

ROCK - MASTER

W - 20

Operators Manual and Parts List

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

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.

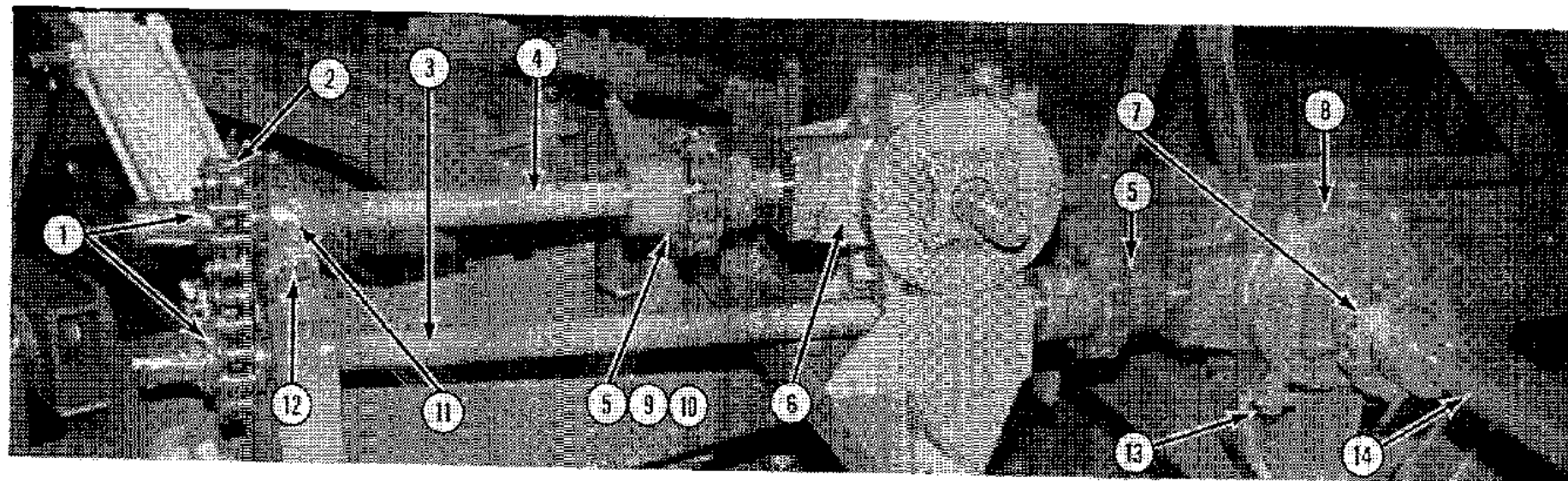
*Machines used for rental, custom work or industrial/construction use, will be warranted for a period of 6 months from date of purchase. Parts & labour.

*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.

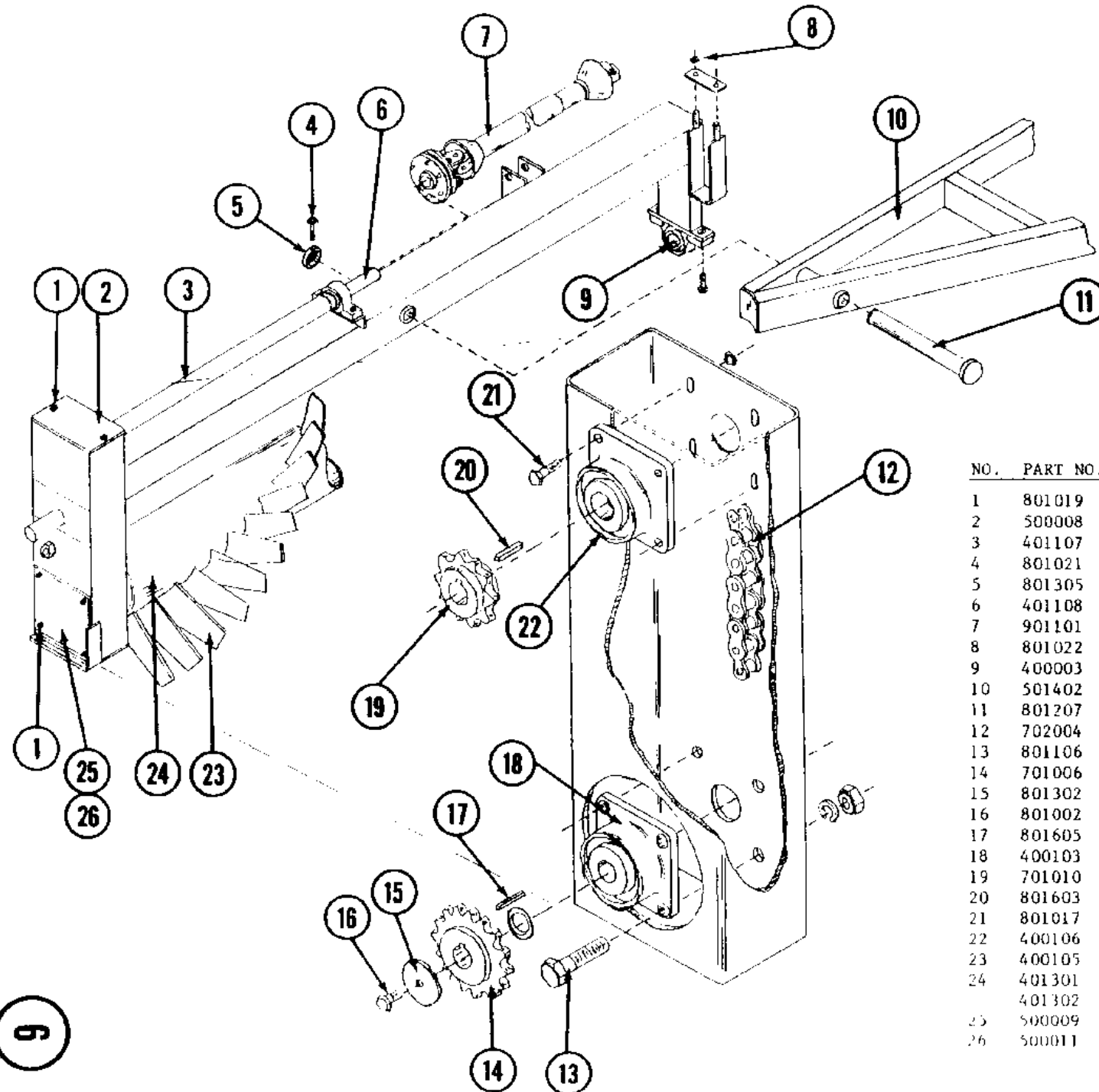
ROCK-MASTER



NO. PART NO. DESCRIPTION

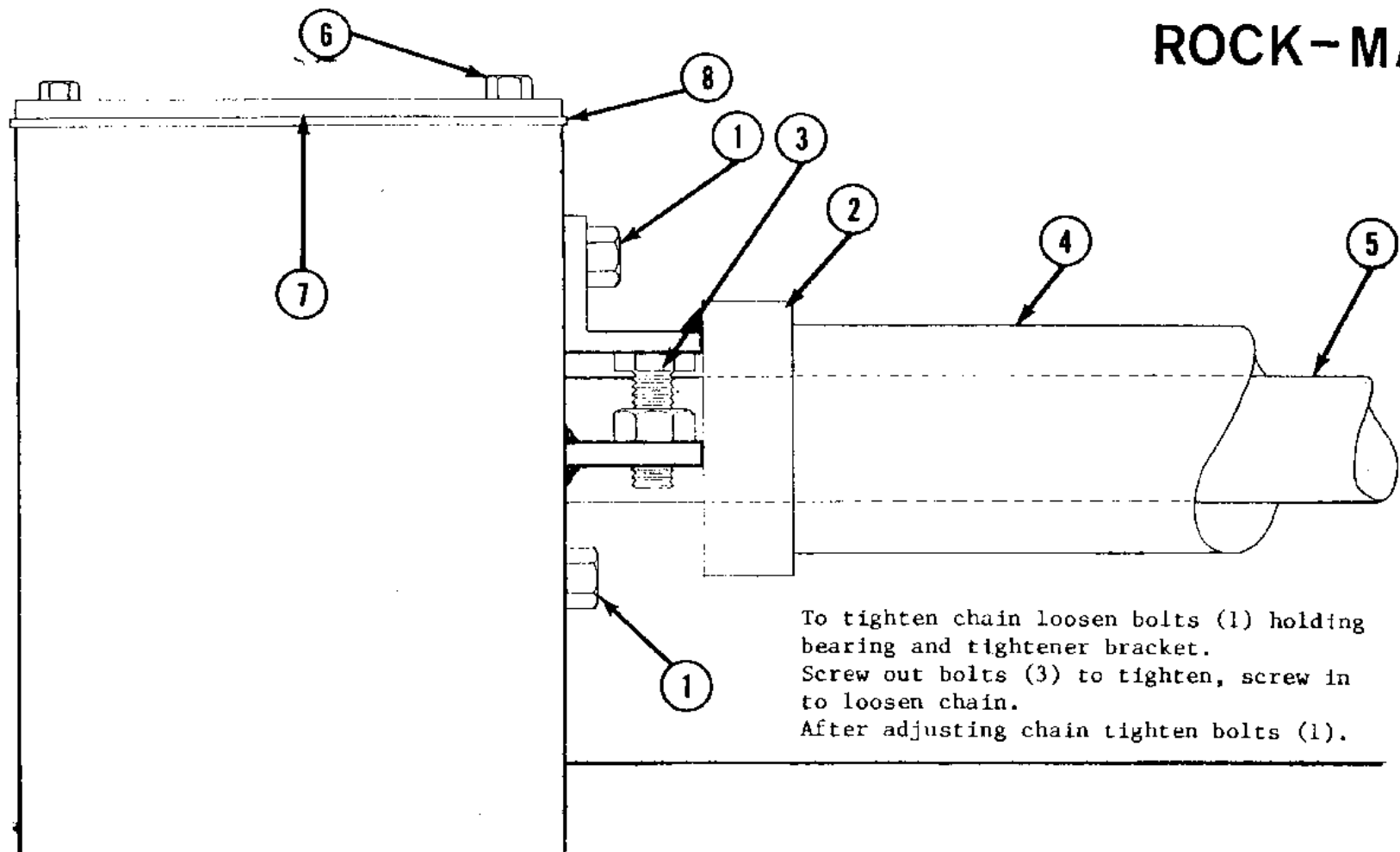
1	701001	80C11 SPROCKET	9	702009	COUPLER JOINING CHAIN
2	702008	#80 CHAIN X 10½ LINKS	10	701013	KEYED HALF ONLY
3	401109	1 3/8" X 35" SHAFT		701014	SPLINED HALF ONLY
4	401110	1 3/8" X 18½" SHAFT	11	400001	1 3/8" PILLOW BLOCK BEARING
5	701011	SHAFT COUPLER COMPLETE KEY TO KEY	12	801024	½" X 4" UNC BOLT W/NUT
6	101101	DOUBLE DRIVE GEARBOX COMPLETE	13	801023	M12 X 30 BOLT METRIC
7	701012	SHAFT COUPLER COMPLETE KEY TO SPLINE	14	401111	1 3/8" X 34½" SHAFT
8	101101	DOUBLE DRIVE GEARBOX COMPLETE			

ROCK-MASTER



NO.	PART NO.	DESCRIPTION
1	801019	5/16" x 3/4" UNC BOLT
2	500008	TOP CASE COVER
3	401107	SHAFT SHIELD
4	801021	1/2" x 3 1/2" UNC BOLT W/NUT
5	801305	WING SHAFT COLLAR
6	401108	1 3/8" x 48 1/2" SHAFT
7	901101	M4558 PTO SHAFT COMPLETE
8	801022	5/8" UNC NUT
9	400003	2" PILLOW BLOCK ASSY.
10	501402	WING A-FRAME
11	801207	2" x 17 3/4" WING SHAFT W/COLLAR & BOLT
12	702004	#100 CHAIN x 46 1/2" LINKS
13	801106	5/8" x 2" UNF BOLT W/NUT
14	701006	100C14 SPROCKET
15	801302	1/2" x 3 1/8" WASHER
16	801002	1/2" x 1" UNC BOLT
17	801605	1/2" x 2" KEY
18	400103	2" FLANGE BEARING COMPLETE
19	701010	100C9 SPROCKET
20	801603	5/16" x 2 1/2" KEY
21	801017	1/2" x 2 1/2" UNC BOLT W/NUT
22	400106	1 3/8" FLANGE BEARING COMPLETE
23	400105	DRUM TOOTH
24	401301	R.H. WING DRUM COMPLETE
	401302	L.H. WING DRUM COMPLETE
25	500009	SIDE CASE COVER
26	500011	SIDE CASE COVER GASKET

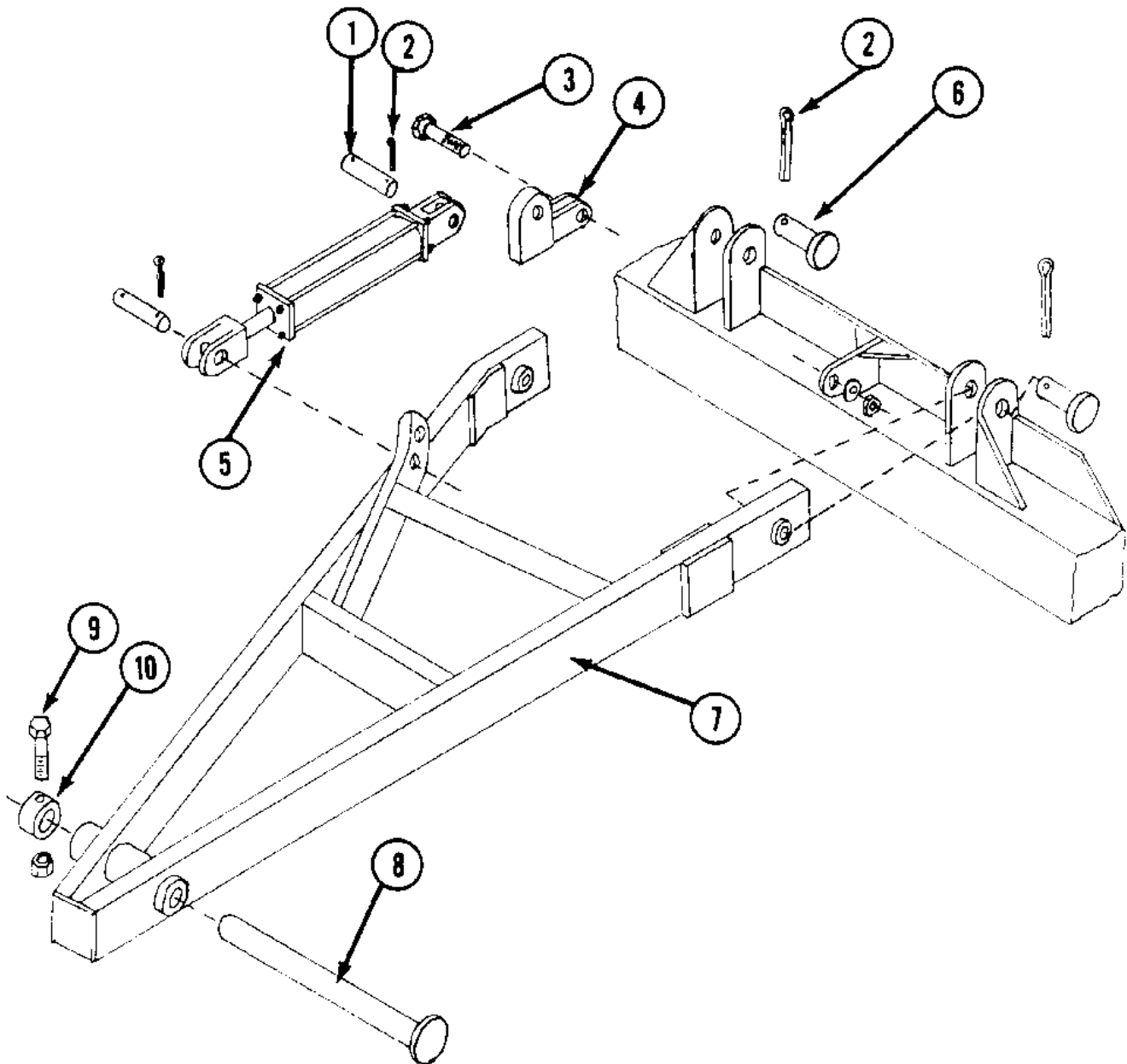
ROCK-MASTER



To tighten chain loosen bolts (1) holding bearing and tightener bracket.
Screw out bolts (3) to tighten, screw in to loosen chain.
After adjusting chain tighten bolts (1).

NO.	PART NO.	DESCRIPTION
1	801017	$\frac{1}{2}$ " x $2\frac{1}{2}$ " BOLT UNC W/ NUT
2	401106	TIGHTENER BRACKET & SHIELD HOLDER
3	801018	$\frac{1}{2}$ " x $1\frac{1}{2}$ " UNC BOLT
4	401107	SHAFT SHIELD
5	401108	1 $\frac{3}{8}$ " x $48\frac{1}{2}$ " SHAFT
6	801019	$\frac{5}{16}$ " x $\frac{3}{4}$ " UNC BOLT
7	500008	TOP CASE COVER
8	500010	TOP CASE GASKET

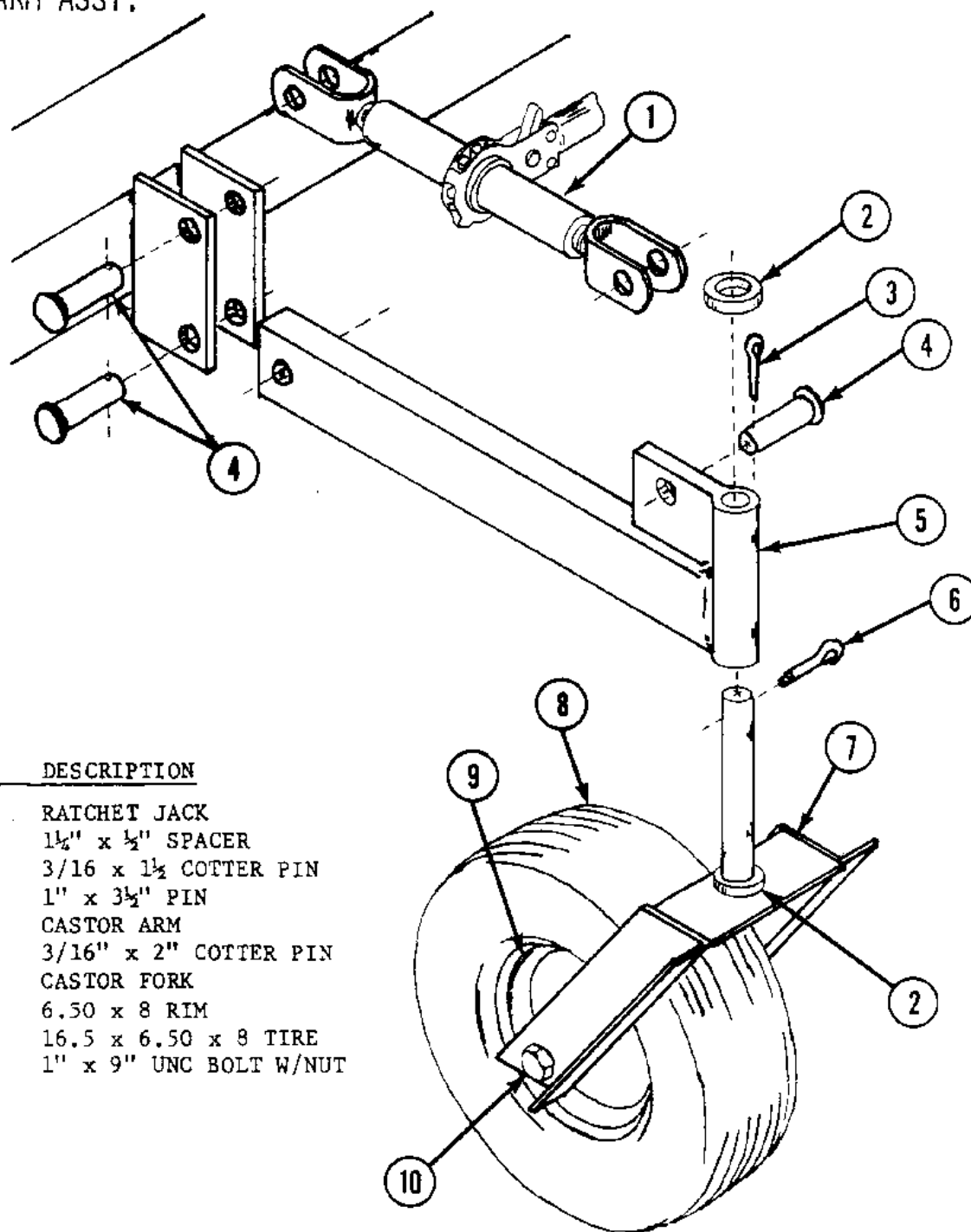
ROCK-MASTER



NO.	PART NO.	DESCRIPTION
1	203003	CLEVIS PIN
2	801403	3/16" x 2½" COTTER PIN
3	801020	5/8" x 2" UNC BOLT W/NUT
4	501401	HYDRAULIC BRACKET
5	201001	3" x 10" HYD. CYL. COMPLETE
6	801206	1 3/4" x 4" PIN
7	501402	WING A-FRAME
8	801207	2" x 17 3/4" WING SHAFT W/COLLAR & BOLT
9	801021	½" x 3½" UNC BOLT W/NUT
10	801305	WING SHAFT COLLAR

ROCK-MASTER

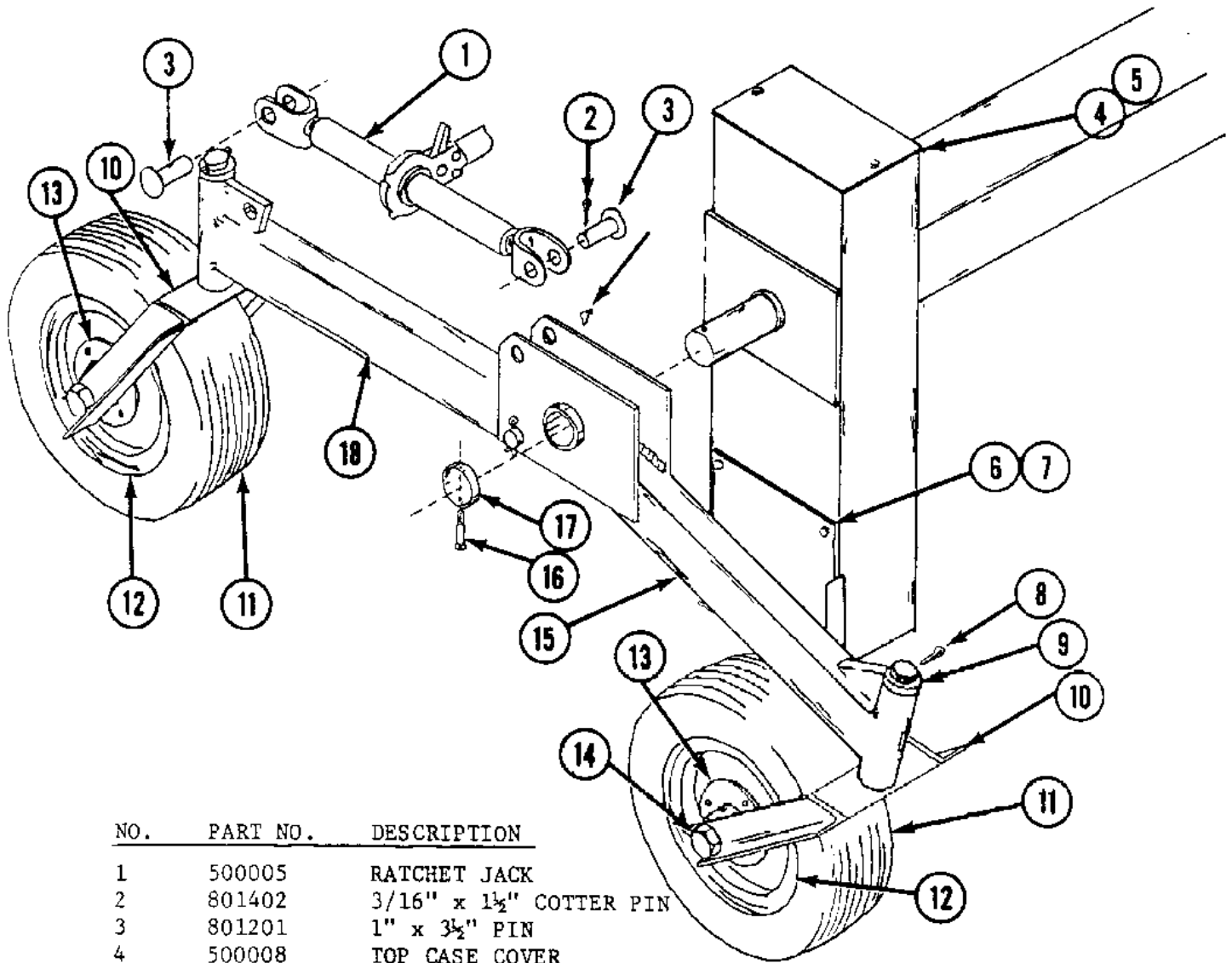
CASTOR & ARM ASSY.



NO.	PART NO.	DESCRIPTION
1	500005	RATCHET JACK
2	801304	1½" x ½" SPACER
3	801402	3/16 x 1½ COTTER PIN
4	801201	1" x 3½" PIN
5	500006	CASTOR ARM
6	801401	3/16" x 2" COTTER PIN
7	500007	CASTOR FORK
8	301201	6.50 x 8 RIM
9	301202	16.5 x 6.50 x 8 TIRE
10	801011	1" x 9" UNC BOLT W/NUT

ROCK-MASTER

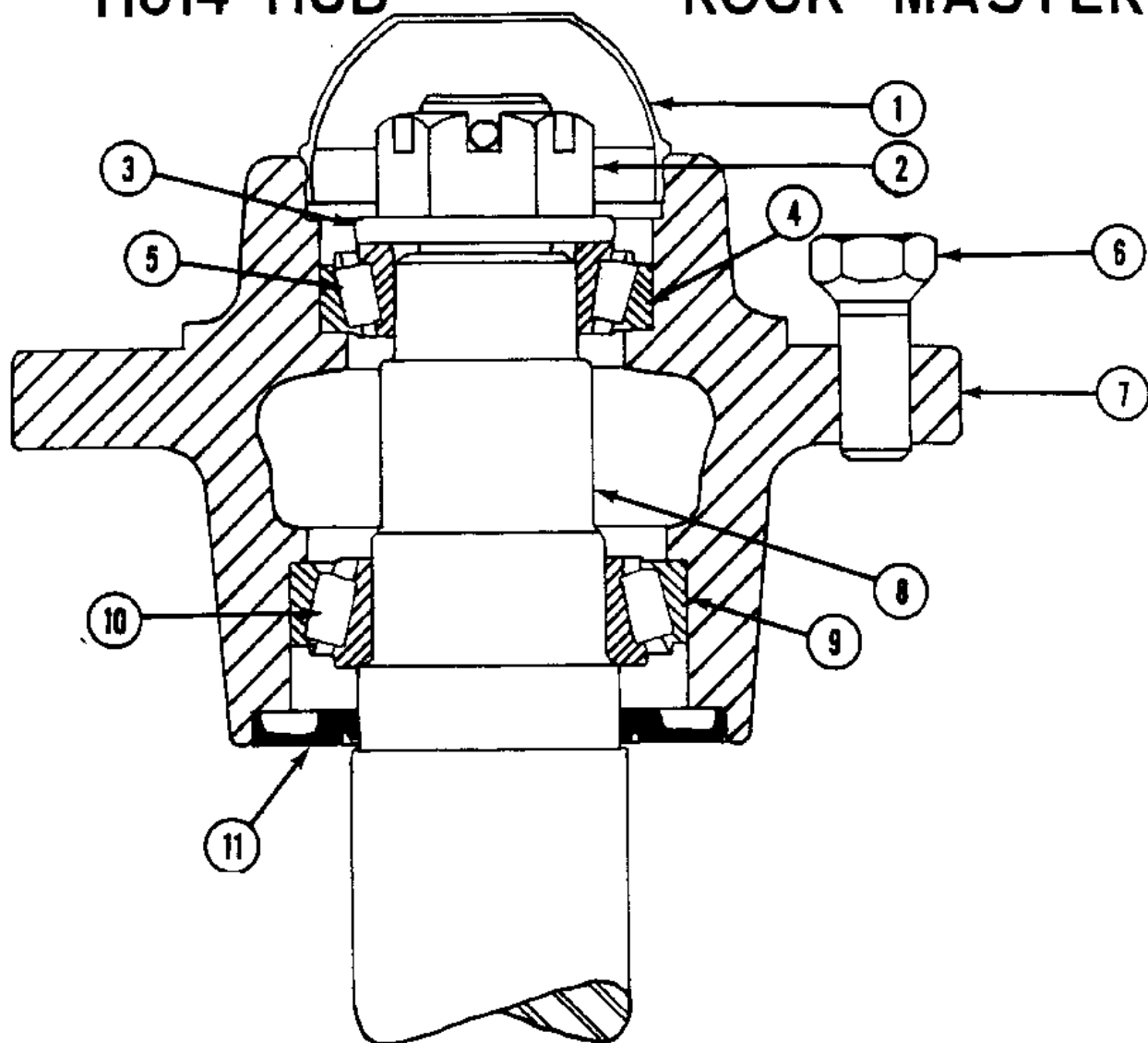
OSCILLATING DUAL CASTOR ASSY.



NO.	PART NO.	DESCRIPTION
1	500005	RATCHET JACK
2	801402	3/16" x 1 1/2" COTTER PIN
3	801201	1" x 3 1/2" PIN
4	500008	TOP CASE COVER
5	500010	TOP CASE GASKET
6	500009	SIDE CASE COVER
7	500011	SIDE CASE GASKET
8	801401	3/16" x 2" COTTER PIN
9	801304	1 1/4" x 1/2" SPACER WASHER
10	500007	CASTOR FORK
11	301202	16.5 x 6.50 x 8 TIRE
12	301201	6.50 x 8 RIM
13	301203	4-HOLE HUB
14	801011	1" x 9" UNC BOLT COMPLETE
15	500012	OSCILLATING FIXED ARM
16	801012	3/8" x 3 1/2" UNC BOLT COMPLETE
17	500013	PIN COLLAR
18	500006	CASTOR ARM
19	801701	1/8" GREASE NIPPLE

H614 HUB

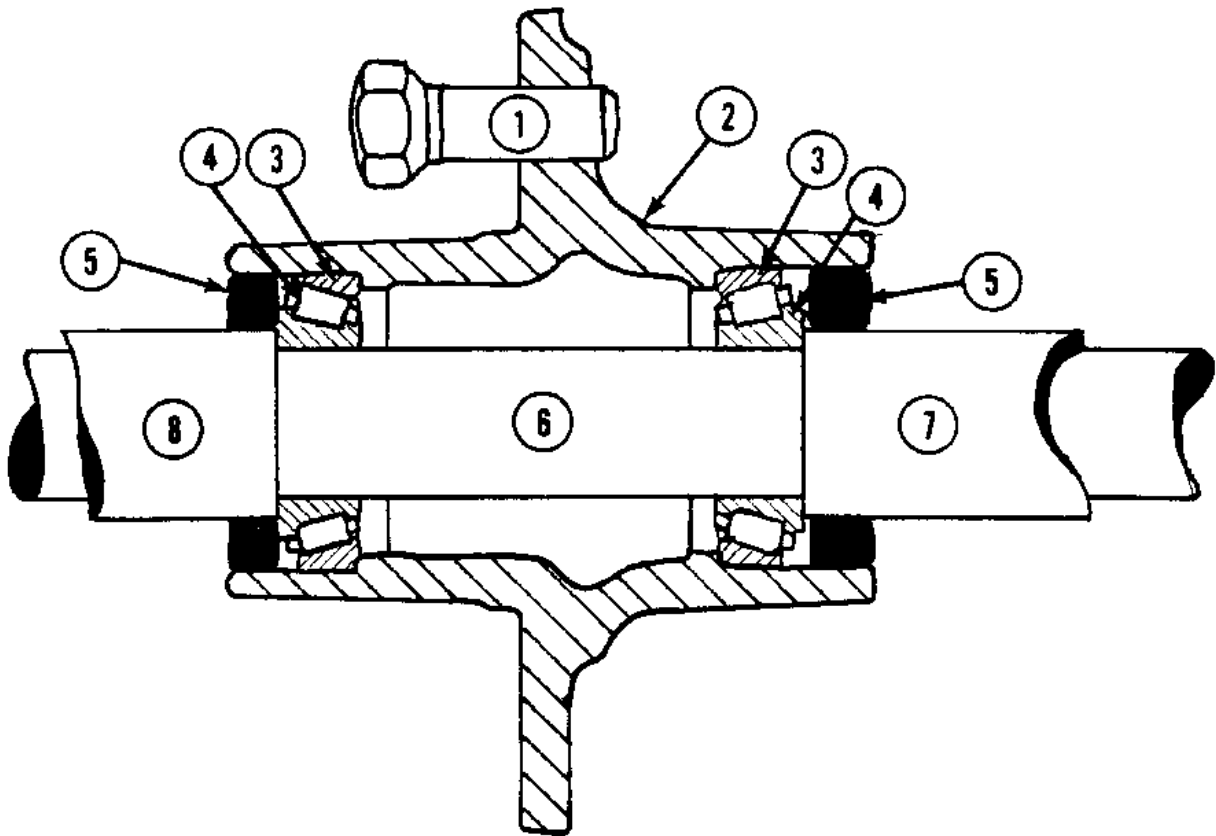
ROCK-MASTER



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 1½"
7	301007	H614 HUB
8	301008	SE16 SPINDLE ONLY
9	301009	LM603012 INNER CUP
10	301010	LM603049 INNER CONE
11	301011	SE16 GREASE SEAL

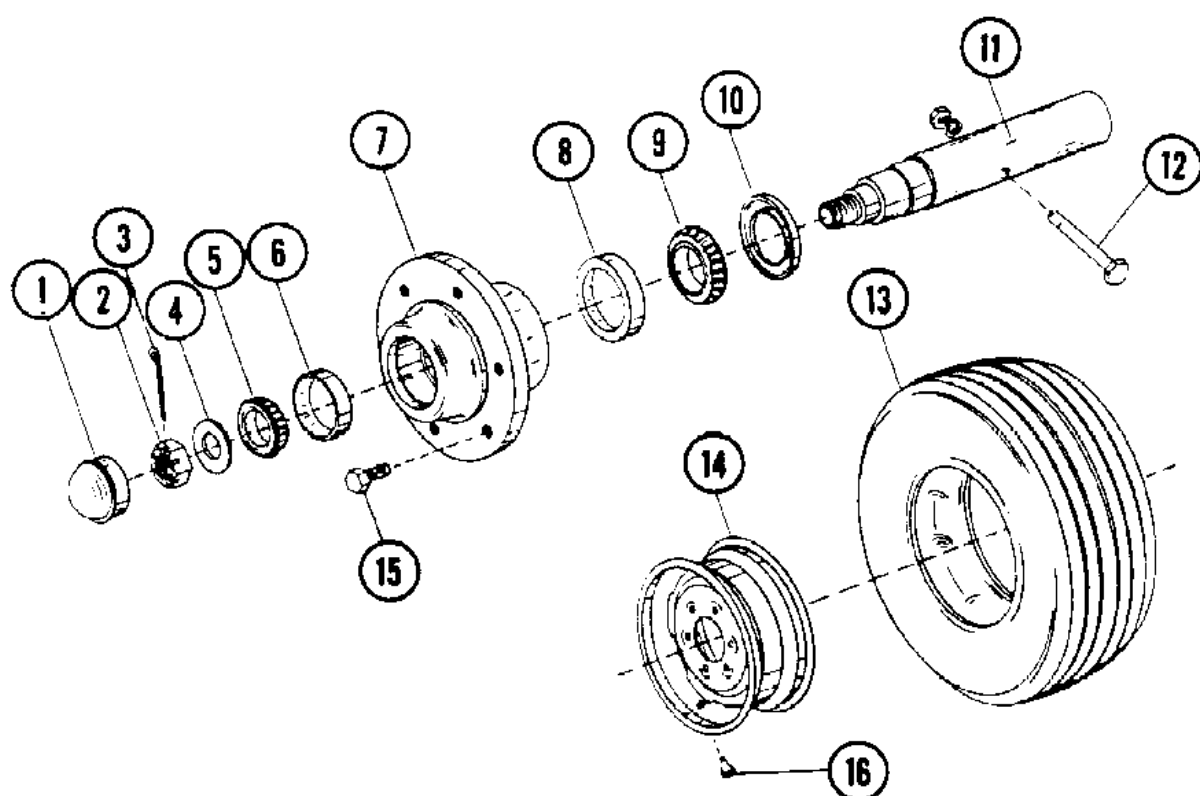
ROCK-MASTER

HD211



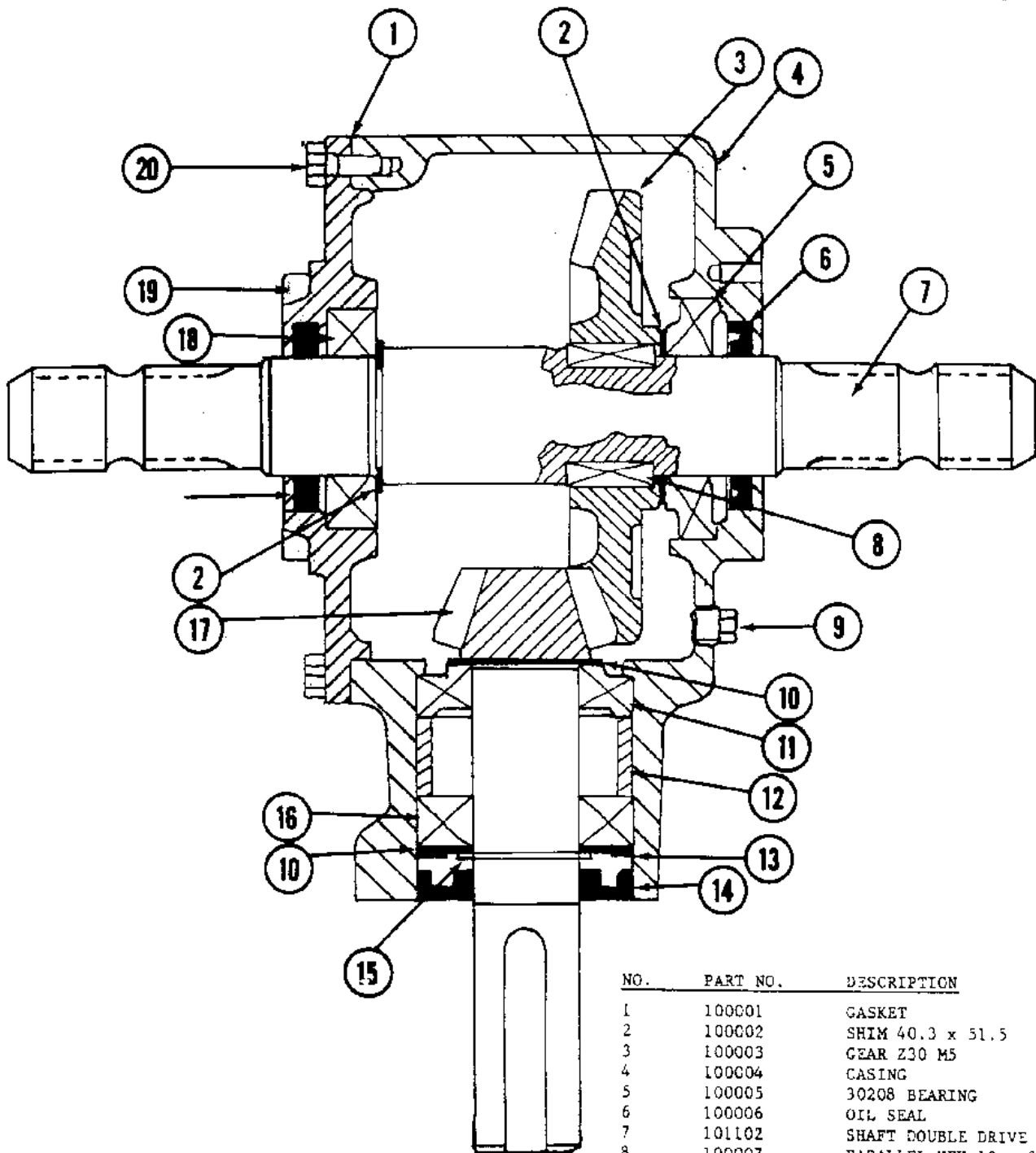
NO.	PART NO.	DESCRIPTION
1	301204	WB10 $\frac{1}{2}$ "-20 UNF $\times$ $1\frac{1}{4}$ " WHEEL BOLT
2	301203	HD211 4-BOLT WHEEL HUB ONLY
3	301205	L44610 CUP
4	301206	L44643 CONE
5	301207	SE10 GREASE SEAL
6	801011	1" $\times$ 9" UNC BOLT W/NUT
7	301208	1" I.D. $\times$ 2" L SPACER
8	301209	1" I.D. $\times$ $1\frac{1}{2}$ " L SPACER

ROCK-MASTER



NO.	PART NO.	DESCRIPTION
1	301001	DC15 DUST CAP
2	301002	1"-14 UNS CASTELLATED NUT
3	801402	3/16" x 1½" COTTER PIN
4	301003	WA17 WASHER 1" I.D. x 2" O.D.
5	301005	LM48548 BEARING
6	301004	LM48510 RACE
7	301007	H614 HUB
8	301009	LM603012 RACE
9	301010	LM603049 BEARING
10	301011	SE16 SEAL
11	301008	SE16 SPINDLE
12	801111	½" x 3½" UNF BOLT W/NUT
13	301013	11L x 15 TIRE
14	301014	11:00 x 15-6 HOLE RIM
15	301006	WB12 WHEEL BOLT 9/16"-18 UNF x 1¼"
16	301015	VALVE STEM

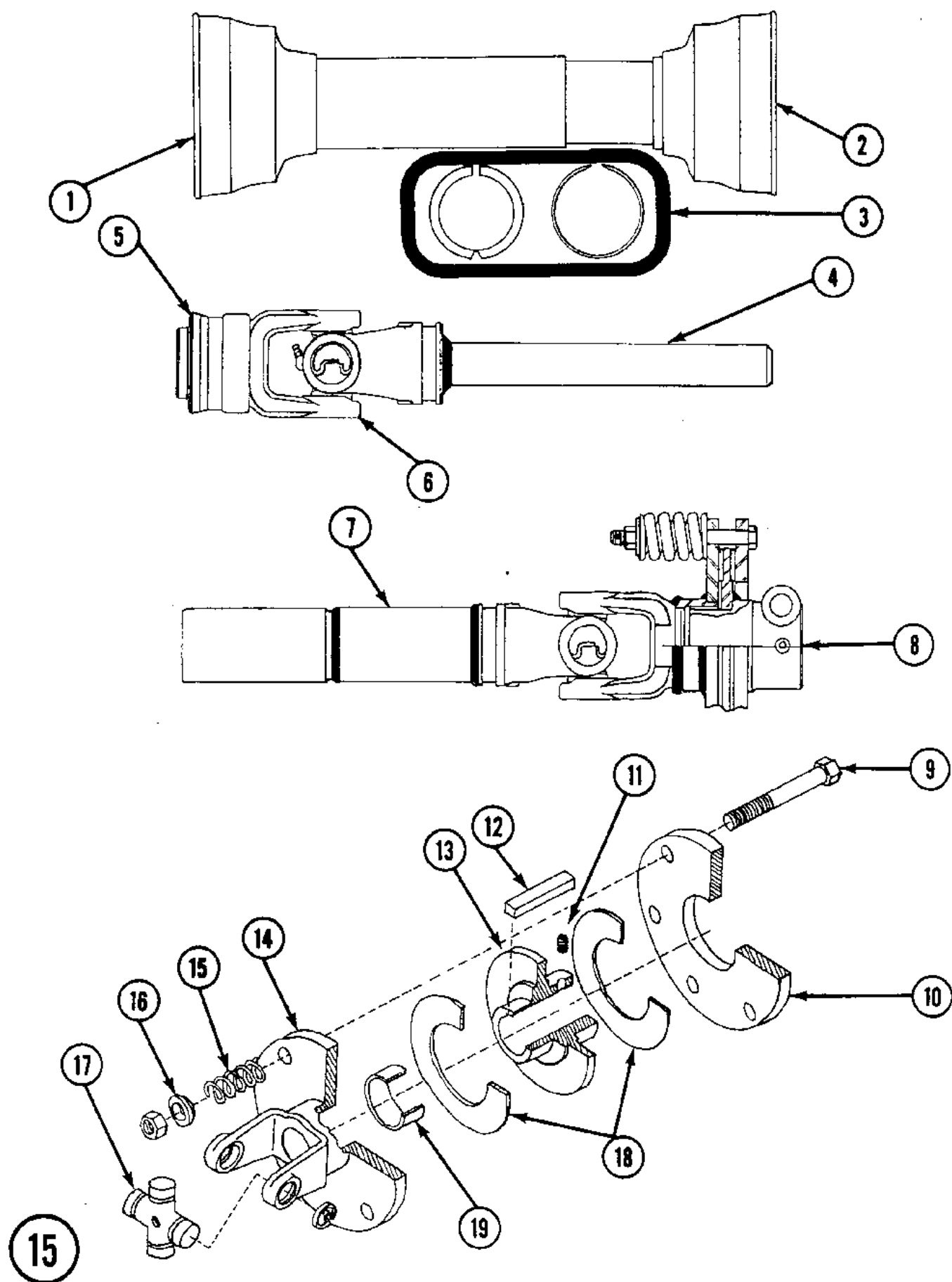
ROCK-MASTER



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	101102	SHAFT DOUBLE DRIVE SPLINED
8	100007	PARALLEL KEY 10 x 8 x 30
9	100008	W' PLUG
10	100009	SHIM 35.3 x 48
11	100010	30207 BEARING
12	100011	SPACER
13	100012	SNAP RING 72 UN17437
14	100013	OIL SEAL
15	100014	SNAP RING 35 IN17435
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 5.8
	101101	DOUBLE DRIVE GEAR BOX COMPLETE

M4559 PTO SHAFT

ROCK-MASTER

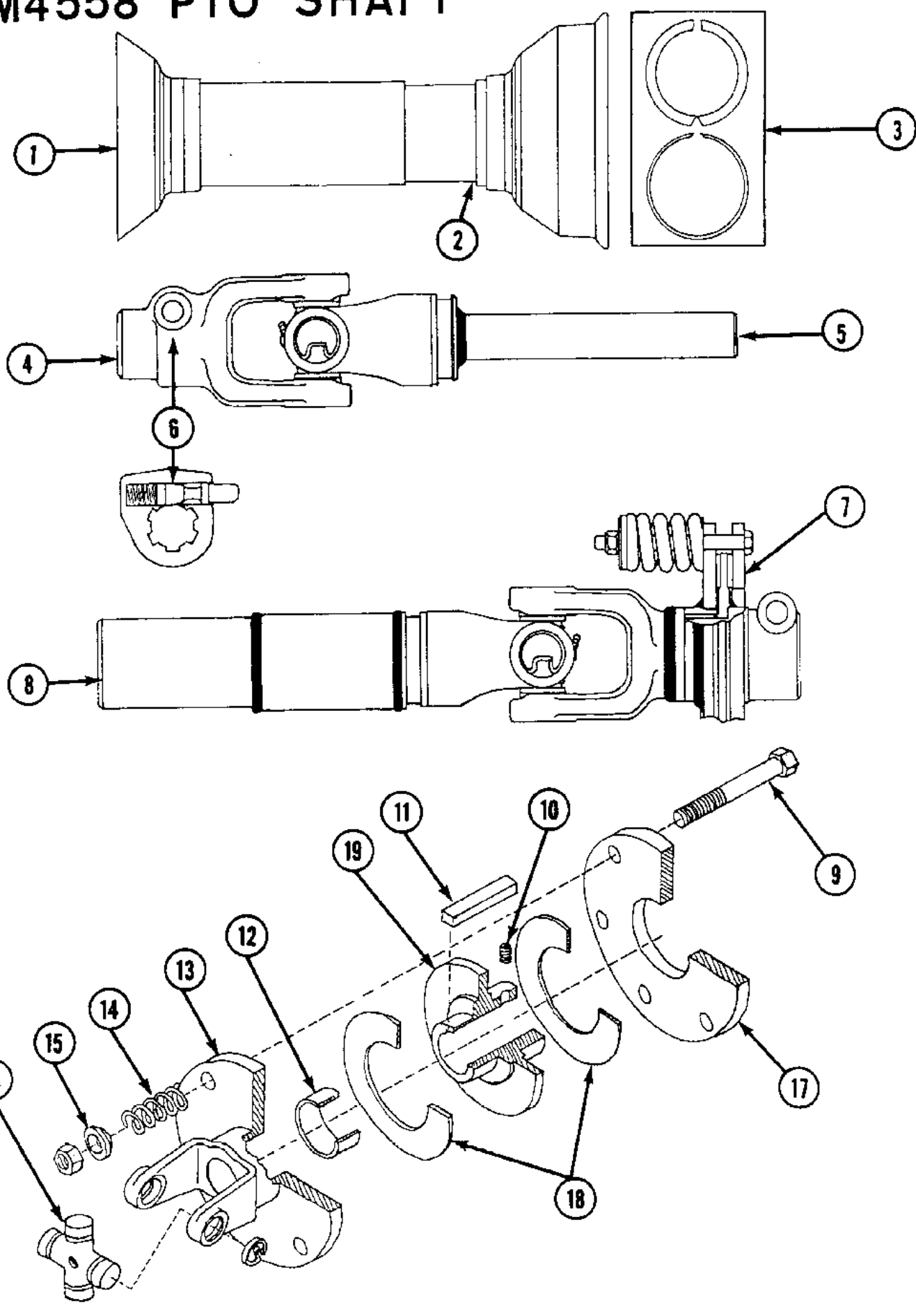


ROCK-MASTER

<u>NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
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	14R 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 INSTUCTIONS

- 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 YOUSELF), 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 LENGHT.
CAUTION ! IF ATTEMPT IS MADE TO TIGHTEN THE SPRING BEYOND THE PRESET LENGHT, THE BOLT MAY BREAK AND THE SPRING WILL THE FASTENER FLY OFF.

ROCK-MASTER

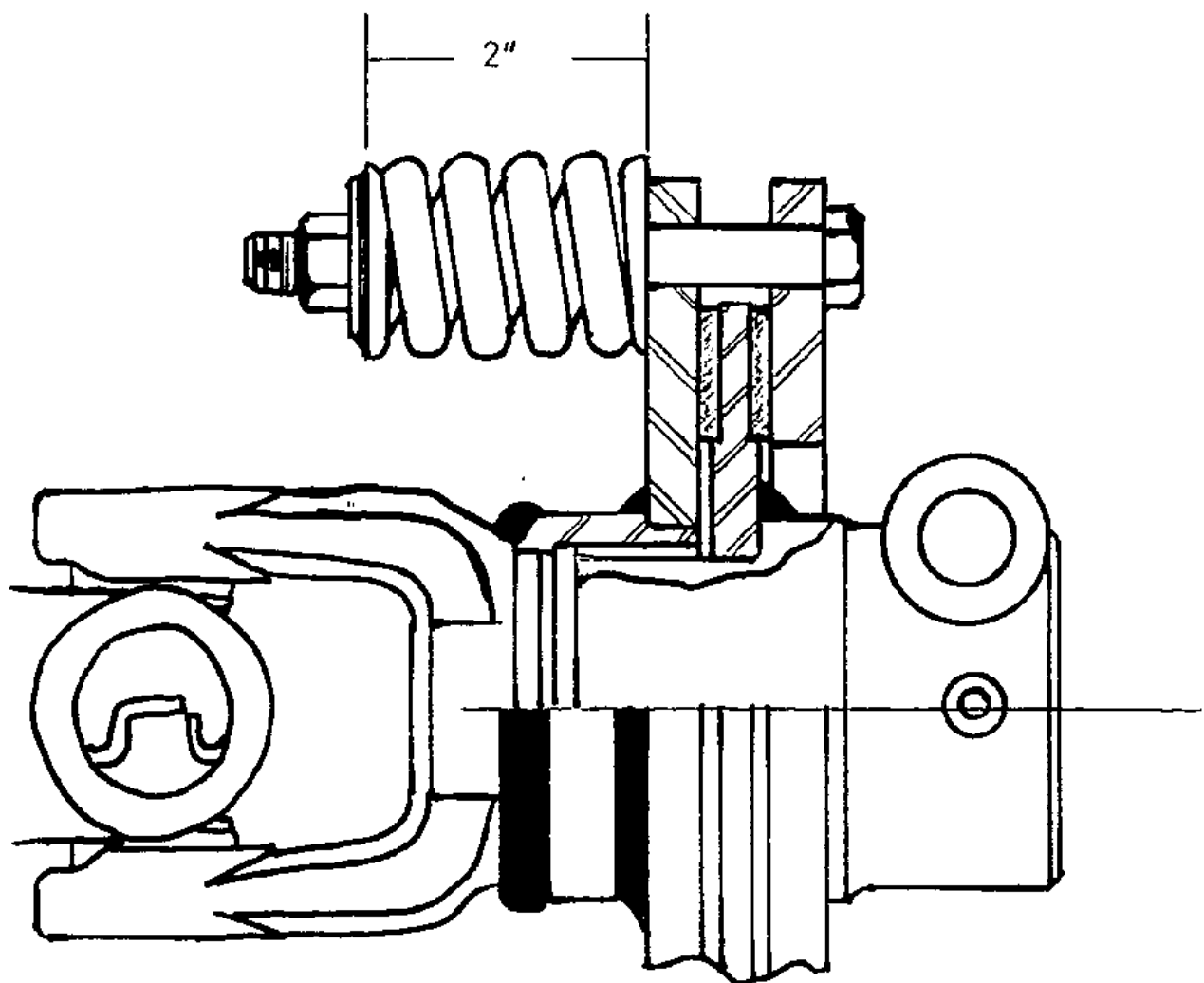
"6000 CLUTCH"

(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,



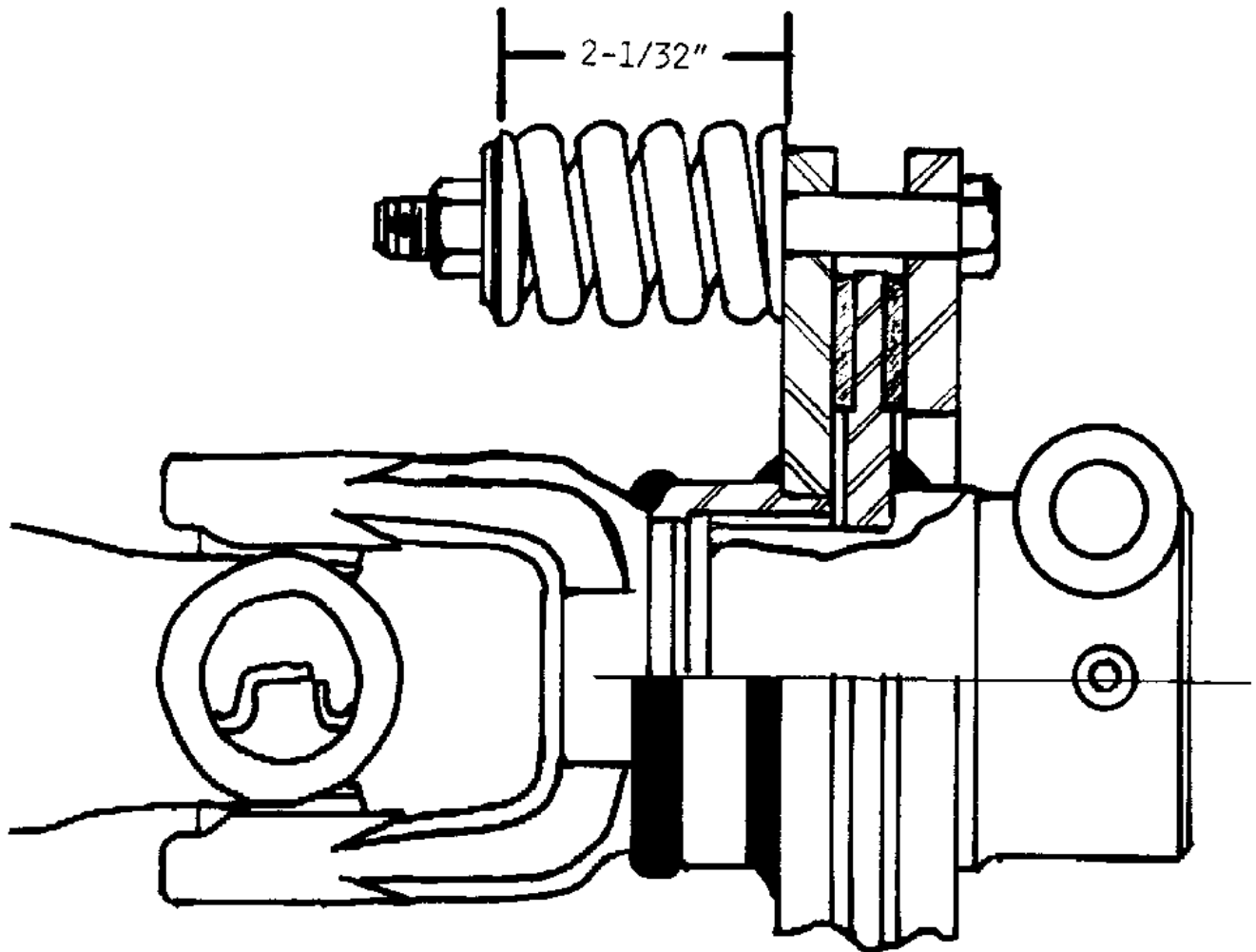
ROCK-MASTER

"9000 CLUTCH"

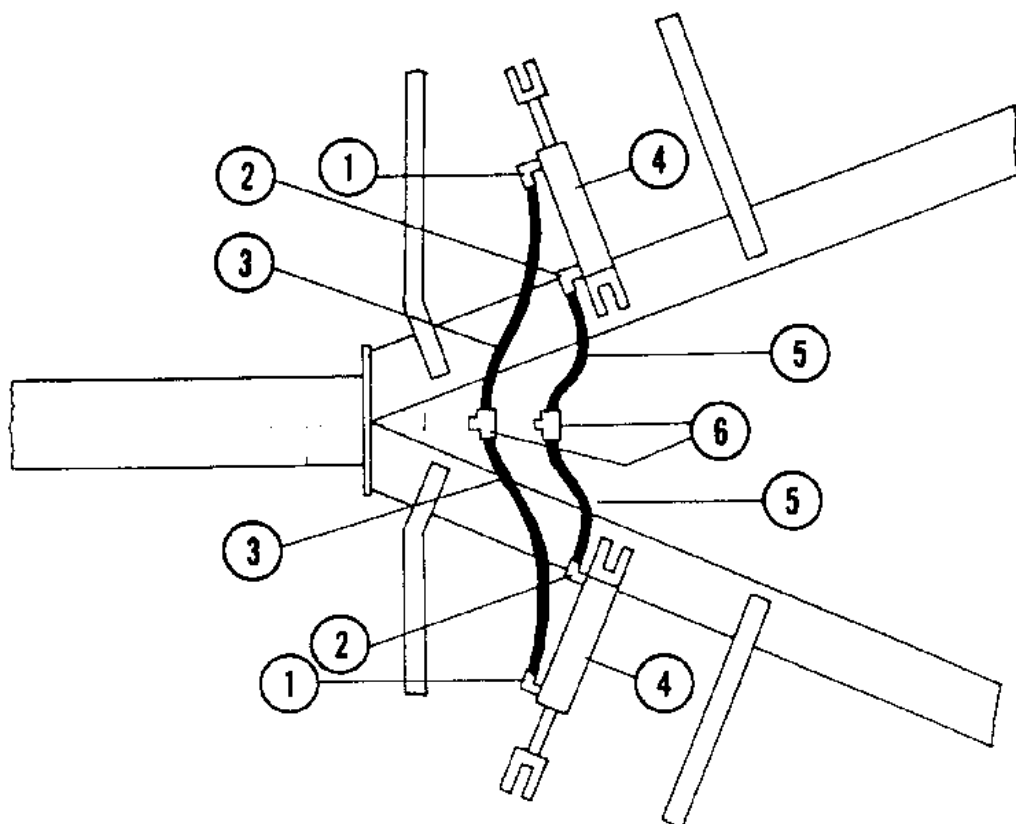
STORAGE (SECONDARY DRIVE LINE PTO ON RW-5 AND W-14, W-20)

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.



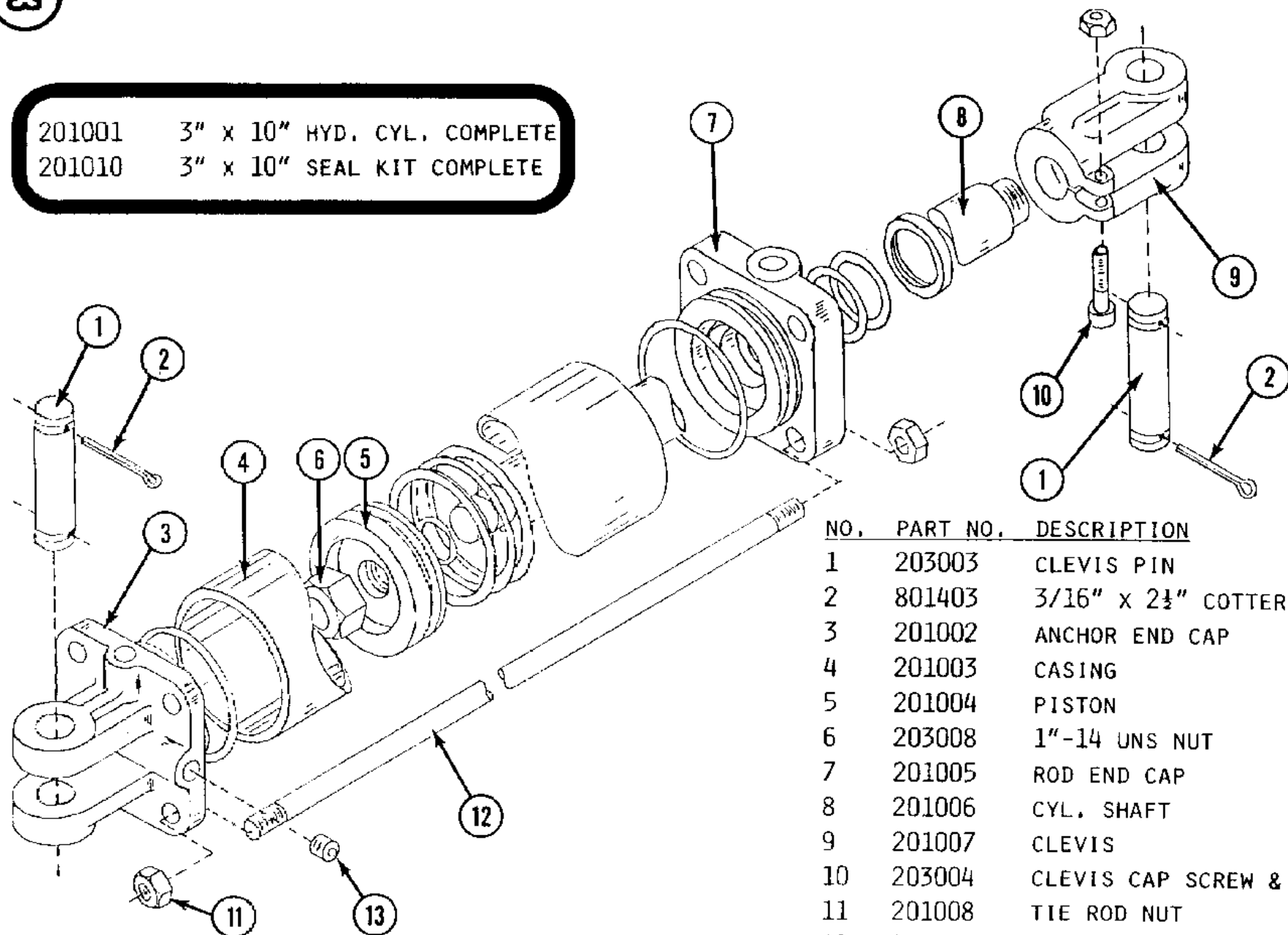
ROCK-MASTER



NO.	PART NO.	DESCRIPTION
1	601203	1/2" NPT x 1/2" NPT 90 Deg. SWIVEL
2	601220	3/8" NPT x 3/8" NPT 90 Deg. SWIVEL RESTRICTOR
	601219	1/2" x 3/8" REDUCING BUSHING
3	601020	3/8" x 30" HYD. HOSE
4	201001	3" x 10" HYD. CYL.
5	601021	3/8" x 30" HYD. HOSE
6	601208	872-FS-08 3/4" JIC TEE

201001 3" x 10" HYD. CYL. COMPLETE

201010 3" x 10" SEAL KIT COMPLETE



NO.	PART NO.	DESCRIPTION
1	203003	CLEVIS PIN
2	801403	3/16" x 2 1/2" COTTER PIN
3	201002	ANCHOR END CAP
4	201003	CASING
5	201004	PISTON
6	203008	1"-14 UNS NUT
7	201005	ROD END CAP
8	201006	CYL. SHAFT
9	201007	CLEVIS
10	203004	CLEVIS CAP SCREW & NUT
11	201008	TIE ROD NUT
12	201009	TIE ROD
13	203005	PORT PLUG

ROUTINE MAINTENANCE

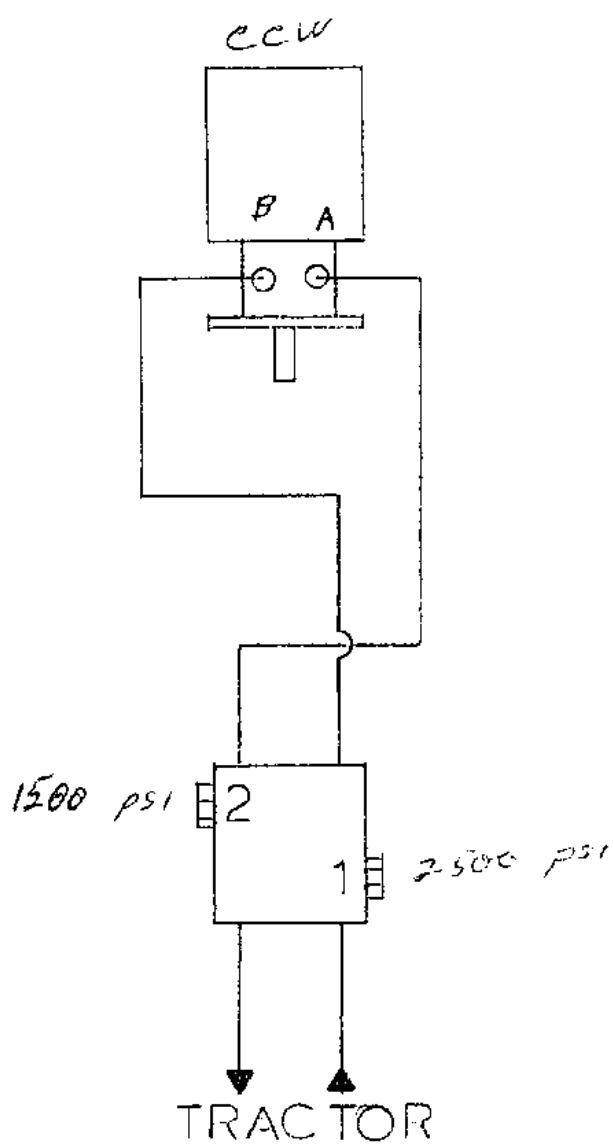
- PERIODICALLY CHECK AIR PRESSURE IN TIRES AS UNEQUAL PRESSURE WOULD MAKE IT PRACTICALLY IMPOSSIBLE TO LEVEL MACHINE PROPERLY.
- CHECK OIL IN GEAR BOX AND ADD #90 GEAR OIL IF NEEDED.
- CHECK WHEEL BOLTS FOR TIGHTNESS.
- CHECK ALL BOLTS FOR TIGHTNESS.
- CHECK HYD. HOSE AND TUBING CONNECTIONS.
- GREASE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

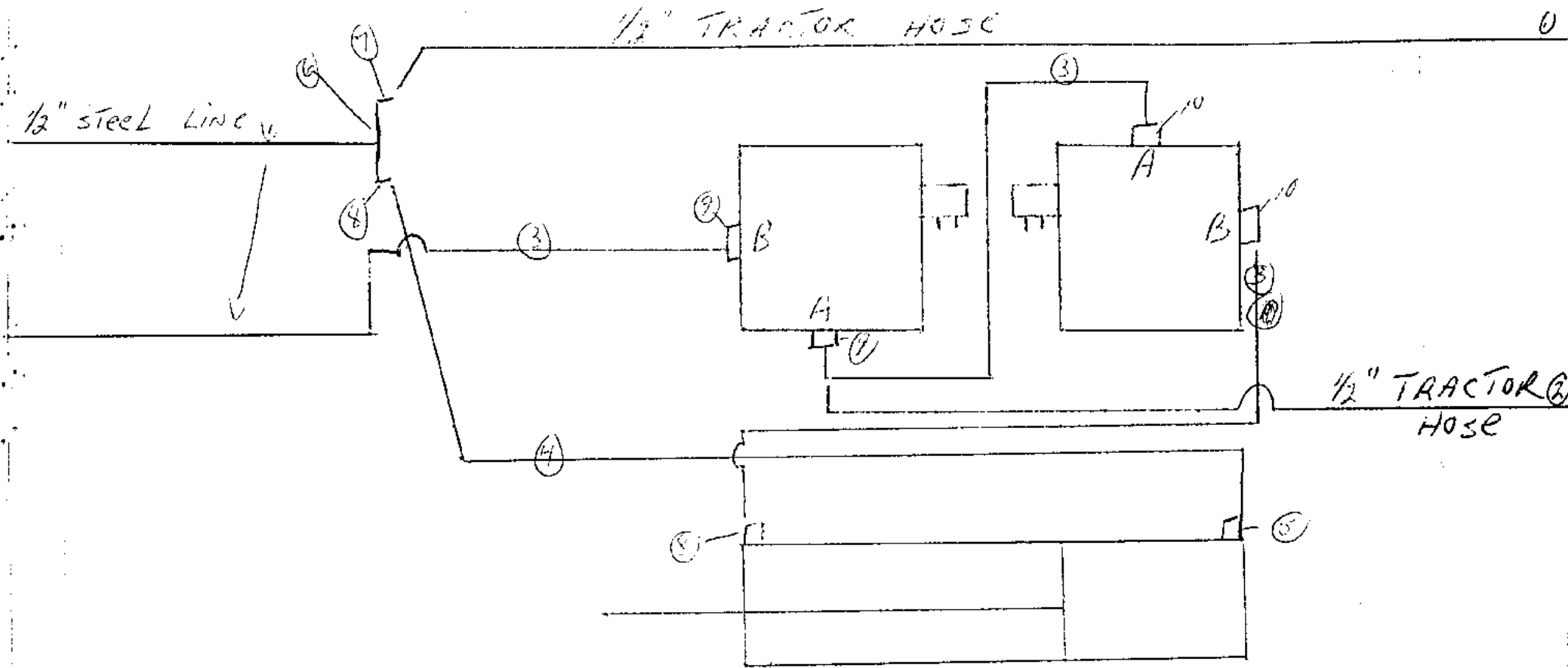
SPECIFICATIONS

RAKING WIDTH.....	20'
TIRES.....	11L x 15 16.5 x 6.50 x 8
CYLINDERS.....	3" x 10"
CHAIN & SPROCKETS.....	#100
PTO DRIVE.....	540 STD.
HYDRAULIC PRESSURE.....	2500 PSI.
WEIGHT.....	3208 lbs.

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.





- ① 1/2" x 104" x 1/2 NPT x NPT
- ② 1/2" x 104" x 1/2 NPT x 7/8 SIC FEMALE
- ③ 2 - 3/8" x 16" - 7/8 SIC FEMALE x 3/8 NPT MALE
- ④ 3/8 x 24 - 7/8 SIC FEMALE x 3/8 NPT MALE
- ⑤ 601220
- ⑥ 1/2" TEE
- ⑦ 1/2 STREET ELBOW
- ⑧ 601207
- ⑨ 849 FS 12 x 12 w/ 883 FS 12 x 12 + 830 FS 12
- ⑩ 604B - 06 x 06