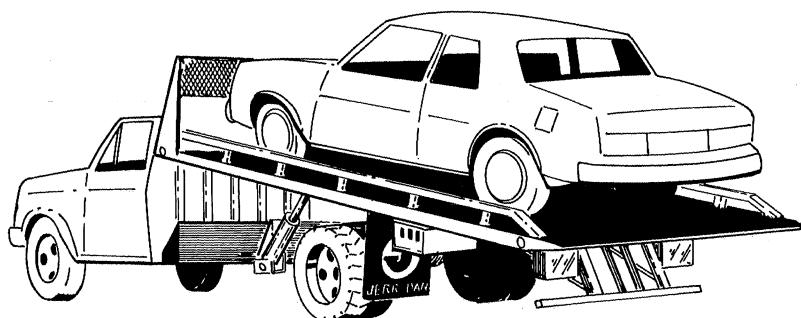




10 TON WRANGLER II

OPERATION, MAINTENANCE, AND PARTS MANUAL



JERR-DAN
Subsidiary of Durakon Industries, Inc. **CORP.**

1080 Hykes Road
Greencastle, PA 17225

Phone (717) 597-7111



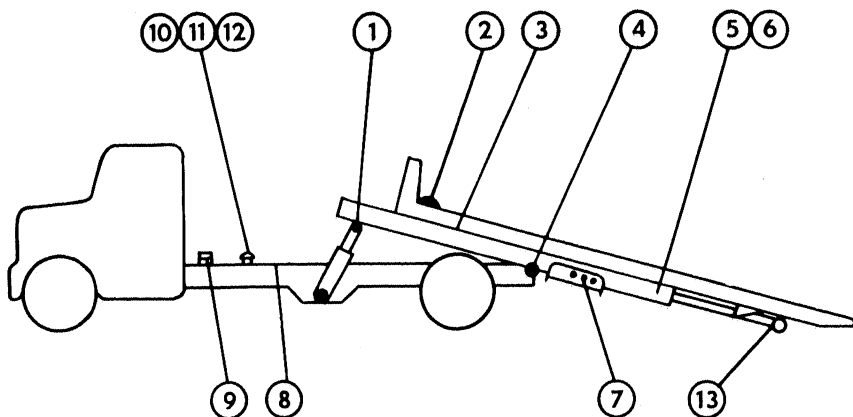
FOREWORD

This manual is intended to serve as a guide to the owner and operator in the safe operation and optimum performance of the Wrangler roll back.

Establishment of good operating habits and familiarity with the equipment and its capabilities combined with good judgement are essential.

Before attempting to operate the unit, carefully read all sections of this manual.

LUBRICATION CHART **JERR-DAN** WRANGLER



NOTES:

CHART COVERS **JERR-DAN** DECK SYSTEM ONLY.

* INDICATES 5W20 DUAL RANGE HYD. OIL

AUTO TRANS FLUID MAY BE SUBSTITUTED IF NECESSARY.

** LITHIUM BASE GREASE (NO GRAPHITE BASE)

INTERVAL (HOURS)	REF NO.	IDENTIFICATION	SERVICE	LUBRICANT	NO. OF POINTS
100 OR MONTHLY	1	TILT CYL	LUBE	MPG	4
	2	WINCH	LUBE	MPG	3
	3	FRONT SLIDE	COAT	MPG	4 SURFACES
	4	SUBFRAME PIVOT	LUBE	MPG	2
	5	REAR SLIDE	COAT	MPG	4 SURFACES
	7	VALVE SPOOL	CLEAN & OIL	ENGINE OIL	3
	8	WOOD STRIPS	COAT	**	2
	9	GUIDE	COAT	MPG	2
	10	HYD RESERVOIR	CHECK	*	
	13	TOWBAR PIVOT	LUBE	MPG	1
250 OR SEMI-ANNUALLY	2	WINCH BOX	CHECK	GL5 #140	1
	6	DECK STRINGER	CLEAN & COAT	**	2
	11	HYD BREATHER	CLEAN & OIL	ENGINE OIL	1
	12	HYD FILTER	REPLACE		1
1000 OPERATING HOURS	2	WINCH BOX	DRAIN & FILL	GL5 #140	1
	10	HYD RESERVOIR	DRAIN & FILL	*	1

Rev. 1

TROUBLESHOOTING

PROBLEMS ENCOUNTERED WHILE UNIT IS IN TRANSIT

PROBLEM	CAUSE	SOLUTION
Looseness and rattling of deck	a. Loose Hold Down Blocks	a. Snug blocks against flange of "I" beam and tighten.
	b. Rollback Cylinder Support not adjusted properly	b. Snug rubber belting against cylinder barrel and tighten.

WINCH FUNCTIONING IMPROPERLY

Winch screeches during operation	a. Insufficient lubrication	a. Lubricate per lube chart
Winch will not pull load on deck	a. Free spooling device disengaged	a. Engage
	b. Insufficient Relief Valve pressure	b. Reset to correct setting using gauge
	c. Sheared keys or broken chain at coupling	c. Inspect and replace
	d. Hydraulic pump worn	d. Inspect and replace
Cable build-up on one side of spool or other	a. Off centered load	a. Recenter load if possible

VALVE BANK FUNCTIONING IMPROPERLY

Valve bypasses oil or squeals during all operations	a. Insufficient relief valve setting	a. Reset to correct setting using gauge
	b. Broken relief spring	b. Inspect and replace
Valve handles stick, tight or frozen	a. Insufficient lubrication	a. Lubricate per lube chart
	b. Broken centering spring or clogged with dirt at bottom of spool	b. Inspect, clean or replace
Valve leaks at top or bottom of spools	a. Defective seals	a. Replace

CYLINDERS FUNCTIONING IMPROPERLY

Cylinders leak oil	a. Defective seals or rod	a. Inspect and replace
Erratic operation of cylinders	a. Air in hydraulic system	a. Cycle hydraulic system 10-15 times to remove air
	b. Defective pump (Pulsating)	b. Replace if necessary

HYDRAULIC SYSTEM FUNCTIONING IMPROPERLY

Slow Operation	a. Low engine RPM	a. Speed up engine
	b. Low oil level	b. Reservoir should be $\frac{3}{4}$ full with cylinders retracted
	c. Blocked, restricted or collapsed hoses	c. Inspect, remove blockage or reposition hoses affected
	d. Dirty hydraulic oil	d. Drain, flush and refill with clean oil
	e. Hydraulic pump worn	e. Rebuild or replace
	f. Relief valve in valve bank bypassing	f. 1) Reset to correct pressure using gauge 2) Check if relief spring is broken. Replace if necessary

Rev. _____

Date _____

TROUBLESHOOTING

P.T.O. FUNCTIONING IMPROPERLY

PROBLEM	CAUSE	SOLUTION
Cable tight or frozen	a. Cable kinked or bent b. Cable and P.T.O. connection not adjusted properly c. Mounting bracket nuts are over tightened at P.T.O. knob	a. Straighten or replace b. Inspect and adjust c. Loosen if necessary
Rattling noise in P.T.O.	a. P.T.O. backlash too loose	a. Shims must be removed (Consult P.T.O. manual)
Howling noise in P.T.O.	a. P.T.O. backlash too tight	a. Shims must be added (Consult P.T.O. manual)
Gear oil leak between P.T.O. and pump	a. Defective shaft seal	a. Remove and replace
P.T.O. will not engage or disengage	a. Cable and P.T.O. connection not adjusted properly b. Defective shifter cover plate	a. Inspect and adjust b. Inspect and replace

HYDRAULIC PUMP FUNCTIONING IMPROPERLY

Cavitation: pump usually noisy	a. Low oil supply b. Heavy oil c. Dirty oil filter d. Restriction in suction line	a. Fill to proper level b. Fill with proper oil c. Clean or replace d. Remove
Pump takes too long to respond or fails to respond	a. Low oil supply b. Insufficient relief valve pressure c. Pump worn or damaged	a. Fill to proper level b. Reset to correct setting using gauge c. Repair or replace
Oil Heating up	a. Foreign material lodged in relief valve b. Using too light oil c. Dirty oil d. Oil level too low e. Insufficient relief valve pressure f. Relief valve pressure too high g. Pump worn (slippage)	a. Inspect and remove b. Drain and refill with clean oil c. Drain, flush, and refill with clean oil d. Fill to proper level e. Set to correct setting using gauge f. Same as "e" g. Repair or replace
Oil foaming	a. Air leaking into suction line from tank to pump b. Wrong kind of oil c. Oil level too low	a. Tighten all connections b. Drain and refill with non-foaming type hydraulic oil c. Fill to proper level
Hydraulic oil leak between P.T.O. and pump	a. Defective shaft seal	a. Replace shaft seal
Pump leaks at front and rear covers	a. Defective seals	a. Replace seals

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PARTS

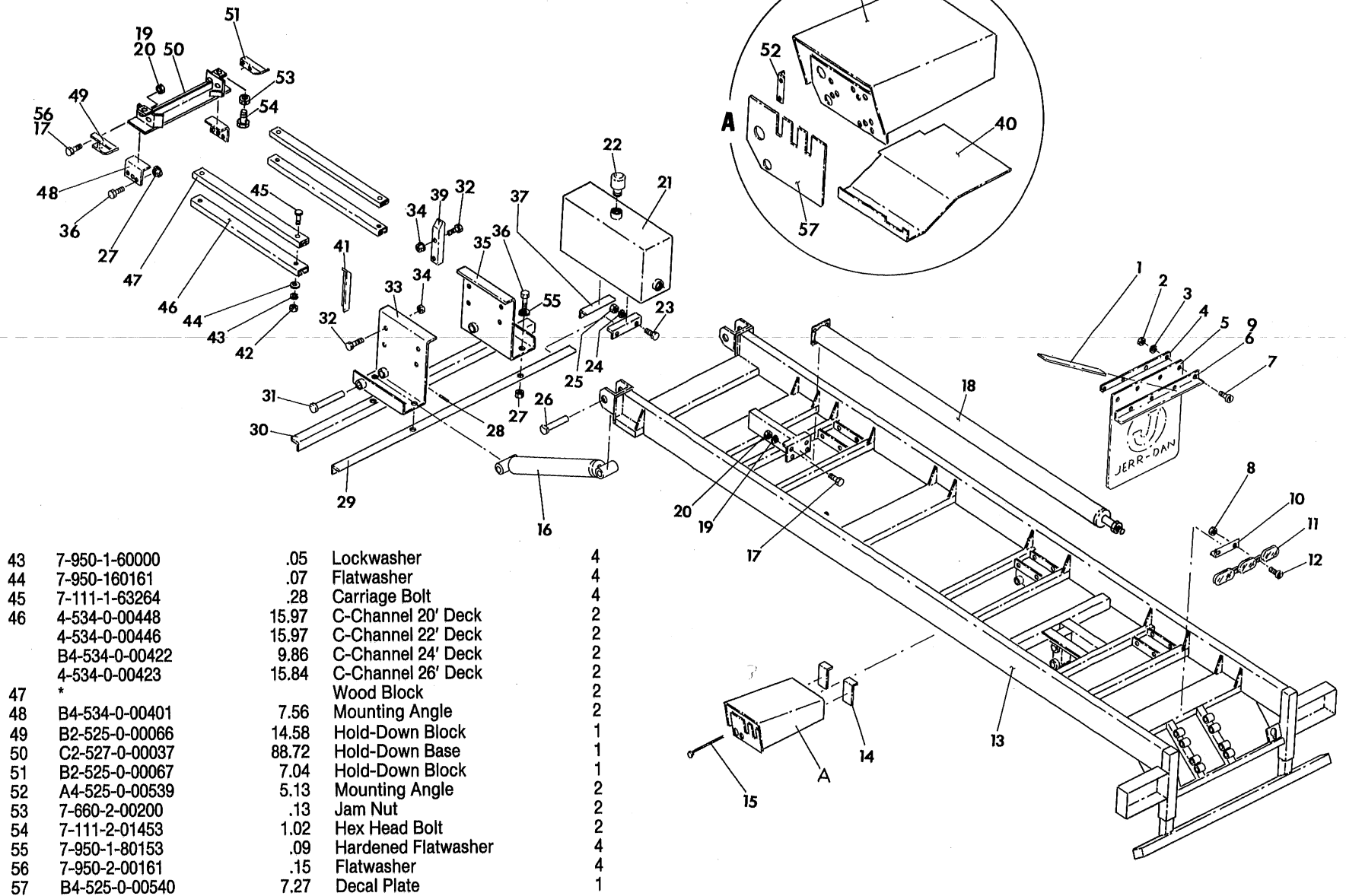
To order repair parts, call or write Jerr-Dan Corp.
Parts Dept., 1080 Hykes Road, Greencastle, PA 17225,
Phone (717) 597-7111.

Give Sales Order No., Serial No. and Model No. along
with part number and description of part.

PARTS LIST — BASIC UNIT

Ref. No.	Part No.	List Price	Description	Qty.
1	A4-525-0-00085	.88	Brace	2
2	7-660-1-50000	.05	Hex Nut	8
3	7-950-1-50000	.05	Lockwasher	8
4	B4-525-0-00708	2.01	Back-up Strip	2
5	7-638-000001 (new #)	8.26	Mud Flap	2
	C5-526-0-00588 (old #)			
6	B4-525-0-00710	4.00	R.H. Mud Flap Bracket	1
7	7-111-1-50813	.16	Truss Head Screw	8
8	7-660-1-00710	.05	Hex Nut	2
9	B4-525-000709	4.38	L.H. Mud Flap Angle	1
10	A4-533-1-00080	2.48	Light Bar Angle	1
A11	7-590-000007 (new #)	5.45	Bar Light	1
	5-533-0-00231 (old #)			
12	7-111-1-00610	.06	Stove Bolt	2
13	D2-534-0-00164	2082.79	Subframe 20'-22' Deck	1
	D2-534-0-00135	2192.34	Subframe 24'-26' Deck	1
14	B4-533-1-00075	1.83	Valve Trough Mount	2
A15	7-295-000002 (new #)	21.78	Throttle Control 20'-22'	
	5-526-0-00557 (old #)			
A15	5-526-0-00558	26.29	Throttle Control 24'-26'	1
16	C1-700-1-00005	338.91	Tilt Cylinder	2
17	7-111-2-01653	.54	Hex Head Bolt	8
	C1-700-1-00013	609.49	Rollback Cylinder 26' Deck	1
	C1-700-1-00012	638.38	Rollback Cylinder 24' Deck	1
18	C1-700-1-00011	613.08	Rollback Cylinder 20'-22' Deck	1
19	7-950-2-00000	.85	Lockwasher	8
20	7-660-2-00710	.23	Hex Nut	8
21	3-750-000002 (new #)	136.37	Oil Reservoir	1
	C2-534-0-00062 (old #)			
22	7-183-000002 (new #)	7.09	Breather	1
	7-258-0-00063 (old #)			
23	7-115-181450	.29	Hex Head Bolt	4
24	7-950-1-80000	.05	Lockwasher	4
25	7-660-1-80000	.13	Hex Nut	4
26	A2-534-0-00029	14.40	Upper Tilt Cylinder Pin	2
27	7-660-1-82317	.26	Hex Nut	10
28	7-690-0-34040	.56	Expansion Pin	2
29	B4-534-0-00042	43.75	Saddle Angle	1
30	B4-534-0-00121	43.75	Saddle Angle	1
31	3-691-000019 (new #)	9.85	Lower Tilt Cylinder Pin	2
	A4-534-0-00124 (old #)			
32	7-105-2-01650	.47	Hex Head Bolt	12
33	C2-534-0-00067	56.54	Saddle	1
34	7-660-201631	.41	Hex Lock Nut	12
35	C2-534-0-00066	56.54	Saddle	1
36	7-111-1-81450	.22	Hex Head Bolt	10
37	C4-534-0-00120	2.96	Mounting Angle	2
38	C2-534-0-00026	73.70	Valve Trough	1
39	B2-520-0-00009	23.89	Body Stay	1
40	C4-534-00337	9.46	Dust Cover	1
41	B2-520-0-00008	23.89	Body Stay	1
42	7-660-1-60000	.05	Hex Nut	4

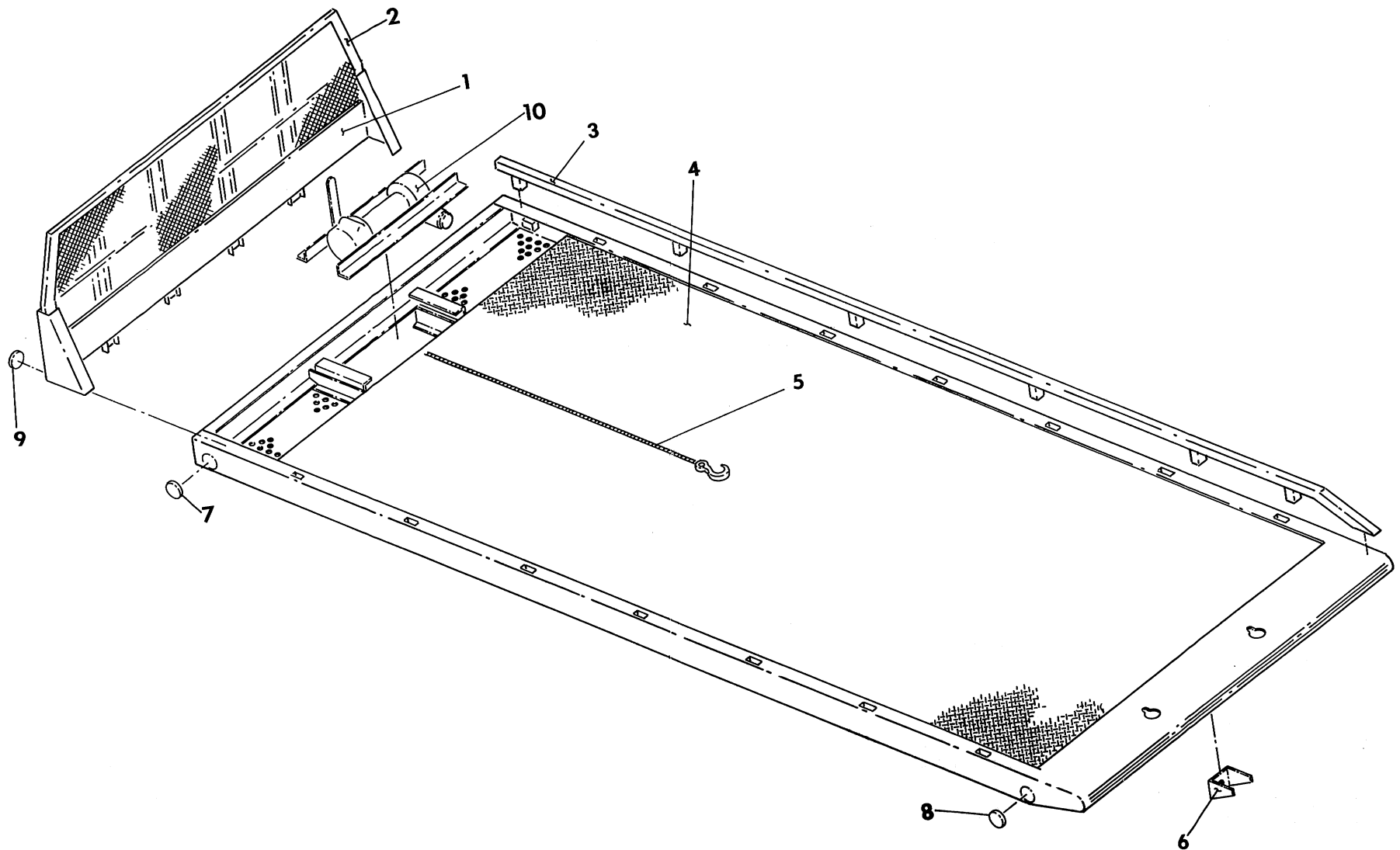
BASIC UNIT



43	7-950-1-60000	.05	Lockwasher	4
44	7-950-160161	.07	Flatwasher	4
45	7-111-1-63264	.28	Carriage Bolt	4
46	4-534-0-00448	15.97	C-Channel 20' Deck	2
	4-534-0-00446	15.97	C-Channel 22' Deck	2
	B4-534-0-00422	9.86	C-Channel 24' Deck	2
	4-534-0-00423	15.84	C-Channel 26' Deck	2
47	*		Wood Block	2
48	B4-534-0-00401	7.56	Mounting Angle	2
49	B2-525-0-00066	14.58	Hold-Down Block	1
50	C2-527-0-00037	88.72	Hold-Down Base	1
51	B2-525-0-00067	7.04	Hold-Down Block	1
52	A4-525-0-00539	5.13	Mounting Angle	2
53	7-660-2-00200	.13	Jam Nut	2
54	7-111-2-01453	1.02	Hex Head Bolt	2
55	7-950-1-80153	.09	Hardened Flatwasher	4
56	7-950-2-00161	.15	Flatwasher	4
57	B4-525-0-00540	7.27	Decal Plate	1

*Measure length of wood block before ordering.

DECK



PARTS LIST — DECK

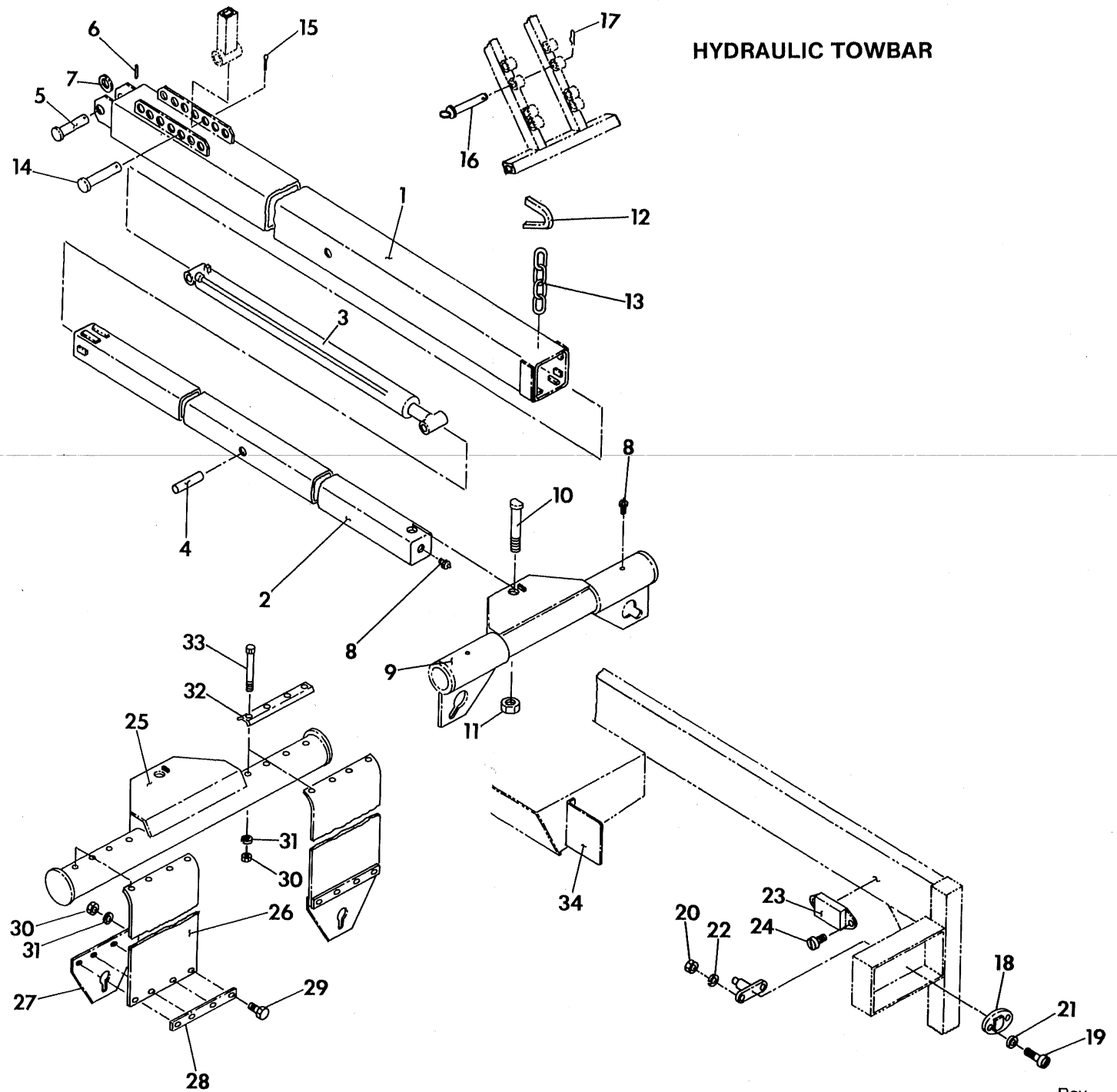
Ref. No.	Part No.	List Price	Description	Qty.
1	D2-100-2-00021	182.74	Half Cab Protector	1
2	D2-100-2-00023	208.12	Top Screen	1
3	D2-534-0-00076	218.45	Permanent Raised Rails 20' Deck	2
	D2-534-0-00077	218.45	Permanent Raised Rails 22' Deck	2
	D2-534-0-00078	218.45	Permanent Raised Rails 24' Deck	2
	D2-534-0-00079	218.45	Permanent Raised Rails 26' Deck	2
4			Deck	1
A 5	3-525-0-00218	39.80	Winch Cable Assembly	1
6	C4-525-0-00089	18.31	Rollback Bracket	1
A 7	7-590-000009 (new #)	2.26	Red Clearance Light	2
	3-100-0-00004 (old #)			
A 8	7-590-000010 (new #)	2.26	Amber Clearance Light	2
	3-100-0-00003 (old #)			
A 9	5-531-0-00023	.40	Amber Reflector	2
10			Winch Assembly	1

PARTS LIST — FINAL ASSEMBLY — HYDRAULIC TOWBAR

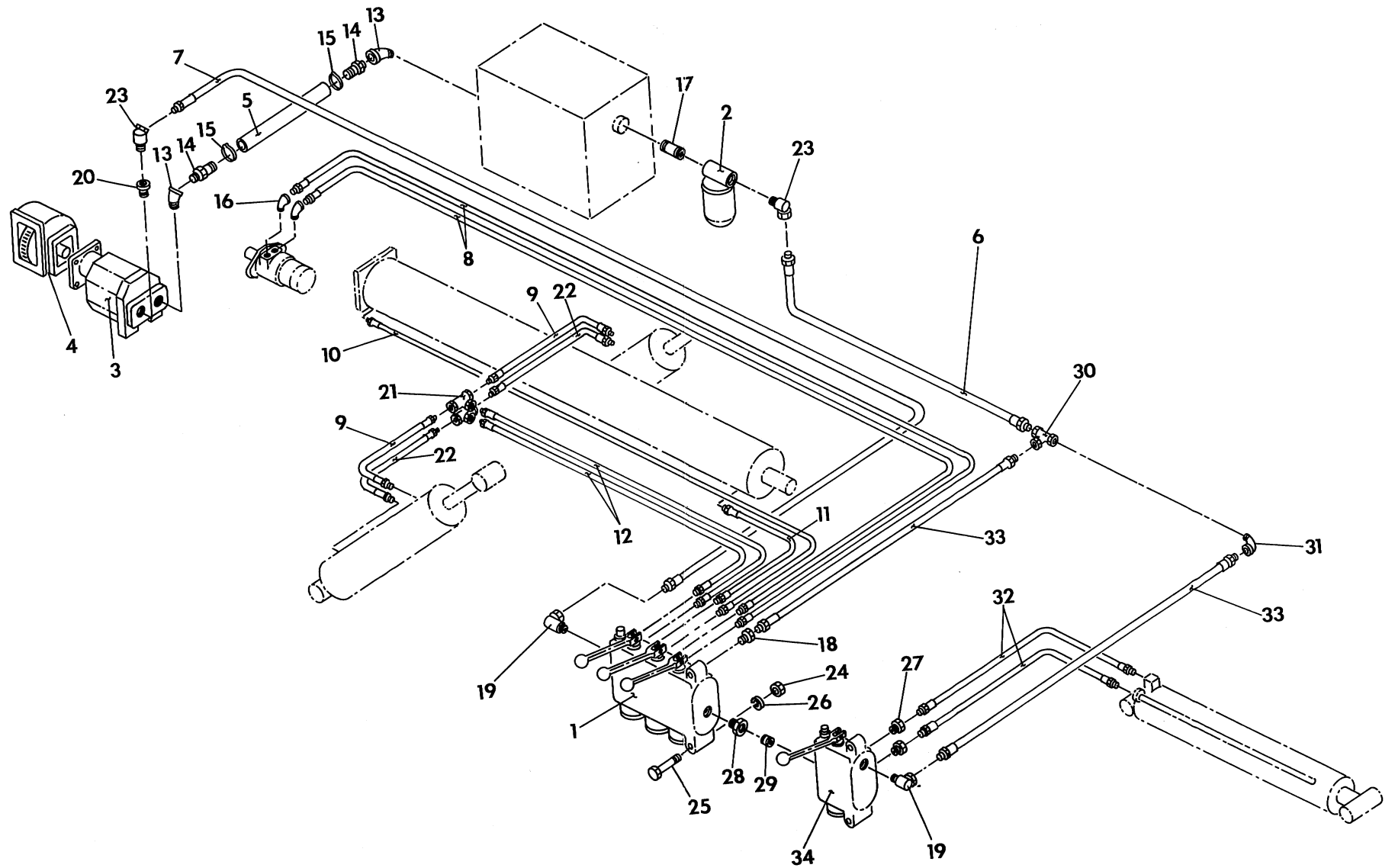
Ref. No.	Part No.	List Price	Description	Qty.
1	3-120-000007 (new #) C2-100-2-00001 (old #)	200.48	Outer Tube	1
2	C2-100-2-00002	125.42	Inner Tube	1
3	3-320-000006 (new #) C1-700-1-00001 (old #)	348.05	Towbar Cylinder	1
4	A4-100-2-00021		Cylinder Cross Pin	1
5	3-691-000022 (new #) A2-100-2-00034 (old #)	3.16	Cylinder Base Pin	1
6	7-690-1-43244	.21	Expansion Pin	1
7	4-209-000020 (new #) A4-533-0-00548 (old #)		Spacer	2
8	7-440-0-00000	.34	Grease Fitting	3
9	C1-100-2-00002	172.34	Keyslot Towhitch	1
10	A2-100-2-00005	15.92	Hitch Pin	1
11	7-660-2-61630	.96	Hex Locknut	1
12	A4-534-0-00300	2.26	Clip	1
13	5-530-0-00084	3.18/ft.	Safety Chain	1
14	3-691-000014 (new #) A2-533-1-00022 (old #)	8.80	Towbar Attaching Pin	1
15	7-690-1-03210	.05	Cotter Pin	1
16	3-691-000015 (new #) A2-533-1-00019 (old #)	12.67	Height Adjusting Pin	2
17	7-691-000001	.78	Hair Pin	2
18	7-291-000003 (new #) 7-364-0-00423 (old #)	12.14	4 Way Connector	1
19	7-111-1-40613	.05	Truss Head Screw	2
20	7-660-1-40000	.05	Hex Nut	2
21	7-950-140161	.05	Flatwasher	2
22	7-950-1-40000	.05	Lockwasher	2
23	7-175-000001 (new #) 5-533-0-00145 (old #)	7.01	Junction Box	1
24	7-790-1-41056	.11	Self-tapping Screw	2
25*	C2-100-2-00024	75.45	Strap Towhitch	1
26*	5-534-0-00005	60.56	Strap	2
27*	B4-100-3-00071	9.16	Keyslot	2
28*	A4-100-3-00072	5.28	Clamp Bar	2
29*	7-111-1-61250	.12	Hex Head Bolt	8
30*	7-660-1-60000	.05	Hex Nut	16
31*	7-950-1-60000	.05	Lockwasher	16
32*	A4-100-3-00073	5.28	Clamp Bar	2
33*	7-111-1-63253	.41	Hex Head Bolt	8
34	4-178-000023 (new #) B4-530-0-00065 (old #)		Valve Mounting Bracket	1

*Items 25 thru 33 are optional in lieu of item 9.

HYDRAULIC TOWBAR



HYDRAULIC COMPONENTS



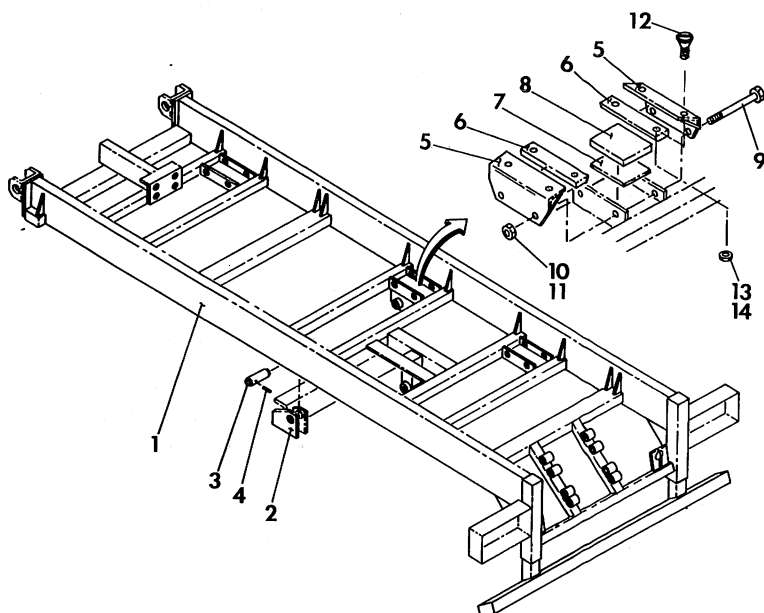
PARTS LIST — HYDRAULIC COMPONENTS

Ref. No.	Part No.	List Price	Description	Qty.
1		**	Valve	1
2	3-525-0-00216	20.21	Oil Filter	1
3	7-724-000002 (new #) 3-527-0-00068 (old #)	222.93	Pump	1
4	as required		P.T.O.	1
5	*		Suction Hose	1
6	*		Return Hose	1
7	*		Pressure Hose	1
8	*		Winch Hose	2
9	*		Tilt Cylinder Hose (rod end)	2
10	*		Rollback Cylinder Hose (barrel end)	1
11	*		Rollback Cylinder Hose (rod end)	1
12	*		Tilt Cylinder Hose (valve to tee)	2
13	7-444-1-01090	3.69	1.25 x 45° Street Elbow	2
14	7-443-000013	4.46	Hose Adapter	2
15	5-527-0-00067	.88	Hose Clamp	2
16	7-445-0-80804	2.83	90° Swivel Elbow	2
17	7-650-0-60160	.61	Pipe Nipple	1
18	7-445-1-21201	2.60	Swivel Union	1
19	7-445-1-21204	4.14	Swivel Elbow	2
20	7-444-0-80654	1.48	Reducer	1
21	7-445-0-80613	5.43	Tee	2
22	*		Tilt Cylinder Hose (barrel end)	2
23	7-445-1-21209	3.67	45° Swivel Elbow	2
24	7-660-1-60000	.05	Hex Nut	6
25	7-111-1-62050	.17	Hex Head Bolt	6
26	7-950-1-60000	.05	Lockwasher	6
27	7-444-0-40354	.47	Reducer	2
28	5-525-0-00533	12.00	Power Beyond Kit	1
29	7-650-0-60200	.41	Pipe Nipple	1
30	7-443-000014	1.09	Tee	1
31	7-444-0-60670	1.58	90° Street Elbow	1
32	*		Towbar Cylinder Hose	2
33	*		Return Hose	2
34		**	Valve	1

*When ordering replacement hoses measure length and which hose is required.

**Call factory for identification and price.

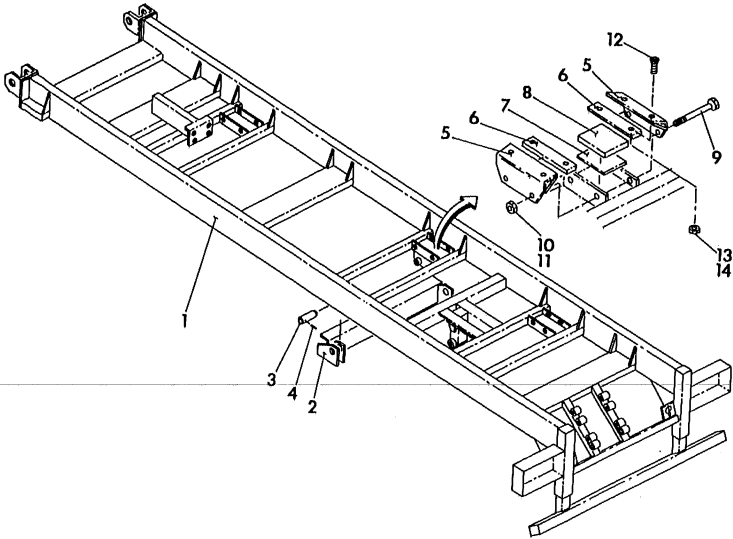
SUBFRAME COMPONENTS



PARTS LIST — 20'-22' SUBFRAME COMPONENTS

Ref. No.	Part No.	List Price	Description	Qty.
1	D2-534-0-00164	2081.79	Subframe	1
2	3-905-000001 (new #) C2-534-0-00158 (old #)	291.96	Trunnion	1
3	4-691-000020 (new #) A4-533-1-00090 (old #)	8.67	Hinge Pin	2
4	7-690-1-64040	.55	Expansion Pin	2
5	4-706-000111 (new #) B4-534-0-00169 (old #)	7.17	Nylatron Holder	12
6	4-679-000018 (new #) A4-535-0-00653 (old #)	4.41	Wear Pad	12
7	A4-534-0-00176	4.59	Nylatron Spacer	6
8	A4-534-0-00171	13.96	Nylatron Pad	6
9	7-115-1-82850	1.56	Hex Head Bolt	12
10	7-660-1-80000	.13	Hex Head Nut	12
11	7-950-1-80000	.05	Lockwasher	12
12	7-111-1-61007	.17	Flat head Machine Screw	24
13	7-660-1-60000	.05	Hex Nut	24
14	7-950-1-60000	.05	Lockwasher	24

SUBFRAME

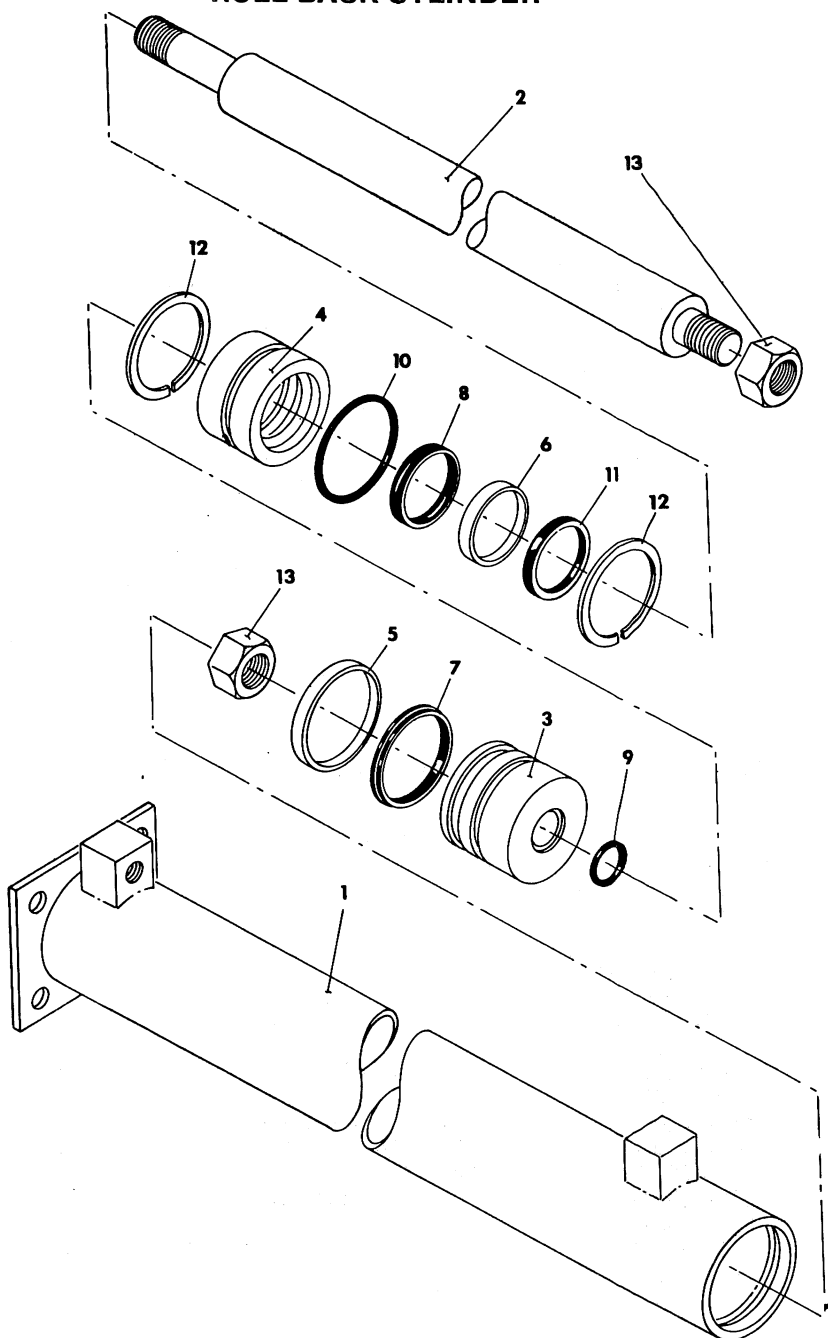


PARTS LIST — 24'-26' SUBFRAME COMPONENTS

Ref. No.	Part No.	List Price	Description	Qty.
1	D2-534-0-00135	2192.34	Subframe	1
2	3-905-000001 (new #) C2-534-0-00158 (old #)	291.96	Trunnion	1
3	4-691-000020 (new #) A4-533-1-00090 (old #)	8.67	Hinge Pin	2
4	7-690-1-64040	.55	Expansion Pin	2
5	4-706-000111 (new #) B4-534-0-00169 (old #)	7.17	Nylatron Holder	12
6	4-679-000018 (new #) A4-525-0-00653 (old #)	4.41	Wear Pad	12
7	A4-534-0-00176	4.59	Nylatron Spacer	6
8	A4-534-0-00171	13.96	Nylatron Pad	6
9	7-115-1-82850	1.56	Hex Head Bolt	12
10	7-660-1-80000	.13	Hex Head Nut	12
11	7-950-1-80000	.05	Lockwasher	12
12	7-111-1-61007	.17	Flat head Machine Screw	24
13	7-660-1-60000	.05	Hex Nut	24
14	7-950-1-60000	.05	Lockwasher	24

Rev. _____
Date _____

ROLL BACK CYLINDER



PARTS LIST — ROLLBACK CYLINDER

Ref. No.	Part No.	List Price	Description	Qty.
1	C2-700-2-00016	375.58	Barrel Weldment (711)	1
	C2-700-2-00017	367.84	Barrel Weldment (712)	
	C2-700-2-00018	358.92	Barrel Weldment (713)	
2	B4-700-2-00039	278.37	Rod (711)	1
	B4-700-2-00041	260.14	Rod (712)	
	B4-700-2-00043	261.14	Rod (713)	
3	B4-700-2-00020	19.23	Piston	1
4	B4-700-2-00021	17.43	Head	1
5	A5-700-0-00008*		Ring, Wear	1
6	A5-700-0-00009*		Ring, Wear	1
7	A5-700-0-00010*		Seal, 'T'	1
8	A5-700-0-00011*		Seal, Rod	1
9	7-755-2-22000*		Ring, 'O'	1
10	7-755-3-42000*		Ring, 'O'	1
11	A5-700-0-00012*		Seal, Rod Wiper	1
12	A5-700-0-00013*		Ring, Retaining	2
13	7-660-3-41630	6.15	Nut, Lock	2

*Available only in Service Parts Kit 7-577-250026 — \$27.62

NOTE: Cylinder Identification

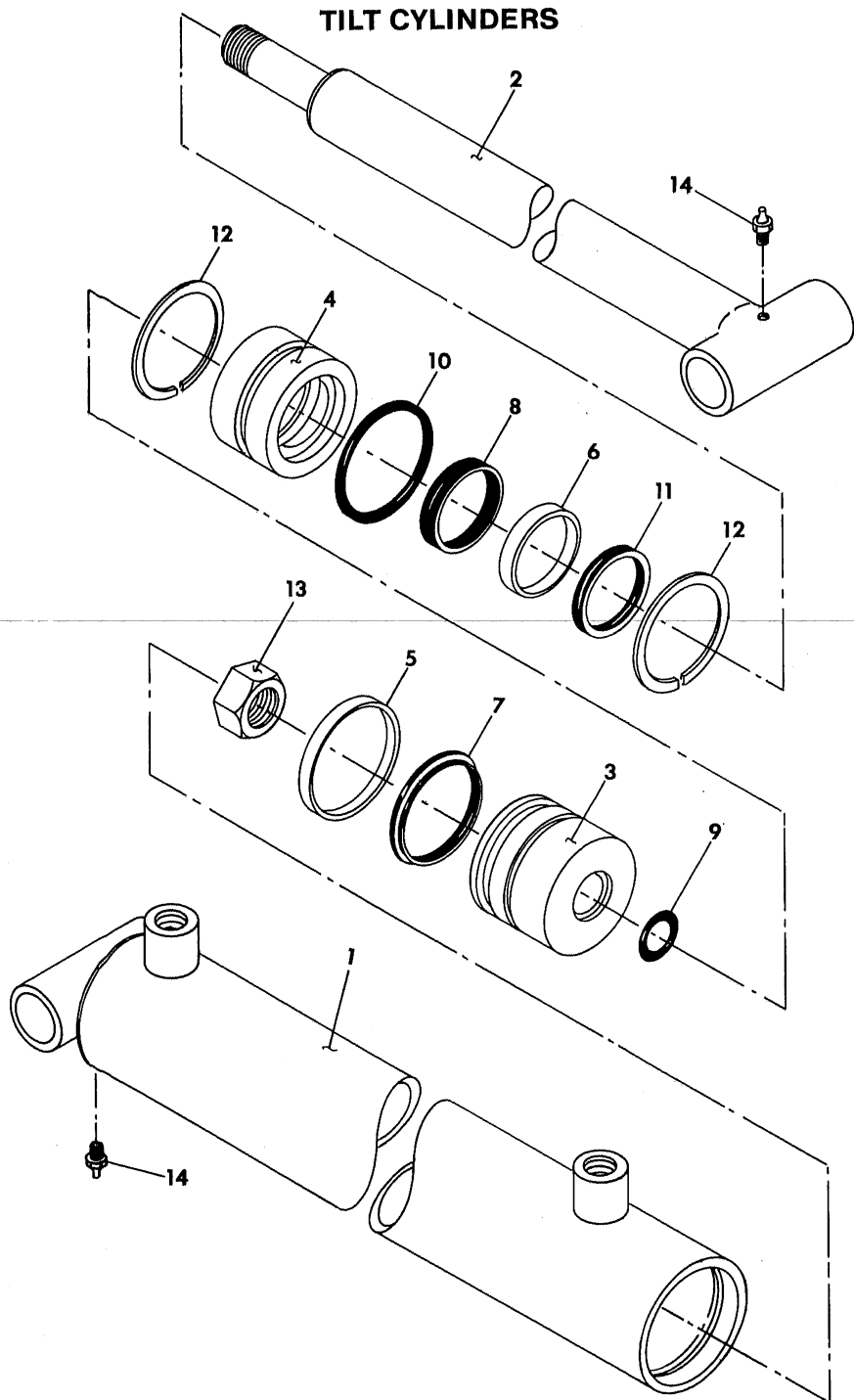
A 3 digit number is stamped on the port block (ie 711) and this number will identify which barrel weldment and rod is used.

PARTS LIST — TILT CYLINDER

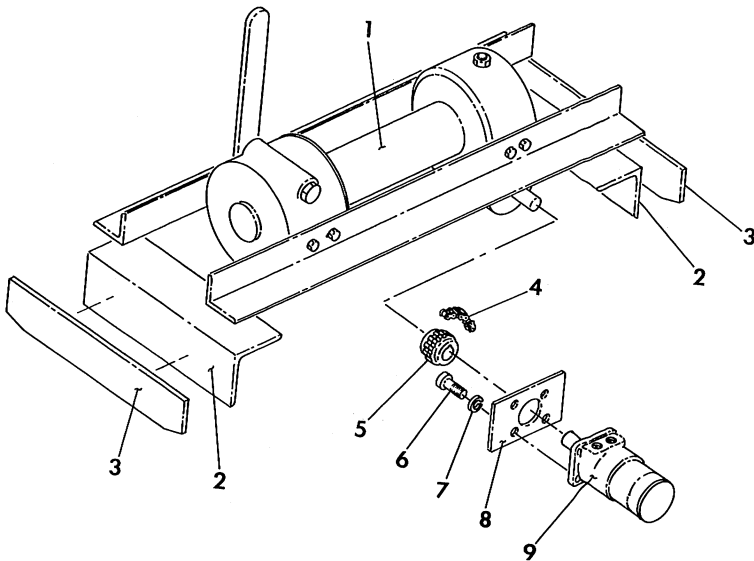
Ref. No.	Part No.	List Price	Description	Qty.
1	C2-700-2-00008	239.99	Barrel Weldment	1
2	B2-700-2-00010	105.59	Rod Weldment	1
3	B4-700-2-00020	19.23	Piston	1
4	B4-700-2-00021	17.43	Head	1
5	A5-700-0-00008*		Ring, Wear	1
6	A5-700-0-00009*		Ring, Wear	1
7	A5-700-0-00010*		Seal, T	1
8	A5-700-0-00011*		Seal, Rod	1
9	7-755-2-22000*		'O' Ring	1
10	7-755-3-42000*		'O' Ring	1
11	A5-700-0-00012*		Seal, Rod Wiper	1
12	A5-700-0-00013*		Ring, Retaining	2
13	7-660-3-41630	6.15	Nut, Lock	1
14	7-440-0-00200	.64	Fitting, Grease	2

*Available only in Service Parts Kit 7-577-250026 — \$27.62

TILT CYLINDERS

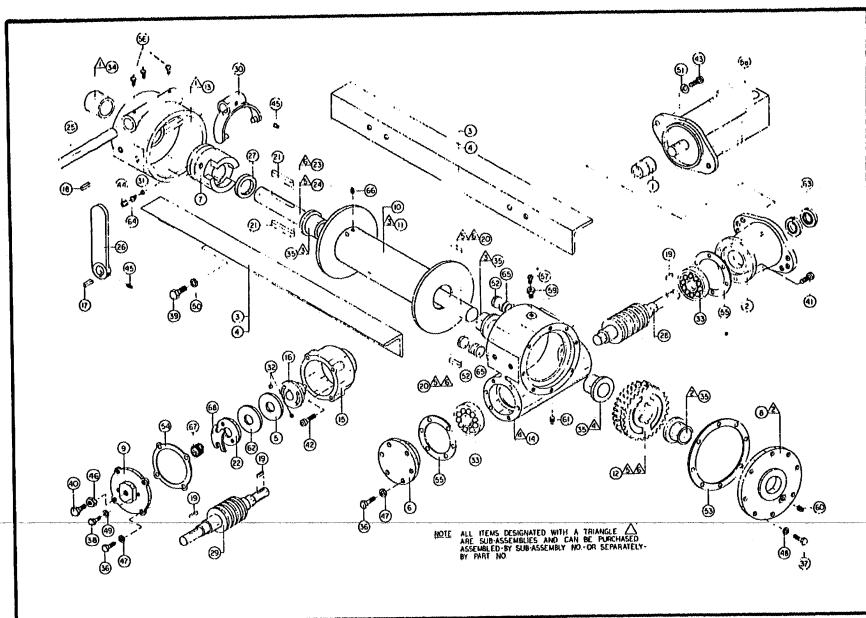


WINCH COMPONENTS



PARTS LIST — WINCH COMPONENTS

Ref. No.	Part No.	List Price	Description	Qty.
1	3-525-0-00214	1075.64	Winch	1
2	4-525-0-00703	11.28	Winch Mounting Angle	2
3	4-525-0-00613		Tie Plate	2
4	5-533-0-00055	9.27	Chain	1
5	5-533-0-00054	15.17	Coupling	2
6	7-111-1-60650	.10	Hex Head Bolt	4
7	7-950-1-60000	.05	Lockwasher	4
8	A4-527-0-00108	6.14	Orbit Motor Mounting Plate	1
9	3-525-0-00219		Orbit Motor	1



SUB ASSEMBLY LISTING

ITEM NO.	QTY REQD	PART NO.	DESCRIPTION	ITEM NO.	QTY REQD	PART NO.	DESCRIPTION
Δ	1	222015	Clutch Hsg. Assy.	Δ	1	248010	Gear Hsg. Assy.
Δ	1	228008	Cover Assy.				
Δ	1	234069	Drum Assy.	Δ	1	250163	Gear & Shaft Assy.

PARTS LIST — RAMSEY 400R

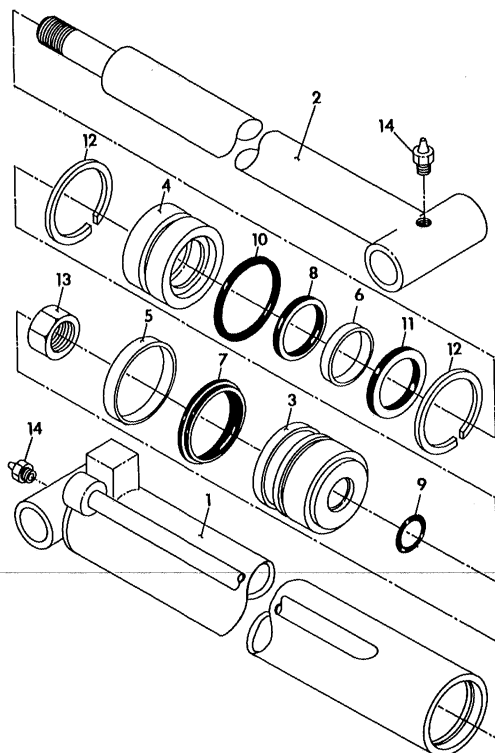
Ref. No.	Part No.	List Price	Description	Qty.
3	302459	38.66	Angle (400)	2
5	314003	69.97	Cam (G-400)	1
6	316004	88.56	Cap	1
7	324102	170.87	Clutch	1
8	328010	100.41	Cover	1
9	328057	53.22	Cover (G-400)	1
10	234141	400.04	Drum	1
12	334016	352.17	Gear R.H.	1
13	338009	276.03	Housing	1
14	338010	448.19	Housing	1
15	338038	111.66	Housing (G-400)	1
16	340024	108.36	Hub (G-400)	1
17	342024	1.15	Key	1

18	342032	1.56	Key	1
19	342051	6.93	Key	2
20	342120	8.08	Key	2
21	342123	10.17	Key	2
22	352020	49.51	Plate (G-400)	1
23	356702	144.22	Shaft (400)	1
25	356902	19.45	Shaft	1
26	358001	33.35	Lever	1
27	362007	21.01	Spacer	1
28	368004	293.99	Worm R.H.	1
29	368057	319.64	Worm R.H. (G-400)	1
30	370003	65.23	Yoke	1
31	400003	1.03	Ball	1
32	400007	1.03	Ball (G-400)	2
33	402044	78.99	Bearing	2
34	412005	25.30	Bushing	1
35	412006	28.68	Bushing	2
36	414071	.75	Capscrew	4
37	414134	.60	Capscrew	8
38	414390	.54	Capscrew (G-400)	2
39	414410	.69	Capscrew	8
40	414574	1.23	Capscrew (G-400)	1
42	414871	1.29	Capscrew (G-400)	6
44	414971	4.67	Screw	1
45	416109	.81	Screw	2
46	418067	.75	Nut (G-400)	1
47	418163	.55	Washer	6
48	418169	.69	Washer	8
49	418184	.54	Washer (G-400)	2
50	418198	.54	Washer	8
52	442188	2.17	Drag Brake	2
53	442183	2.04	Gasket	1
54	442190	1.29	Gasket (G-400)	1
55	442182	.75	Gasket	2
56	456006	.76	Fitting	3
57	456008	1.35	Fitting	1
59	468002	1.87	Reducer	1
60	468010	.75	Plug	1
61	468011	.84	Plug	1
62	474004	15.60	Washer (G-400)	1
63	486067	6.85	Seal	2
64	494005	.82	Spring	1
65	494088	1.61	Spring	2
66	416057	.82	Screw	1
67	494010	2.16	Spring (G-400)	1

Rev. _____

Date _____

TOWBAR CYLINDER



PARTS LIST — TOWBAR CYLINDER

Ref. No.	Part No.	List Price	Description	Qty.
1	3-071-000006 (new #) C2-700-2-00001 (old #)	163.85	Barrel	1
2	3-763-000003 (new #) B2-700-2-00002 (old #)	114.53	Rod	1
3	4-698-000002 (new #) B4-700-2-00008 (old #)	13.45	Piston	1
4	4-553-000003 (new #) B4-700-2-00009 (old #)	12.53	Head	1
5	A5-700-0-00005*		Ring, Wear	1
6	A5-700-0-00006*		Ring, Wear	1
7	A5-700-0-00001*		Seal, Piston 'T'	1
8	A5-700-0-00002*		Seal, Rod	1
9	7-755-2-14000*		'O' Ring	1
10	7-755-3-34000*		'O' Ring	1
11	A5-700-0-00003*		Seal, Rod Wiper	1
12	A5-700-0-00004		Ring, Retaining	2
13	7-660-2-61630	.96	Nut, Lock	1
14	7-440-0-00000	.34	Fitting, Grease	2

*Available only in Service Kit No. 7-577-250024 — \$18.88

