Flat) washer	
C-1444 -S	1	Spring - for C-1444 brake band	
C-1489	1	Bracket - for C-1444 brake band	
P-28-C	2	5/16" x 3/4" USS Cap Screw	
P-47-B	2	5/16" Lock Washer	
C-1623	1	Winch Operating Shaft	
P-11-F	2	Key - for C-1623 shaft	
C-3541	1	Winch Operating Sub-lever - with 3/8" x 2" SAE clamp bolt	
C-4019	1	Winch Operating Lever	
C-5079	1	Bracket - for C-4019 Lever	
P-57-B	1	Cotter Pin - 1/4" x 1-3/4"	
C-5074	1	Keeper Plate - for C-4019 lever	
C-3154	1	Reach Rod -connects C-3541 sub-lever to C-4019 lever	
P-24-B	2	Yoke End & Pin - 1/2" SAE - for C- 3154 rod	
P-45-E	2	1/2" SAE Hex. Nut	
P-57-D	2	Cotter Pin - 1/8" x 1"	
C-3096	1	Guard - for winch drum	
P-40-C	2	1/2" x 1-1/4" SAE Cap Screw	
P-45-E	2	1/2" SAE Hex. Nut	
P-47-E	2	1/2" Lock Washer	
C-1621	1	Winch Support Frame welded Assembly - welds to main frame	
P-41-F	12	5/8" x 2-1/4" SAE Cap Screw	
P-45-F	12	5/8" SAE Hex. Nut	
P-47-F	12	5/8" Lock Washer	
P-48-B	12	5/8" Tapered Washer	
P-51-A	2	1/8" - 90° Zerk Grease Fitting (1 for C-1623 shaft, 1 for C-1424-X shaft support)	
P-51-B	1	1/8" - Straight Zerk Grease Fitting - for C-1623 shaft	

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<i>Rear Bevel Gear Drive (See Assembly Drawing C-2965-H)</i>			
C-3409	1	Case for Bevel Gear Drive	
C-3414	1	Cover for C-3409 case	
P-41-F	6	5/8" x 2-1/4" SAE Cap Screw	
P-41-D	1	5/8" x 1-3/4" SAE Cap Screw	
P-45-F	7	5/8" SAE Hex. Nut	
P-47-F	7	5/8" Lock Washer	
P-48-B	6	5/8" Tapered Washer	
P-28-C	2	5/16" x 3/4" USS Cap Screw	
P-47-B	2	5/16" Lock Washer	
P-53-D	3	1/2" Pipe Plug	
C-3419	1	Gasket for C-3414 Cover	
C-3043	1	Bevel Gear Shaft - (driven from Power Take-off)	
C-3044	1	Bevel Gear Shaft - (to drive side gear case)	
C-117	2	Bevel Gear - for C-3043 and C-3044 shafts	
P-10-P	2	Key - for C-117 bevel gear	
P-19-D	1	1" SAE Castellated Half Nut on C-3044 shaft	
P-57-E	1	Cotter Pin - 5/32" x 2"	
1208	3	Ball Bearing - (2 for C-3044 shaft and 1 for C-3043 shaft)	
1206	1	Ball Bearing - for C-3043 shaft	
C-3048	1	Spacer - between C-117 gear and 1206 bearing	
C-3047	1	Closure Plate (no hole)	
P-28-C	4	5/16" x 3/4" USS Cap Screw	
P-47-B	4	5/16" Lock Washer	
C-3413	1	Gasket for C-3047 closure plate	
C-3046	2	Closure Plate (with hole)	
P-28-C	8	5/16" x 3/4" USS Cap Screw	
P-47-B	8	5/16" Lock Washer	
C-3413	2	Gasket for C-3046 closure plates	
276116	2	Oil Seal for C-3046 closure plates	
<i>Sprockets, Chains and Chain Guards for Winch, Hoist Drum Gear Case and Turntable (See Drawing C-3045-H)</i>			
C-3081	2	Sprocket - 15 tooth - 3/4" pitch - for power take-off shaft	
P-10-S	1	Key - 3/8" x 3/8" x 2-3/4" long - for C-3081 sprocket	
C-3082	1	Sprocket - 24 tooth - 3/4" pitch - for C-1437 winch shaft	
P-11-E	1	Key - 5/16" x 5/16" x 2-1/4" long - for C-3082 sprocket	
P-26-C	1	Spacer - for C-3082 sprocket	
C-3089	1	Retaining Washer - for C-3082 sprocket	
P-38-A	1	3/8" x 3/4" SAE Cap Screw	
P-47-C	1	3/8" Lock Washer	
P-22-B	1	Length 3/4" Pitch Single Roller Chain - 46 links - connects C-3081 and C-3082 sprockets	
C-3083	1	Sprocket - 20 tooth - 3/4" pitch - for C-3043 bevel gear shaft.	

THE HUGHES-KEENAN COMPANY
Mansfield, Ohio

PARTS LIST FOR MODEL MC-1R ROUSTABOUT CRANE ON TD-14 TRACTRATOR

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Sprockets, Chains, Chain Guards, Etc. (Con't)</u>			
P-10-P	1	Key - 3/8" x 3/8" x 1-1/2" long - for C-3083 sprocket	
C-3089	1	Retaining Washer - for C-3083 sprocket	
P-40-A	1	1/2" x 3/4" SAE Cap Screw	
P-47-E	1	1/2" Lock Washer	
P-22-C	1	Length 3/4" Pitch Single Roller Chain -- 44 links - connects C-3081 and C-3083 sprockets	
C-3093	1	Chain Guard - for power take-off drive chains	
P-38-C	2	3/8" x 1" SAE Cap Screw	
P-45-C	2	3/8" SAE Hex. Nut	
P-47-C	2	3/8" Lock Washer	
C-4216	1	Sprocket - 14 tooth - 3/4" pitch - for C-3044 bevel gear shaft	
P-10-T	1	Key - 3/8" x 3/8" x 1-1/4" long - for C-4216 sprocket	
C-3089	1	Retaining Washer - for C-4216 sprocket	
P-40-A	1	1/2" x 3/4" SAE Cap Screw	
P-47-E	1	1/2" Lock Washer	
C-3086	1	Sprocket - 20 tooth - 3/4" pitch - for C-2974 gear case shaft	
P-26-B	1	Spacer - for C-3086 sprocket	
P-22-D	1	Length 3/4" Pitch Single Roller Chain - 144 links - connects C-4216 and C-3086 sprockets	
C-3104	1	Chain Guard and Cover - C-4216 and C-3086 sprockets and chains	
C-3464	1	Gasket - for C-3104 chain guard	
P-28-C	15	5/16" x 3/4" USS Cap Screw	
P-47-B	15	5/16" Lock Washer	
P-54-C	1	3/8" Street Elbow	
P-53-C	1	3/8" Pipe Plug	
276116	1	Oil Seal - for C-3104 chain guard	
C-4214	1	Sprocket - 14 tooth - 3/4" pitch - for C-2974 gear case shaft	
P-11-D	1	Key - 5/16" x 5/16" x 3" long - for C-3086 and C-4214 sprockets	
C-3089	1	Retaining Washer - for C-3086 and C-4214 sprockets	
P-40-A	1	1/2" x 3/4" SAE Cap Screw	
P-47-E	1	1/2" Lock Washer	
C-4219	1	Sprocket - 35 tooth - 3/4" pitch - for C-2979 turntable shaft	
P-11-A	1	Key - 5/16" x 5/16" x 2" long - for C-4219 sprocket	
C-2969-A	1	Spacer - for C-4219 sprocket	
C-3089	1	Retaining Washer - for C-4219 sprocket	
P-40-A	1	1/2" x 3/4" SAE Cap Screw	
P-47-E	1	1/2" Lock Washer	
P-22-F	1	Length 3/4" Pitch Single Roller Chain - 74 links - connects C-4214 and C-4219 sprockets	
C-3109	1	Chain Guard and Cover - for C-4214 and C-4219 sprockets and chains	
C-3467	1	Gasket - for C-3109 chain guard	
P-37-C	13	5/16" x 3/4" USS Cap Screw	
P-46-B	13	5/16" Lock Washer	
P-54-C	2	Street Elbow - 3/8"	
P-56-B	1	Pipe Nipple - 3/8" x 3"	
P-55-C	1	Pipe Cap - 3/8"	

THE HUGHES-KEENAN COMPANY
Mansfield, Ohio

PARTS LIST FOR MODEL MC-1R ROUSTABOUT CRANE ON TD-14 TRACTRATOR

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<i>Mast, Boom, Sheaves, Wire Rope, Etc. (See Assembly Drawing C-3475-F)</i>			
C-3415-H	1	Mast, welded assembly	
P-33-D	10	3/4" x 2" USS Cap Screw	
P-33-E	2	3/4" x 2-1/4" USS Cap Screw	
P-33-H	4	3/4" x 3" USS Cap Screw	
P-47-G	14	3/4" Lock Washer	
C-569	1	Cover Plate - between mast and turntable	
C-4065-H	1	Boom Welded Assembly - 16'0" long	
C-3656	2	Boom Rest Bar (welds to C-3415-H mast)	
HM-807-A	2	Boom Bearing - (welds to C-3415-H mast)	
P-9-F	2	Pin - 1-1/2" dia. x 4" long - connects boom to HM-807-A	
P-57-A	2	Cotter Pin - 1/4" x 2"	
C-2119-C	1	Sheave Yoke at top of mast - for boom topping cable	
P-5-G	1	Pin - 1-1/2" dia. x 7-1/8" long - connects C-2119-C to mast	
P-57-A	2	Cotter Pin - 1/4" x 2"	
C-2119-B	1	Sheave Yoke at outer end of boom - for boom topping cable	
P-5-V	1	Pin - 1-1/2" dia. x 6-3/8" long - connects C-2119-B to boom	
P-57-A	2	Cotter Pin - 1/4" x 2"	
P-8-E	2	Pin - 1-1/2" dia. x 3-3/4" long - for 10" sheaves in C-2119-B & C	
P-8-Q	2	Pin - 1-1/2" dia. x 3-1/2" long - for 8" sheaves in C-2119-B & C	
P-57-A	4	Cotter Pin - 1/4" x 2"	
P-29-A	4	3/8" x 3/4" USS Cap Screw	
P-47-C	4	3/8" Lock Washer	
P-51-B	4	Zerk Grease Fitting - 1/8" Straight - for P-8-E and P-8-Q	
P-2-A	1	Pin - 1" dia. x 3-1/2" long - for cable dead end in C-2119-B	
P-57-B	2	Cotter Pin - 1/4" x 1-3/4"	
P-49-A	1	Pin - 1-1/2" dia. x 6-1/4" long - for sheaves in mast	
P-57-A	1	Cotter Pin - 1/4" x 2"	
P-29-A	1	3/8" x 3/4" USS Cap Screw	
P-47-C	1	3/8" Lock Washer	
P-51-B	1	Zerk Grease Fitting - 1/8" Straight - for P-49-A Pin	
P-8-KK	1	Pin - 1-1/2" dia. x 5-1/2" long - for sheave in boom	
P-57-A	1	Cotter Pin - 1/4" x 2"	
P-29-A	1	3/8" x 3/4" USS Cap Screw	
P-47-C	1	3/8" Lock washer	
P-51-B	1	Zerk Grease Fitting - 1/8" Straight - for P-8-KK	
P-49-B	1	Pin - 1-1/2" dia. x 6-1/4" long - for load line cable dead end	
P-57-A	1	Cotter Pin - 1/4" x 2"	
C-304	1	Cast Load Block	
C-1879-X	1	Load Hook (with nut, washer and pin) - C-304 load block	
P-45-H	1	7/8" SAE Hex. Nut	
P-18-E	1	7/8" Wrought (Flat) washer	
P-52-D	1	Pin - 1/4" x 1-1/2" Drill Rod	
C-2336	1	Pin - 1-1/2" dia. x 3-1/2" long - for sheave in load block	
P-57-A	1	Cotter Pin - 1/4" x 2"	

THE HUGHES-KEENAN COMPANY
Mansfield, Ohio

PARTS LIST FOR MODEL MC-1R ROUSTABOUT CRANE ON TD-14 TRACTRACTOR

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PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Mast, Boom, Sheaves, Wire Rope, Etc. (Con't)</u> (See Assembly Drawing C-3475-F)			
P-51-B	1	Zerk Grease Fitting - 1/8" Straight - for C-2336	
C-193-X	6	8" Sheave - complete with C-2663 bushing	
C-1188-X	2	10" Sheave - complete with C-2663 bushing	
C-2663	8	Bushing - for 8" and 10" sheaves	
P-25	1	Wire Rope - 7/16" - 6 x 37 - 100'0" long - for boom topping	
P-25-A	1	Wire Rope - 7/16" - 6 x 37 - 70'0" long - for load line	
P-59-A	6	7/16" Cable Clamp - for wire rope	
P-59-B	2	7/16" cable Thimble - for wire rope	
<u>Boom Topping Cable Guide Roller</u>			
C-6022-X	1	Winch Cable Guide Roller - complete with C-2663 bushings	
C-3152	1	Bracket for C-6022-X roller - (welds to main crane frame)	
C-2609	1	Lower Support Pin - for C-3152 bracket	
C-2663	2	Super Oilite Bushing - for C-6022-X	
C-6023	1	Shaft - for C-6022-X	
P-16-C	1	Retaining Platé - for C-6023 shaft	
P-28-C	2	5/16" x 3/4" USS Cap Screw	
P-47-B	2	5/16" Lock Washer	
P-51-B	1	Zerk Grease Fitting - 1/8" Straight - for C-6023	
<u>Tractor Controls and Miscellaneous Parts</u> (See Assembly Drawing C-3705-H)			
C-3161	1	Shaft - for Tractor control levers	
P-18-F	2	1" Wrought (flat) washer	
P-57-A	2	Cotter Pin - 1/4" x 2"	
C-4373	1	Shaft Support - left hand - for C-3161 shaft	
C-4374	1	Shaft Support - center - for C-3161 shaft	
C-4376	1	Shaft Support - right hand - for C-3161 shaft	
P-31-D	7	1/2" x 1-3/4" USS Cap Screw - for C-4373, C-4374 and C-4376	
P-47-E	7	1/2" Lock Washer	
C-3021	1	Spacer - 1" black pipe - 1/2" long - on C-3161 shaft	
C-3022	1	Spacer - 1" black pipe - 3/4" long - on C-3161 shaft	
C-3028	1	Spacer - 1" black pipe - 4" long - on C-3161 shaft	
C-3999	2	Steering Brake Pedal	
C-4014	2	Steering Brake Lever (1 R.H. & 1 L.H.) - (I.H. Co's Parts #6915-D and #6916-D modified)	
C-4288	2	Reach Rod - connects C-3999 and C-4014	
C-3169	4	Bolt - for C-4288 reach rod	
P-45-G	4	3/4" SAE Hex. Nut	
P-47-G	4	3/4" Lock Washer	
C-4003	2	Reach Rod for steering brake pedal locking pawls	
P-57-C	2	Cotter Pin - 1/8" x 3/4"	
C-4013	2	Locking Pawl for C-4014 lever - I.H. Co's Part #5818-D modified	
C-4594	2	Stop for steering brake pedal locking pawls (welds to I.H. Co's part #65451-DX)	

THE HUGHES-KEENAN COMPANY
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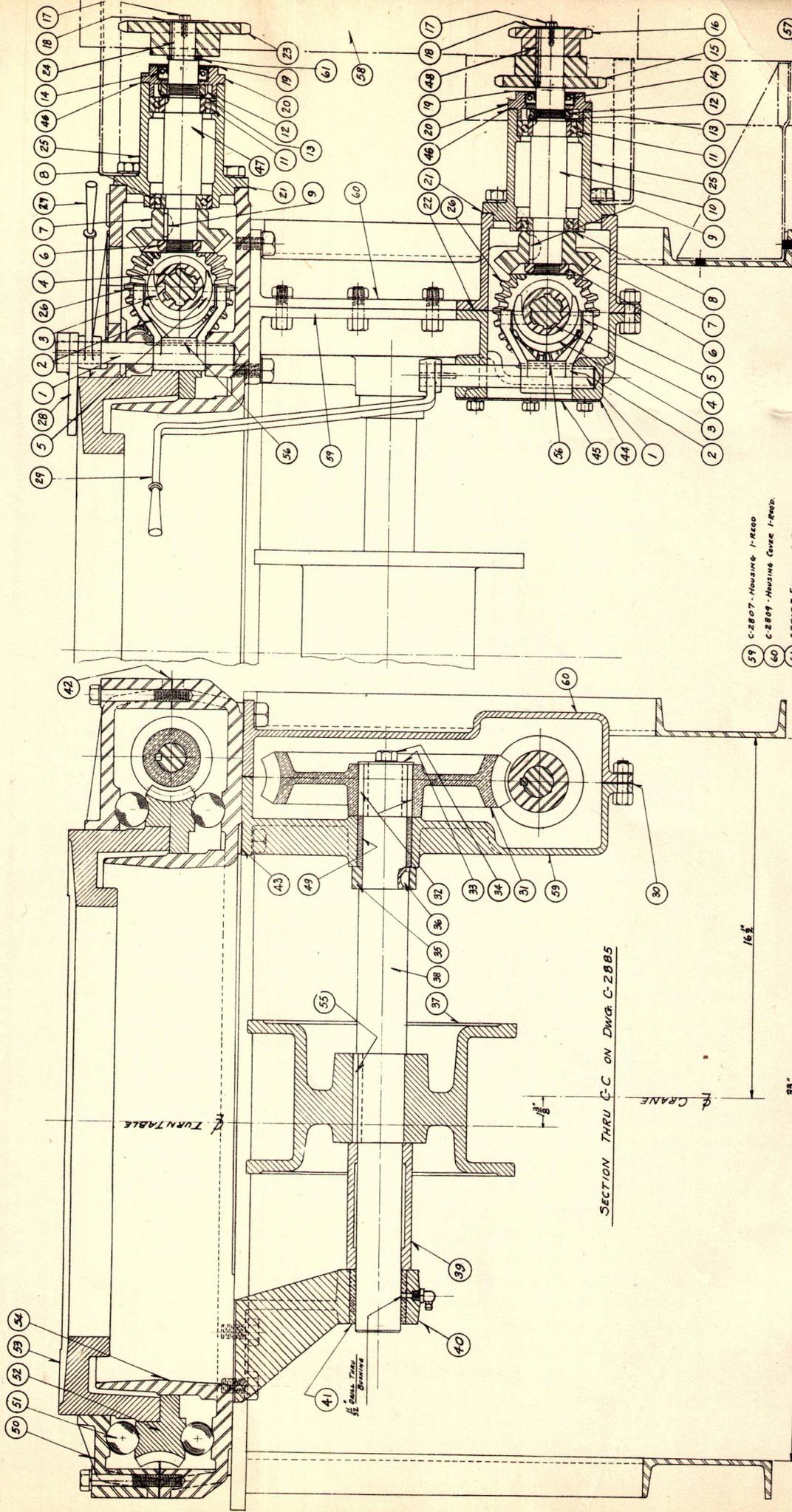
PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<i>Tractor Controls and Miscellaneous Parts (Con't)</i>			
C-4018	1	Tractor Master Clutch Lever - (I.H.Co's Part#6919-DX modified)	
C-3247	1	Bronze Bushing - for C-4018 clutch lever	
C-4016	1	Operating Sub-lever with 3/8" x 2" SAE clamp bolt - for tractor master clutch	
C-4011	1	Reach Rod - connects C-4016 and C-4018 levers	
P-24-C	2	Yoke End and Pin - 5/8" SAE - for C-4011 reach rod	
P-45-F	2	5/8" SAE Hex. Nut	
P-57-D	3	Cotter Pin - 1/8" x 1"	
C-4012	1	Pin (special) - for yoke end	
C-4006	1	Compression Release Operating Lever - (bolts to C-4373)	
P-41-E	1	5/8" x 2" SAE Cap Screw	
P-45-F	1	5/8" SAE Hex. Nut	
P-47-F	1	5/8" Lock Washer	
C-4742	1	Compression Release Lever (I.H. Co's Part#9634-D modified)	
C-3158	1	Bracket for C-4742 Lever (welds to main Crane frame)	
C-4004	1	Reach Rod - connects C-4006 and C-4742 levers	
P-24-A	1	Yoke End and Pin - 3/8" SAE -for C-4004 reach rod	
P-45-C	1	3/8" SAE Hex. Nut	
P-57-C	2	Cotter Pin - 1/8" x 3/4"	
C-4001	1	Bracket - for I.H. Co's Governor Control lever #9646-D (welds to main Crane frame)	
P-60-D	1	5/8" USS Hex. Half Nut - I.H. Co's Governor Control Lever Shaft #52403-D	
C-4002	1	Reach Rod - for Governor Control Lever	
P-24-B	1	Yoke End and Pin - 1/2" SAE - for C-4002 reach rod	
P-45-E	1	1/2" SAE Hex.Nut	
P-57-D	2	Cotter Pin - 1/8" x 1"	
C-4007	1	Operating Lever for Power Take-off	
C-4008	1	Bracket - for C-4007 lever (welds to I.H. Co's Part #66140-DX)	
P-41-E	1	5/8" x 2" SAE Cap Screw	
P-45-F	1	5/8" SAE Hex. Nut	
P-47-F	1	5/8" Lock Washer	
C-4413	1	Operating Sub-lever Arm - for Power Take-off	
C-4009	1	Reach Rod - connects C-4007 and C-4413 levers	
P-24-B	2	Yoke End and Pin - 1/2" SAE - for C-4009 reach rod	
P-45-E	2	1/2" SAE Hex. Nut	
P-57-D	2	Cotter Pin - 1/8" x 1"	
C-3684	1	Transmission Shifting Lever - (I.H. Co's Part #61795-DX modified)	
C-4338	2	Side Plates for Tractor seat and fuel tank (right & left hand)	
P-38-C	10	3/8" x 1" SAE Cap Screw	
P-45-C	10	3/8" SAE Hex.Nut	
P-47-C	10	3/8" Lock Washer	
P-40-D	8	1/2" x 1-1/2" SAE Cap Screw	
P-45-E	8	1/2" SAE Hex.Nut	
P-47-E	8	1/2" Lock Washer	
P-48-A	8	1/2" Tapered Washer	
C-4334	2	Fuel Tank Support - R. & L. Hand - (welds to C-4338 side plates)	
P-41-B	4	5/8" x 1-1/4" SAE Cap Screw	

THE HUGHES-KEENAN COMPANY
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PARTS LIST FOR MODEL MC-1R ROUSTABOUT CRANE ON TD-14 TRACTRACTOR

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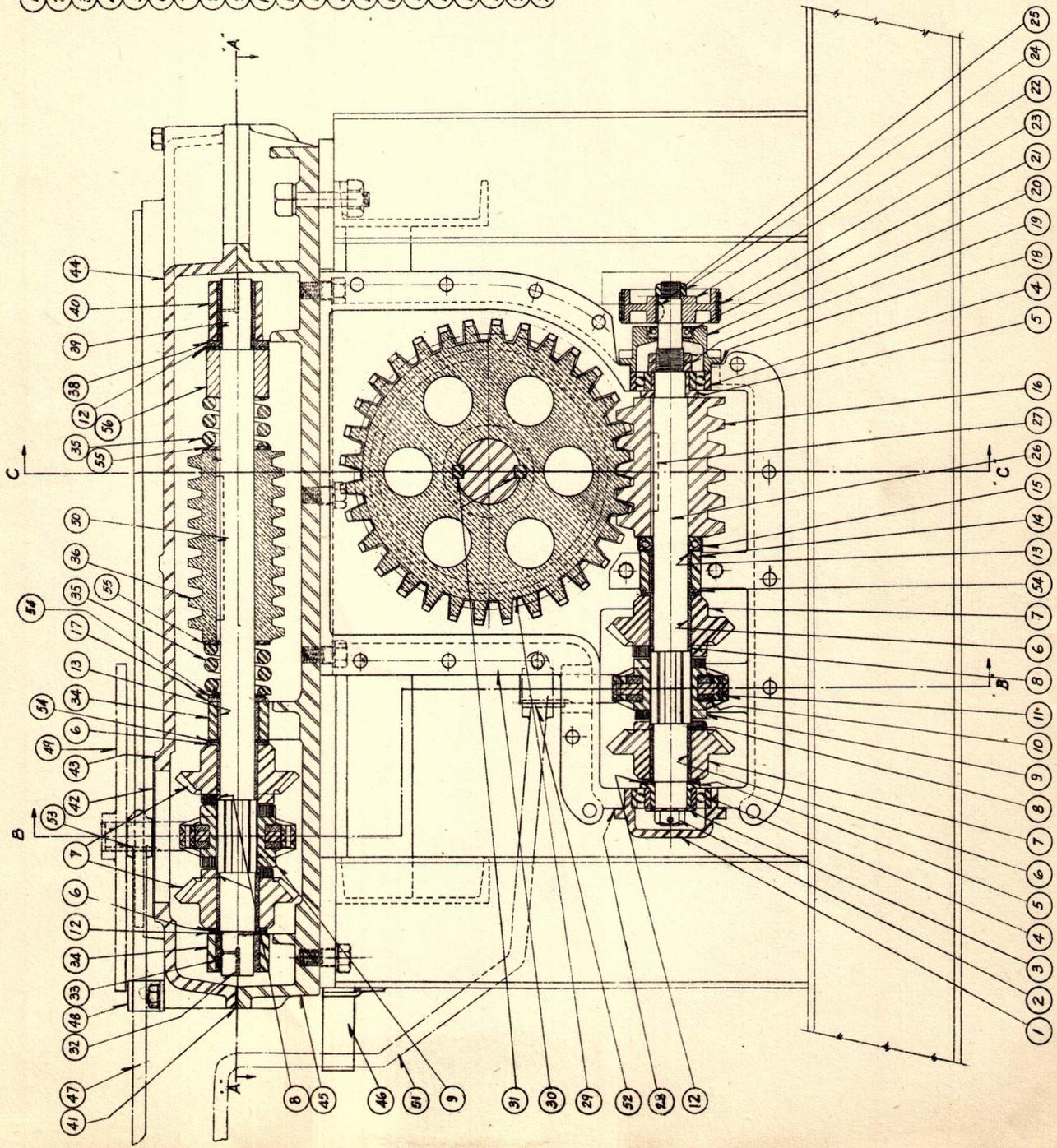
PART NUMBER	NUMBER REQ'D.	DESCRIPTION	LIST PRICE EACH
<u>Tractor Controls and Miscellaneous Parts (Con't)</u>			
P-45-F	4	5/8" SAE Hex Nut	
P-47-F	4	5/8" Lock Washer	
C-3159	1	Guard - for Boom Topping cable - on Tractor operating platform	
P-38-C	3	3/8" x 1" SAE Cap Screw	
P-45-C	3	3/8" SAE Hex. Nut	
P-47-C	3	3/8" Lock Washer	
C-3174	1	Elbow for Exhaust Muffler	
C-3398	1	Bracket - for Seat Lazy Back	
P-61-A	6	#14 x 1" F.H. Wood Screw	
P-38-A	4	3/8" x 3/4" SAE Cap Screw	
P-45-C	4	3/8" SAE Hex. Nut	
P-47-C	4	3/8" Lock Washer	
C-3157	1	Bracket for Air Cleaner - (welds to main frame)	
P-31-E	4	1/2" x 1-3/4" USS Cap Screw	
P-31-C	4	1/2" x 1-1/4" USS Cap Screw	
P-47-C	8	1/2" Lock Washer	
P-32-A	1	5/8" x 1" USS Cap Screw	
P-47-F	1	5/8" Lock Washer	
C-3173	1	Bracket for Fire Extinguisher - (welds to main frame)	
P-62-A	2	1/4" Fuel Line Extension Pipe with coupling - 25" long - used to extend fuel pipes #50148-D furnished by I.H. Co.	
C-2512	1	Clamp for Fuel Line	
C-2513	1	Clamp for Fuel Line	
P-38-H	2	3/8" x 2" SAE Cap Screw - for C-2512, and for C-2513 Fuel line clamps	
P-45-C	2	3/8" SAE Hex. Nut	
P-47-C	2	3/8" Lock Washer	
C-4609	1	Primer Rod	
C-4593	1	Hood Support	
P-38-F	2	3/8" x 1-1/2" SAE Cap Screw	
P-45-C	2	3/8" SAE Hex. Nut	
P-47-C	2	3/8" Lock Washer	
C-4339	2	Mounting Step - (welds to main frame)	
P-58-A	1	1/4" Copper Tube - 62" long - to oil pressure gauge on dash	
P-38-C	1	3/8" x 1" SAE Cap Screw	
P-45-C	1	3/8" SAE Hex. Nut	
P-47-C	1	3/8" Lock Washer	
C-3677	2	Guard for Zerk Fittings on platform	
C-4659	1	Boom Load Limit Gauge	
P-51-B	2	Zerk Grease Fitting - 1/8" Straight - for C-3999 pedals	
P-51-A	1	Zerk Grease Fitting - 1/8" - 90° - for R.H. steering clutch	
P-63-A	4	3/16" x 1" R.H. Stove Bolts - for bolting I.H. Co's name plate to buffer plate	



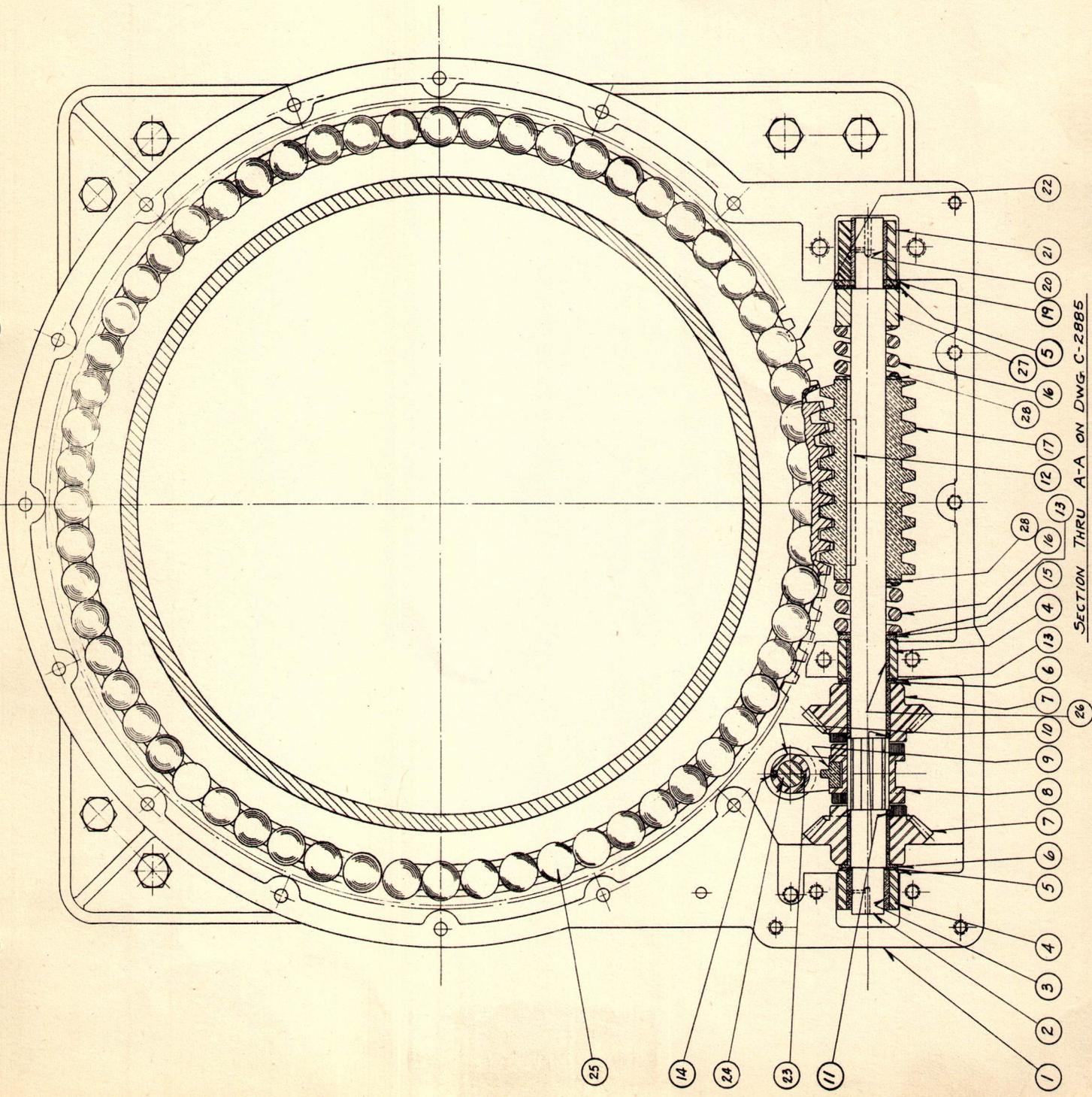
- SECTION THRU B-B ON DWG C-2885**
- 1 C-3049 SHAFT 2-REQD
 - 2 C-169 SHIFTER ARM 2-REQD
 - 3 C-164 SHIFTER YOKER 2-REQD
 - 4 C-122 CLUTCH 1-REQD
 - 5 C-168 B PIN 4-REQD
 - 6 1/2" DIA. HEX NUT 2-REQD
 - 7 C-117 GEAR 2-REQD
 - 8 207 S BEARING 2-REQD
 - 9 E WASHFIT KEY
 - 10 C-274 SHAFT 1-REQD
 - 11 208-S BEARING 2-REQD
 - 12 N-08 LOCK NUT 2-REQD
 - 13 W-08 LOCK WASHER 2-REQD
 - 14 23712 OIL SEAL 1-REQD
 - 15 C-3086 SPROCKET 1-REQD
 - 16 C-4214 SPROCKET 1-REQD
 - 17 1/2" CAP SCREW 2-REQD
 - 18 C-3088 WASHER 2-REQD
 - 19 C-2826 PLATE 2-REQD
 - 20 C-2824 CAP 2-REQD
 - 21 C-3002 GASKET 2-REQD
 - 22 C-3009 GASKET 1-REQD
 - 23 C-4219 SPROCKET 1-REQD
 - 24 P-11A KEY 1-REQD
 - 25 C-2823 HOUSING 2-REQD
 - 26 C-112 GEAR 2-REQD
 - 27 C-3099 LEVER 1-REQD
 - 28 C-3097 STOP BALL 1-REQD
 - 29 C-3164 LEVER 1-REQD
 - 30 C-3008 GASKET 1-REQD
 - 31 C-104 GEAR 1-REQD
 - 32 P-12-A KEY 2-REQD
 - 33 C-2939 WASHER 1-REQD
 - 34 3/16" DIA CAP SCREW 1-REQD
 - 35 C-2817 SPACER 1-REQD
 - 36 A WASHFIT KEY 1-REQD
 - 37 C-312 DRUM 1-REQD
 - 38 C-3413 SHAFT 1-REQD
 - 39 C-3054 SPACER 1-REQD
 - 40 C-4372 BEARING 1-REQD
 - 41 C-4377 BUSHING 1-REQD
 - 42 C-3017 GASKET 1x2 REQ.
 - 43 C-3007 GASKET 1-REQD
 - 44 C-3001 GASKET 1-REQD
 - 45 C-2148 PLATE 1-REQD
 - 46 C-3004 GASKET 2-REQD
 - 47 C-3779 SHAFT 1-REQD
 - 48 P-11-D KEY 1-REQD
 - 49 C-181 BUSHING 1-REQD
 - 50 C-2849 HOUSING 1-REQD
 - 51 1 1/2" BALL 120 REQ.
 - 52 C-377 BUSHING 1-REQD
 - 53 C-309 T-OILING 1-REQD
 - 54 C-2849 HOUSING 1-REQD
 - 55 C-2807 HOUSING 1-REQD
 - 56 C-2809 HOUSING COVER 1-REQD
 - 57 C-2969 B SPACER 1-REQD
 - 58 A WASHFIT KEY 1-REQD
 - 59 C-3013 SHAFT 1-REQD
 - 60 C-3054 SPACER 1-REQD
 - 61 C-3004 GASKET 2-REQD
- SECTION THRU C-C ON DWG C-2885**
- 1 C-168 B PIN 4-REQD
 - 2 1/2" DIA. HEX NUT 2-REQD
 - 3 W-08 LOCK WASH 2-REQD
 - 4 23712 OIL SEAL 1-REQD
 - 5 C-117 GEAR 2-REQD
 - 6 1/2" DIA. HEX NUT 2-REQD
 - 7 C-168 B PIN 4-REQD
 - 8 C-122 CLUTCH 1-REQD
 - 9 C-164 SHIFTER YOKER 2-REQD
 - 10 C-274 SHAFT 1-REQD
 - 11 208-S BEARING 2-REQD
 - 12 N-08 LOCK NUT 2-REQD
 - 13 W-08 LOCK WASH 2-REQD
 - 14 23712 OIL SEAL 1-REQD
 - 15 C-3002 GASKET 2-REQD
 - 16 C-4214 SPROCKET 1-REQD
 - 17 1/2" CAP SCREW 2-REQD
 - 18 C-3088 WASHER 2-REQD
 - 19 C-2826 PLATE 2-REQD
 - 20 C-2824 CAP 2-REQD
 - 21 C-3002 GASKET 2-REQD
 - 22 C-3009 GASKET 1-REQD
 - 23 C-4219 SPROCKET 1-REQD
 - 24 P-11A KEY 1-REQD
 - 25 C-2823 HOUSING 2-REQD
 - 26 C-112 GEAR 2-REQD
 - 27 C-3099 LEVER 1-REQD
 - 28 C-3097 STOP BALL 1-REQD
 - 29 C-3164 LEVER 1-REQD
 - 30 C-3008 GASKET 1-REQD
 - 31 C-104 GEAR 1-REQD
 - 32 P-12-A KEY 2-REQD
 - 33 C-2939 WASHER 1-REQD
 - 34 3/16" DIA CAP SCREW 1-REQD
 - 35 C-2817 SPACER 1-REQD
 - 36 A WASHFIT KEY 1-REQD
 - 37 C-312 DRUM 1-REQD
 - 38 C-3413 SHAFT 1-REQD
 - 39 C-3054 SPACER 1-REQD
 - 40 C-4372 BEARING 1-REQD
 - 41 C-4377 BUSHING 1-REQD
 - 42 C-3017 GASKET 1x2 REQ.
 - 43 C-3007 GASKET 1-REQD
 - 44 C-3001 GASKET 1-REQD
 - 45 C-2148 PLATE 1-REQD
 - 46 C-3004 GASKET 2-REQD
 - 47 C-3779 SHAFT 1-REQD
 - 48 P-11-D KEY 1-REQD
 - 49 C-181 BUSHING 1-REQD
 - 50 C-2849 HOUSING 1-REQD
 - 51 1 1/2" BALL 120 REQ.
 - 52 C-377 BUSHING 1-REQD
 - 53 C-309 T-OILING 1-REQD
 - 54 C-2849 HOUSING 1-REQD
 - 55 C-2807 HOUSING 1-REQD
 - 56 C-2809 HOUSING COVER 1-REQD
 - 57 C-2969 B SPACER 1-REQD
 - 58 A WASHFIT KEY 1-REQD
 - 59 C-3013 SHAFT 1-REQD
 - 60 C-3054 SPACER 1-REQD
 - 61 C-3004 GASKET 2-REQD

THE HUGHES-KEARN COMPANY
 MANUFACTURED
 SECTIONAL LINK-GEAR CRANE
 M/CN. FRAME ON T.D.-18.75-45.75-18.75
 1/2" DIA. 3-3-4
 PART NO. C-2875-H

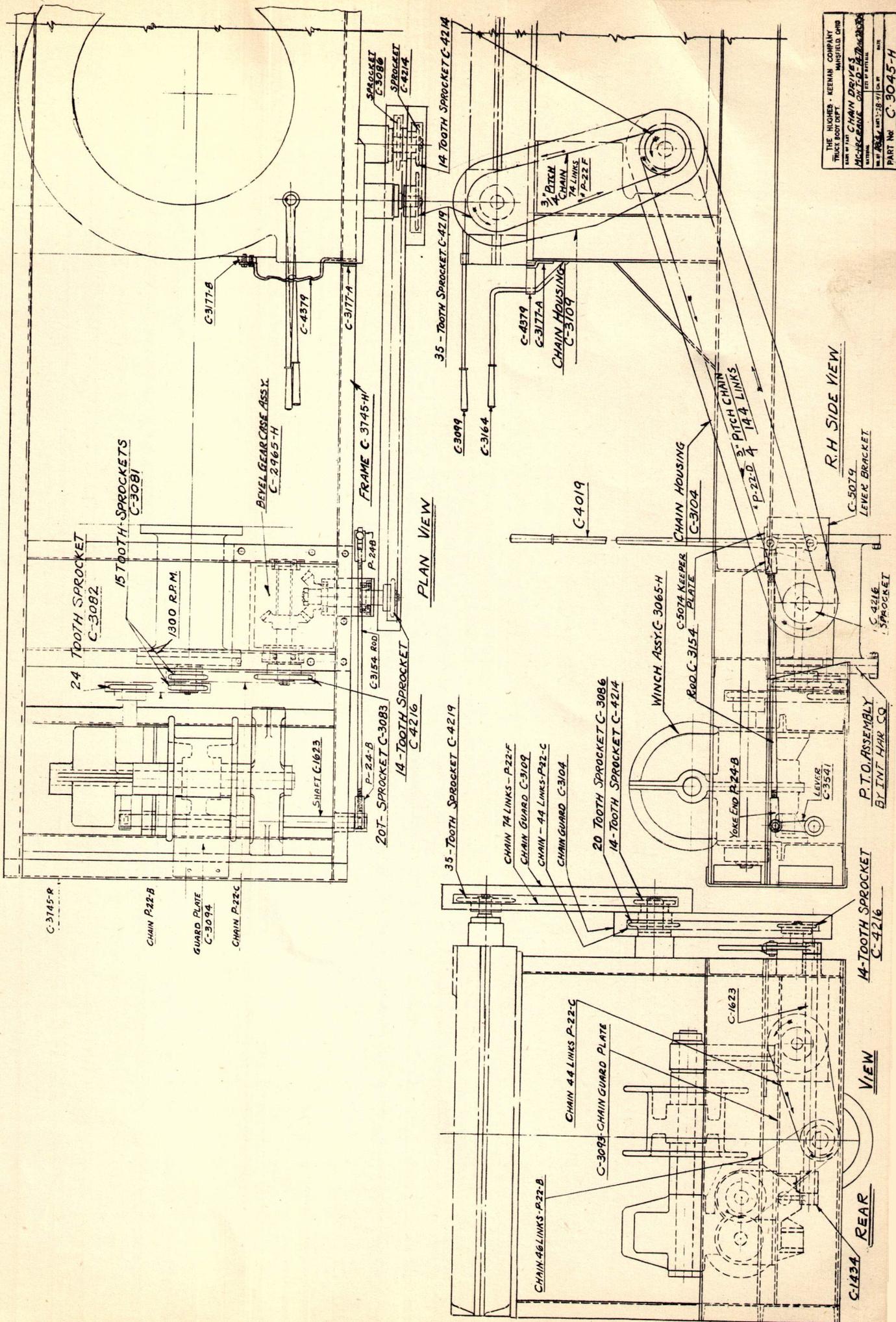
- | | | |
|----|--------------------|-----------|
| 1 | C-2827 CAP | 1-REQD. |
| 2 | 3/4" B-SHAFT NUT | 1-REQD. |
| 3 | 3/4" WASHER | 1-REQD. |
| 4 | 208-B BEARING | 2-REQD. |
| 5 | C-2499 BEARING | 2-REQD. |
| 6 | C-187 BUSHING | 4-REQD. |
| 7 | C-112 GEAR | 2-REQD. |
| 8 | C-134-B SPACER | 4-REQD. |
| 9 | C-122 CLUTCH | 2-REQD. |
| 10 | C-164 SHIFTER FORK | 1-REQD. |
| 11 | C-169 SHIFTER | 1-REQD. |
| 12 | C-2814-B SPACER | 3-REQD. |
| 13 | C-2819 BUSHING | 2-REQD. |
| 14 | C-2829 BEARING | 2-REQD. |
| 15 | P-46-A BEARING | 1-REQD. |
| 16 | C-107-A WORM | 1-REQD. |
| 17 | C-3069-B SPACER | 1-REQD. |
| 18 | C-3006 GASKET | 1-REQD. |
| 19 | 1/8" LOCKW/2-REQD. | |
| 20 | C-2729 CAP | 1-REQD. |
| 21 | 18711 OIL SEAL | 1-REQD. |
| 22 | C-62 BRAKE DRUM | 1-REQD. |
| 23 | C-65 BRAKE | 1-REQD. |
| 24 | 3/4" 16-3A.E. NUT | 1-REQD. |
| 25 | A WASHER/KEY | 1-REQD. |
| 26 | C-2972 SHAFT | 1-REQD. |
| 27 | P-11-B KEY | 1-REQD. |
| 28 | C-3003 GASKET | 1-REQD. |
| 29 | C-104 WORM GEAR | 1-REQD. |
| 30 | C-2897 HOUSING | 1-REQD. |
| 31 | P-12-A KEY | 2-REQD. |
| 32 | C-2977 SHFT | 1-REQD. |
| 33 | C-2818 BUSHING | 1-REQD. |
| 34 | C-2824 BEARING | 3-REQD. |
| 35 | C-2828 SPRING | 2-REQD. |
| 36 | C-102-A WORM | 1-REQD. |
| 38 | C-157 SPACER | 1-REQD. |
| 39 | C-189 BUSHING | 1-REQD. |
| 40 | C-4518 BEARING | 1-REQD. |
| 41 | C-3017 GASKET | 1/2-REQD. |
| 42 | C-2938 PLATE | 1-REQD. |
| 43 | C-3018 GASKET | 1-REQD. |
| 44 | C-2849 HOUSING | 1-REQD. |
| 45 | C-2859 HOUSING | 1-REQD. |
| 46 | C-3177 BRACKET | 1-REQD. |
| 47 | C-3099 LEVER | 1-REQD. |
| 48 | C-3178 BRACKET | 1-REQD. |
| 49 | C-3097 BELL CRANK | 1-REQD. |
| 50 | P-11-C KEY | 1-REQD. |
| 51 | C-3144 LEVER | 1-REQD. |
| 52 | P-10-A KEY | 1-REQD. |
| 53 | P-10-B KEY | 1-REQD. |
| 54 | C-2814-A SPACER | 3-REQD. |
| 55 | C-2768 WASHER | 2-REQD. |
| 56 | C-4557 SPACER | 1-REQD. |



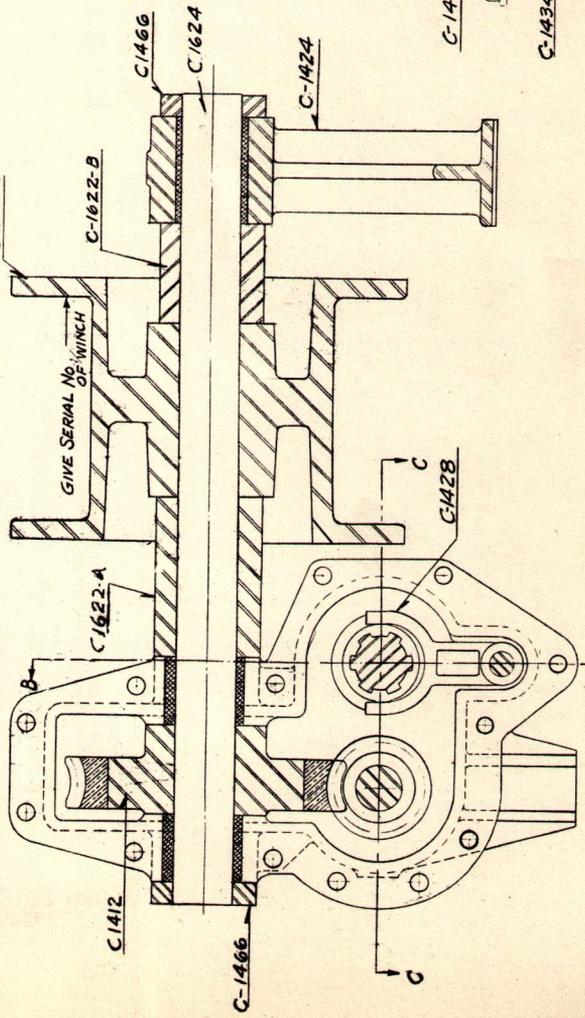
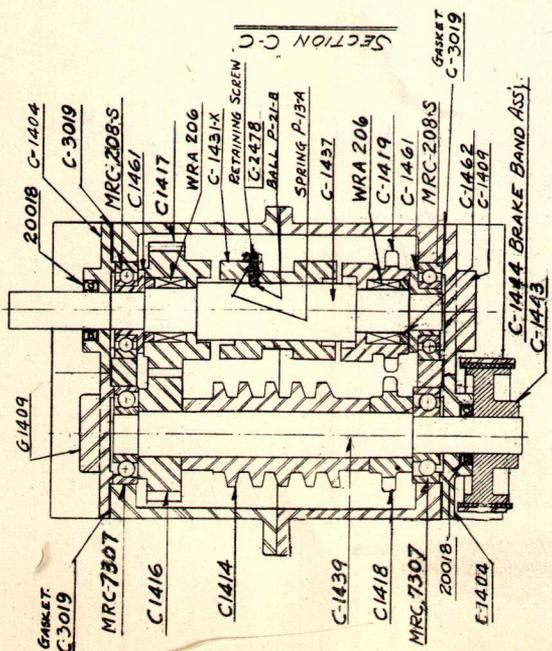
- 1 C-2894 HOUSING 1-REQD.
- 2 C-2977 SHAFT 1-REQD.
- 3 C-2818 BUSHING 1-REQD.
- 4 C-2829 BEARING 1-REQD.
- 5 C-2814-B SPACER 2-REQD.
- 6 C-187 BUSHING 2-REQD.
- 7 C-112 GEAR 2-REQD.
- 8 C-122 CLUTCH 1-REQD.
- 9 C-164 SHIFTER YOKE 1-REQD.
- 10 C-169 SHIFTER ARM 1-REQD.
- 11 C-134-B SPACER 2-REQD.
- 12 P-11-C KEY 1-REQD.
- 13 C-2814-A SPACER 2-REQD.
- 14 3/8 ALLEN SET SCREW 1-REQD.
- 15 C-3049-B SPACER 1-REQD.
- 16 C-2828 SPRING 2-REQD.
- 17 C-102-A WORM 1-REQD.
- 18
- 19 C-157 SPACER 1-REQD.
- 20 C-189 BUSHING 1-REQD.
- 21 C-4598 BEARING 1-REQD.
- 22 C-4597 RING GEAR 1-REQD.
- 23 P-12-B KEY 1-REQD.
- 24 C-3049 SHAFT 1-REQD.
- 25 1/2" STEEL BALL 10-REQD.
- 26 C-2819 BUSHING 1-REQD.
- 27 C-4559 SPACER 1-REQD.
- 28 C-2968 WASHER 2-REQD.



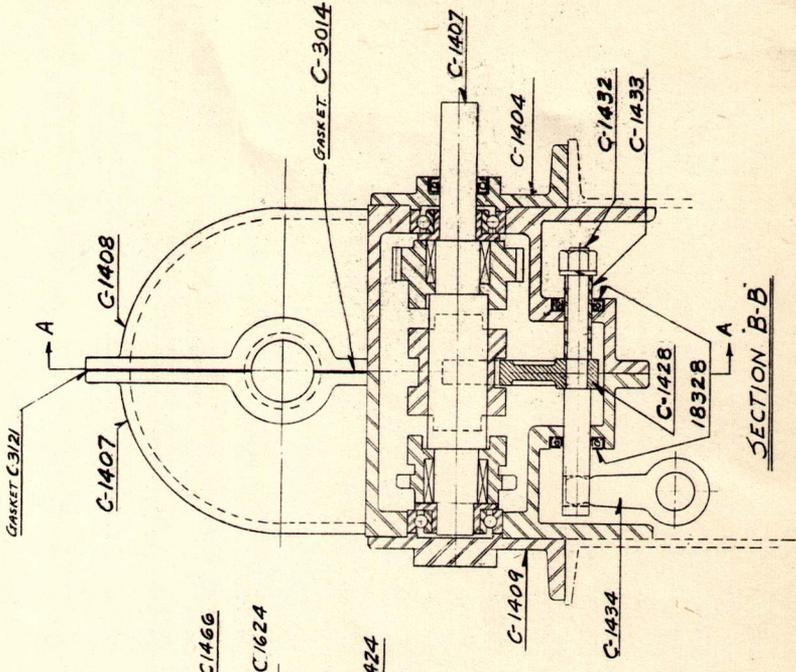
SECTION THRU A-A ON DWG. C-2885



THE HIGHER - KEENAN COMPANY
 TRUCK BODY DEPT. MANFIELD, OHIO
 MADE BY THE CHAIN DRIVERS
 MACHINERY DIVISION
 1000 W. 12TH ST. PITTSBURGH, PA.
 PART NO. C-3045-H

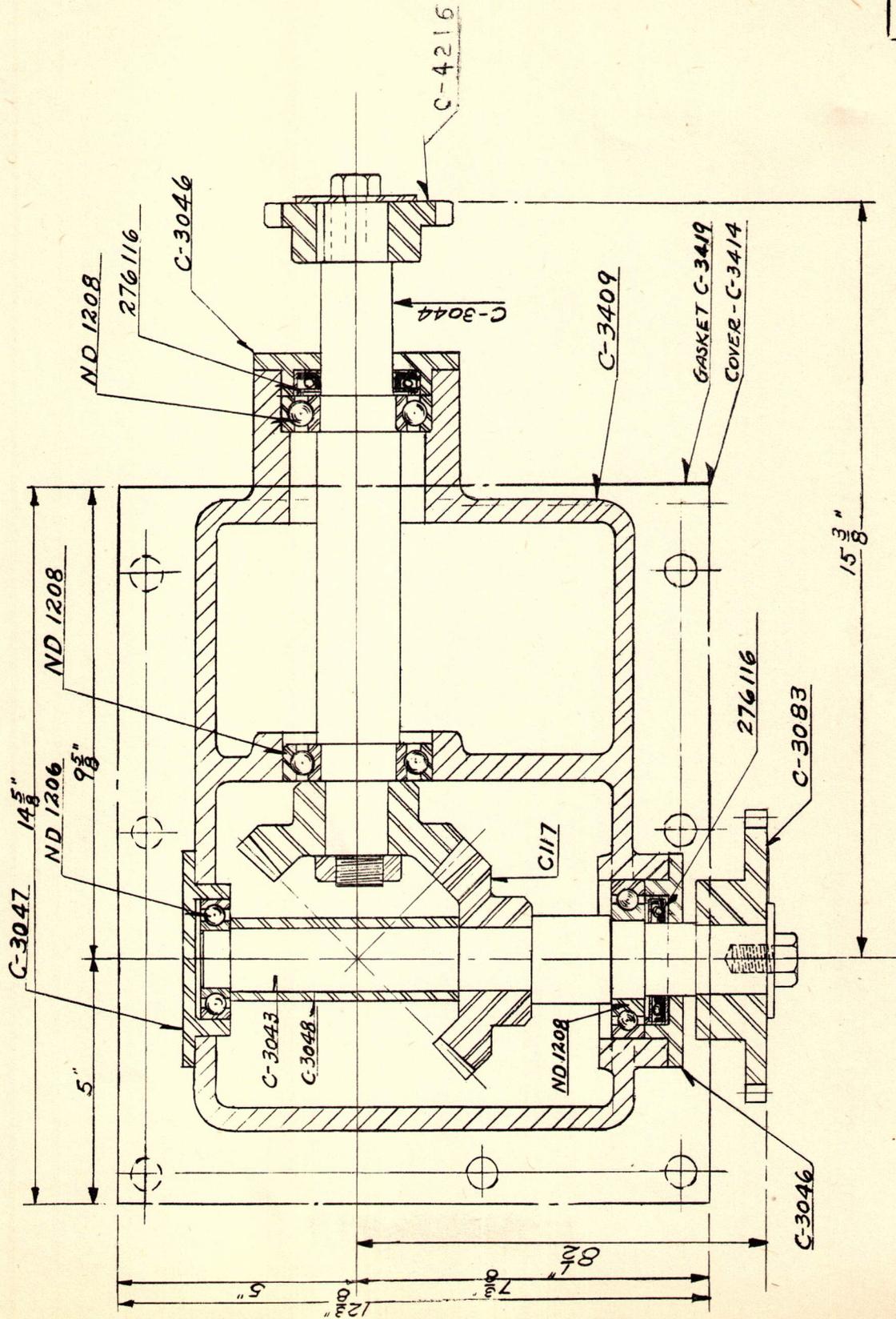


THE HUGHES-KEENAN CO.
MANSFIELD O.
STANDARD WINCH

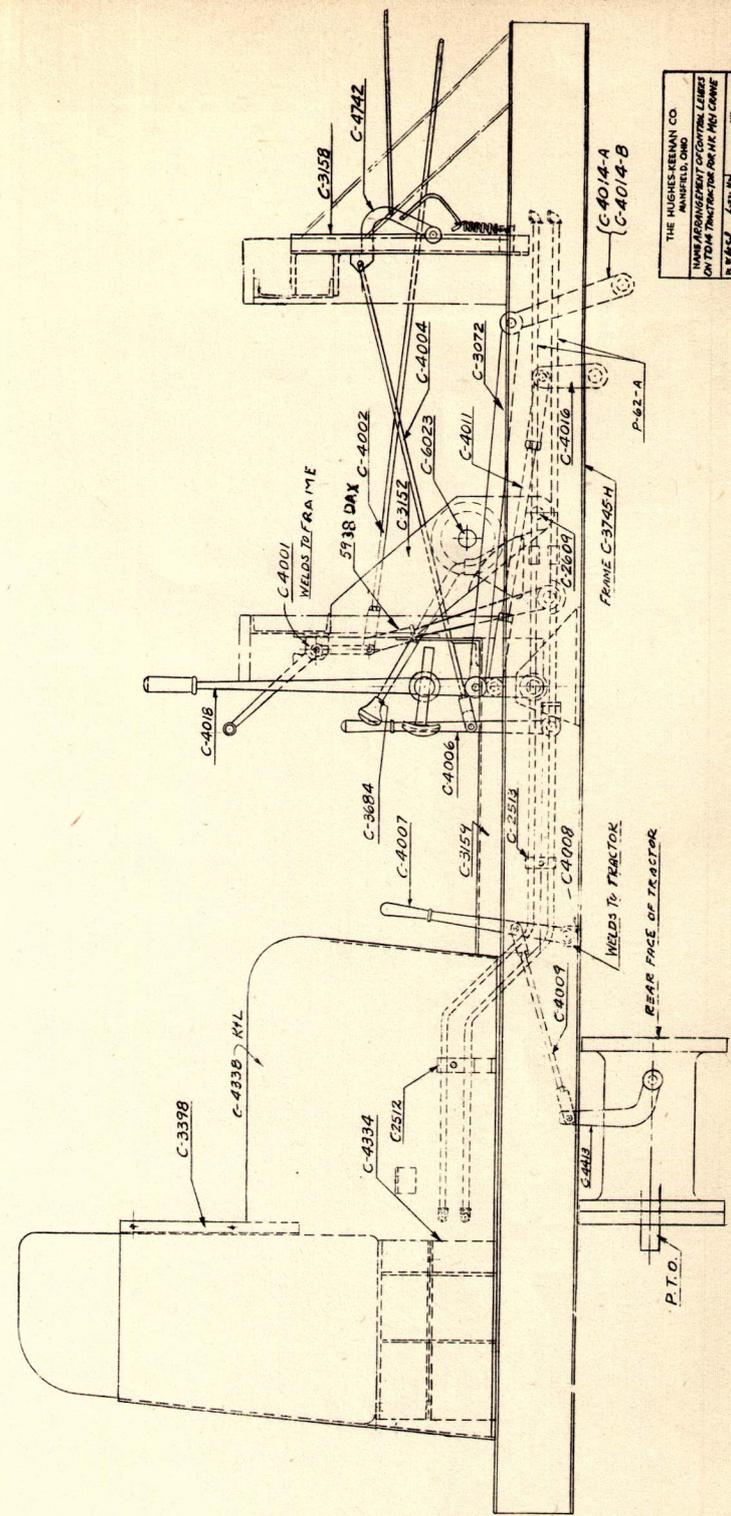
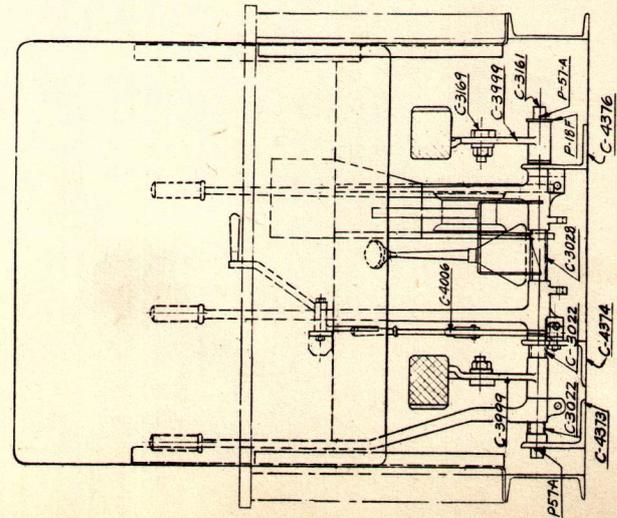
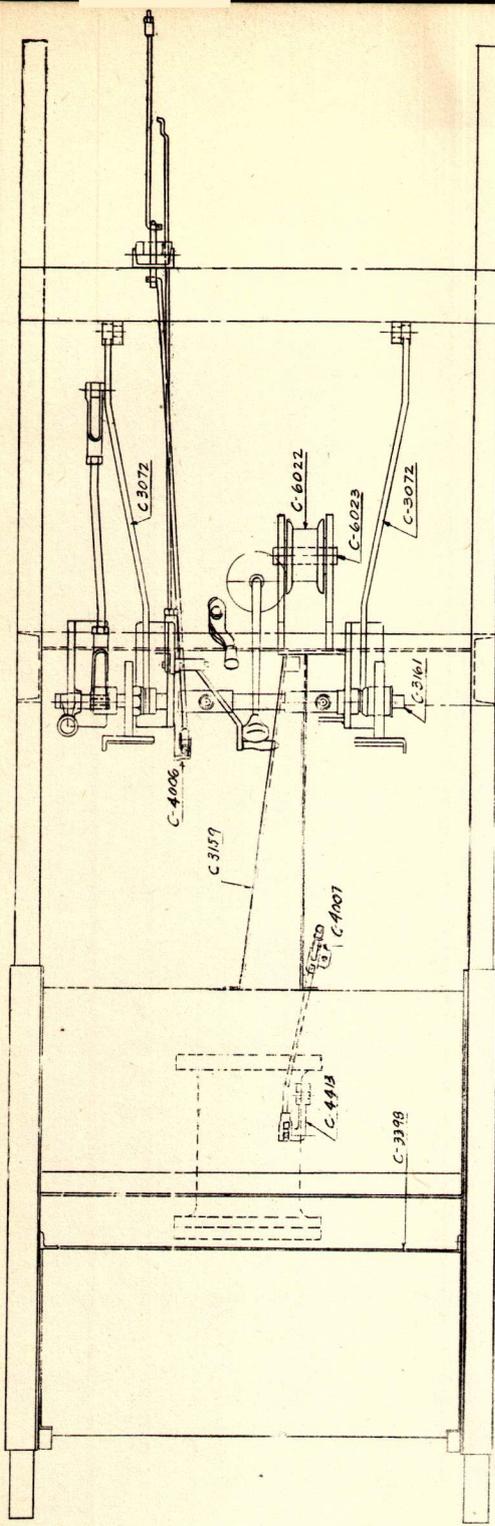


STANDARD WINCH FOR
BOOM TOPPING

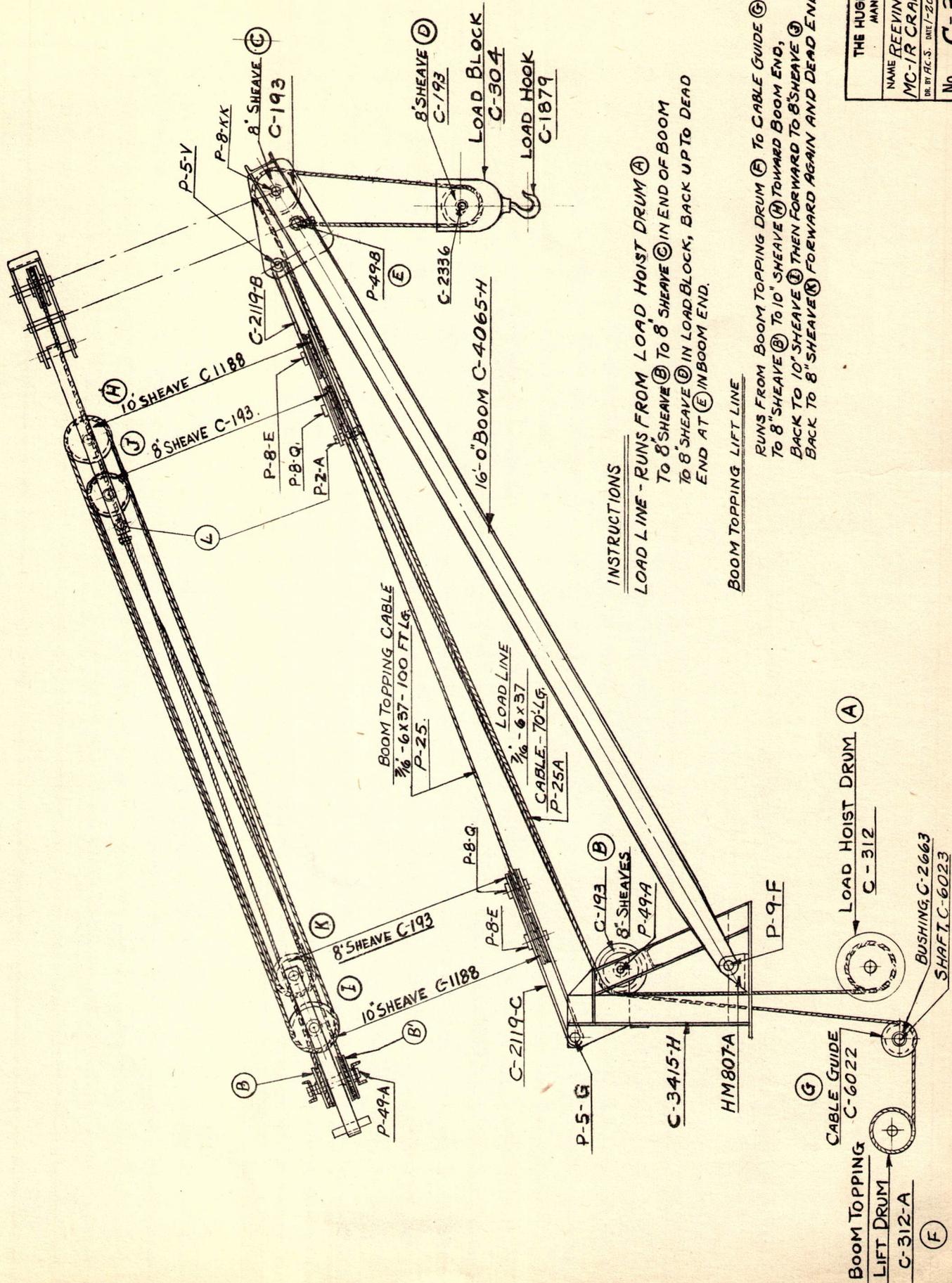
THE HUGHES-KEENAN COMPANY
TRUCK BODY DEPT
MANSFIELD OHIO
ASSEMBLY OF ABOVE
KEENAN STANDARD WINCH
PART No. C-3065-A



THE HUGHES - KEEMAN COMPANY
 TRUCK BODY DEPT. MANSFIELD, OHIO
 PART OF PART ASSEMBLY BEVEL GEAR
 MATERIAL CAST IRON CASE MCI-TD-1A
 SIZE OF MATERIAL
 DR. BY
 DATE
 PART No. C 2965-H



THE HUGHES KEEMAN CO
 MANFIELD, OHIO
 DRAWING DEPARTMENT OF CONTROL LINES
 FOR TRACTOR FRAME P.T.O. HOI 6000
 1-2-52 6-23-74
 No. C-705-H



INSTRUCTIONS

LOAD LINE - RUNS FROM LOAD HOIST DRUM (A) TO 8' SHEAVE (B) TO 8' SHEAVE (C) IN END OF BOOM TO 8' SHEAVE (D) IN LOAD BLOCK, BACK UP TO DEAD END AT (E) IN BOOM END.

BOOM TOPPING LIFT LINE

RUNS FROM BOOM TOPPING DRUM (F) TO CABLE GUIDE (G) TO 8' SHEAVE (B) TO 10' SHEAVE (H) TOWARD BOOM END, BACK TO 10' SHEAVE (I) THEN FORWARD TO 8' SHEAVE (J) BACK TO 8' SHEAVE (K) FORWARD AGAIN AND DEAD END AT (L).

