M O D E L 6 0 S C R A P E R

HOW TO ORDER PARTS:

IMPORTANT

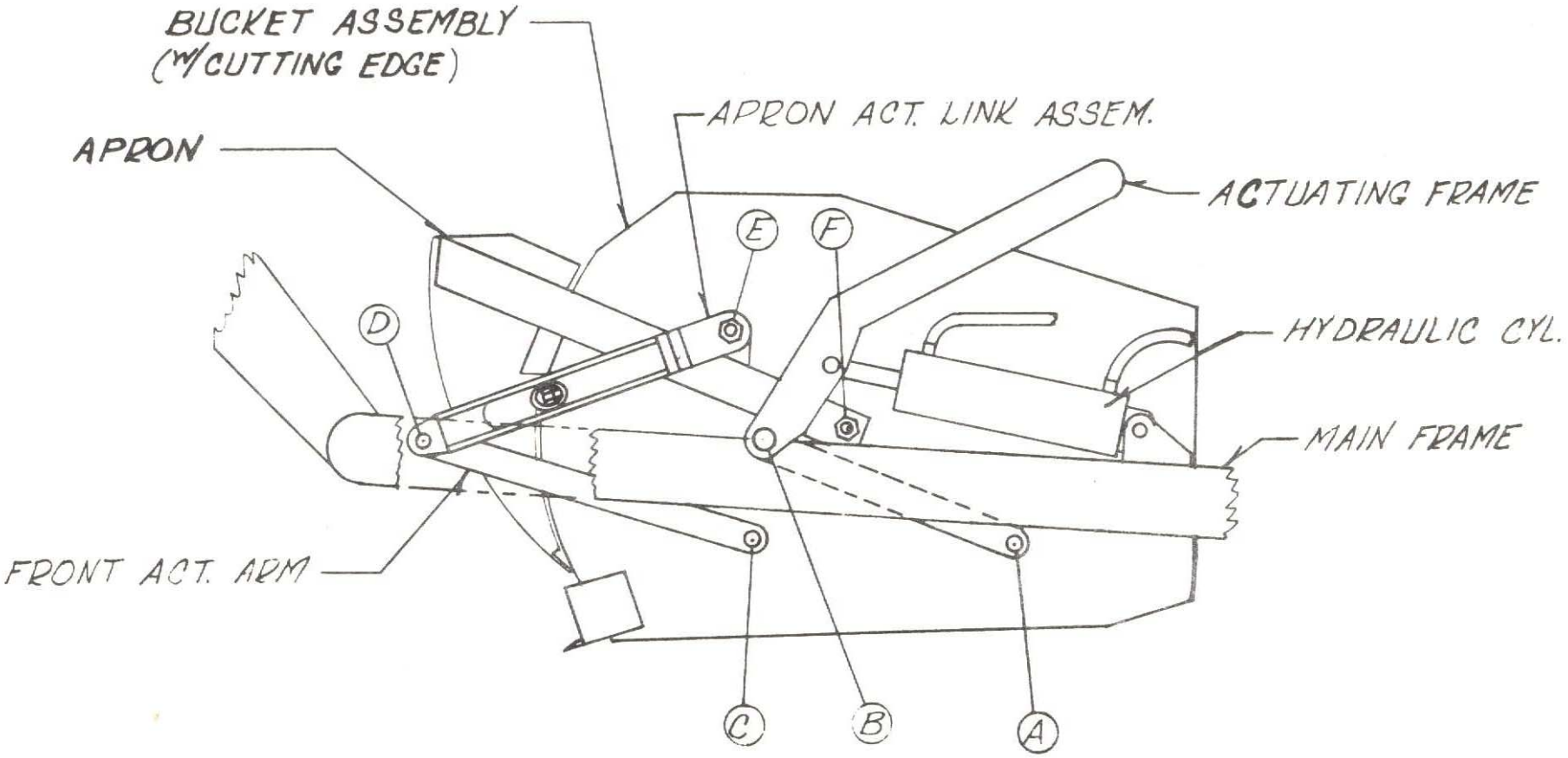
Be sure to state MODEL and SERIAL NO. of machine, PART NO., DESCRIPTION and QUANTITY needed.

Unless this is done, we cannot provide prompt service or assure shipment of correct parts.

I N D E X

PAGE NO.

ILLUSTRATION - ASSEMBLY



ASSEMBLY INSTRUCTIONS FOR MODEL 60 SCRAPER
(Refer to illustration on page 1)

1. A suitable hoist or lift should be available for assembly.

2. Pack wheel bearings with grease and install hubs to rear spindles and to front axle assembly on model 60D scrapers.

3. Install rear spindles to frame in lowest possible setting to obtain the maximum spreading depth between cutting edge and ground. If less depth of spread is desired, select a lower setting or reverse the spindle - bottom-to-top.

(Steps 4 and 5 refer to model 60D scrapers only)

4. Raise the front of the frame and remove the two 5/8 x 3½ bolts which hold the cast socket halves inside the gooseneck post. Remove the socket halves.

5. Roll the pole and axle assembly directly under the gooseneck and place the cast socket halves around the ball swivel on the axle. Lower the frame into place so that the socket halves seat into the gooseneck. (If necessary, clamp halves together with C-clamp while lowering gooseneck.) Replace the two 5/8 x 3½ bolts and tighten securely. Install long shank grease fitting into hole proveded.

6. Raise actuating frame over bucket and lower into place so that the holes in the arms of the actuating frame align with the rear hole on each side of the bucket. (Point A) Insert 1 1/4 x 2 13/16 pins (with tab head) from the inside of the bucket. Secure with 5/8 NF x 1 1/2 bolt through bucket side with the locking nut to the outside.

7. Connect a short chain from the cutting edge to the cross pipe of the actuating frame then raise the bucket and actuating frame assembly over the main frame and lower into place so that the front of the actuating frame can be connected to the 1 3/4 bushing on each side of the frame. (Point B) Secure with 1/2 x 1 NC capscrews and lockwashers.

8. Install the actuating arm bars to the front holes in the bucket. (Point C) Insert 1 1/4 x 2 13/16 pins (with tab type head) from the inside of the bucket. Secure with 5/8 x 1 1/2 NF bolt through bucket side with lock nut on the outside.

9. Lift the end of actuating arms and connect to the brackets on the front frame crossmember using 1 1/2 x 4 1/4 pins. (Point D) Do not insert the pins completely.

10. Attach the apron actuating links (linkage with built-in spring) to the bracket on each apron arm (Point E), using the 1 5/8 to 1 1/4 shoulder pins (with grease hole in threaded end) Secure with 1 1/4 NF lock nut (thin). Be certain the open end of the tube containing spring is downward.

11. Raise the apron over the scraper and lower into place so the hole in the end of the arms aligns with the hole in each side of the bucket walls. (Point F) Attach with 1 5/8 to 1 1/4 shoulder pins (with grease hole in hex head). Secure with 1 1/4 NF thick nut

12. Connect the opposite end of the apron actuating links, referred to in step 10 to the bracket on the front frame crossmember, referred to in step 9, adjacent to the actuating arms connected from the bucket. (Point D) Insert the pins the remainder of the way and secure tab to bracket with 1/2 NC x 1 1/4 capscrew and lockwasher.

13. Install hydraulic cylinders to main frame and actuating frame with rod end to actuating frame. Be sure the grease hole in the rod end is facing up. Use 1 1/8 x 3 1/4 pin at the base of the cylinder. Secure with 3/16 x 1 1/2 cotter pins. Use 1 1/8 x 6 3/8 pin at the rod end of the cylinder. Secure with 1/2 x 1 NC capscrew and lockwasher.

14. Install 1/2 x 90° swivel adapters into front and rear ports on each cylinder. Tighten so that the hose fitting faces to the rear.

15. Connect a 1/2 x 18" hose from the rear port of the cylinders to one of the pipe lines on the rear cross frame. Be sure both hoses from the rear ports are connected to the same pipe line.

16. Connect a 1/2 x 38" hose from the front port of each cylinder to the remaining pipe line on the rear cross member of the frame.

17. Install all zerks and grease entire machine liberally.

18. If possible, place assembled scraper on level floor or pavement and measure the distance from the cutting edge to the floor, on both left and right sides, and then adjust axle spindles to obtain equal distance on both sides.

ASHLAND INDUSTRIES, INC.
P.O. Box 47
Ashland, Wisconsin 54806

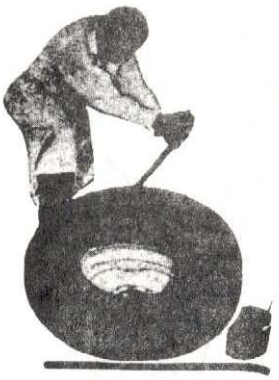
HOW TO OPERATE THE W7B-20DC RIM

Note: This rim has been developed for 20" used truck tires up to and including 9.00-20 ten ply. However, many users have found it possible to mount 10.00-20 twelve ply tires. The following procedures should be followed:

Tools and Materials Required:
- One Set Firestone Truck Tire Tools (48-A-200)
- One Pair Vise-Grip Pliers
- Lubricant (Avoid use of compound that contains water . . . or a solvent injurious to rubber — see your rim distributor)

MOUNTING:

1. Remove flap inasmuch as it is not required on the drop center rim mounting and it prevents mounting the tire. Check to see tube is in casing and inflated sufficiently to prevent sag below tire beads.



2. Place rim on floor with valve hole side up. Place tire over rim with valve stem pointing upwards. Force lower bead into well of rim as far as possible.

3. Lubricate last section of low bead to facilitate mounting.

4. Using straight end of tool (with stop resting on rim flange) take small bites to work remaining section of lower bead onto rim.

5. Stand tire up with valve and valve hole at top of rim. Insert valve into valve hole.

6. To get top bead in plac stand on tire and force bea down as far as possible an clamp vice grip pliers on th flange. (snub side towar tire). Using spoon end of ti iron with lug side towar rim, work progressivel around bead using sma bites until bead slips ov flange onto ri base. In order t mount last 6" bead it usually necessary to inse second tire iro and lubricate th last bead portion.

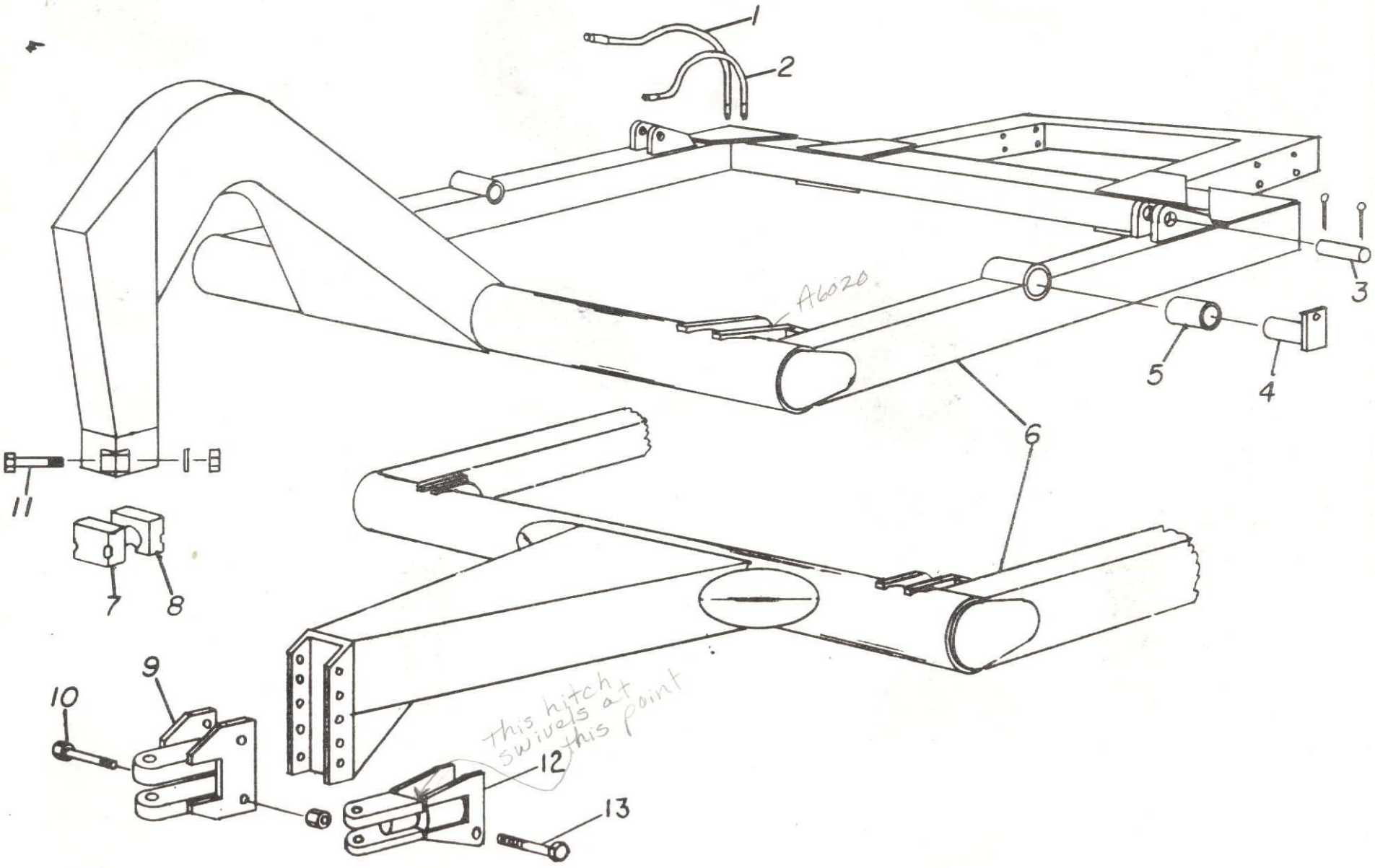
DEMOUNTING:

1. Remove valve core to deflate and loosen tire from bead seat of rim on both sides. Lubricate upper bead of tire thoroughly. With stops toward rim, insert spoon ends of both tools about 10 inches apart. While standing on tire to hold bead in well, pull one tool back toward center of rim.

2. Hold first tool in position with one foot and pull second tool toward center of rim. Progressively work top bead off rim, taking additional bites if necessary.

3. Stand tire and tube in vertical pos tion with valve at top of assembl and remove valve from valve hol Then place valve at bottom of assen bly and pull out upper portion of tub so it will not inte fere with demoun ing the secon bead. Lubricat second bead. A top of assembly i sert straight end tool between bea and back flange rim at about a 45 angle. Turn tool s it is perpendicul to rim. Pry secon bead off.

ILLUSTRATION - FRAME ASSEMBLY



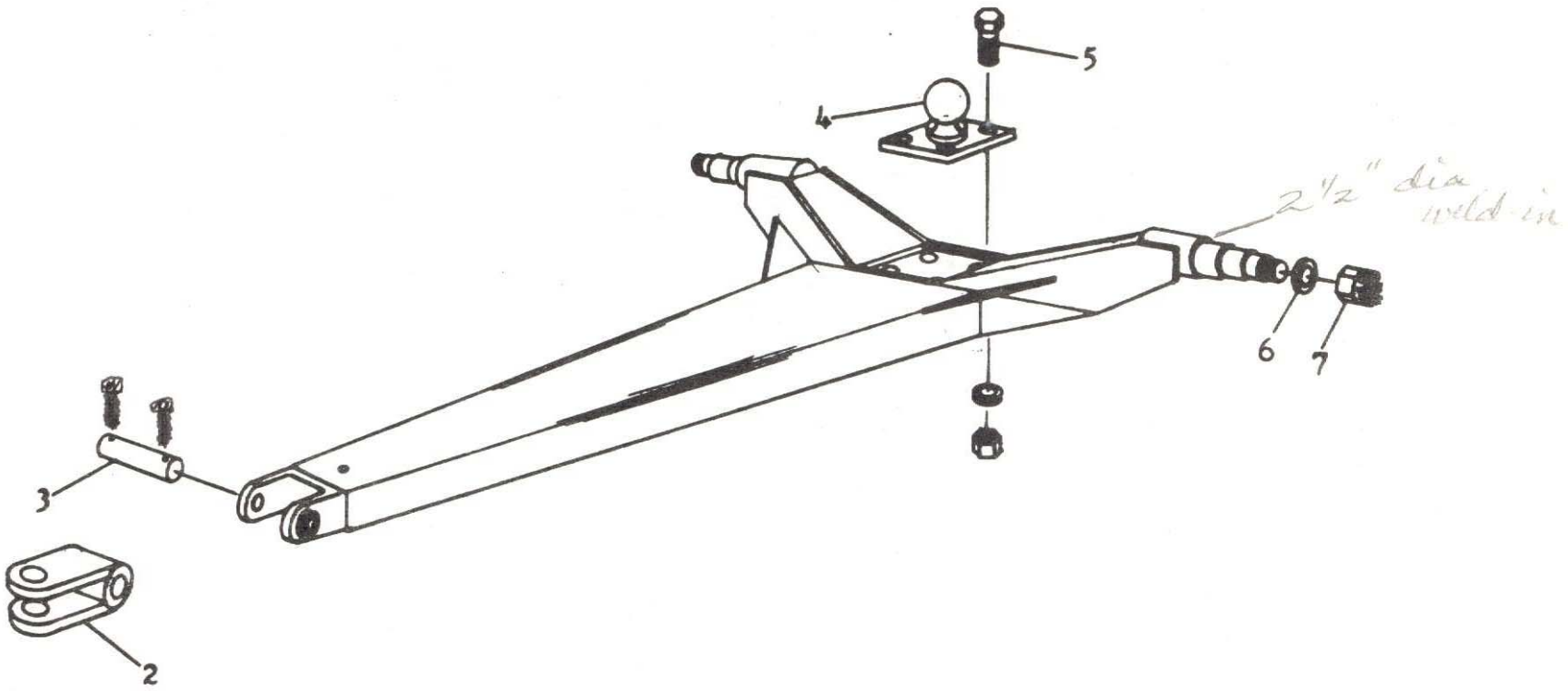
P A R T S L I S T

F R A M E A S S E M B L Y

MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1.	A400H01	Hydraulic hose, 1/2" x 38"
2.	A60H01A	Hydraulic hose, 1/2 x 18"
	A400H02	Swivel adapter, 1/2" x 90°
3.	A45003	Pin, 1-1/8"x 3-1/4" w/3/16" x 1-1/2" cotter
4.	A40016A	Pin, 1-3/4" x 6-3/8" w/lock type head
5.	A6001A	Bushing, 2-1/8" x 1-3/4" x 4-3/8" lg. (up to serial no. 11788)
6.	A6002B	Frame - 4 wheel (up to serial no. 11788)
	A6003B	Frame - 2 wheel (up to serial no. 11788)
	A6002C	Frame - 4 wheel (after serial no. 11788)
	A6003C	Frame - 2 wheel (after serial no. 11788)
7.	A40005	Cast socket half, front w/zerk hole
	A2206	Zerk, w/long straight shank
8.	A40004	Cast socket half, rear
9.	A60004	Hitch, 2 wheel model only
10.		Bolt, 3/4" NC x 6" w/nut & lockwasher
11.		Bolt, 5/8" NC x 4" w/nut & lockwasher
12.	A8033	Swivel hitch
13.		Bolt, 1-1/4" NF x 7" w/lock nut

ILLUSTRATION - POLE & AXLE ASSEMBLY



P A R T S L I S T

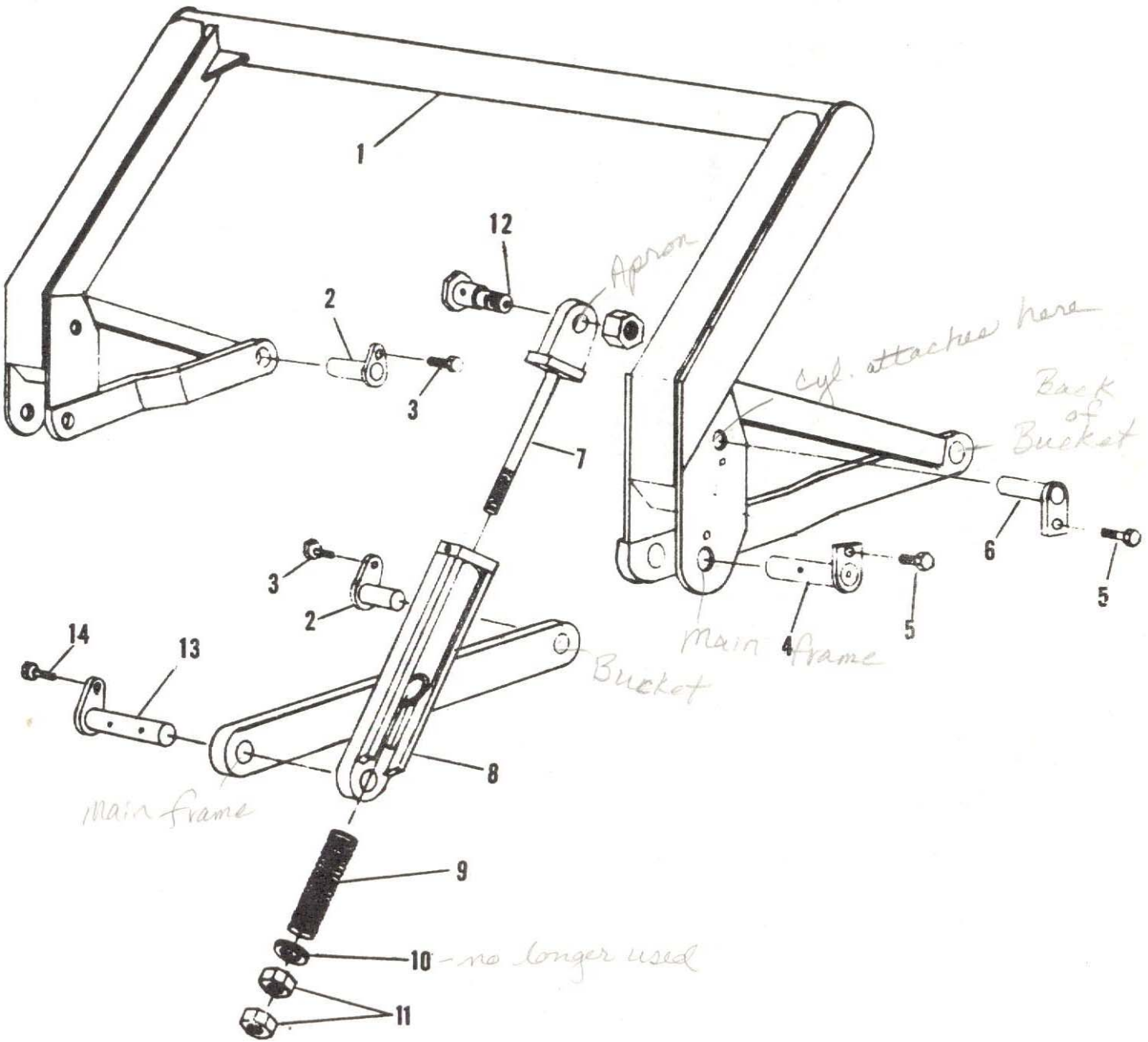
P O L E & A X L E A S S E M B L Y

(4 Wheel Models Only)

MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1.	A40007D	Pole & axle
2.	A6013	Swivel hitch
3.	A6014	Pin, 1-1/4" x 6-3/4", w/ bolts, 5/16" x 2 1/2"
4.	A40006	Ball swivel
5.		Bolt, 3/4" x 3" w/ nut & lockwasher
6.	A2239	Washer, special 7/8" flat
7.		Nut, 7/8" castellated

ILLUSTRATION - ACTUATING ASSEMBLY



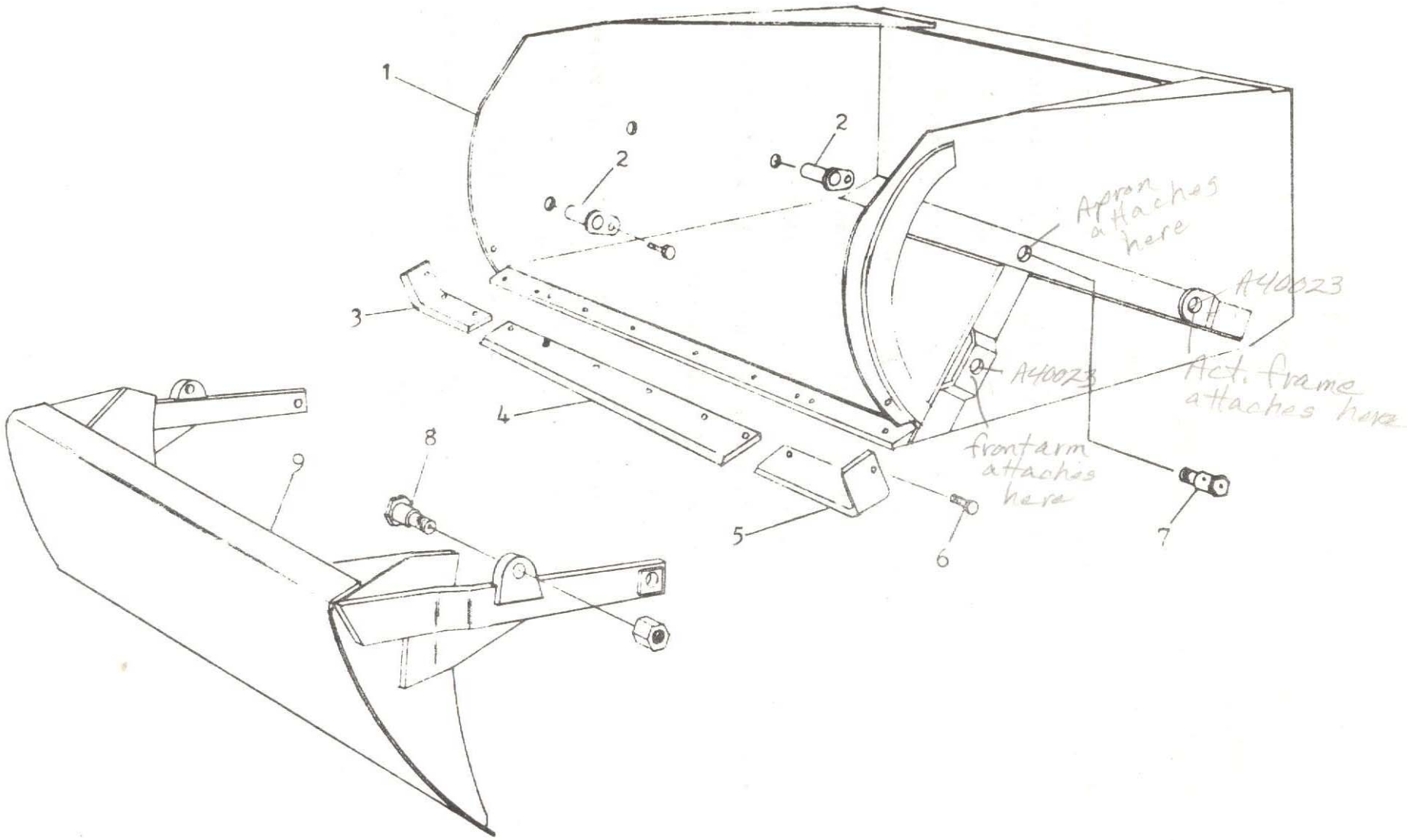
P A R T S L I S T

A C T U A T I N G A S S E M B L Y

MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1.	A6004B	Actuating frame
2.	A40023	Pin, 1 1/4" x 2 13/16" w/ locking head
3.		Bolt, 5/8" x 1 1/2" NF w/ nylon lock nut
4.	A40016A	Pin, 1 3/4" x 6 5/8" w/ tab head
5.		Capscrew, 1/2" x 1" NC w/ lockwasher
6.	A4524	Pin, 1 1/8" x 6" w/ locking head
7.	A6015	Actuating Link (Upper half)
8.	A6016	Actuating Link (Lower half)
9.	A6018	Compression Spring, 1" ID x 2" OD x 10" lg.
10.		Washer, 1" narrow rim - no longer used
11.		Nut, 1" NF
12.	A6019	Shoulder pin, 1 5/8" x 1 1/4" w/ zerk in th'd en
		Nut, 1 1/4" NF ~~w/ nylon insert~~, lock type
13.	A6020	Pin, 1 1/2" x 4 1/2" w/ locking head w/ zerk
14.		Capscrew, 1/2" NC x 1 1/4" w/ lockwasher
15.	A6021	Actuating arm

ILLUSTRATION - BUCKET & APRON ASSEMBLY



PARTS LIST

BUCKET AND APRON ASSEMBLY

MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1.	A6008	Bucket
2.	A40023	Pin, 1 1/4" x 2 13/16" w/ locking head Bolt, 5/8" x 1 1/4" NF w/ nylon insert lock nut
3.	A2225	Right cutting edge
4.	A60005 ~~A8030~~	Center cutting edge, 8" x 54" - Replaced by A8030
5.	A2222	Left cutting edge
6.		Plow bolt, 1/2" x 1 3/4" w/ nut Plow bolt, 5/8" x 2" w/ nut
7.	A6010	Shoulder pin, 1 5/8" to 1 1/4" w/ zerk in head Nut, 1 1/4" NF, lock type
8.	A6019	Shoulder pin, 1 5/8" to 1 1/4" w/ zerk in th'd en Nut, 1 1/4" NF, lock type
9.	A6009B	Apron

This Scraper Uses!

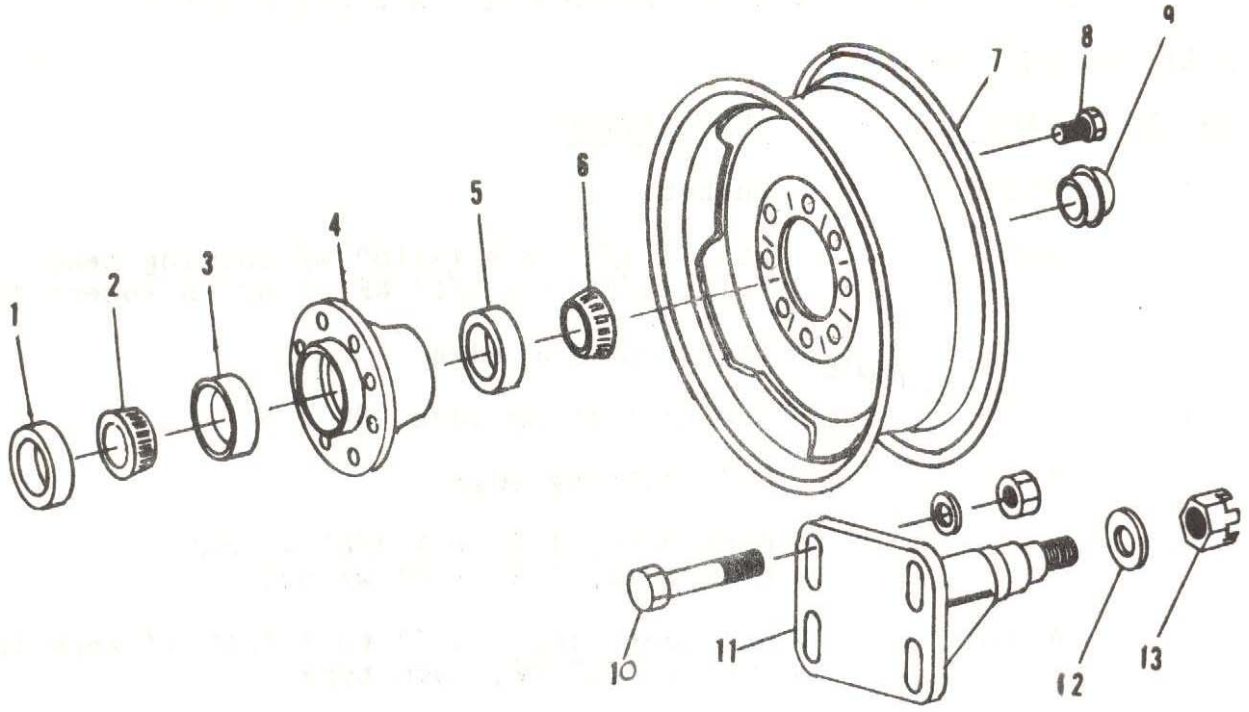
2 1/2 x 1 1/4 Plow Bolts

4 1/2 x 1 3/4 " "

6 5/8 x 2 " "

ILLUSTRATION

WHEEL, HUB & SPINDLE



PARTS LIST

WHEEL, HUB & SPINDLE

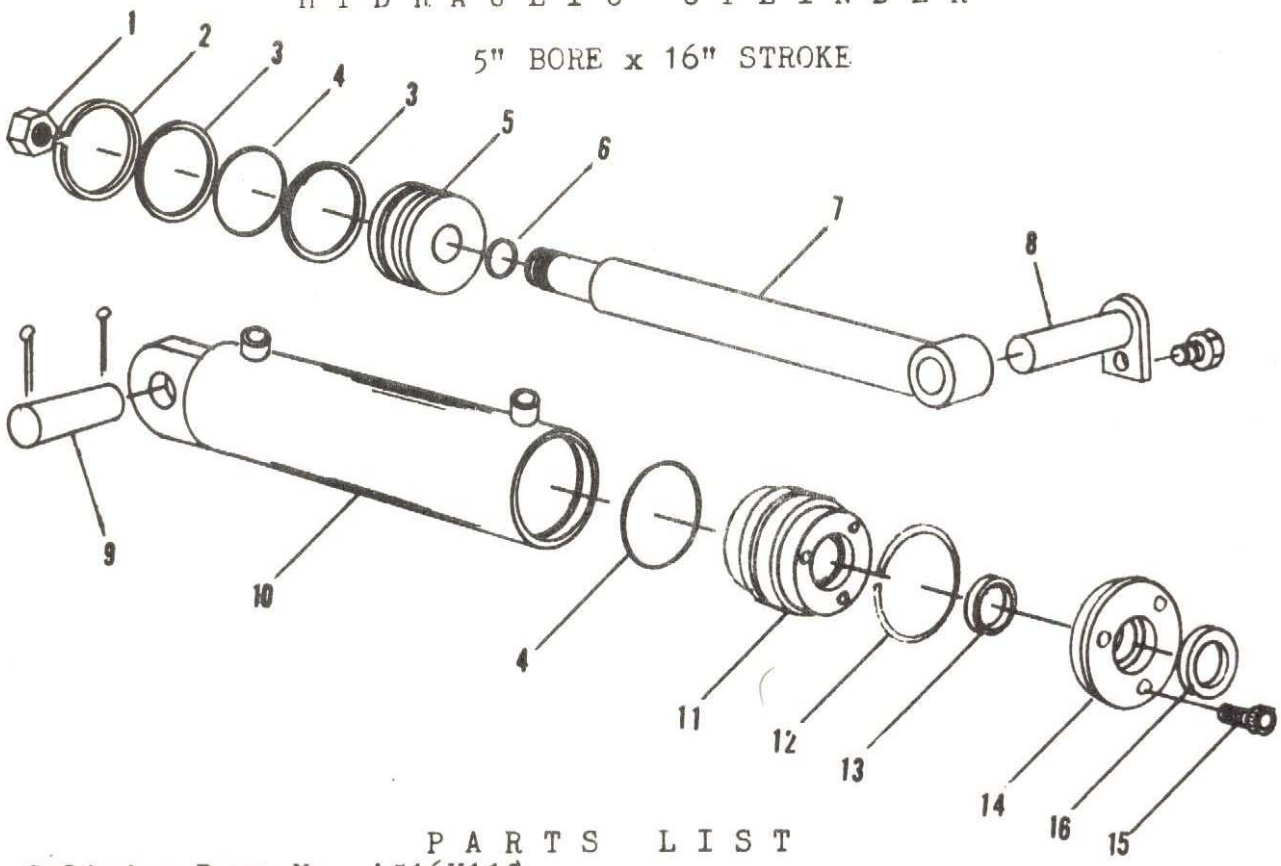
MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1.	A4512	Grease seal
2.	A4513	Bearing cone (inner)
3.	A4514	Bearing cup (inner)
4.	A4515	Hub (less bearings)
5.	A2233	Bearing cup (outer)
6.	A4516	Bearing cone (outer)
7.	A4521A	Wheel, 20" DC
	A6022	Wheel, 16" x 11" DC (optional)
	A8013	Wheel, 16" lock rim (optional)
8.	A4519	Wheel Bolt, 9/16" NF
9.	A2235	Hub cap
10.		Bolt, 3/4" x 6" w/ flat washer & nut
11.	A4520	Spindle weldment
12.	A2239	Washer, special, 7/8" flat
13.		Nut, 7/8" NF castellated

I L L U S T R A T I O N

H Y D R A U L I C C Y L I N D E R

5" BORE x 16" STROKE



P A R T S L I S T

Cylinder Part No. A516H118
MODEL 60 SCRAPER

KEY NO.	PART NO.	DESCRIPTION
1	A400H17	Piston nut, 1 1/4" NF
2	A400H04	Cast iron ring, 5" OD
3	A400H05	Back-Up washer, 5" OD
4	A400H06	O-Ring, 5" OD x 1/4"
5	A400H07	Piston, 5" dia.
6	A22H27	Piston gasket, 1 1/4" ID
7	A400H08	Shaft, 2" dia.
8	A4524	Pin, 1 1/8" x 6 Capscrew, 1/2" x 1" NC w/ lockwasher
9	A45003	Pin, 1 1/8" x 3 1/4" Cotter pin, 3/16" x 1 1/2"
10	A400H09	Barrel Assembly
11	A400H10	Head Gland
12	A400H11	Retainer ring
13	A400H12	O-Ring, 2"
	A400H12A	Back-Up washer
14	A400H13	Head cap
15	A22H18	Capscrew, 1/4" NC x 1"
16	A400H14	Wiper seal
	A400H15B	Packing kit containing: 1 A400H04 1 A400H11 2 A400H05 1 A400H14 2 A400H06 2 A400H12 1 A22H27 1 A400H12A

NOTE: When ordering for 4" bore, please specify: '4" BORE'