

ROCK - MASTER

W - 12

&

W - 14

OPERATORS MANUAL

HIGH-LINE MFG.
INC.
ROCK-MASTER PICKERS

HIGH-LINE MFG. INC.

ROCK-MASTER PICKERS

ROCK-MASTER A NEW NAME IN THE ROCK PICKING FIELD, IS MANUFACTURED BY HIGH-LINE MFG. INC. A COMPANY MANNED WITH A CREW WHICH HAS OVER 25 YEARS EXPERIENCE IN THE INDUSTRY.

THIS OPERATOR MANUAL HAS BEEN PREPARED TO PROVIDE INFORMATION NECESSARY FOR THE SAFE AND EFFICIENT OPERATION OF YOUR ROCK-MASTER PICKER, IN IT YOU WILL FIND SAFETY PROCEDURES, MAINTENANCE ROUTINES AND DETAILED PARTS DIAGRAMS.

IF YOU SHOULD FIND THAT YOU REQUIRE INFORMATION NOT COVERED IN THIS MANUAL, FEEL FREE TO CONSULT US OR YOUR LOCAL DEALER.

SHOULD THE NEED ARISE, THIS MANUAL WILL ASSIST YOU IN ACQUIRING REPLACEMENT PARTS. SHOULD YOUR DEALER NOT HAVE THE PARTS YOU REQUIRE IN STOCK, HE WILL BE HAPPY TO ORDER THEM FOR YOU.

THE ROCK-MASTER ROCK PICKER WAS DESIGNED TO WORK IN THE MOST DIFFICULT OF ROCK PICKING SITUATIONS. A LITTLE TIME AND EFFORT SPENT IN PROPER MAINTENANCE WILL INCREASE THE PERFORMANCE AND DURABILITY OF YOUR PICKER.

IN ORDER TO MAINTAIN HIGH EFFICIENCY STANDARDS, CHANGES OR IMPROVMENTS ARE MADE FROM TIME TO TIME. HIGH-LINE MFG. INC. RESERVES THE RIGHT TO MAKE THOSE CHANGES AND ADD IMPROVMENTS WHEN PRACTICAL TO DO SO WITHOUT INCURRING ANY OBLIGATION TO MAKE SUCH CHANGES AND IMPROVEMENTS ON MACHINES SOLD PREVIOUSLY.

HIGH-LINE MFG. INC. THANK YOU AND CONGRATULATE YOU FOR DELECTING A ROCK-MASTER ROCK PICKER AS THE MACHINE OF YOUR CHOICE.

RAYMOND BUSSIÈRE
PRESIDENT

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YOUR MODEL W-12/14 ROCK-MASTER STONE RAKE WAS DESIGNED FOR EASE OF HANDLING IN THE TOUGHEST OF CONDITIONS.

THE W-12/14 WILL CLEAN YOUR FIELDS OF SMALL & LARGE STONES FAST AND WITH THE GREATEST OF EASE.

THE ROCK-MASTER STONE RAKE IS NOT A LUXURY, IT IS A SOUND ADDITION TO YOUR FARMING OPERATION.

MANY ACRES OF TROUBLE FREE SERVICE CAN BE EXPECTED WITH A LITTLE INSIGHT AND PROPER MAINTENANCE DESCRIBED IN THIS MANUAL.

DIAGRAMS AND PARTS LISTS HAVE BEEN INCLUDED FOR YOUR CONVENIENCE TO ASSIST IN THE ADJUSTMENTS AND UPKEEP THAT MAY BE REQUIRED.

- ALWAYS DISENGAGE PTO BEFORE DISMOUNTING TRACTOR
- DO NOT OPERATE UNLESS PTO GUARDS ARE IN PLACE
- PTO GUARDS MUST TURN FREELY AND BE PROPERLY ATTACHED AND MAINTAINED
- PTO SHAFTS MUST BE SECURELY LOCKED ONTO TRACTOR AND IMPLEMENT SHAFTS
- KEEP YOURSELF AND OTHERS CLEAR OF ROTATING PARTS TO PREVENT INJURY
- READ ALL SAFETY "NOTES"
- PAY ATTENTION TO ALL "WARNING & SAFETY" DECALS
- ABOVE ALL "BE CAREFUL"

WARRANTY

HIGH-LINE MFG. INC. warrants its products to the original owner for a period of two years from date of purchase. Subject to the following provisions.

- *1st YEAR - PARTS & LABOUR
- *2nd YEAR - PARTS ONLY

*All matters related with the warranty of products must be handled through an authorized ROCK-MASTER dealer.

*Any labour subject to warranty must be authorized by a HIGH-LINE MFG. INC. representative, before work is started.

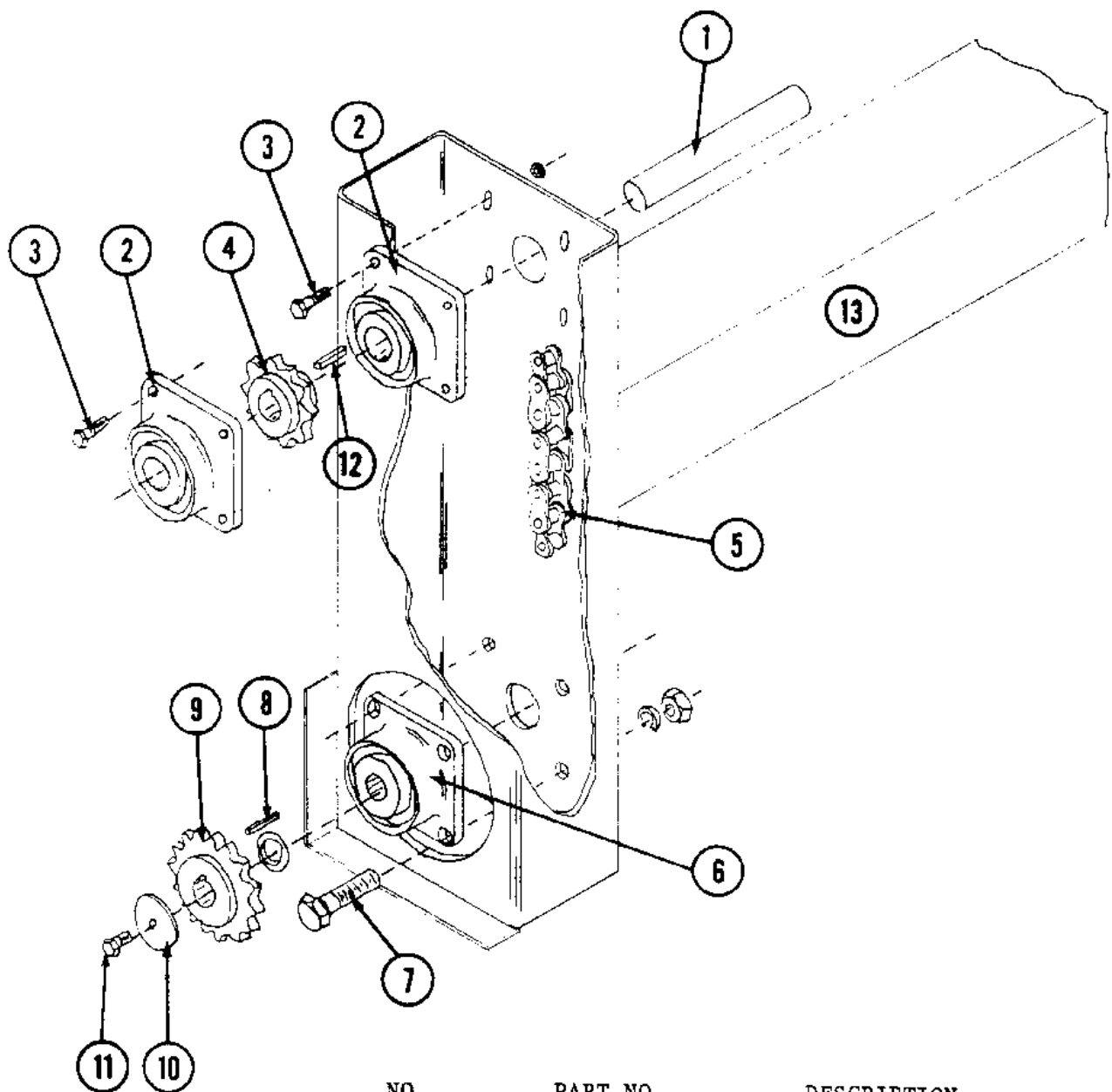
*Machines used for rental, custom work or industrial/construction use, will be warranted for a period of 6 months from date of purchase. Parts & labour.

*Warranty will be void if any component of rock-picker is altered or modified in any way, unless written permission is given by HIGH-LINE MFG. INC.

*HIGH-LINE MFG. INC. will not assume any responsibility for whatever damage may occur to equipment to which the rock-picker may be attached.

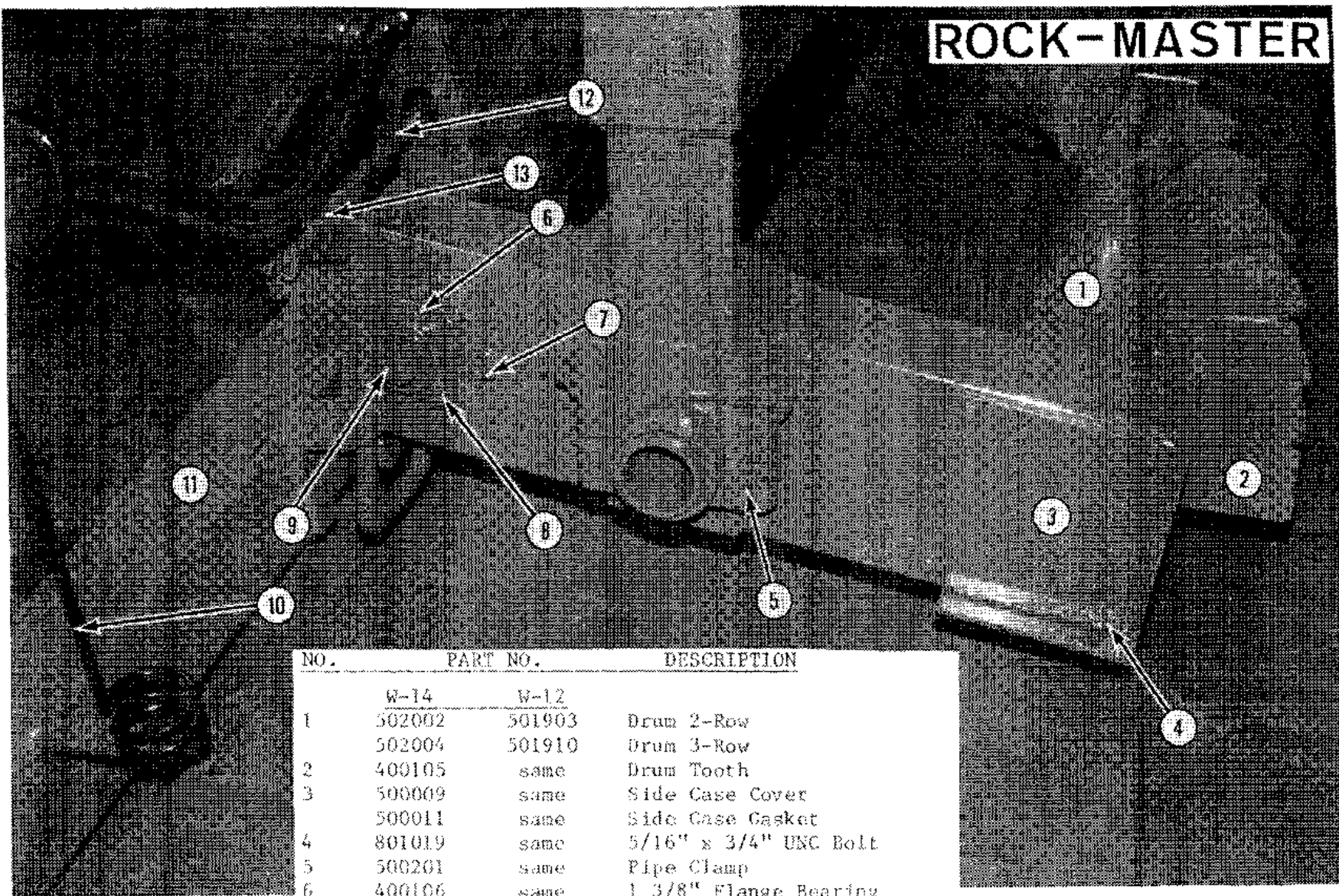
*Warranty terms and conditions are subject to provincial and state legislation.

ROCK-MASTER

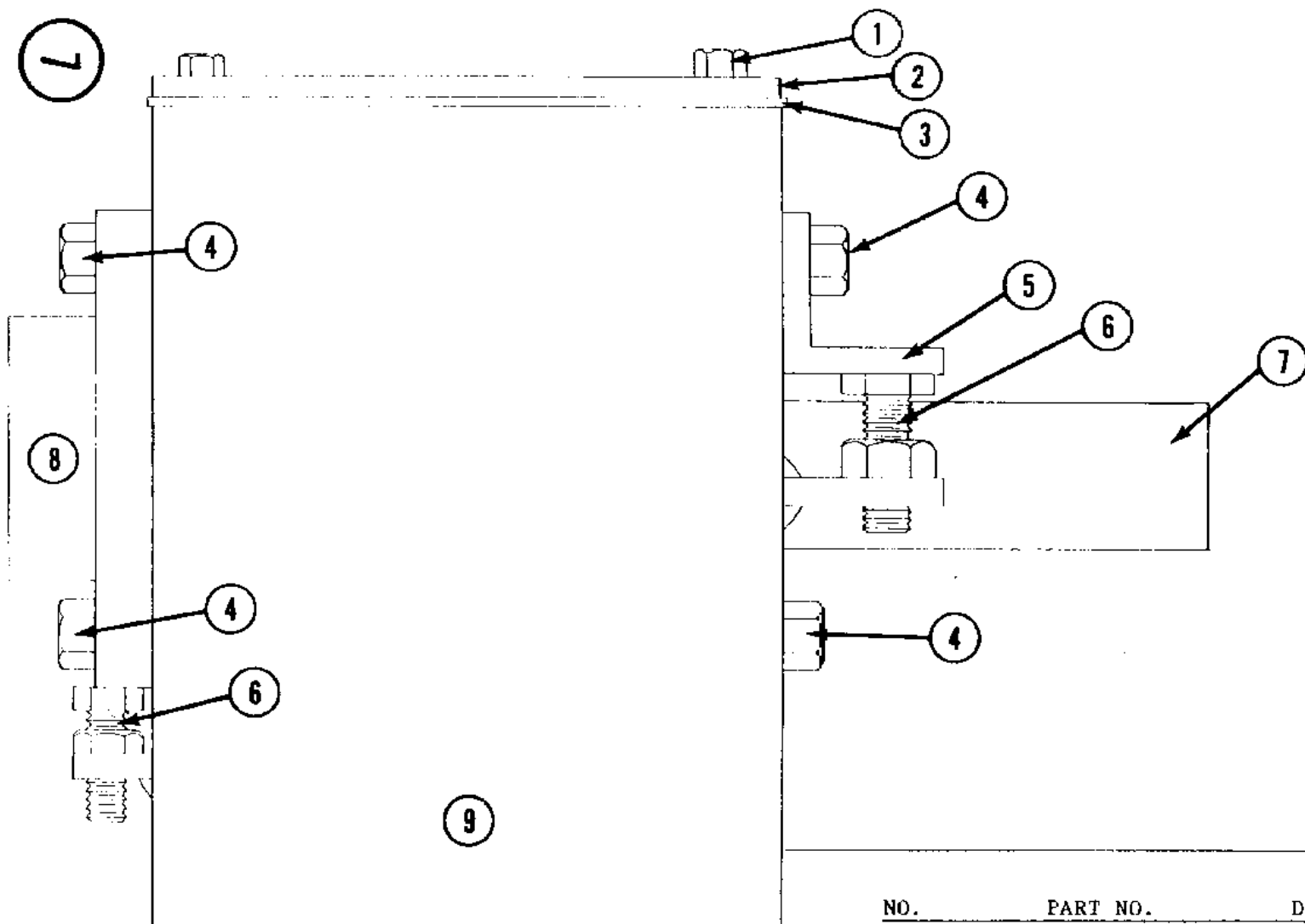


NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	501913	same	1 3/8" x 12" Shaft
2	400106	same	1 3/8" Flange Bearing Complete
3	801017	same	1/2" x 2 1/2" Bolt UNC w/nut
4	701010	same	100C9 Sprocket
5	702004	same	#100 Chain x 46 1/2 Links
6	400103	same	2" Flange Bearing Complete
7	801106	same	5/8" x 2" UNF Bolt w/nut
8	801605	same	1/2" x 2" Key
9	701006	same	100C14 Sprocket
10	801302	same	1/2" x 3 1/8" Washer
11	801002	same	1/2" x 1" UNC Bolt
12	801603	same	5/16" x 2 1/2" Key
13	502003	501907	Drum Frame

ROCK-MASTER



NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	502002	501903	Drum 2-Row
	502004	501910	Drum 3-Row
2	400105	same	Drum Tooth
3	500009	same	Side Case Cover
	500011	same	Side Case Gasket
4	801019	same	5/16" x 3/4" UNC Bolt
5	500201	same	Pipe Clamp
6	400106	same	1 3/8" Flange Bearing
7	801018	same	5" x 1 1/2" UNC Bolt
8	801017	same	5" x 2 1/2" UNC Bolt w/out
9	501913	same	1 3/8" x 12" Shaft
10	500001	same	Hyd. Line Holder
11	502005	501911	Hitch
12	-	401401	1 3/8" x 62" Shaft
	401501	-	1 3/8" x 74" Shaft
13	500001	same	1 3/8" Pillow Block Bearing



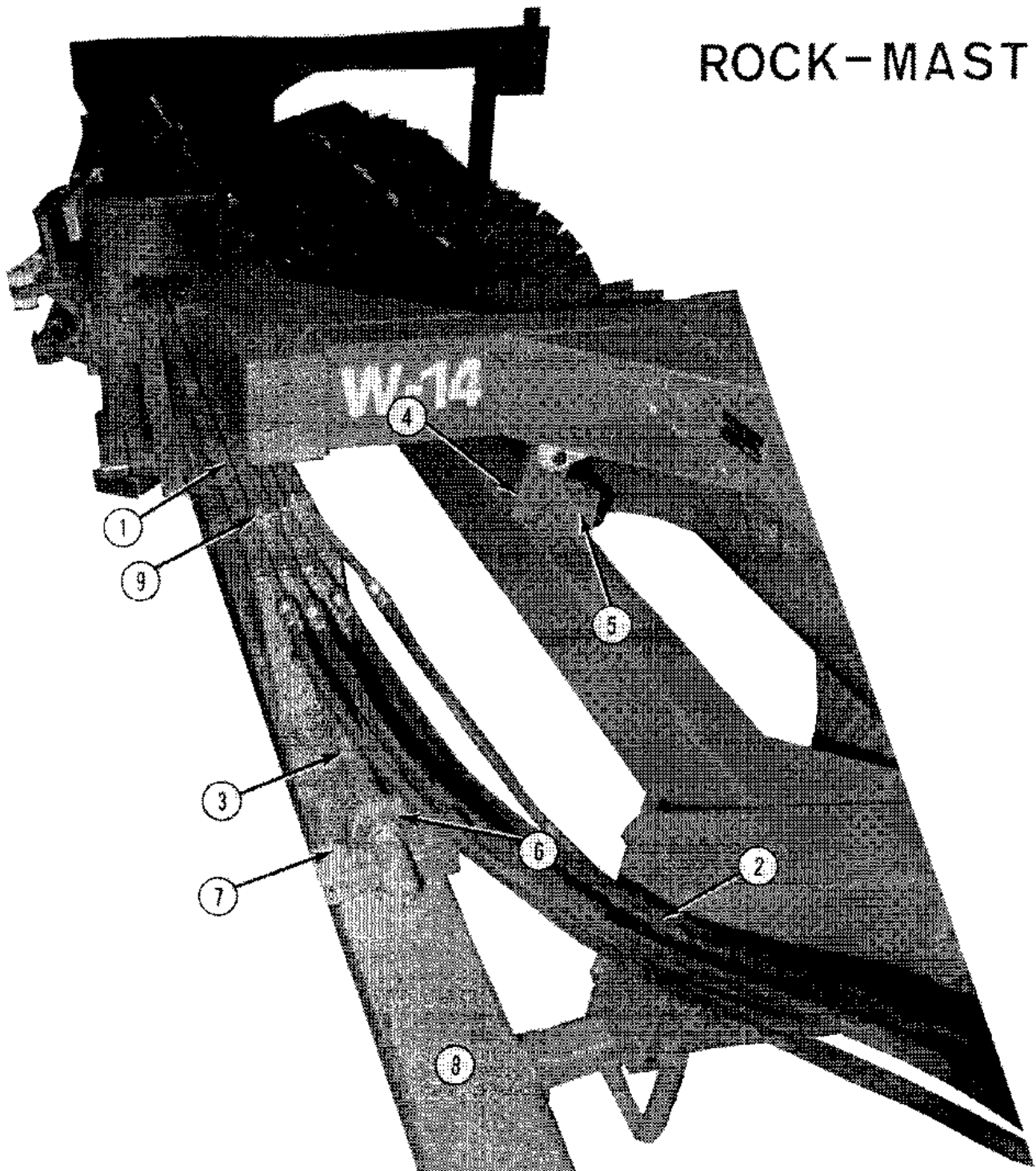
To tighten chain, loosen bolts (4) holding bearings & tightener bracket.

Screw out bolts (6) to tighten, screw in to loosen.

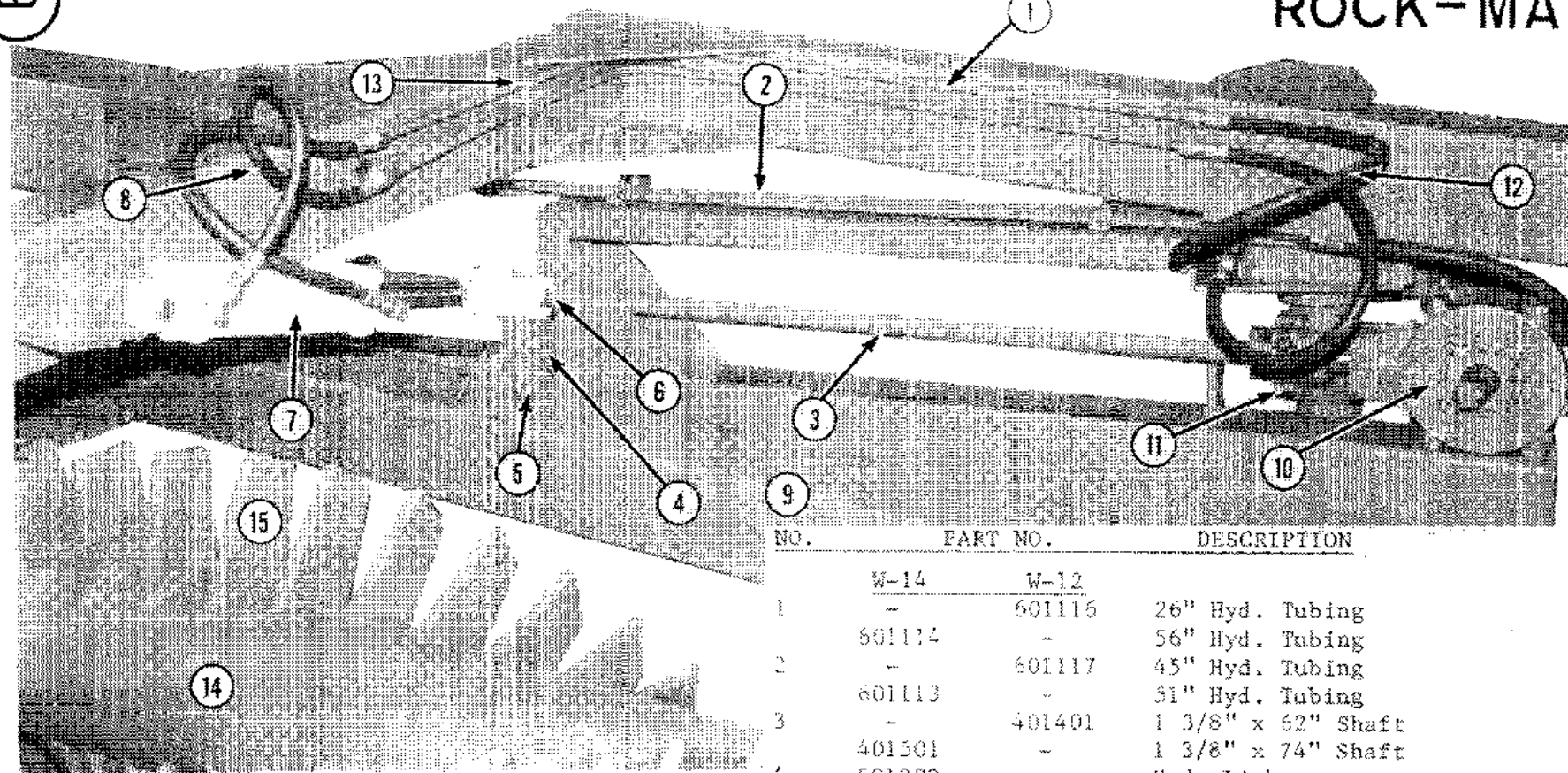
After adjusting chain, tighten bolts (4).

NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	801019	same	5/16" x 3/4" UNC Bolt
2	500008	same	Top Case Cover
3	500010	same	Top Case Gasket
4	801017	same	1/2" x 2 1/2" UNC Bolt w/nut
5	501912	same	Tightener Bracket
6	801018	same	1/2" x 1 1/2" UNC Bolt
7	501913	same	1 3/8" x 12" Shaft
8	400106	same	1 3/8" Flange Bearing Complete
9	502003	501907	Drum Frame

ROCK-MASTER

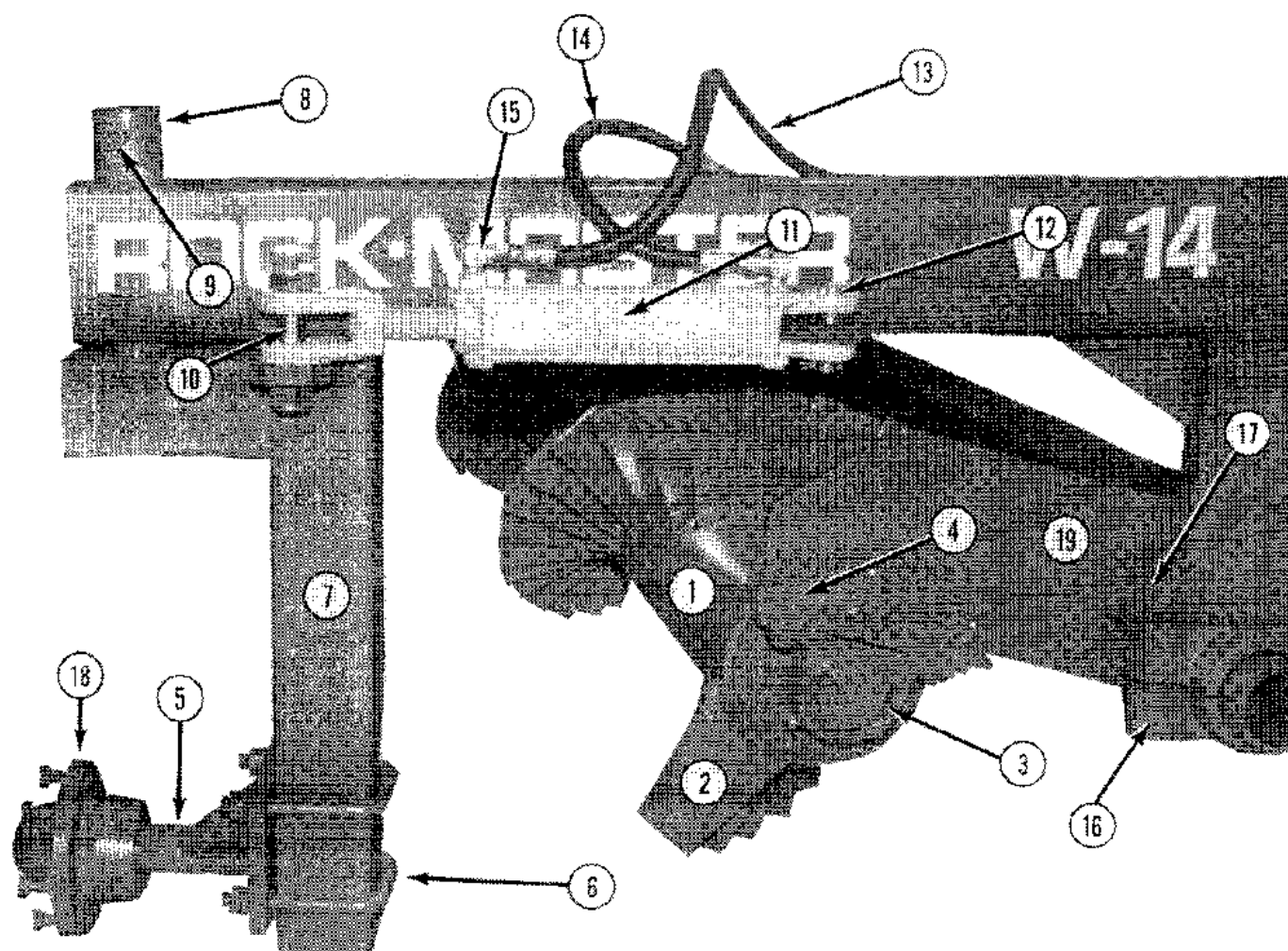


NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	-	601117	45" Hyd. Tubing
	601113	-	51" Hyd. Tubing
2	601003	same	3/8" x 96" Hyd. Hose(Jic-Npt)
3	-	401401	1 3/8" x 62" Shaft
	401501	-	1 3/8" x 74" Shaft
4	501909	same	Hyd. Linkage
5	801201	same	1" x 3 1/2" Pin
6	400001	same	1 3/8" Pillow Block Complete
7	801008	same	1/2" x 2" UNC Bolt w/nut
8	502005	501911	Hitch
9	801702	same	2-Line Hyd. Tubing Clamping Block
	500014	same	Hitch Jack
	500002	same	Hitch Clevis
	801005	same	1" x 4" UNC Bolt w/nut



NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	-	601116	26" Hyd. Tubing
	601114	-	56" Hyd. Tubing
2	-	601117	45" Hyd. Tubing
	601113	-	51" Hyd. Tubing
3	-	401401	1 3/8" x 62" Shaft
	401501	-	1 3/8" x 74" Shaft
4	501909	same	Hyd. Linkage
5	301201	same	1" x 3 1/2" Pin
6	203003	same	Clevis Pin
7	200801	same	2 1/2" x 8" Hyd. Cyl. Complete
8	601016	same	3/8" x 27" Hyd. Hose(Jic m-f)
9	502003	501907	Drum Frame
10	101101	same	Double Drive Gearbox Complete
11	701011	same	Shaft Coupler Complete Key - Key
	701013	same	Coupler Half Keyed
	702009	same	Coupler Chain
	702002	same	#80 Connector Link
	702003	same	#80 Half Link
12	601016	same	3/8" x 27" Hyd. Hose(Jic m-f)
13	301702	same	2 Line Hyd. Tubing Clamping Block 2 pcs.
14	502002	501903	2-Row Drum
	502004	501910	3-Row Drum
15	400105	same	Drum Teeth

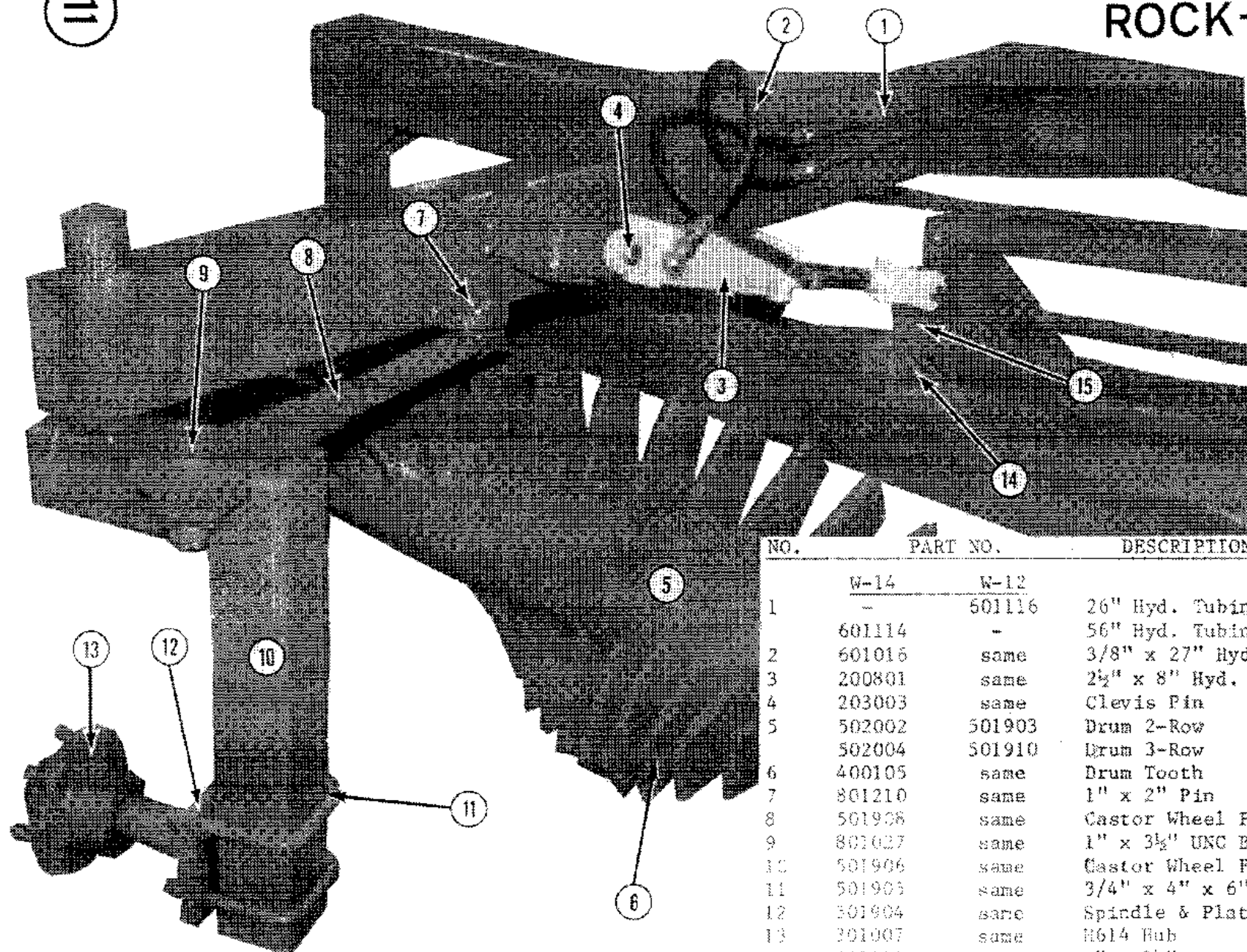
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NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	502002	501903	Drum 2-Row
	502004	501910	Drum 3-Row
2	400105	same	Drum Tooth
3	400003	same	2" Pillow Block Complete
4	801114	same	5/8" x 2 1/2" UNF Bolt w/nut
5	501904	same	Spindle & Plate
6	501905	same	3/4" x 4" x 6" U-Clamp
7	501906	same	Castor Wheel Frame
8	801306	same	2" I.D. x 2" Long Collar
9	801111	same	1/2" x 3 1/2" UNF Bolt w/locknut
10	801007	same	1" x 4 1/2" UNC Bolt w/locknut
11	200801	same	2 1/2" x 8" Hyd. Cyl. Complete
12	203003	same	Clevis Pin
13	601016	same	3/8" x 27" Hyd. Hose(Jic m-f)
14	601006	same	3/8" x 40" Hyd. Hose(Jic m-f)
15	601209	same	849-FS-08x06 (Jic m - Npt m 90°)
16	500201	same	Pipe Clamp
17	801105	same	9/16" x 4 1/2" Bolt UNF w/nut
18	301007	same	H614 Hub
19	502003	501907	Drum Frame

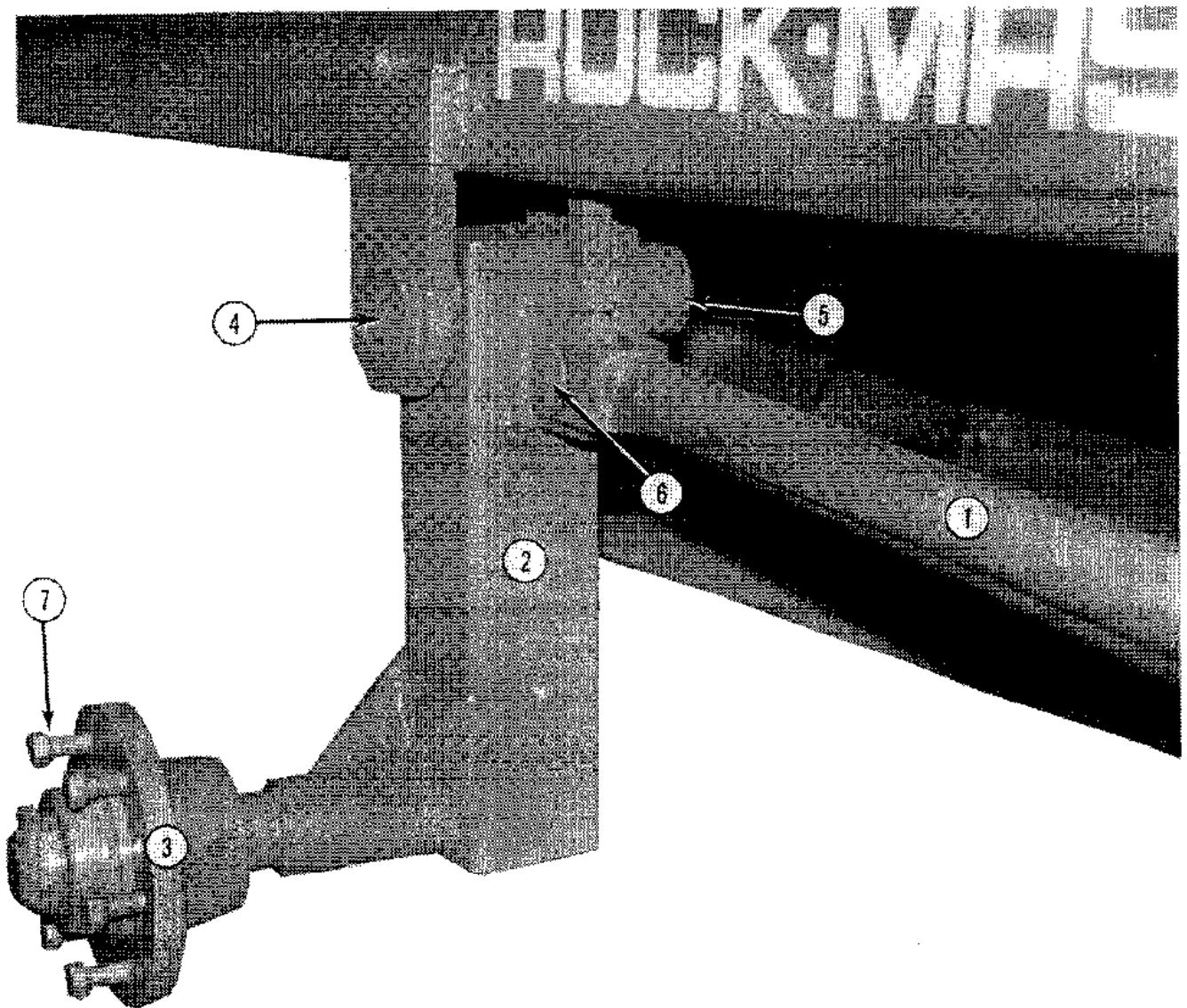


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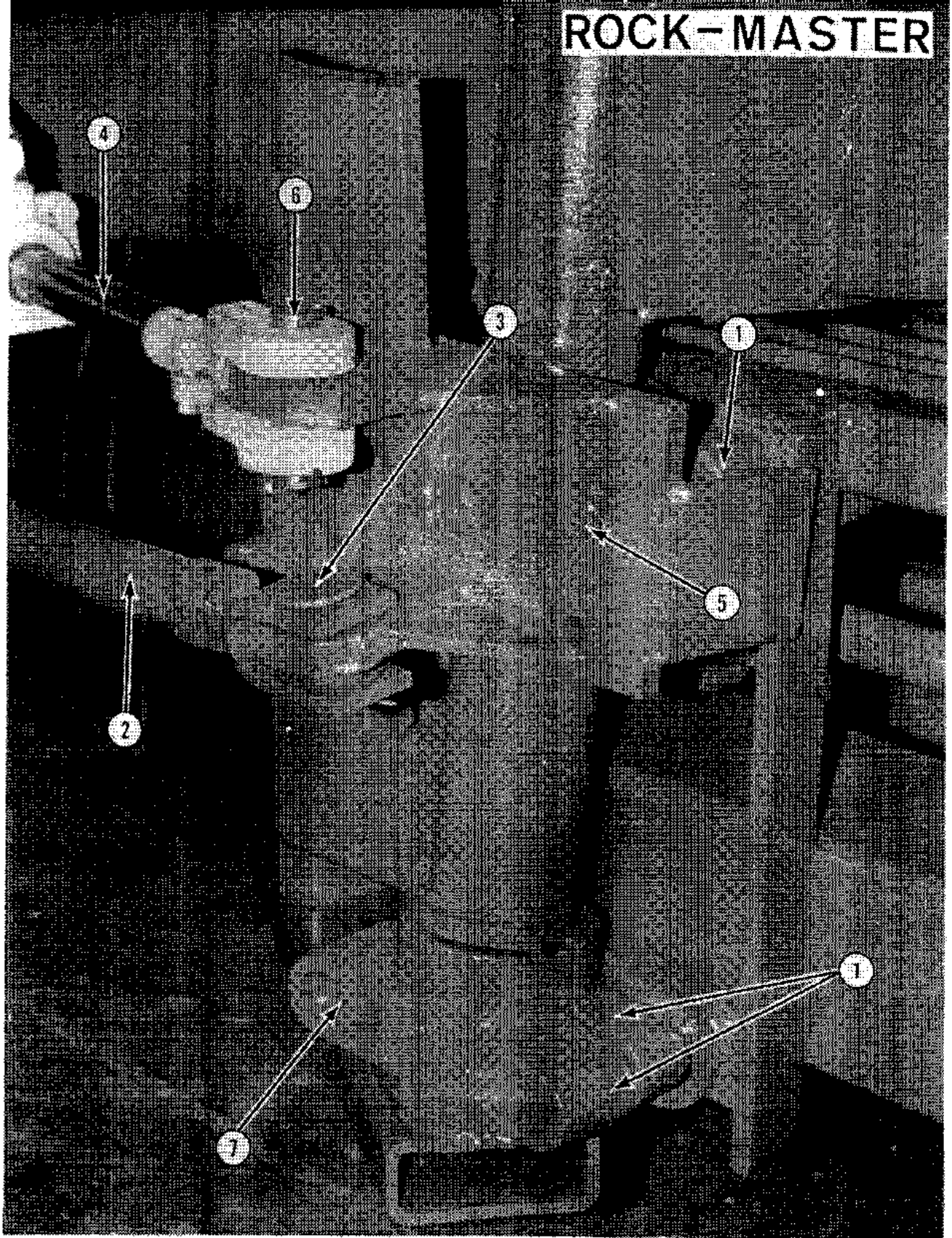


NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	-	501116	26" Hyd. Tubing
	601114	-	56" Hyd. Tubing
2	601016	same	3/8" x 27" Hyd. Hose(Jic m-f)
3	200801	same	2 1/2" x 8" Hyd. Cyl. Complete
4	203003	same	Clevis Pin
5	502002	501903	Drum 2-Row
	502004	501910	Drum 3-Row
6	400105	same	Drum Tooth
7	801210	same	1" x 2" Pin
8	501908	same	Castor Wheel Frame Adjusting Arm
9	801027	same	1" x 3 1/2" UNC Bolt w/nut
10	501906	same	Castor Wheel Frame
11	501903	same	3/4" x 4" x 6" E-Clamp
12	501904	same	Spindle & Plate
13	201007	same	R614 Hub
14	801201	same	1" x 3 1/2" Pin
15	501909	same	Hyd. Linkage
16	801307	same	1" I.D. x 2 1/2" O.D. Washer

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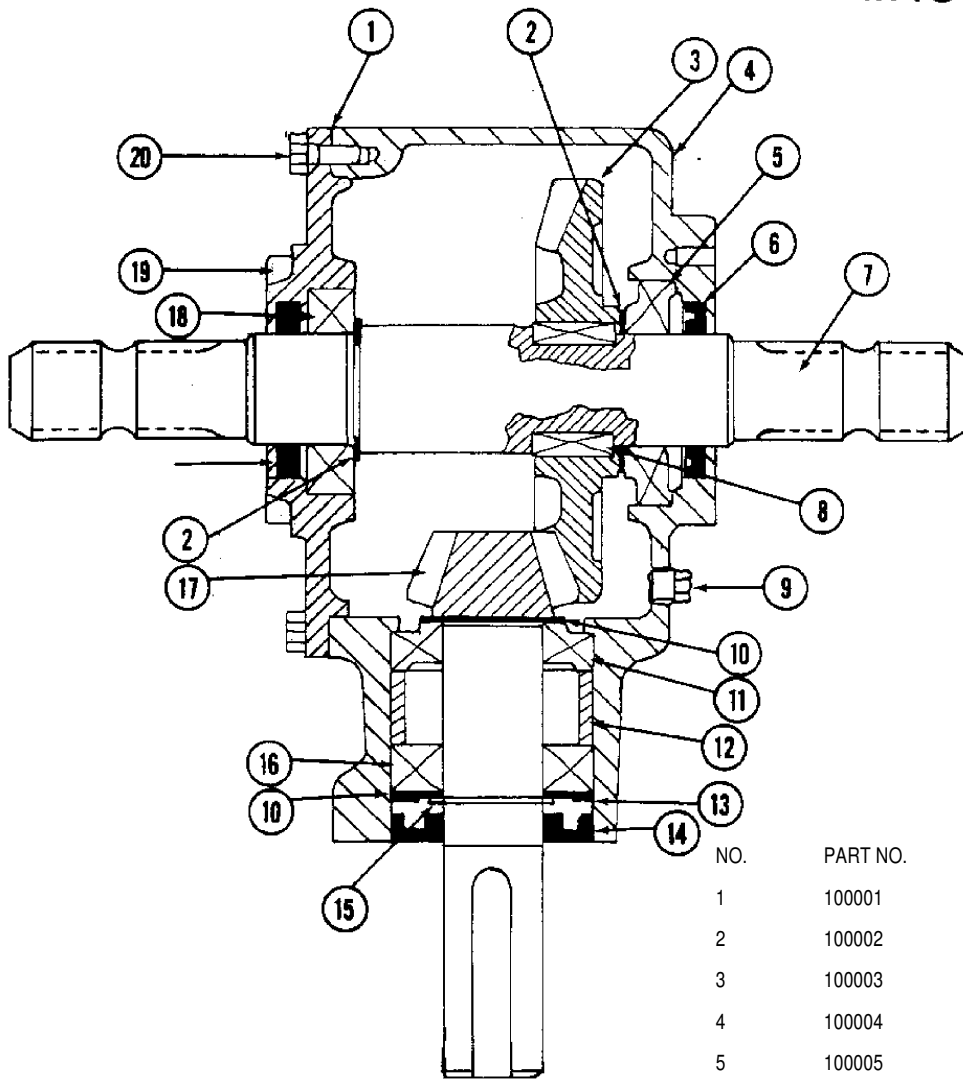


NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	502001	501901	Transport Linkage
2	501902	same	Transport Wheel Frame w/spindle
3	301007	same	H614 Hub
4	801211	same	2" x 9" Pin
5	801111	same	$\frac{1}{2}$ " x $3\frac{1}{2}$ " UNF Bolt w/locknut
6	801204	same	1" x $2\frac{1}{2}$ " Pin
7	301006	same	$\frac{9}{16}$ "-18 UNF x $1\frac{1}{4}$ " Wheel Bolt



NO.	PART NO.		DESCRIPTION
	W-14	W-12	
1	500201	same	Pipe Clamp
2	502001	501901	Transport Linkage
3	801204	same	1" x 2½" Pin
4	200801	same	2½" x 8" Hyd. Cyl. Complete
5	801112	same	5/8" x 7" Bolt UNF w/nut
6	203003	same	Clevis Pin
7	801113	same	5/8" x 5" Bolt UNF w/nut

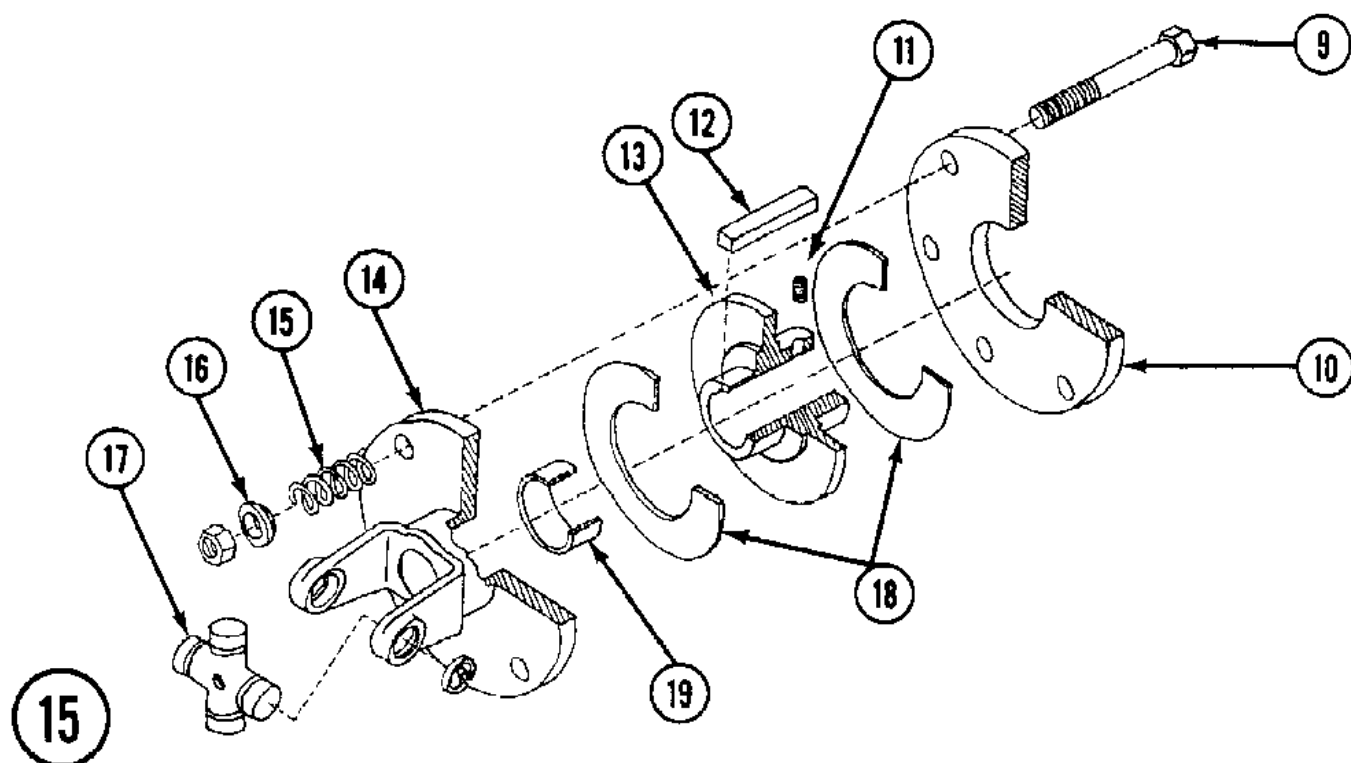
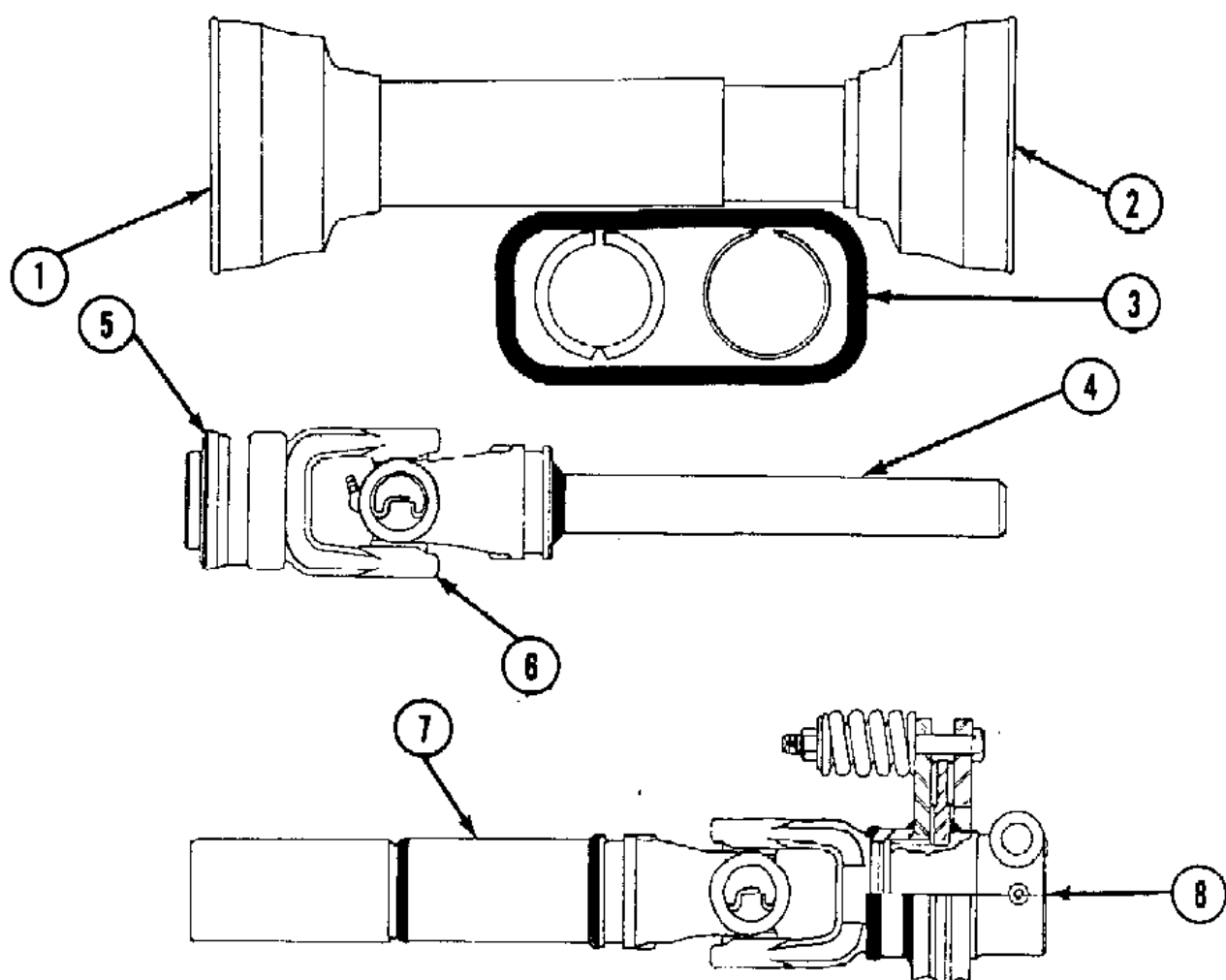
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NO.	PART NO.	DESCRIPTION
1	100001	GASKET
2	100002	SHIM 40.3 x 51.5
3	100003	GEAR Z30 M5
4	100004	CASING
5	100005	30208 BEARING
6	100006	OIL SEAL
7	32205B	SHAFT DOUBLE DRIVE SPLINED - SHORT (There are 2 different lengths of this shaft. Measure the old shaft to order the correct length)
	33205	SHAFT DOUBLE DRIVE SPLINED - LONG (There are 2 different lengths of this shaft. Measure the old shaft to order the correct length)
8	100007	PARALLEL KEY 10 x 8 x 30
9	100008	PLUG
10	100009	SHIM 35.3 x 48
11	100010	3C2G7 BEARING
12	100011	SPACER
13	100012	SNAP RING 72 UNI7437
14	100013	OIL SEAL
15	100014	SNAP RING INI7435
16	100015	6207 BEARING
17	100016	PINION GEAR Z10 M5
18	101103	6208 BEARING
19	101104	DOUBLE DRIVE COVER
20	101018	BOLT M8 x 20 8.8
	101101	DOUBLE DRIVE GEAR B

M4559 PTO SHAFT

ROCK-MASTER

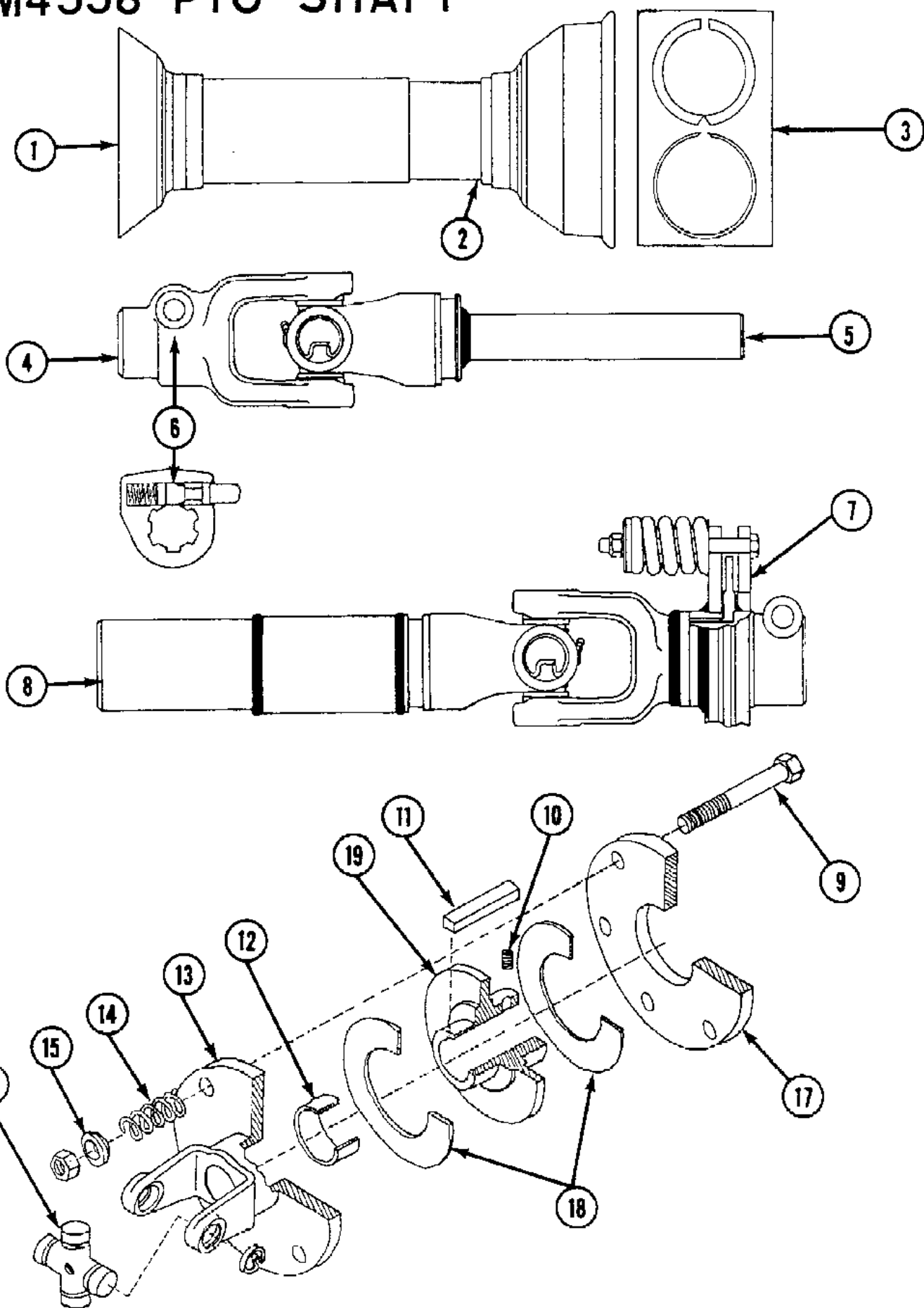


ROCK-MASTER

NO.	PART NO.	DESCRIPTION
1	901010	OUTER GUARD
2	901011	INNER GUARD
3	901012	GUARD RETAINER KIT
4	901004	YOKE & SHAFT
5	901013	SPRING-LOK YOKE REPAIR KIT
6	901002	TRACTOR YOKE
7	901005	YOKE & TUBE
8	901016	6000 CLUTCH ONLY COMPLETE
9	901008	6000 CLUTCH BOLT W/NUT
10	900002	CLUTCH PRESSURE PLATE
11	801501	3/8-16 SET SCREW
12	801602	5/16 X 2 KEY
13	900001	CLUTCH HUB
14	901006	YOKE W/CLUTCH PLATE
15	901007	6000 CLUTCH SPRING
16	901009	6000 CLUTCH SPRING HOLDING WASHER
17	901003	1 1/4" JOURNAL KIT
18	900003	CLUTCH FRICTION DISC
19	900004	BRASS BUSHING
20	901014	TRACTOR HALF PTO SHAFT W/GUARD
21	901015	CLUTCH HALF PTO SHAFT W/GUARD
	901001	M4559 PTO COMPLETE

M4558 PTO SHAFT

ROCK-MASTER



ROCK-MASTER

<u>NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	901110	OUTER GUARD
2	901111	INNER GUARD
3	901112	GUARD RETAINER KIT
4	901102	TRACTOR YOKE
5	901104	YOKE AND SHAFT
6	901113	YOKE PIN LOCK REPAIR KIT
7	901114	9000 CLUTCH COMPLETE
8	901105	YOKE AND TUBE
9	901108	9000 CLUTCH BOLT W/NUT
10	801501	3/8 -16 SET SCREW
11	801602	5/16 X 2 KEY
12	900004	BRASS BUSHING
13	901106	YOKE WITH CLUTCH PLATE
14	901107	9000 CLUTCH SPRING
15	901109	9000 CLUTCH SPRING HOLDING WASHER
16	901103	35RW JOURNAL KIT
17	900002	CLUTCH PRESSURE PLATE
18	900003	CLUTCH FRICTION DISC
19	900001	CLUTCH HUB
20	901115	TRACTOR HALF PTO SHAFT W/GUARD
21	901116	CLUTCH HALF PTO SHAFT W/GUARD

"IMPORTANT"

"6000 & 9000 CLUTCH"

OPERATING & MAINTENANCE INSTRUCTIONS

- 1) ATMOSPHERIC CONDITIONS AND PROLONGED STORAGE MAY ALTER THE OPERATING CHARACTERISTICS OF FRICTION CLUTCHES. BEFORE FIRST USE OR AFTER STORAGE OF MORE THAN ONE MONTH ALL SPRING ADJUSTING NUTS SHOULD BE BACKED OFF UNTIL SPRINGS ARE JUST LOOSE, THEN TIGHTENED ONE TURN.
- 2) THE CLUTCH SHOULD THEN BE SLIPPED UNTIL IT STARTS TO SMOKE. THE SPRINGS SHOULD THEN BE SET TO THE DESIRED SPRING SETTING. SET ALL SPRINGS TO THE SAME LENGTH. NOTE THAT AFTER A CLUTCH HAS BEEN "RUN IN" IT WILL SLIP ABOUT 20% HIGHER THAN BEFORE.
- 3) THE TEMPERATURE OF THE CLUTCH SHOULD BE CHECKED OFTEN DURING THE FIRST 20 MIN. OF OPERATION AND ABOUT EVERY 8 HRS. THEREAFTER. IF CLUTCH SMOKES, OR IS TOO HOT TO TOUCH (140°F. PROX.-DON'T BURN YOURSELF), THE SPRINGS SHOULD BE TIGHTENED OR THE CLUTCH WILL BURN UP AND FAIL.
- 4) SOME CLUTCHES MAY HAVE A SPRING STOP INSIDE THE SPRING TO PREVENT TIGHTENING THE SPRING BEYOND A PRESET LENGTH. CAUTION ! IF ATTEMPT IS MADE TO TIGHTEN THE SPRING BEYOND THE PRESET LENGTH, THE BOLT MAY BREAK AND THE SPRING WILL THE FASTENER FLY OFF.

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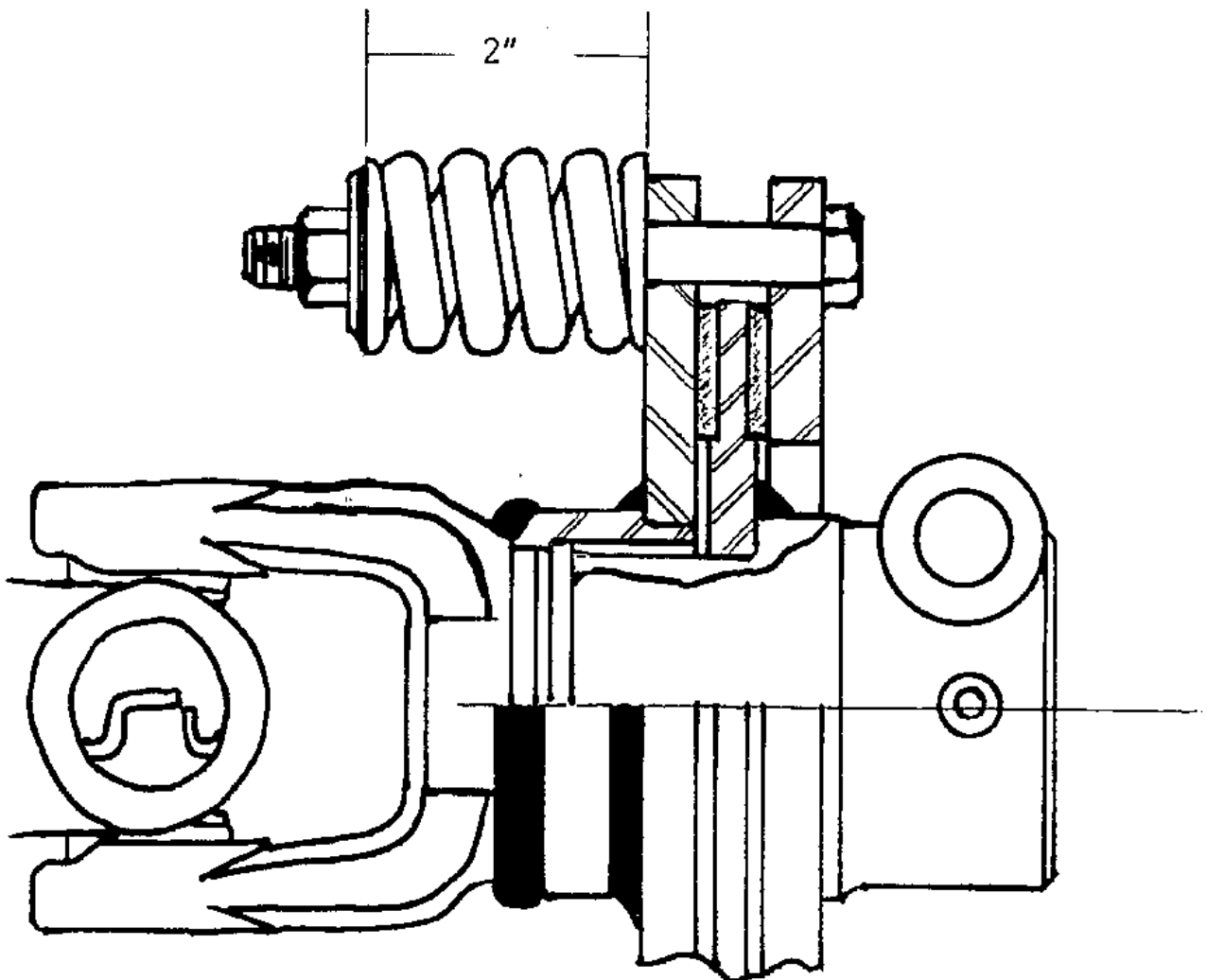
"6000 CLUTCH"

(MAIN DRIVE LINE PTO ON ALL ROCK PICKERS AND WINDROWERS)

STORAGE

WHEN YOUR MACHINE IS GOING TO BE INACTIVE ON A SEASONAL BASIS, IT IS ADVISED TO LOOSEN OR REMOVE THE CLUTCH FACINGS, TO AVOID RUST FORMING AND MAKING THEM INOPERATIVE.

"REMEMBER" TO TORQUE THE BOLTS TO THE REQUIRED LENGTH AS SHOWN BELOW.



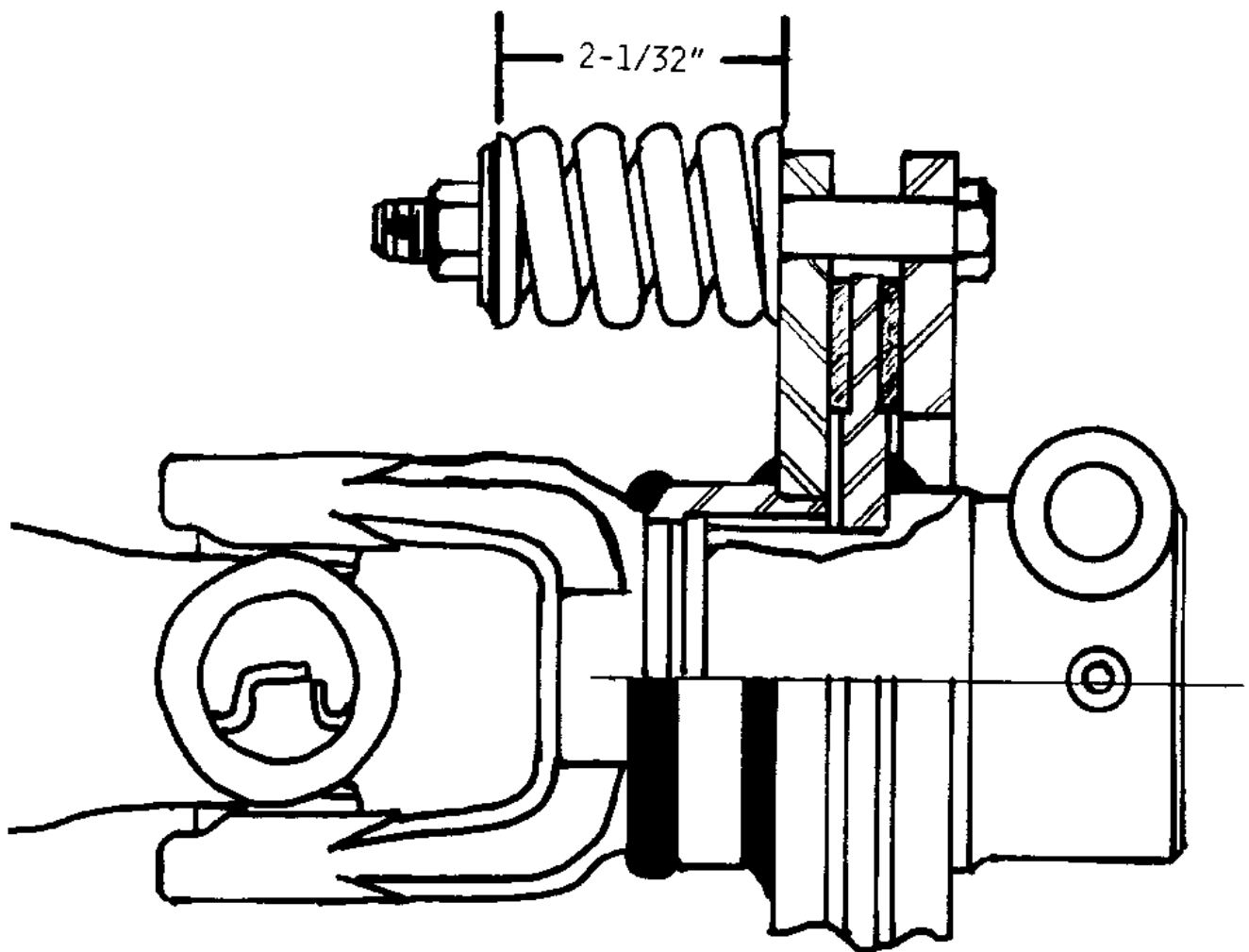
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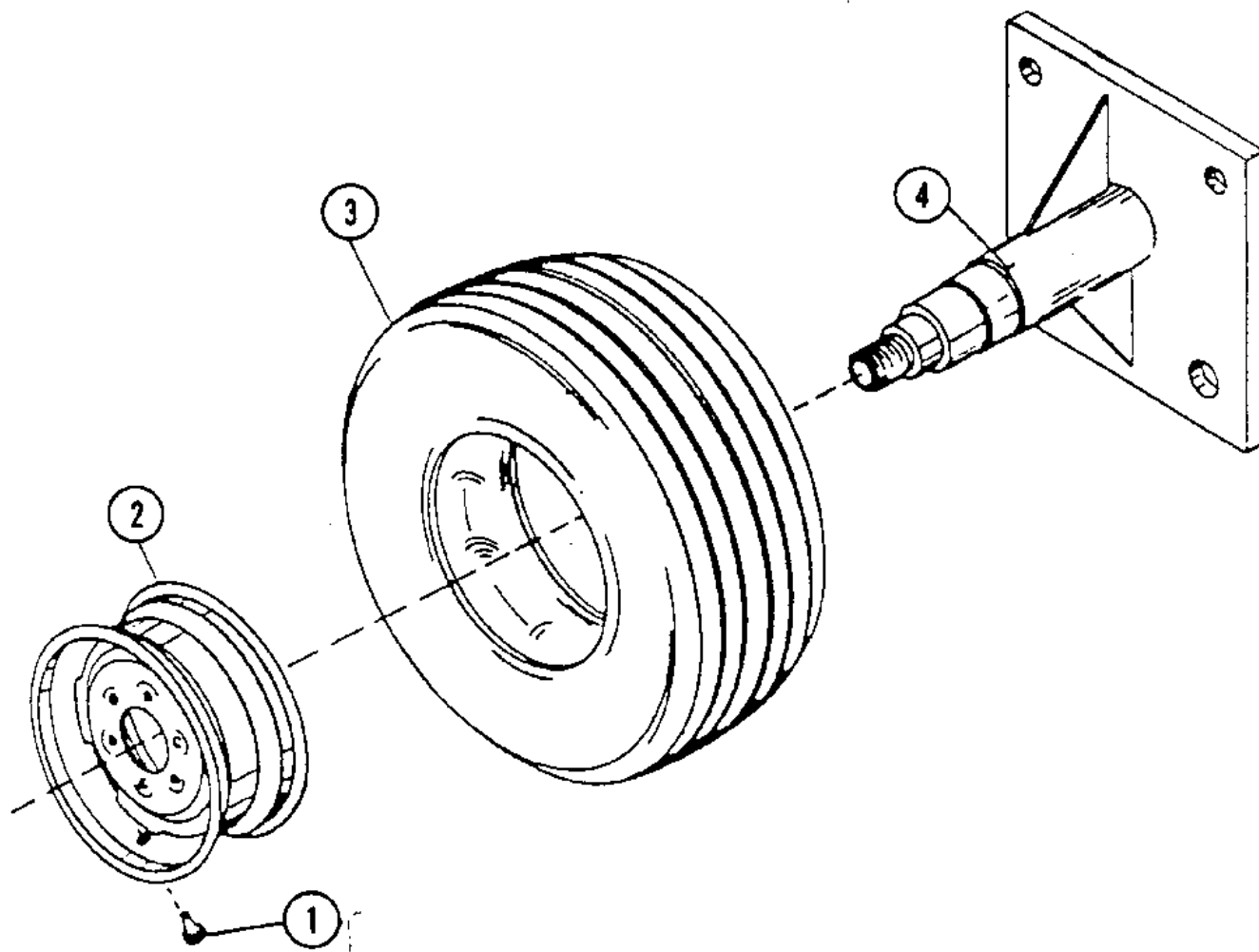
"9000 CLUTCH"

STORAGE (SECONDARY DRIVE LINE PTO ON RW-5 AND W-14, W-20)

WHEN YOUR MACHINE IS GOING TO BE INACTIVE ON A SEASONAL BASIS, IT IS ADVISED TO LOOSEN OR REMOVE THE CLUTCH FACINGS, TO AVOID RUST FORMING AND MAKING THEM INOPERATIVE.

"REMEMBER" TO TORQUE THE BOLTS TO THE REQUIRED LENGHT AS SHOWN BELOW.



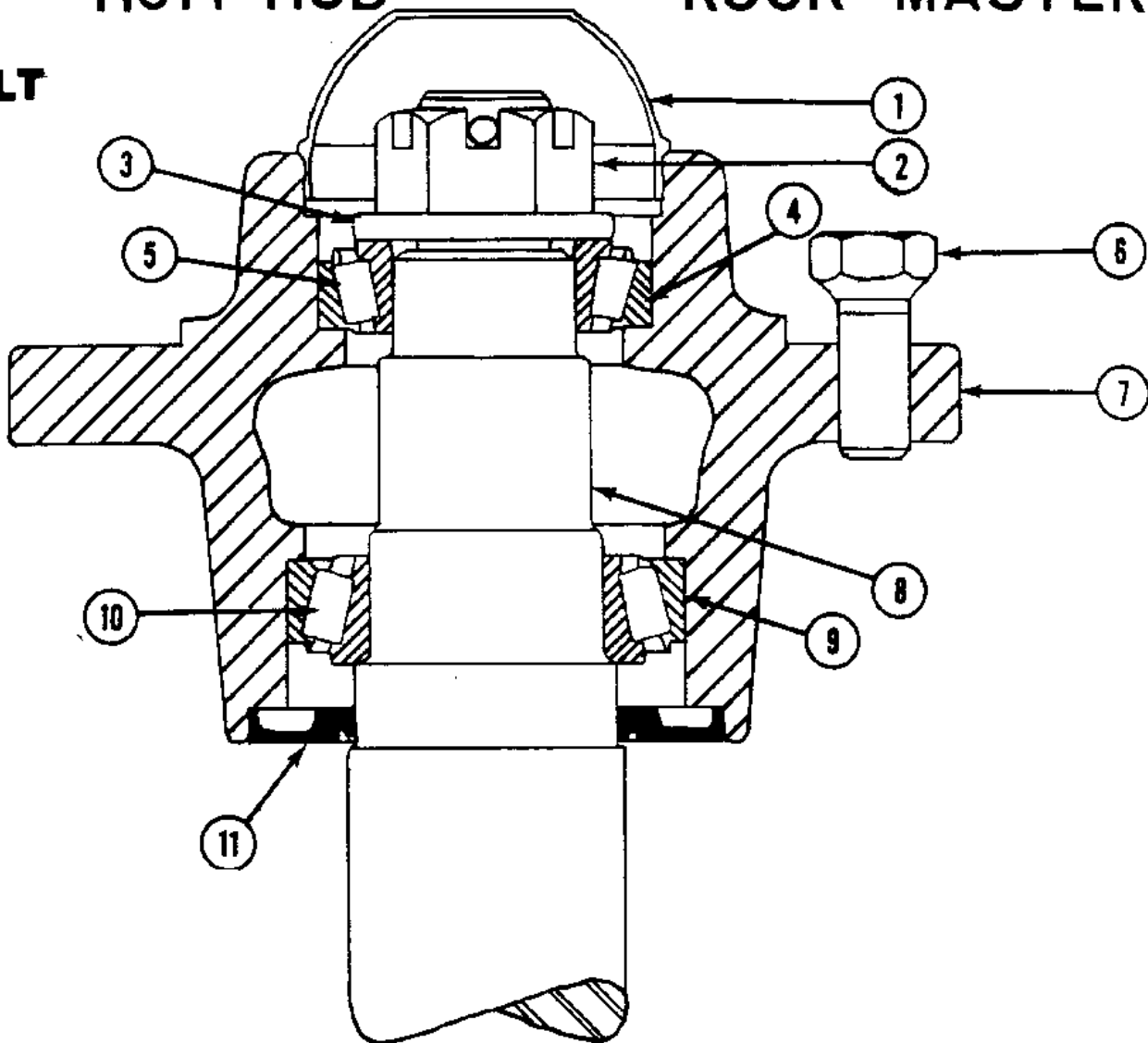


NO.	PART NO.	DESCRIPTION
1	301015	VALVE STEM
2	301014	11:00 x 15-6 hole Rim
3	301013	11L x 15 Tire
4	501904	SPINDLE & PLATE

H614 HUB

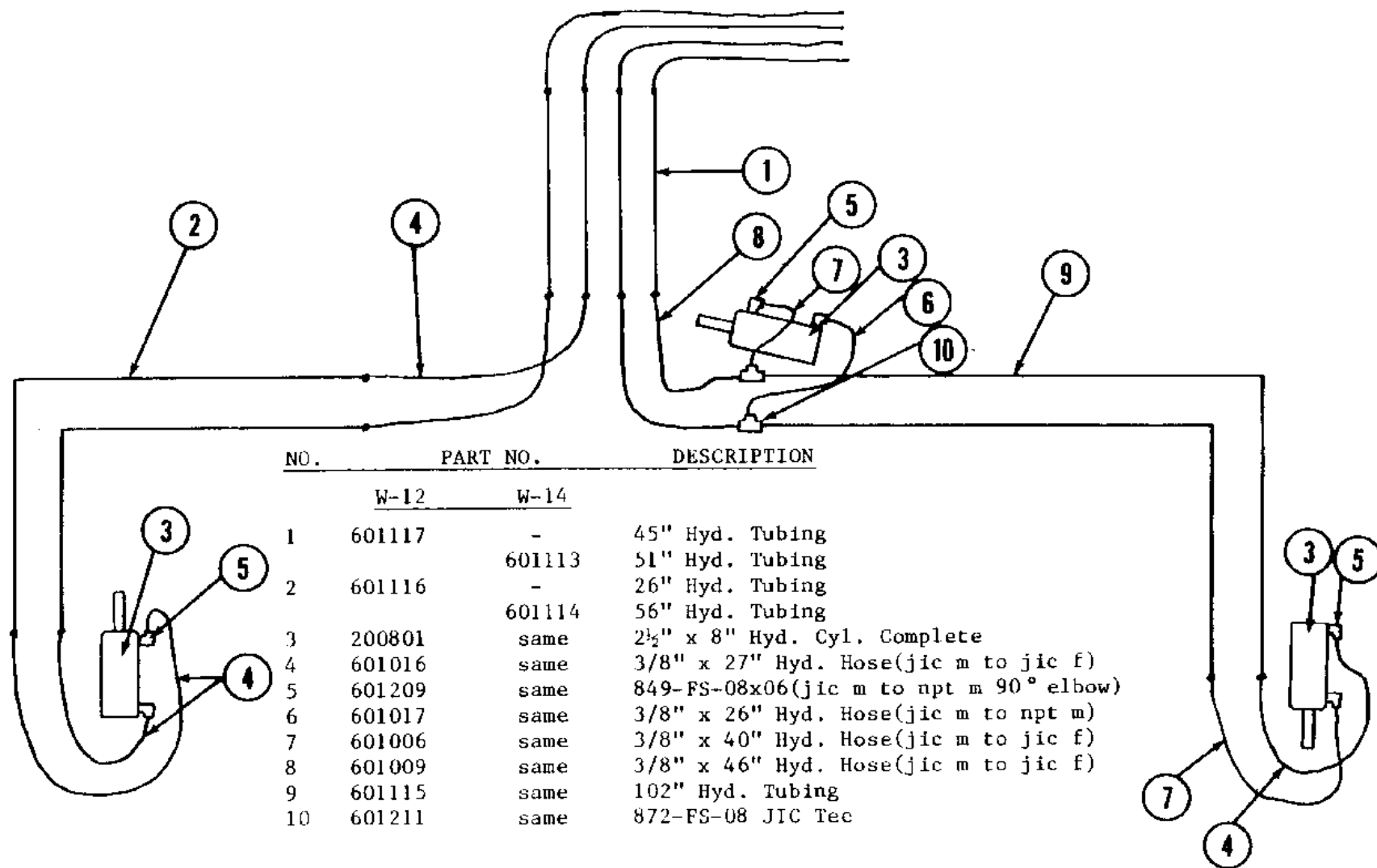
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6-BOLT

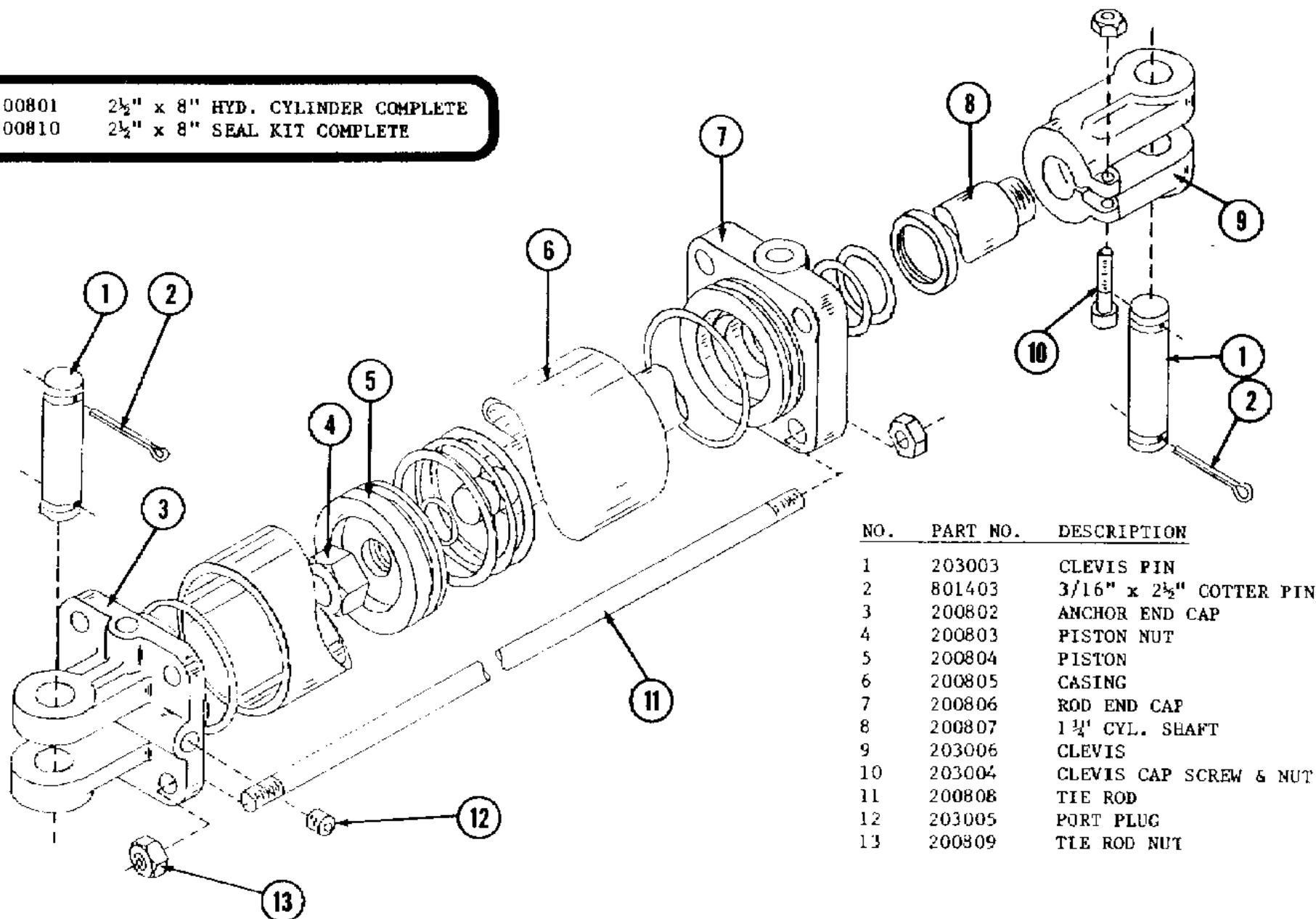


NO.	PART NO.	DESCRIPTION
1	301001	DC15 DUST CAP
2	301002	CASTELLATED NUT 1"- 14 UNS
3	301003	WA17 WASHER 1" I.D. x 2" O.D.
4	301004	LM48510 OUTER CUP
5	301005	LM48548 OUTER CONE
6	301006	WB12 WHEEL BOLT 9/16" - 18 UNF x 1 1/4"
7	301007	H614 HUB
8	301008	SE16 SPINDLE ONLY
9	301009	LM603012 INNER CUP
10	301010	LM603049 INNER CONE
11	301011	SE16 GREASE SEAL

HYDRAULIC LINE LAYOUT



200801 2½" x 8" HYD. CYLINDER COMPLETE
 200810 2½" x 8" SEAL KIT COMPLETE



NO.	PART NO.	DESCRIPTION
1	203003	CLEVIS PIN
2	801403	3/16" x 2½" COTTER PIN
3	200802	ANCHOR END CAP
4	200803	PISTON NUT
5	200804	PISTON
6	200805	CASING
7	200806	ROD END CAP
8	200807	1½" CYL. SHAFT
9	203006	CLEVIS
10	203004	CLEVIS CAP SCREW & NUT
11	200808	TIE ROD
12	203005	PORT PLUG
13	200809	TIE ROD NUT

ROUTINE MAINTENANCE

- PERIODICALLY CHECK AIR PRESSURE IN TIRES AS UNEQUAL PRESSURE WOULD MAKE IT PRACTICALLY IMPOSSIBLE TO LEVEL MACHINE PROPERLY.
- CHECK OIL IN GEAR BOX AND ADD #90 GEAR OIL IF NEEDED.
- CHECK WHEEL BOLTS FOR TIGHTNESS.
- CHECK ALL BOLTS FOR TIGHTNESS.
- CHECK HYD. HOSE AND TUBING CONNECTIONS.
- GREASE TELESCOPIC SHAFT REGULARLY TO MINIMIZE TRUST FORCES.
- CHECK CHAIN TIGHTENER.
- TIGHTEN ALL SET SCREWS.

SPECIFICATIONS

RAKING WIDTH - W-12.....	12'
W-14.....	14'
TRANSPORT WIDTH.....	7'
TIRES.....	(3) 11L x 15
CYLINDERS.....	(3) 2½" x 8"
CHAIN & SPROCKETS.....	# 100
PTO DRIVE.....	540 STD.
HYDRAULIC PRESSURE.....	2500 PSI
WEIGHT - W-12.....	2432 Ibs.
W-14.....	2932 Ibs.

DANGER

ANY PETOLEUM PRODUCT UNDER PRESSURE CAN INFILTRATE THE SKIN CAUSING SERIOUS AFTER EFFECTS. IF THIS SHOULD HAPPEN, APPLY COLD PACKS TO THE AFFECTED AREA AND SEE A DOCTOR IMMEDIATELY.