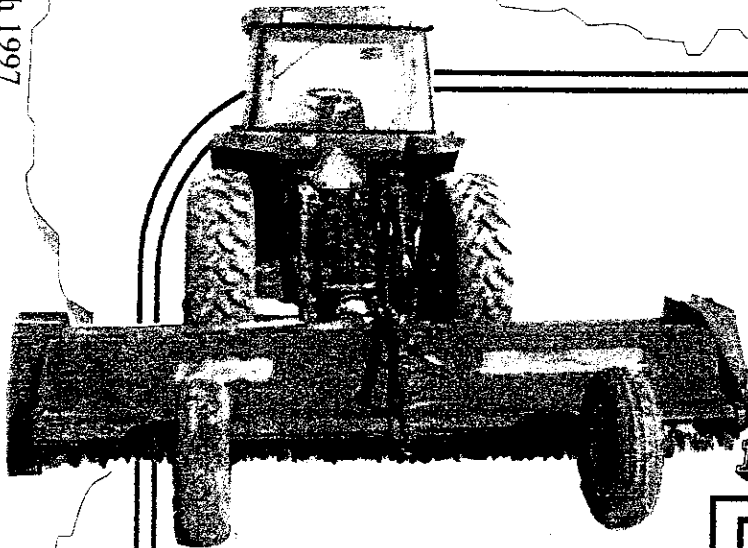


BALZER



March 1997



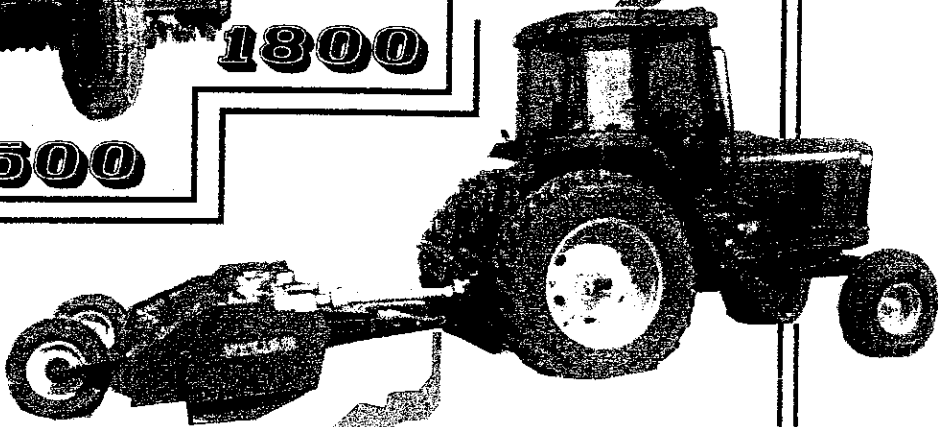
1500

1800

2000

MODELS:

1200



CONVENTIONAL SHREDDER PULL TYPE
FULL & SEMI-MOUNT

OWNER'S MANUAL
FOR INSTALLATION, OPERATION & MAINTENANCE

MOUNTAIN LAKE

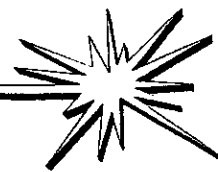


CONVENTIONAL SHEDDER PULL TYPE, FULL & SEMI-MOUNT MODELS: 1200, 1500, 1800, 2000

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To the Purchaser

BALZER



Congratulations on your selection of a Balzer Shredder. This shredder is one of the most economical means of chopping crop residue. It has been designed to provide years of profitable and dependable service. To insure maximum performance of your shredder, it is mandatory that you thoroughly study the owner's manual and follow its recommendations. Proper operation and maintenance are essential to maintain and maximize the machine life and to prevent injury or damage.

It is the owner's responsibility to:

*Operate and maintain this shredder in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and/or laws; and in compliance with on-product labeling and these instructions.

*Make sure that all personnel have read this owner's manual and thoroughly understand safe and correct operating, installation, and maintenance procedures.

*Make sure the shredder is setup correctly before being placed in service and at regular intervals thereafter serviced in accordance with procedures outlined in this manual. This is important in promoting safe and efficient operations of this equipment. Contact your dealer for any clarification required on operating this shredder.

*Fulfill all warranty obligations so as not to void the warranties.

This machine is warranted as stated in this manual. A registration card is provided and is to be filled out by your dealer, and promptly returned to the factory. This card provides a ready reference for you in securing warranty.

The serial number and identification tag is located on the front of the right portion of the unit. Please refer to these numbers when parts or warranty communication is necessary. Balzer Inc. reserves the right to make product improvements to the equipment at any time.

PLEASE FILL IN THE FOLLOWING INFORMATION FOR YOUR RECORDS:

Date of purchase _____

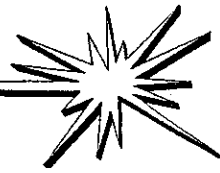
Owner's name _____

Dealer's name _____

Serial No./identification No. _____

Warranty

BALZER



WARRANTY MANUFACTURER

Dealer or Distributor understands and agrees that Manufacturer extends only the following Warranty to customers. In the event Dealer or Distributor extends any additional warranty (such as by enlarging the scope or period of warranty or undertaking a warranty of merchantability or fitness for any particular purpose) or any other obligation whatsoever. Dealer or Distributor shall: (1) be solely responsible therefor; (2) have no recourse against Manufacturer thereof; and (3) defend, indemnify and hold Manufacturer harmless against any claim or cause of action whatsoever arising out of, or occasioned by, Dealer or Distributor's extension of said additional warranty or obligation.

CERTIFICATE OF GENERAL EQUIPMENT WARRANTY

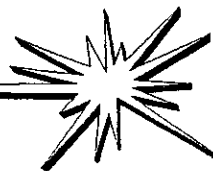
Balzer Inc. warrants new Products sold by it to be free from defects in material or workmanship for a period of one (1) year after date of delivery to the first user and subject to the following conditions. Balzer Inc.'s obligation and liability under this Warranty is expressly limited to repairing or replacing at Balzer Inc.'s option, any parts which appear to Balzer Inc. upon inspection to have been defective in material or workmanship. Such parts shall be provided at no cost to user, at the business establishment of the authorized Balzer Inc.'s dealer or distributor of the Product during regular working hours. This Warranty shall not apply to component parts or accessories of Products not manufactured by Balzer Inc. and which carry the warranty of the manufacturer thereof, or to normal maintenance (such as tune-up) or normal maintenance parts (such as oil filters). Replacement or repair parts installed in this Product covered by this Warranty are warranted only for the remainder of this Warranty as if such parts were original components of said Product. **BALZER INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

Balzer Inc.'s obligation under this Warranty shall not include any transportation charges, cost of installation, duty taxes or any other charges whatsoever, or any liability for direct, indirect, incidental or consequential damage or delay. If requested by Balzer Inc. Products or parts for which a warranty claim is made are to be returned transportation prepaid to Balzer Inc. Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution or parts not approved by Balzer Inc. or any alteration or repair by others in such manner as in Balzer Inc.'s judgment affects the Products materially and adversely, shall void this Warranty.

"NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY AN OFFICER OF BALZER INC. AT ITS HOME OFFICE."

LIABILITY FOR DELAYS

No liability shall attach to Manufacturer or direct, or indirect, incidental or consequential damages or expenses due to loss, damage, detention or delay in delivery of Products resulting from acts or delays beyond its control.



SAFETY SIGNS

SAFETY SIGNS ARE IMPORTANT

Safety signs or decals provide very important information and instructions designed to alert you to dangers and hazards that can be present during operation of this equipment. However, safety sign instructions must be read, understood and followed to be effective.

REPLACEMENT OF SAFETY SIGNS

Safety signs or decals must be kept clean and readable. If they become unreadable for any reason, they must be replaced with an identical replacement decal. Safety decals must also be replaced if parts are repaired or replaced with new parts that do not already include the necessary safety decals.

APPLICATION OF SAFETY DECALS

Surface preparation is very important for safety decals to properly adhere. Grease, oil and dirt must be removed and the surface must be smooth and dry.

Most decals have a split backing which is meant to be removed from the split outward. To apply the decals follow these procedures:

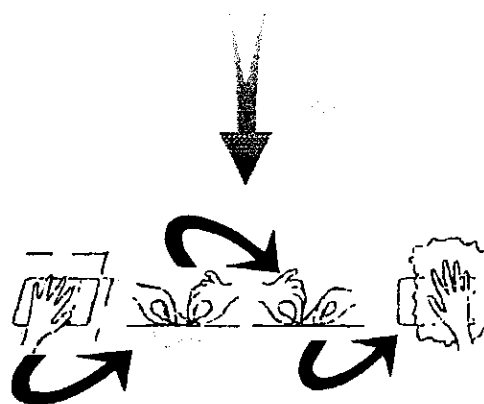
1. Position the decal in the proper location and hold firmly over the largest portion of backing.

2. Use one hand to hold the decal in position, with the other hand carefully roll the loose end over and peel the backing outward. When the backing is removed as described and shown (Fig. 1), with even and gradual pulling, the decal will roll onto the surface smooth and wrinkle free.

3. With the smallest portion of the decal attached, the same procedure can be applied to the other half.

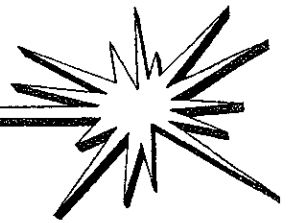
4. When the decal has been attached in place, use a cloth or soft paper towel to burnish the decal onto the cleaned surface. Work gently from the middle outwards to avoid creating any wrinkles.

Fig. 1



REPLACEMENT DECALS

Order replacement decals by part number through your nearest dealer. Part numbers are printed on each decal or refer to the decal page of this manual.



⚠ WARNING

- KEEP ALL SHIELDS IN PLACE.
- STOP ENGINE BEFORE LEAVING OPERATOR'S POSITION TO ADJUST, OIL, CLEAN OR UNLOAD MACHINES, UNLESS OTHERWISE SPECIFICALLY RECOMMENDED IN THE "OPERATOR'S MANUAL".
- WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING THE MACHINE.
- KEEP HANDS, FEET, AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- KEEP OFF EQUIPMENT UNLESS SEAT OR PLATFORM FOR OPERATIONS AND OBSERVATION IS PROVIDED.
- KEEP ALL OTHERS OFF.
- USE FLASHING WARNING LIGHTS WHEN OPERATING ON HIGHWAYS EXCEPT WHEN PROHIBITED BY LAW.
- MAKE CERTAIN EVERYONE IS CLEAR OF MACHINE BEFORE STARTING ENGINE OR OPERATION.

10744
"WARNING"

⚠ DANGER

MOVING PARTS HAZARD

- Keep hands, clothing, and hair away from moving belts and parts.
- Replace guard before operating.

21730
"DANGER"

⚠ DANGER



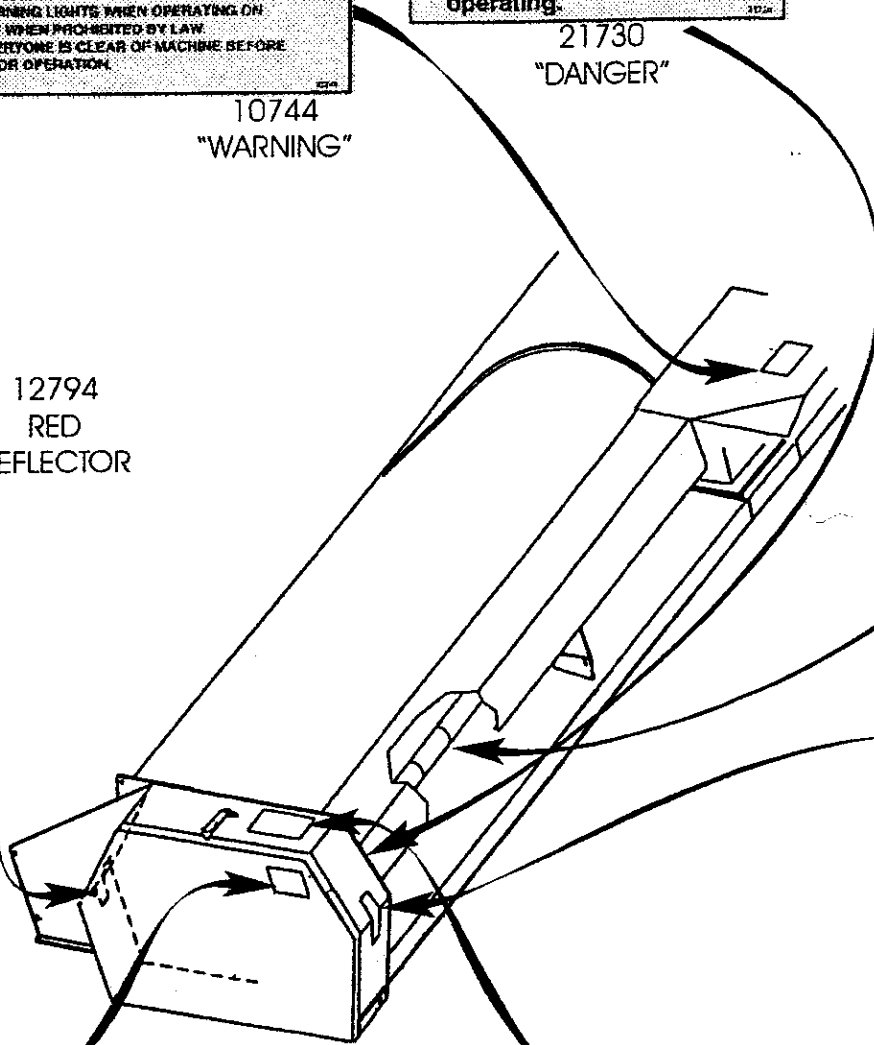
ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH
KEEP AWAY
DO NOT OPERATE WITHOUT

- all driveline guards, tractor and equipment shields in place
- drivelines security attached at both ends
- driveline guards that turn freely on driveline

15295
"DANGER"



12794
RED
REFLECTOR



8154
"WARNING"

⚠ WARNING

MOVING PARTS HAZARD

Can crush or dismember hands and fingers.

Do not operate machine with guard removed.

14175
"DANGER"

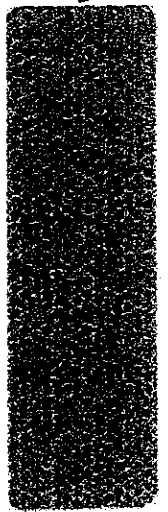
⚠ DANGER

STOP: WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING OR OPENING OF SHIELDS.

LOOK: THE IGNITION KEY IS REMOVED.

LISTEN: FOR ALL MOVEMENT TO STOP, ROTATING PARTS CONTINUE TO ROTATE AFTER POWER IS SHUT OFF.

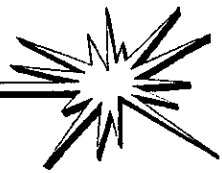
12795
AMBER
REFLECTOR





OBSERVE AND FOLLOW ALL SAFETY PROCEDURE TO PREVENT PERSONAL INJURY OR DAMAGE TO THE MACHINE

1. This machine must be operated and serviced by qualified persons who have thoroughly read and understand this operator's manual and the safety signs on the machine.
2. Read and follow instructions on all decals.
3. Never operate shredder with any guards or shields not in place. Replace missing or damaged shields.
4. Be sure the front flipper shields are in place and swing freely prior to operation.
5. Keep hands and feet away from all moving parts.
6. Never wear any loose clothing when working around moving parts.
7. Keep children away from machinery.
8. Never leave shredder operating unattended.
9. Never allow anyone to ride any place other than the tractor's seat.
10. Do not stand in front, behind, or along side of the machine when the cylinders are turning.
11. Wait for movement of cylinders to stop before servicing or opening of the shields on the shredders.
12. Block wheels securely when machine is to be parked on an incline.
13. Periodically check for loose or missing hardware and tighten or replace as needed.
14. Do not work under the shredder for servicing of cutting knives or other reasons unless the machine has been safely blocked up and the PTO has been disconnected.
15. Replace any parts which show signs of excessive wear, cracking or likely failure, with original equipment service parts.
16. Make certain that everyone and everything is cleared before starting the engine or operation of the shredder.
17. Always start up the unit slowly and gradually bring it up to speed in order to check for abnormal operation.
18. If the shredder develops abnormal noises or excessive vibration, stop the unit at once and safely determine and correct the cause.
19. When parking always lower the shredder and block the wheels.
20. Insure tire pressure is 20 PSI maximum.
21. Hydraulic fluid pressure can be very dangerous and can cause serious personal injury. Be sure to relieve all pressure before disconnecting hydraulic lines.
22. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, not your hand to search for leaks.
23. If injured by escaping hydraulic fluid, seek immediate medical attention, serious infection or medical reaction may develop.
24. Always use a safety chain between towing vehicle and shredder when transporting.



IMPORTANT INFORMATION



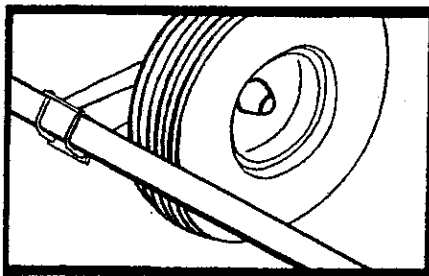
If shredder must be off the ground to install any equipment, be sure to safely block it up. Be certain that entire area is safe before doing any maintenance.

WHEEL ARM ASSEMBLY

Remove hardware bag from the box of parts. The bag contain hardware for attaching the two arms.

Position the wheel arms on the rockshaft, with the tire towards the either middle or out side for the desired row spacing.

Tire should be inflated to 15-20 PSI



HYDRAULIC CYLINDER OR RATCHET JACK

Install a Standard agricultural 3x8 hydraulic cylinder compatible ratchet jack between the lug on rockshaft and the lug on top of the housing.

HOSE STAND

Remove the right bolt from the top of the gearbox shield and install the hose stand. Run the hydraulic hoses though the tractor. The stand is located in the box of part.

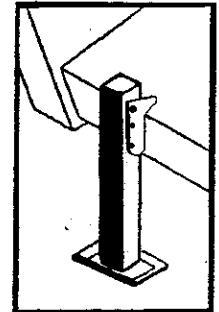
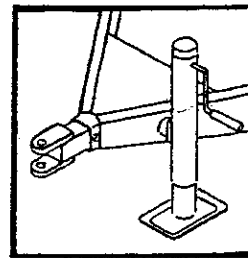
RECOMMENDED TORQUE IN FOOT-POUNDS COARSE AND FINE THREAD GRADE 5 BOLTS

DIA	TORQUE	DIA	TORQUE
1/4	10	9/16	111
5/16	18	5/8	173
3/8	39	3/4	290
7/16	58	7/8	500
1/2	87	1	620

IMPLEMENT JACK OR STAND

The implement jack or stands are in the box of parts. The implement jack is required on all pull type shredders. The jack stands are required on semi-mount & full shredders.

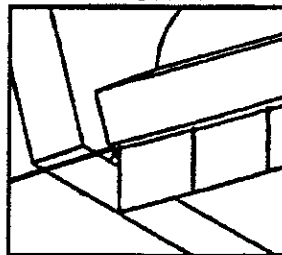
Install as shown in illustration below.



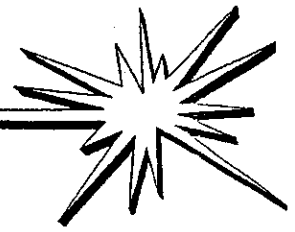
HINGING GUARDS

Remove hinging guards and two roll pins from the box of parts, and locate the tow hinge rods. Each are about half the total length of the shredder. Install rods from the out side of the shredder in-ward. Slide one hinge rod halfway though the first tab while positioning a hinging guard between tabs. Slide rod through the guard and repeat until all are in place. Install roll pin between last tab and the end panel.

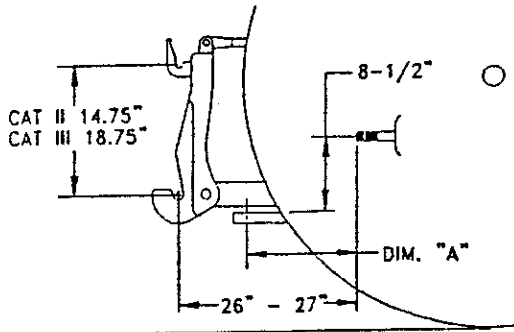
PIN PLACEMENT



Set-Up & Assembly **BALZER**



SUGGESTED MOUNTING ADJUSTMENT
FOR FULL-MOUNT, SEMI-MOUNT, AND
PULL-TYPE.

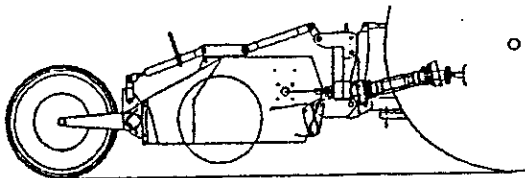


DRAWBAR ADJUSTMENT

PTO STYLE	DIM "A"
1-3/8"-6 SPLINE	14"
1-3/8"-21 SPLINE	16"
1-3/4"-20 SPLINE	20"

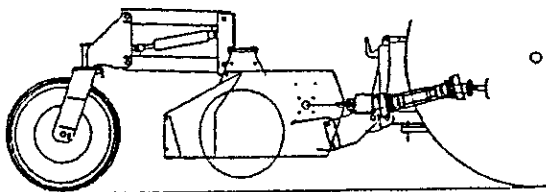
The diagram above shows ASAE standard dimensions. Safe and proper operation is dependant on correct adjustment. Compare these dimensions to your tractor, and make any necessary adjustments. If these dimensions are not possible on your tractor, contact your dealer for help.

FULL MOUNT (3 POINT)



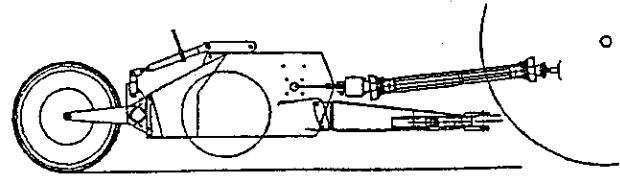
Pictured above is a full mount unit with the required quick hitch.

SEMI-MOUNT (2 POINT)



Pictured above is a semi-mount unit with the required quick hitch.

PULL TYPE



Pictured above is a pull type shredder.

PTO DRIVES

Pull type shredders require different length pto's than do full mount or semi mount shredders. Be sure you have the correct PTO before running the shredder. Measure the PTO and compare the dimensions to the following chart. If it does not match, contact your dealer for the correct PTO.



IMPROPER PTO LENGTH CAN RESULT IN SERIOUS INJURY AND EQUIPMENT DAMAGE.

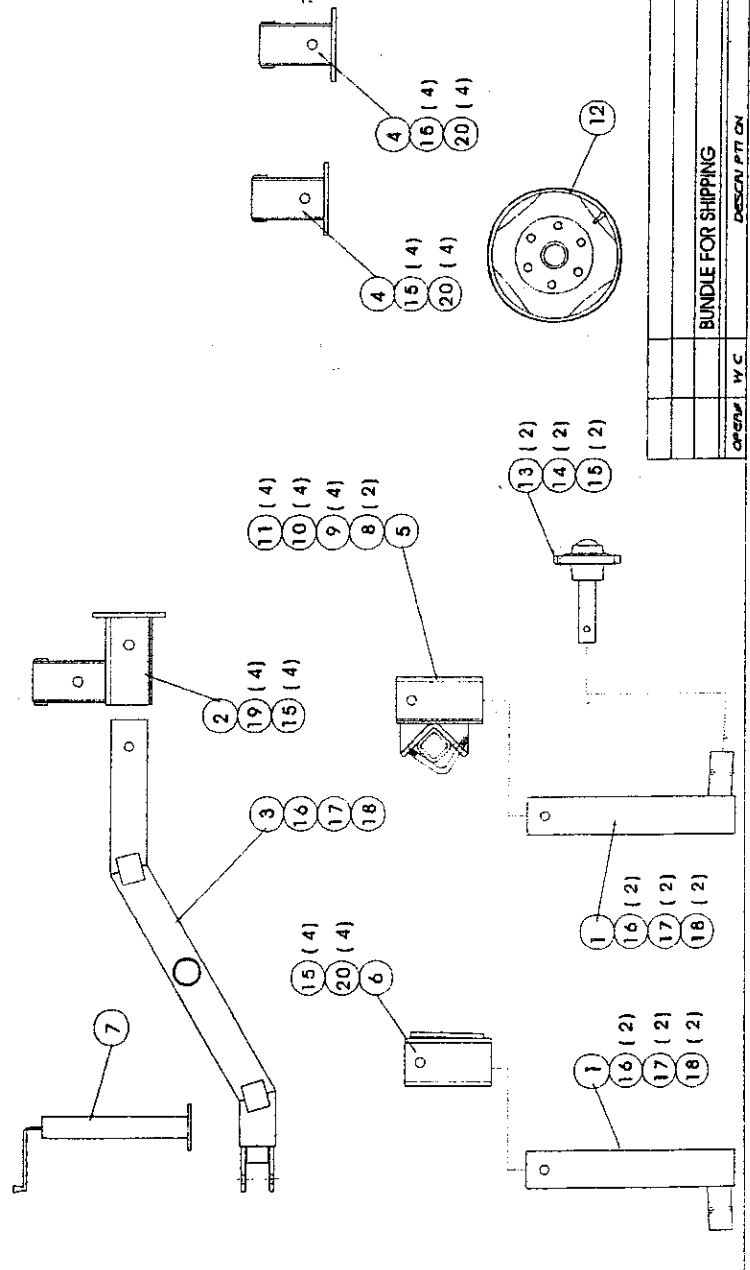
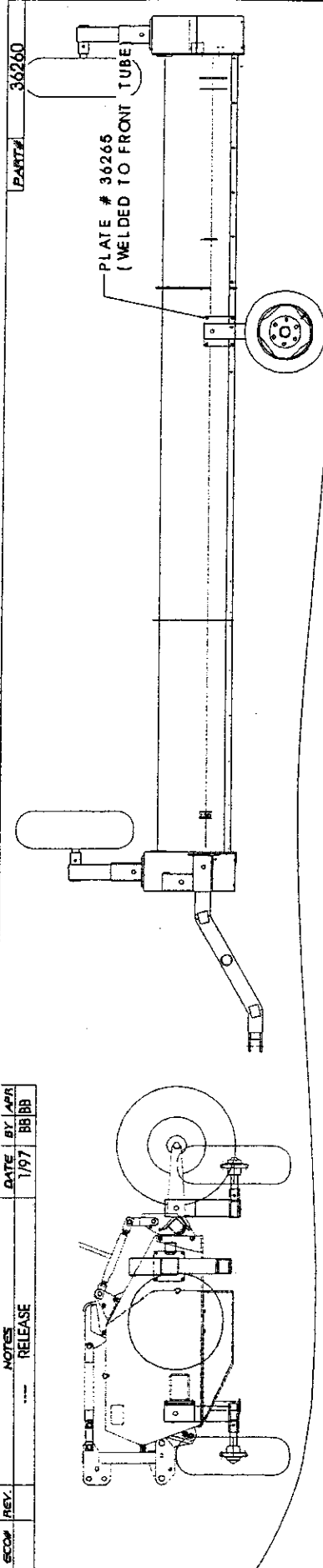
P/N	UNIT	RPM	SPLINE	COMPRESSED OVERALL LENGTH
X27023	PULL TYPE W/CLUTCH	540	1-3/8-6	49-1/2
X27024	PULL TYPE W/CLUTCH	1000	1-3/8-21	49-1/2
X27025	PULL TYPE W/CLUTCH	1000	1-3/4-20	49-1/2
X27026	PULL TYPE CV W/CLUTCH	540	1-3/8-6	51
X27027	PULL TYPE CV W/CLUTCH	1000	1-3/8-21	51
X27028	PULL TYPE CV W/CLUTCH	1000	1-3/4-20	51

P/N	UNIT	RPM	SPLINE	COMPRESSED OVERALL LENGTH
X27029	FULL & SEMI MNT W/CLUTCH	1000	1-3/8-21	31-1/2
X27406	FULL & SEMI MNT W/CLUTCH	1000	1-3/4-20	31-1/2

Set-Up & Assembly **BALZER** Transport

The end transport wheels should be placed as near to the middle of shredder as possible to reduce weight on the pulling tongue. The tongue and wheels can be attached at either end. Place them so the least amount will extend into the middle of the road when transporting.

SCOM	REV.	DATE	BY	APP.
---	---	1/97	BB	BB



ITEM	QTY	COMPONENT #	DESCRIPTION
16			
20	12	1250	BOLT .50 X1.50"HEX HEAD
19	4	1251	BOLT .50 X1.75"HEX HEAD
18	3	1699	NUT 1.0" HEX
17	3	1643	LOCKWASHER 1.0" W
16	3	1350	BOLT 1.0" HEX HEAD
15	18	2539	NUT .50" TOPLOCK
14	2	1258	BOLT .5 X3.5" HEX HEAD
13	2	18240	SPINDLE 1.75" REMOVABLE
12	2	8126	WHEEL 15 X6.6-BOLT
11	4	1696	NUT .62" HEX
10	4	1640	LOCKWASHER .62"
9	4	1602	FLATWASHER .62" W
8	2	15354	BOLT .52 X4.38" 1"
7	1	22212	JACK 7000# SIDE WIND
6	1	36281	END TRAN WHL SUPT FNT
5	1	36280	END TRAN WHL SUPT RR
4	2	36275	END TRAN WHL TRANS
3	1	36270	END TRAN HITCH
2	1	36267	END TRAN HITCH MNT
1	2	36261	END TRAN WHEEL ARM

WHERE USED: SHREDDER OPTION
 FAB. 03 WELDED TO FRONT

TOT. UNITS SPECIFIED	FAB. 03 WELDED TO FRONT	NO. PER SIDE	SHEET NO.
	NO. PARTS TO SHIP		
NAME: HARTMAN, A.C. JR. PART NO. 36260			
DATE: 1/97			

OPERATOR	W.C.
BUNDLE FOR SHIPPING	
DESIGN PT. ON	



The following procedures should be followed while operating your shredder.

WARNING:



Disengage tractor PTO drive immediately should excessive vibration occur while shredder is in operation.

Shut off tractor and remove ignition key before determining the cause of the vibration.

The tractor should be operated at recommended PTO speed for maximum effectiveness of the shredder.

CAUTION:



Always start unit up slowly and gradually bring it up to operating speed.

The shredder knives must be run a minimum of 2 inches above the ground to prevent excessive wear and knife damage. Position the wheels to run in the valley between the rows.

Do not make sharp turns while tractor PTO is engaged. This practice will damage shredder and tractor hydraulic lines. If sharper turns are desired, constant velocity PTO's are available. Consult with your local dealer for more information.

Never operate shredder with any broken or missing knives, this will cause structural and bearing damage.

Keep all hinging guard shields in place and be sure that they can swing freely. Replace any broken or bent guards.

FULL MOUNT

WARNING:

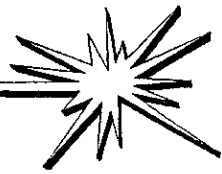


Reduce travel speed when on a rough or bumpy surface, be sure to have the shredder raised to avoid damage to either the tractor or the shredder.

CAUTION:

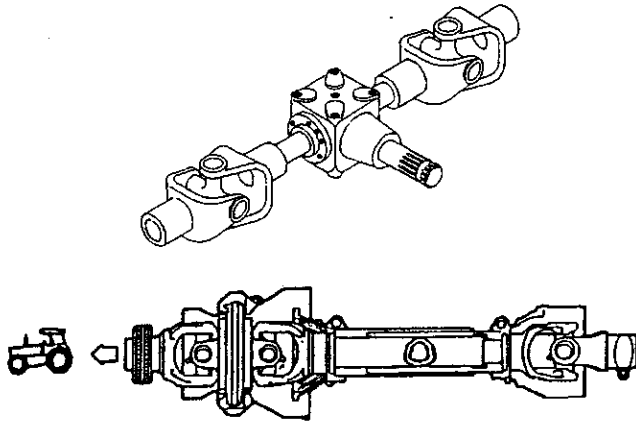


Additional weight may need to be added to the front of the tractor, to counter act the shredder weight.



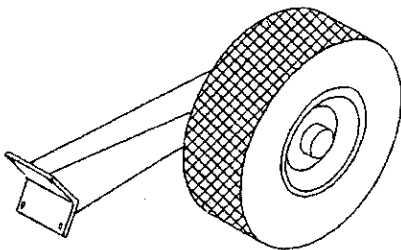
Check oil level, use a good SAE 90 weight oil with anti-foaming additives.

Grease U-joint every 10 hours of operation.



Grease all PTO joints prior to operating and after every eight hours of operation. Some PTO's have a grease fitting for the slide. If your PTO doesn't, it should be pulled apart and the slide cleaned and greased occasionally to insure proper and safe operation.

Grease wheel bearing every 50 hours of operation (grease zerk located on the wheel hub).

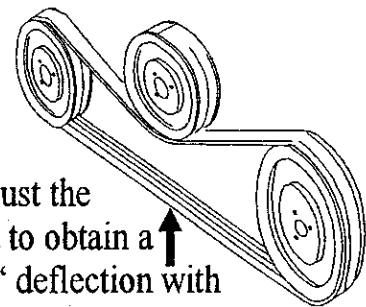


For maximum life and performance, the CV body must be greased regularly. Lubricate with the drive line in a straight position - up to 30 pumps of grease may be required.

The metal drive tubes must be greased to operate properly.

Shielding is subject to damage from abuse and weathering. Replace all damaged from abuse and weathering. Replace all damaged components and all shielding removed during maintenance.

Do not use PTO adapters with CV drive lines. Replace Special taper pin bolts only with genuine O.E.M. Parts, periodically check tightness of nuts:



Adjust the belt to obtain a \uparrow $\frac{3}{8}$ " deflection with a 65 LB force as shown by the arrow for 3 groove. 43 LB force for 2 groove.

"ATTENTION!"

Grease the four 2-3/16" flange bearing supporting the two rotors every 800 to 1400 acres, or every 50 to 100 hours of operation with $\frac{1}{2}$ ounce, *NO MORE THAN 3 PUMPS SLOWLY GIVEN.*

Grease the line shaft bearings in the same manner as the above with *NO MORE THAN TWO PUMPS SLOWLY GIVEN.*

Do not use a fast greasing gun because it may dislocate the seal.



IT IS THE POLICY OF BALZER INC. TO CONSTANTLY IMPROVE ITS PRODUCTS WHENEVER IT IS PRACTICAL TO DO SO. THEREFORE, BALZER INC. RESERVES THE RIGHT TO REDESIGN OR CHANGE ITS EQUIPMENT OR COMPONENT PARTS THEREOF WITHOUT INCURRING THE OBLIGATION TO INSTALL OR FURNISH SUCH CHANGES ON EQUIPMENT PREVIOUSLY DELIVERED.

INSTRUCTIONS FOR ORDERING PARTS

To enable our customer service department to provide you with the correct replacement parts promptly and accurately, follow the ordering instructions as listed below.

Identify your equipment by serial number whenever possible.

Use part numbers and descriptions from the illustration drawings furnished to assist in identifying the needed parts.

Owners, order all parts through your local dealer.

Dealers must indicate company name, shipping point and mailing address for notification if different from shipping point. State whether freight, express, parcel or other handling is desired.

Address all orders for parts as follows:

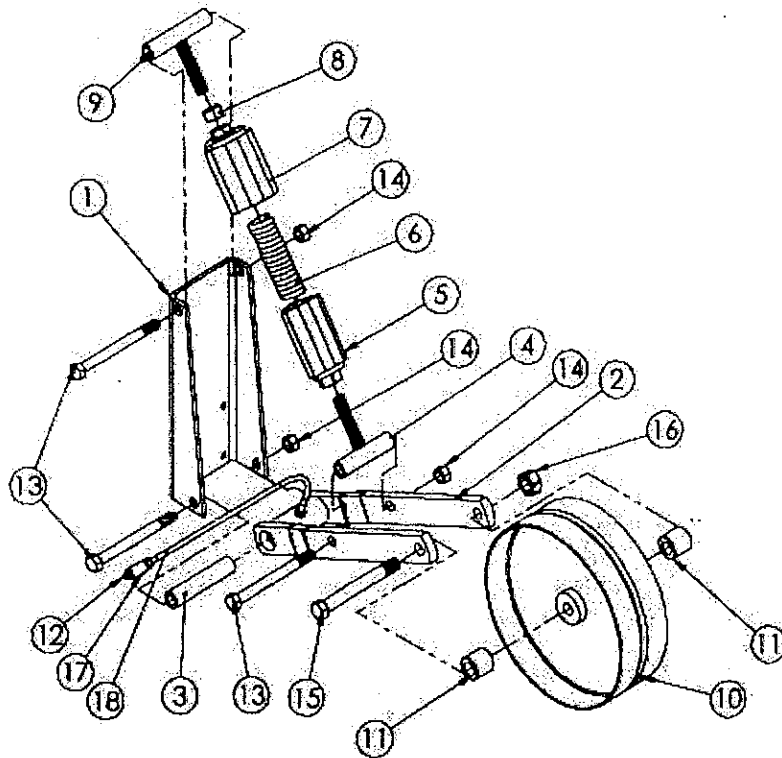
BALZER INC.
CTY. RD. 27E.
P.O. BOX 458
MOUNTAIN LAKE, MN. 56159
PHONE 1-800-795-8551

INSTRUCTIONS FOR RETURNING PARTS FOR ADJUSTMENT

Dealers should inspect all parts when received. Shortages or damage should be noted by the carrier agent at the time the parts are accepted. Shippers responsibility ceases upon delivery of shipment to customer in good order. Claims for damage, loss, or malfunction are to be reported within thirty (30) days for warranty considerations.

All returned parts must have return authorization, a copy of the original packing list and transportation prepaid.

COMPLETE BELT TIGHTENERS

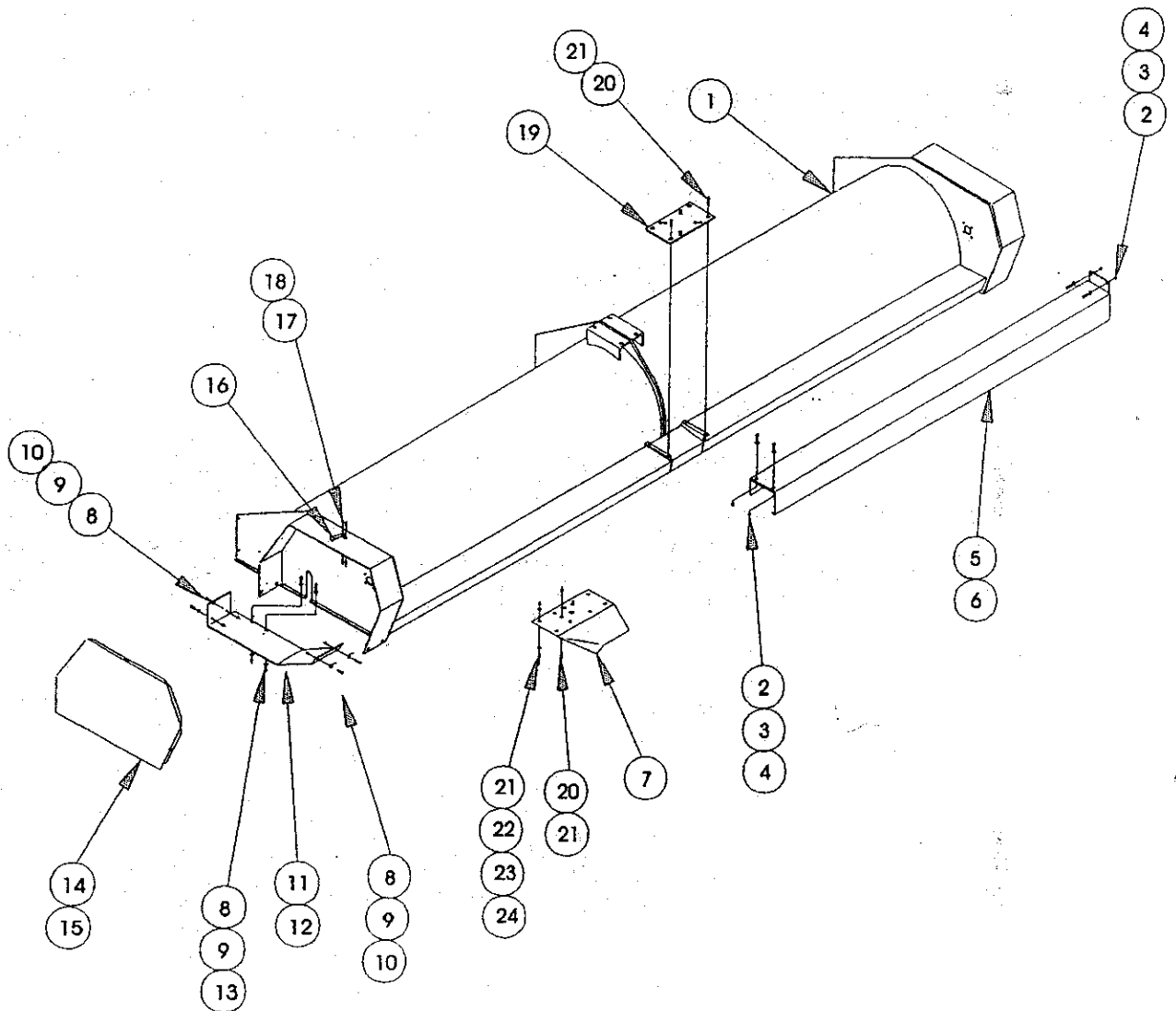


ITEM	PART#	QTY	DESCRIPTION
1	18824	1	BELT TIGHTENER MOUNT SHREDDERS
2	28462	1	TIGHTENER ARM 10" IDLER SHREDDER
3	12400	1	PIPE BUSHING .87x.156RMT
4	18826	1	ADJUSTER LOWER BELT TIGHTENER
5	24587	1	TIGHTENER HALF INNER
6	2616	1	SPRING COMPRESSION 410# 5.5"FREE/.75"ID/1.43"OD
7	24584	1	TIGHTENER HALF OUTER
8	1696	1	NUT .62 HEX GRADE 5 Z.P.
9	18825	1	ADJUSTER UPPER BELT TIGHTENER
10	28461	1	IDLER PULLEY 10"
11	24589	2	BUSHING BELT TIGHTENER PULLEY .62 ID X 1.18
12	2291	1	ZERK .12 PIPE STRAIGHT
13	1263	3	BOLT .5 X 5.5 HEX HEAD GRADE 5 Z.P.
14	2539	3	NUT .5 TOPLOCK GRADE 8 Z.P.
15	1302	1	BOLT .62 X 5.5 HEX HEAD GRADE 5 Z.P.
16	2546	1	NUT .62 TOPLOCK GRADE 8 Z.P.
17	12333	1	COUPLING .12 NPT (STEEL)
18	24177	1	HOSE .12 X 21.5" GREASE LINE

COMPLETE RIGHT HAND TIGHTENER, PART# 28458

6/18/04

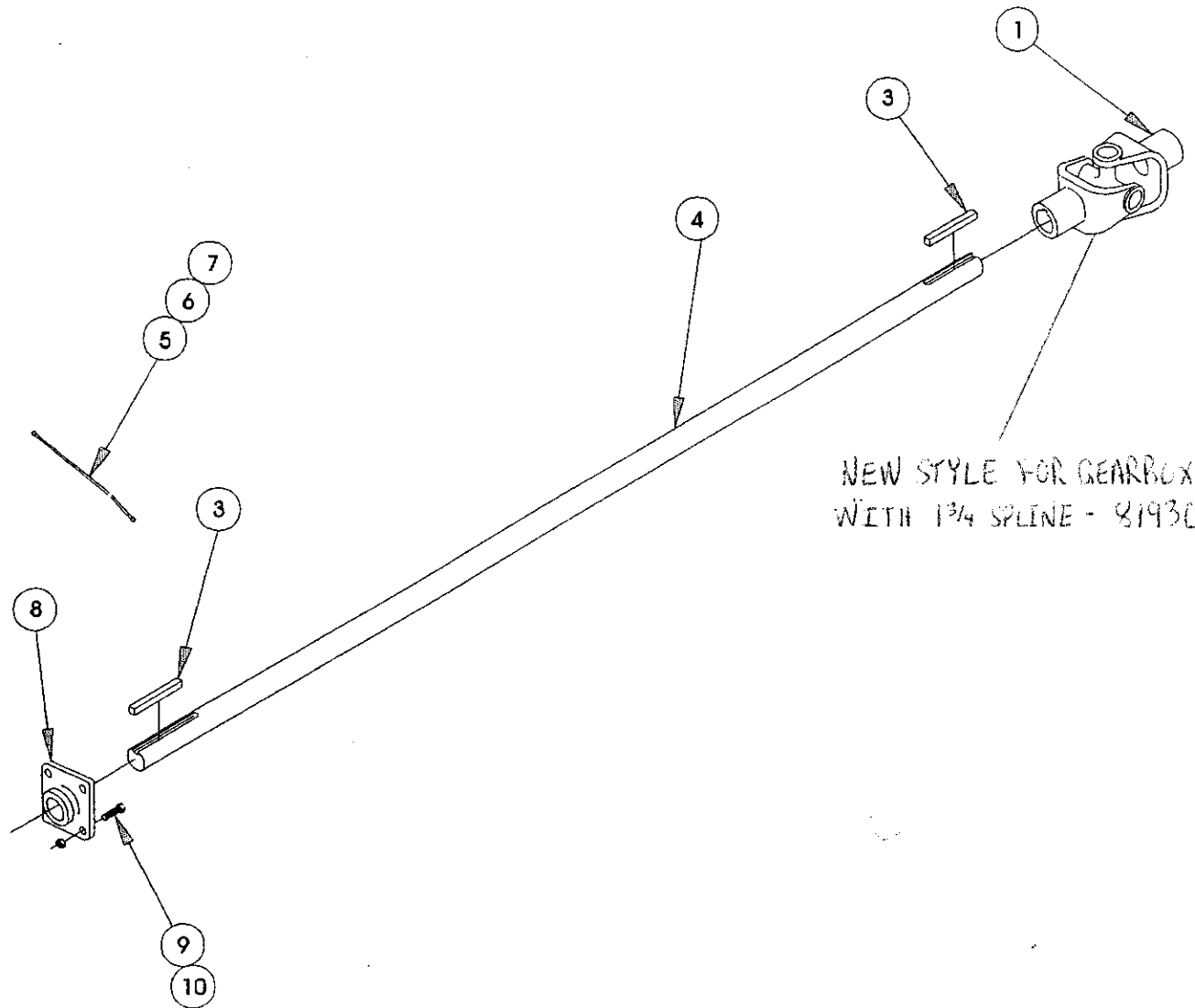
28459 - LH



ITEM	PART NO.	QTY.	DESCRIPTION
24	XO1291		BOLT, 6/2" X 2" HEX HD
23	XO1602		FLAT WASHER .62
22	XO1640		LOCK WASHER .62
21	XO2546	4	NUT, 5/8" HEX HD TOPLOCK GR.8
20	XO1290	4	BOLT, 5/8" X 1-3/4" LG. HEX HD
19	X28491	1	MOUNT, GEAR BOX
18	XO2564	8	NUT, 1/4" HEX HD. (LOCKING)
17	XO1161	8	BOLT, 1/4" X 5/8" LG. HEX HD.
16	X14403	4	LATCH, HOOD
15	X28473	1	SHIELD, L.H. END
14	X28472	1	SHIELD, R.H. END
13	XO1207	4	BOLT, 3/8" X 1-1/4" LG. HEX HD.
12	X28468	1	PANEL, R.H. BOTTOM END
11	X28467	1	PANEL, L.H. BOTTOM END
10	XO2496	12	NUT, 3/8" HEX HD (LOCKING)

ITEM	PART NO.	QTY.	DESCRIPTION
9	XO1598		FLATWASHER, 3/8"
8	XO1206		BOLT, 3/8" X 1" LG. HEX HD.
7	X17307	1	SHIELD, GEAR BOX
6	X12423	1	SHIELD, L.H. LINE SHAFT (1200)
5	X12422	1	SHIELD, R.H. LINE SHAFT (1200)
4	XO1185		BOLT, 5/16" X 1" LG. HEX HD.
3	XO1597		FLATWASHER, 5/16"
2	XO2475		NUT, 5/16" HEX HD. (LOCKING)
1	X28000	1	HOUSING, MAIN (1200)

	B	9-12-95	REVISED	DATE 1-13-95	MAIN HOUSING -MODELS 1200 CON.-	REF. NO. 20207
	REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/2" = 1"		DRAWN TWS



NEW STYLE FOR GEARBOX
WITH 1 3/4 SPLINE - 81930

10	XO2546		NUT, 5/8" HEX HD TOPLOCK
9	XO1290		BOLT, 5/8" X 1.25" LG"
ITEM	PART NO.	QTY.	DESCRIPTION

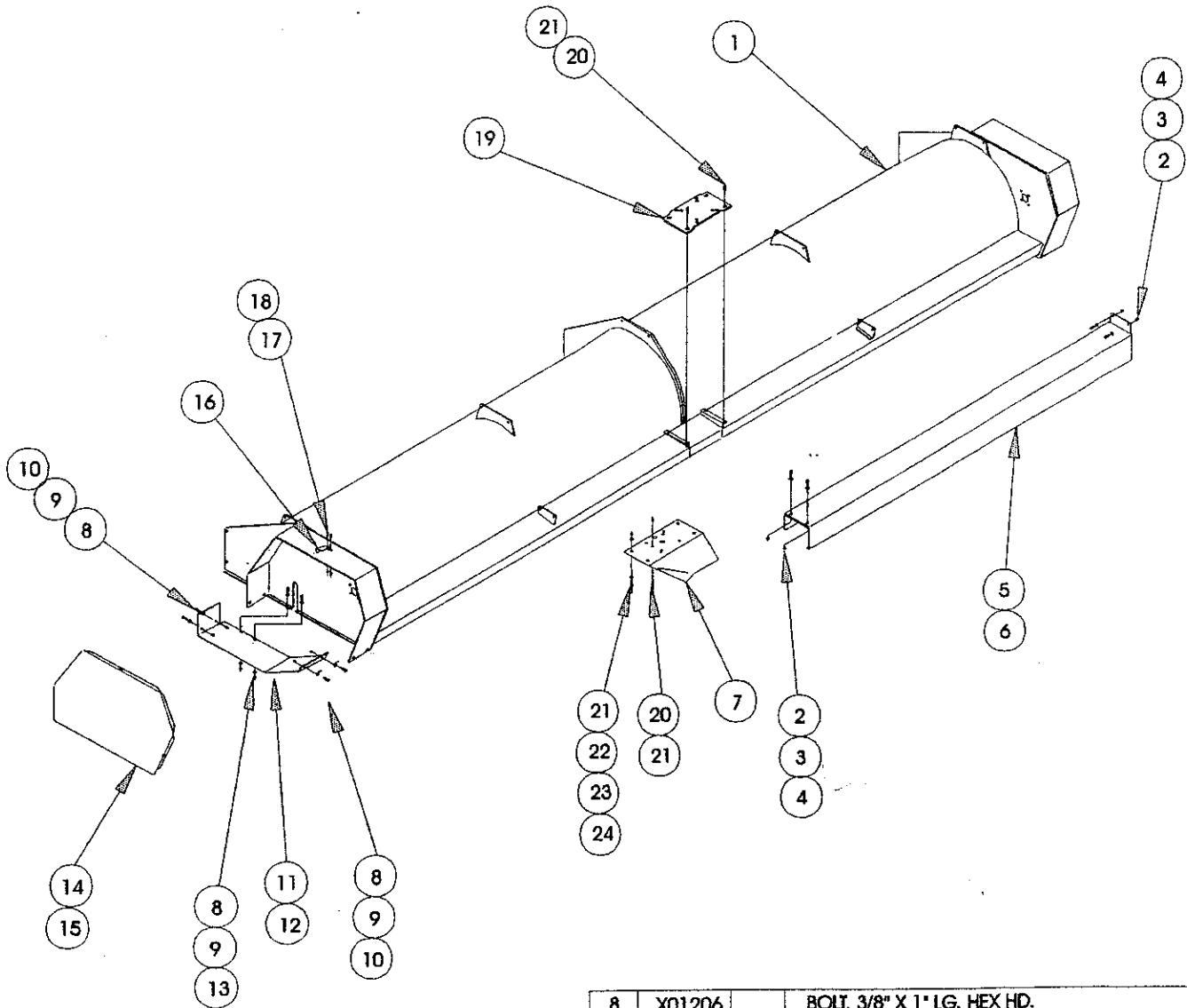
8	X20092	2	BEARING, 1-3/4" 4-BOLT
7	XO2291	2	ZERK, 1/8" NPT
6	X12333	2	COUPLER, 1/8" NPT
5	X24179	2	HOSE, GREASE LINE (1/8" X 30" LG.)
4	X31367	2	SHAFT 1-3/4" X 81-5/16" LG. (1500)
	X31366	2	SHAFT 1-3/4" X 63-5/16" LG. (1200)
3	XO2408	4	KEY, 3/8" X 2-1/2" LG.
2	X12911	2	KIT, CROSS & BEARING (NOT SHOWN)
1	X24239	2	U-JOINT, 1-3/4"
ITEM	PART NO.	QTY.	DESCRIPTION



B	9-13-95	REVISED	DATE 1-19-95
REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/4" = 1"
			DRAWN TMS

DRIVE LINE ASSEMBLY
MODELS 1200-1500

REF. NO. 20211
DRAWING NO. SC500106

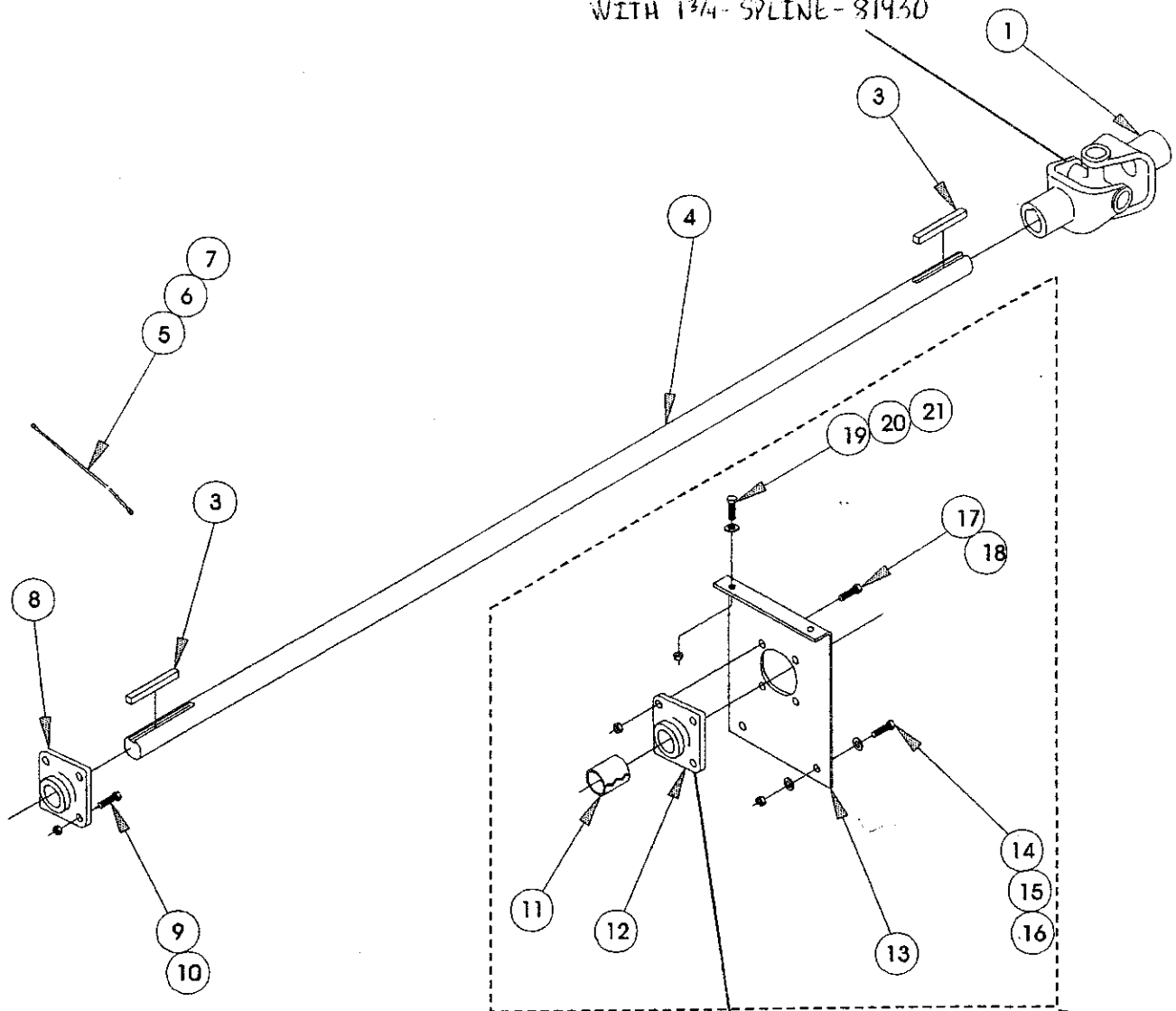


24	X01602		FLATWASHER, 5/8"
23	X01640		LOCKWASHER, 5/8"
22	X01291		BOLT, 5/8" X 2" LG. HEX HD GR.5
21	X02546		NUT, 5/8" HEX HD TOPLOCK GR.8
20	X01290		BOLT, 5/8" X 1-1/2" LG. HEX HD
19	X28491	1	MOUNT, GEAR BOX
18	X02564		NUT, 1/4" HEX HD. (LOCKING)
17	X01161		BOLT, 1/4" X 5/8" LG. HEX HD.
16	X14403	4	LATCH, HOOD
15	X28473	1	SHIELD, L.H. END
14	X28472	1	SHIELD, R.H. END
13	X01207		BOLT, 3/8" X 1-1/4" LG. HEX HD.
12	X28467	1	PANEL, L.H. BOTTOM END
11	X28466	1	PANEL, R.H. BOTTOM END
10	X01598		FLATWASHER, 3/8"
9	X02496		NUT, 3/8" HEX HD. (LOCKING)
ITEM	PART NO.	QTY.	DESCRIPTION

8	X01206		BOLT, 3/8" X 1" LG. HEX HD.
7	X17307	1	SHIELD, GEARBOX
6	X24173	1	SHIELD, L.H. LINE SHAFT (1500)
	X24109	1	SHIELD, L.H. LINE SHAFT (2000)
	X24065	1	SHIELD, L.H. LINE SHAFT (1800)
5	X24172	1	SHIELD, R.H. LINE SHAFT (1500)
	X24108	1	SHIELD, R.H. LINE SHAFT (2000)
	X24064	1	SHIELD, R.H. LINE SHAFT (1800)
4	X02475		NUT, 5/16" HEX HD. (LOCKING)
3	X01597		FLATWASHER, 5/16"
2	X01185		BOLT, 5/16" X 1" LG. HEX HD.
1	X28001	1	HOUSING, MAIN (1500)
	X28002	1	HOUSING, MAIN (1800)
	X28003	1	HOUSING, MAIN (2000)
ITEM	PART NO.	QTY.	DESCRIPTION

	B	9-12-95	REVISED	DATE 1-16-96	MAIN HOUSING MODELS 1500-1800-2000	REF. NO. 20208
	REV	DATE	DESCRIPTION OF REVISION	SCALE 1/8" = 1"		DRAWING NO. SC500102

NEW STYLE FOR GEARBOX
WITH 1 3/4" SPLINE - 81930



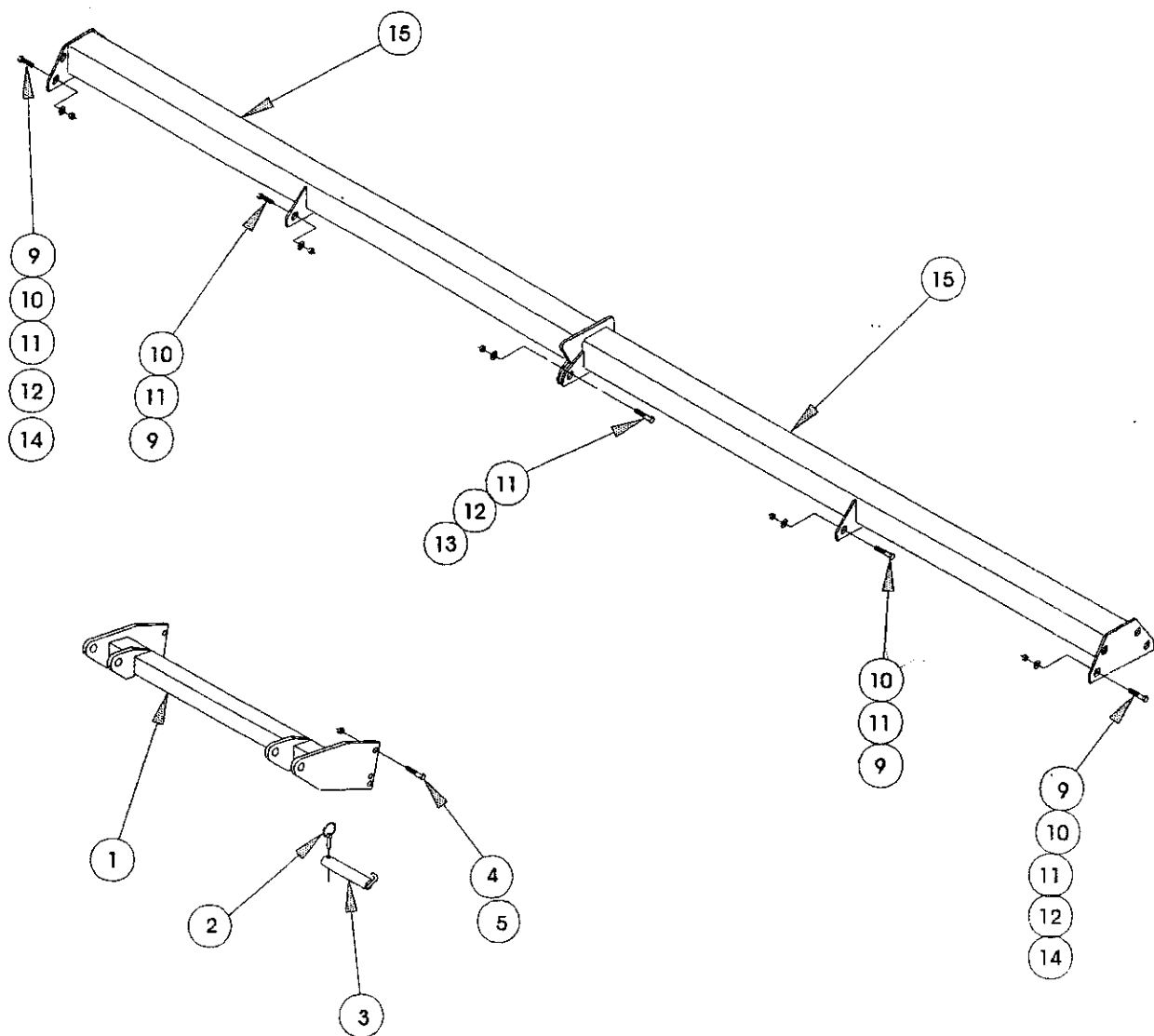
NEW STYLE 2 BOLT FLANGE BEARING - 81915

21	XO2475		NUT, 5/16" HEX HD TOPLOCK
20	XO1597		FLATWASHER, 5/16"
19	XO1185		BOLT, 5/16" X 1" LG. HEX HD
18	XO2546		NUT, 5/8" HEX HD TOPLOCK
17	XO1290		BOLT, 5/8" X 1-3/4" LG. HEX HD
16	XO2539		NUT, 1/2" HEX HD TOPLOCK
15	XO1600		FLATWASHER, 1/2"
14	XO1249		BOLT, 1/2" X 1-1/4" LG. HEX HD.
13	X24223	4	PLATE, MOUNTING
12	X16895	4	BEARING, 2" 4-BOLT
11	X24203	4	SLEEVE, 1-3/4"
10	XO2546		NUT, 5/8" HEX HD TOPLOCK
9	XO1290		BOLT, 5/8" X 1-3/4" LG.
ITEM	PART NO.	QTY.	DESCRIPTION

NOTE: ITEMS #11 THRU #21
USED ON 1500' WITH ROTOR
SPEED 1750 + 2000 RPM

8	X20092	2	BEARING, 1-3/4" 4-BOLT
7	XO2291	2	ZERK, 1/8" NPT
6	X12333	2	COUPLER, 1/8" NPT
5	X24179	2	HOSE, GREASE LINE (1/8" X 30" LG.)
4	X24236	2	SHAFT, 1-3/4" X 112-11/16" LG.(2000)
4	X24235	2	SHAFT, 1-3/4" X 100-11/16" LG.(1800)
3	XO2408	4	KEY, 3/8" X 2-1/2" LG.
2	X12911	2	KIT, CROSS & BEARING (NOT SHOWN)
1	X24239	2	U-JOINT, 1-3/4"
ITEM	PART NO.	QTY.	DESCRIPTION

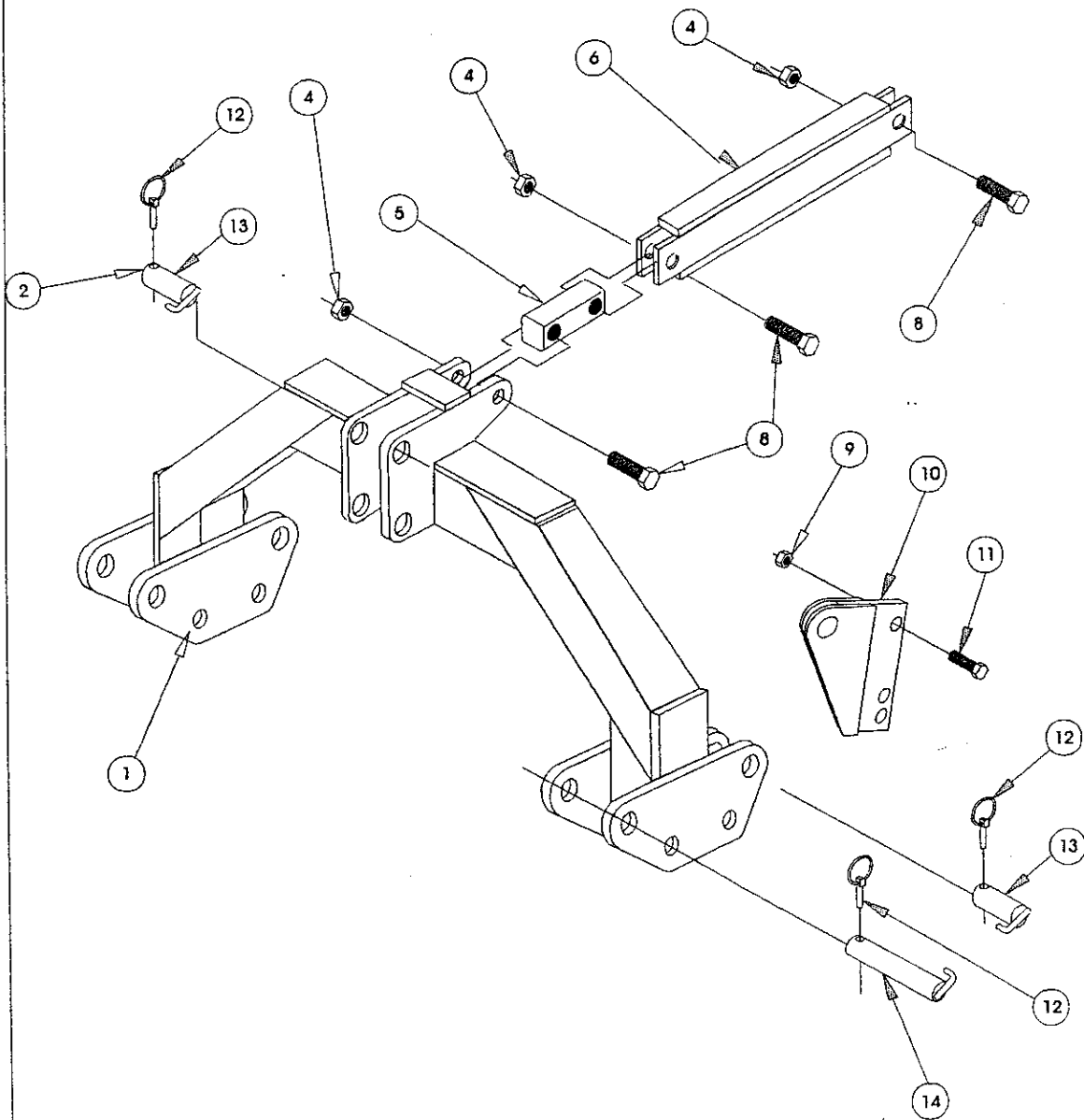
	B	9-13-95	REVISED	DATE 1-19-95	DRIVE LINE ASSEMBLY MODELS 1800-2000	REF. NO. 20211
	REV	DATE	DESCRIPTION OF REVISION	SCALE 1/4" = 1"		DRAWN TWS



15	X24371	1	TUBE, MOUNTING (2000)
	X24417	1	TUBE, MOUNTING (1800)
	X28416	1	TUBE, MOUNTING (1500)
	X28415	1	TUBE, MOUNTING (1200)
14	XO1290		BOLT, .62 X 1.75
13	XO1291		BOLT, 5/8" X 2" LG. HEX HD
12	XO1294		BOLT, 5/8" X 2.75" LG. HEX HD
ITEM	PART NO.	QTY.	DESCRIPTION

11	XO2546		NUT, 5/8" HEX HD. TOPLOCK
10	XO1602		FLATWASHER, 5/8"
9	XO1293		BOLT, 5/8" X 2-1/2" LG. HEX HD
5	XO1777	6	NUT, 3/4" HEX HD. TOPLOCK
4	XO1313	6	BOLT, 3/4" X 2-1/2" LG. HEX HD.
3	X17299	2	PIN, 1-7/16" DIA. X 9" LG.
2	XO2584	2	PIN, 7/16" LYNCH
1	X24377	1	HITCH, 2-POINT
ITEM	PART NO.	QTY.	DESCRIPTION

	B	9-13-95	REVISED	DATE	2002-04-04	SEMI-MOUNT PARTS 1200-1500-1800-2000	REF. NO.	20215
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500116



ITEM	PART NO.	QTY.	DESCRIPTION
20	X01609	4	FLAT WASNER 1.37"
14	X36334	2	8.5" LG
13	X36336	2	PIN, 3.62" LG.
12	X02584	5	PIN, 7/16" X 2" LYNCH
11	X01313	6	BOLT, 3/4" X 2-1/2" LG. HEX HD.

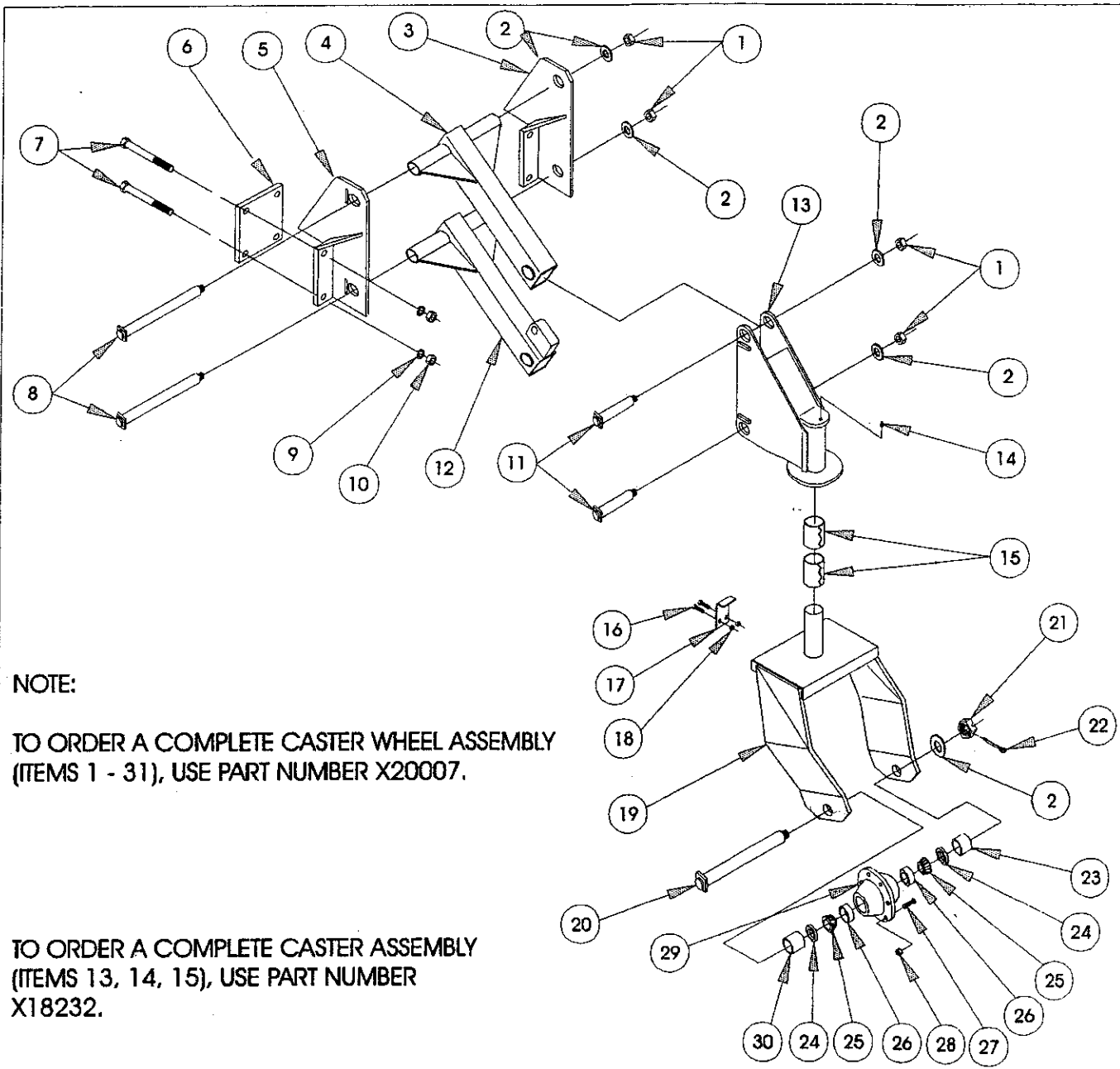
ITEM	PART NO.	QTY.	DESCRIPTION
10	X24355	2	MOUNT, PIVOT
9	X01777	6	NUT, 3/4" HEX HD. (LOCKING)
8	X01349	3	BOLT, 1" X 6" LG. HEX HD.
6	X24362	1	TUBE, LIFT
5	X24570	1	TUBE, LINKAGE
4	X01779	3	NUT, 1" HEX HD. (LOCKING)
2	X36352	2	PIN, 1-1/4" X 4.75" LG.
1	X24347	1	"A" - FRAME



REV.	DATE	DESCRIPTION OF REVISION
B	9-13-95	REVISED

FULL MOUNT PARTS
 CONVENTIONAL SHREDDER 2200-2650

REF. NO.	20212
DRAWING NO.	SC500115



NOTE:

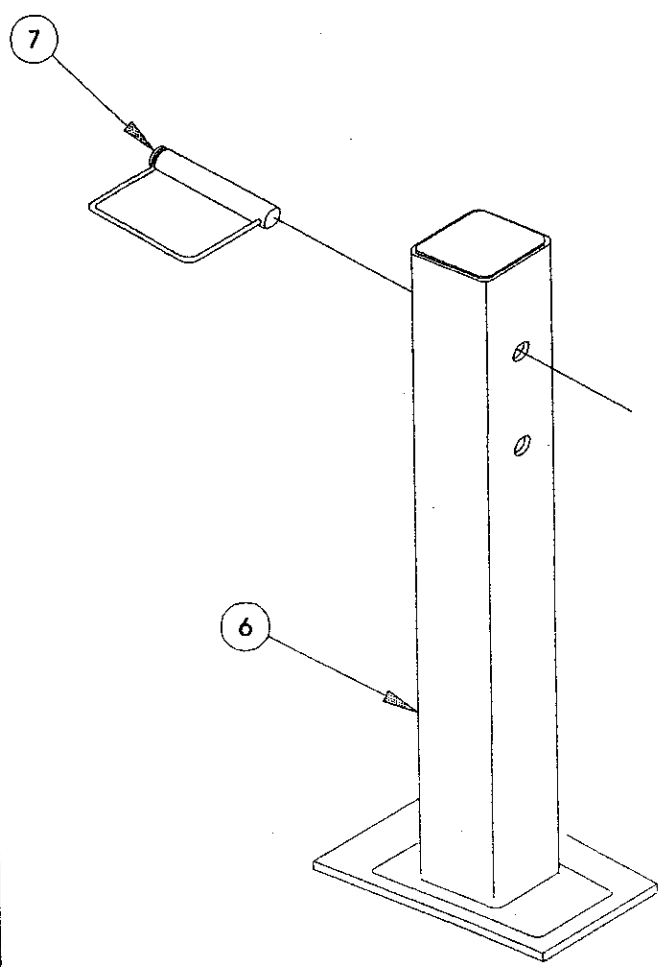
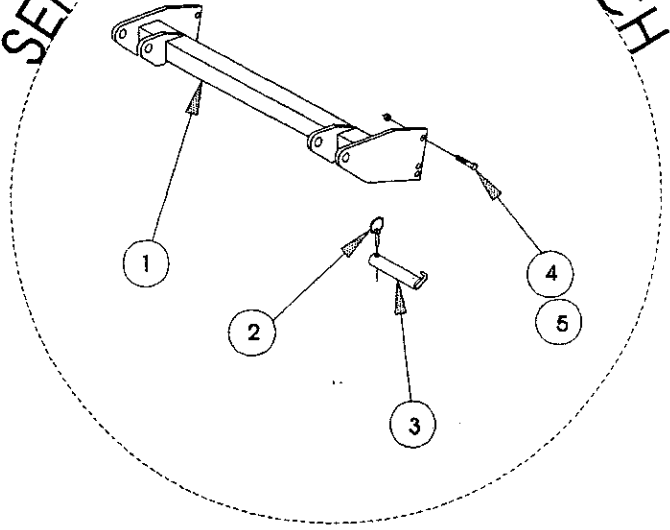
TO ORDER A COMPLETE CASTER WHEEL ASSEMBLY (ITEMS 1 - 31), USE PART NUMBER X20007.

TO ORDER A COMPLETE CASTER ASSEMBLY (ITEMS 13, 14, 15), USE PART NUMBER X18232.

31	XO8125	1	WHEEL, 15" X 6" 6-BOLT (NOT SHOWN)	16	XO1206	2	BOLT, 3/8" X 1" LG. HEX HD.
30	X18887	1	SPACER	15	X18888	2	BUSHING, 2" TENSION
29	X18935	1	HUB, 6-BOLT W/CUPS	14	XO2291	1	ZERK, 1/8" NPT GREASE
28	XO2605	6	NUT, WHEEL	13	X18886	1	HOUSING, CASTER
27	XO2604	6	STUD, WHEEL	12	X18182	1	LINK, CASTER BOTTOM
26	XO7598	2	CUP, BEARING	11	X18192	2	PIN, SHORT PIVOT
25	X18900	2	CONE, BEARING	10	XO1697	8	NUT, 3/4" HEX HD.
24	X18934	2	SEAL	9	XO1641	8	LOCKWASHER, 3/4"
23	X18905	1	SPACER	8	X18191	2	PIN, LONG PIVOT
22	XO2048	1	PIN, 5/32" X 2-1/2" LG. COTTER	7	XO1325	8	BOLT, 3/4" X 8" LG. HEX HD.
21	XO1754	1	NUT, 1" CASTLE	6	X18175	2	PLATE, MOUNTING
20	X18891	1	SPINDLE, 1-1/2" DIA. X 13-1/2" LG.	5	X18177	1	ANGLE, L.H. MOUNTING
19	X18889	1	FORK, CASTER	4	X18181	1	LINK, CASTER TOP
18	XO2496	2	NUT, 3/8" HEX HD. (LOCKING)	3	X18176	1	ANGLE, R.H. MOUNTING
17	X18893	1	BRACKET, RETAINER	2	XO1605	5	FLATWASHER, 1"
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

	B	9-13-95	REVISED	DATE	1-12-96	CASTER ARM ASSEMBLY	REF. NO.	20204
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWN	TWS

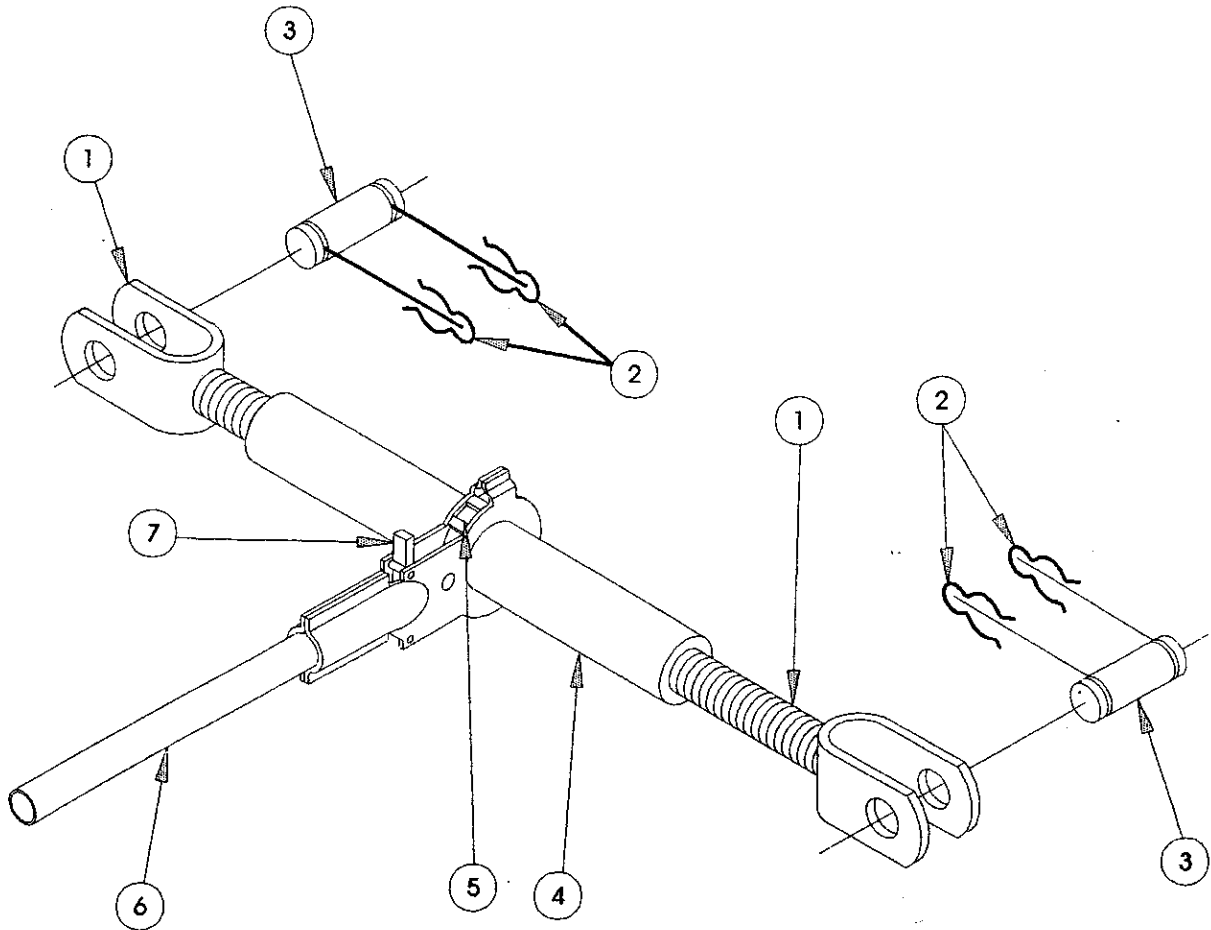
SEMI MOUNT 2-POINT HITCH



5	XO1777	6	NUT, 3/4" HEX HD. TOPLOCK
4	XO1313	6	BOLT, 3/4" X 2-1/2" LG. HEX HD.
3	X17299	2	PIN, 1-7/16" DIA. X 9" LG.
2	XO2584	2	PIN, 7/16" LYNCH
1	X24377	1	HITCH, 2-POINT
ITEM	PART NO.	QTY.	DESCRIPTION

7	X24384	2	PIN, HITCH
6	X28476	1	STAND, JACK
ITEM	PART NO.	QTY.	DESCRIPTION

BALZER	B	9-13-95	REVISED	DATE: 2-28-95	JACK STAND	REF. NO. 20226
	REV.	DATE	DESCRIPTION OF REVISION	SCALE: 1/4" = 1"		DRAWING NO. SC500113
				DRAWN: TWS		

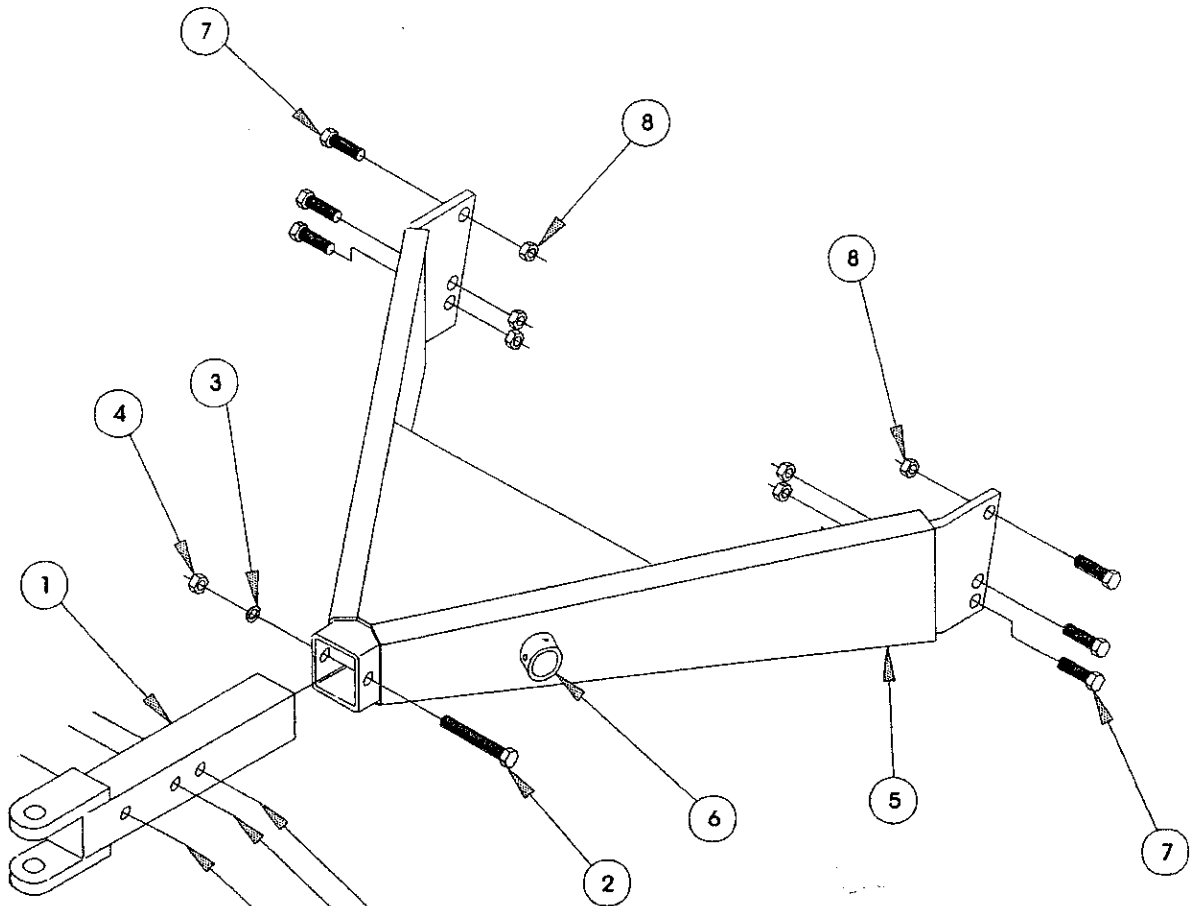


NOTE:

TO ORDER A COMPLETE RATCHET JACK ASSEMBLY, USE PART NUMBER X12267.

7	X12954	1	FINGER, RATCHET	4	X12952	1	HOUSING, MAIN
6	X12956	1	HANDLE	3		2	PIN, 1" DIA. (INCLUDED W/JACK)
5	X12953	1	RATCHET	2		4	CLIP, HAIR PIN (INCLUDED W/JACK)
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
				1	X12951	2	SCREW YOKE ASSEMBLY

BALZER	B	9-13-96	REVISED	DATE	2-28-96	RATCHET JACK ASSEMBLY	REF. NO.	12267
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500112



USE THIS ADJUSTMENT MOUNTING HOLE FOR 1-3/4" 1000 RPM PTO.

USE THIS ADJUSTMENT MOUNTING HOLE FOR 1-3/8" 1000 RPM PTO.

USE THIS ADJUSTMENT MOUNTING HOLE FOR 540 RPM PTO.

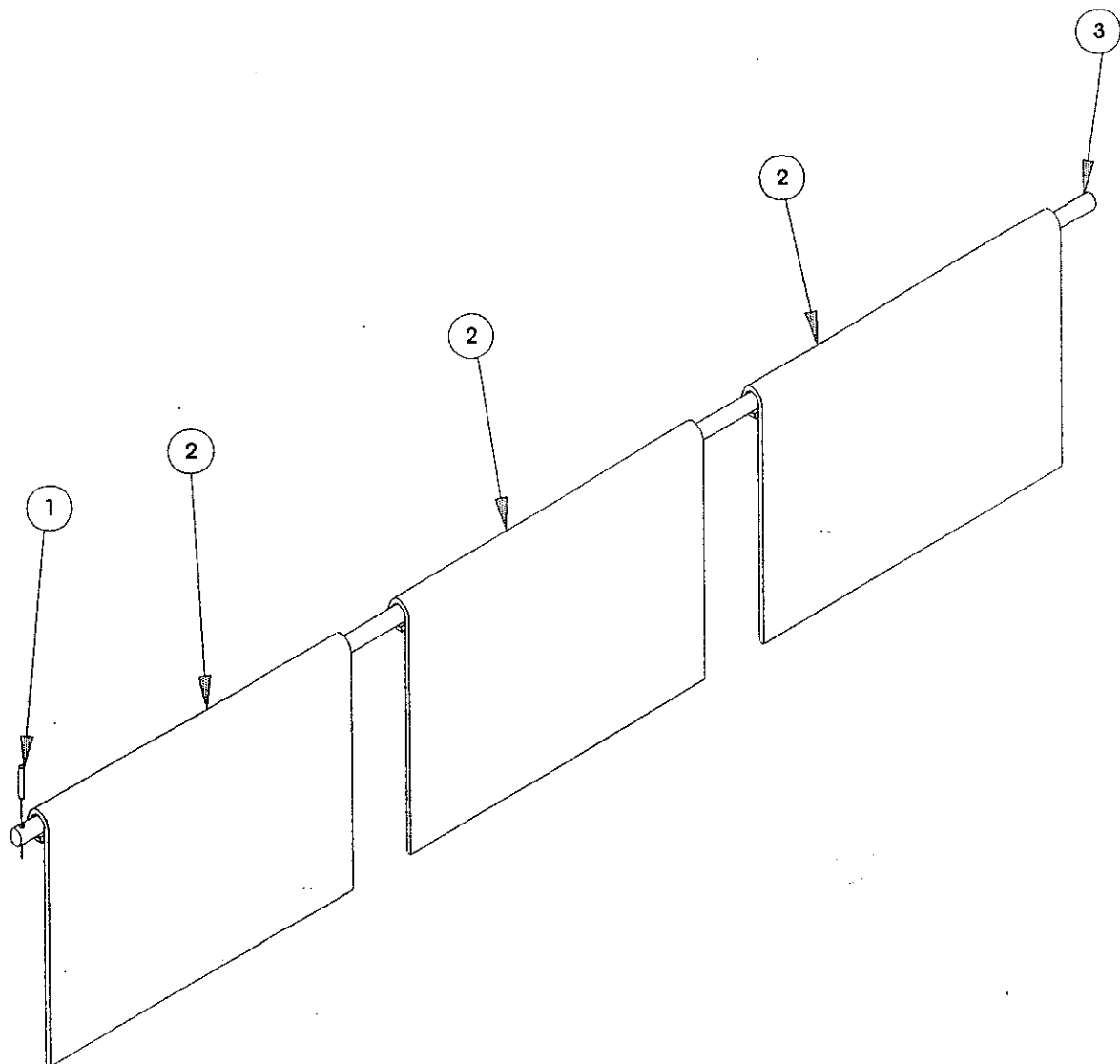
NOTE:


TO ORDER A COMPLETE PULL TYPE HITCH (ITEMS 1 & 5), USE PART NUMBER X24283.

ITEM #6 (X10520) IS INCLUDED WITH TONGUE HITCH, BUT CAN BE ORDERED SEPARATE.

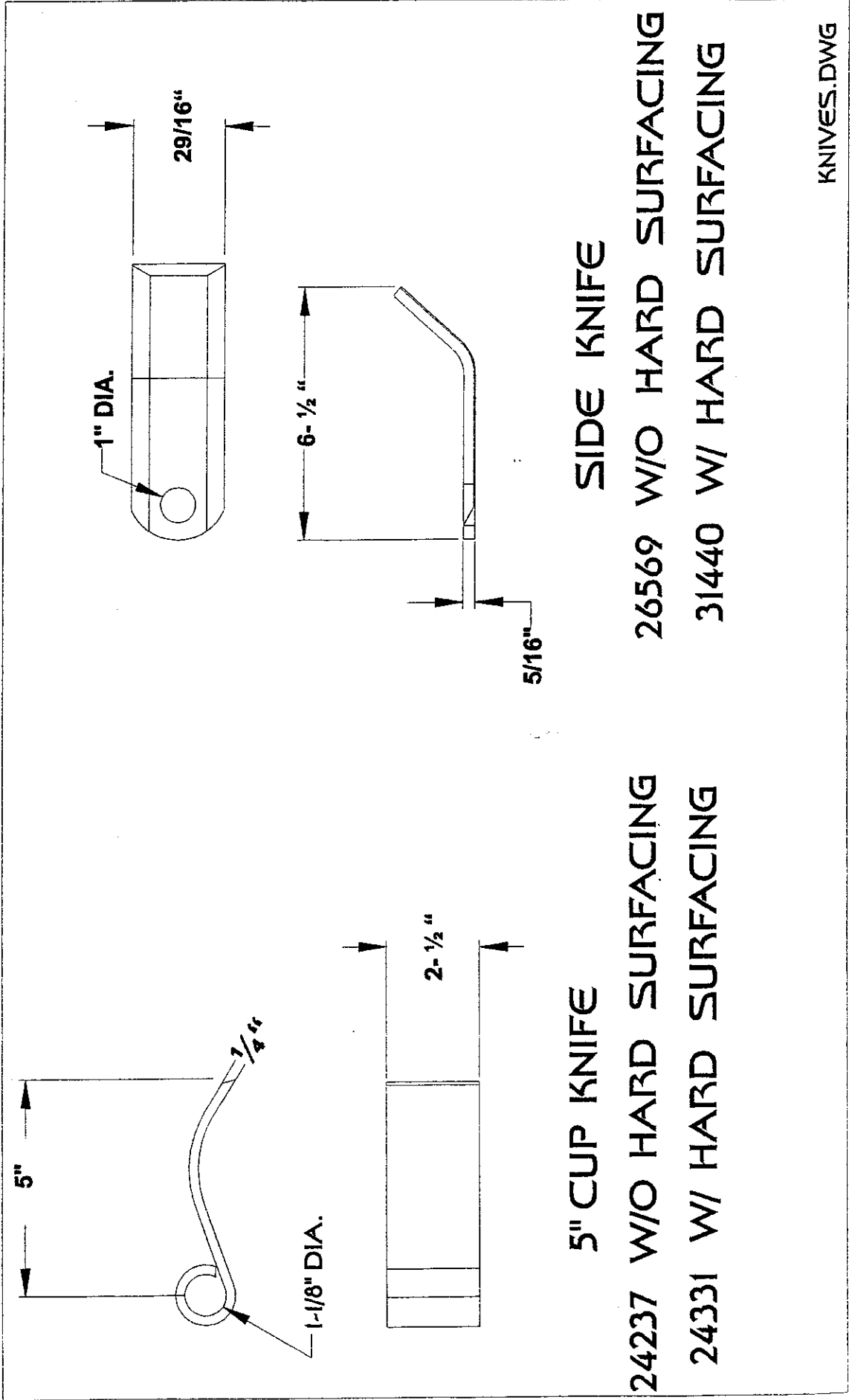
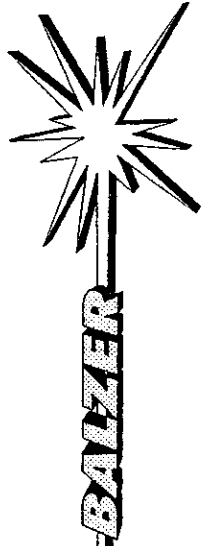
8	XO1777	6	NUT, 3/4" HEX HD. (LOCKING)	4	XO1697	1	NUT, 3/4" HEX HD.
7	XO1313	6	BOLT, 3/4" X 2-1/2" LG. HEX HD.	3	XO1641	1	LOCKWASHER, 3/4"
6	X10520	1	SWIVEL, MALE (INCLUDED W/ITEM #5)	2	XO1320	1	BOLT, 3/4" X 5" LG. HEX HD.
5	X24284	1	HITCH, TONGUE	1	X24295	1	TONGUE, ADJUSTING
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

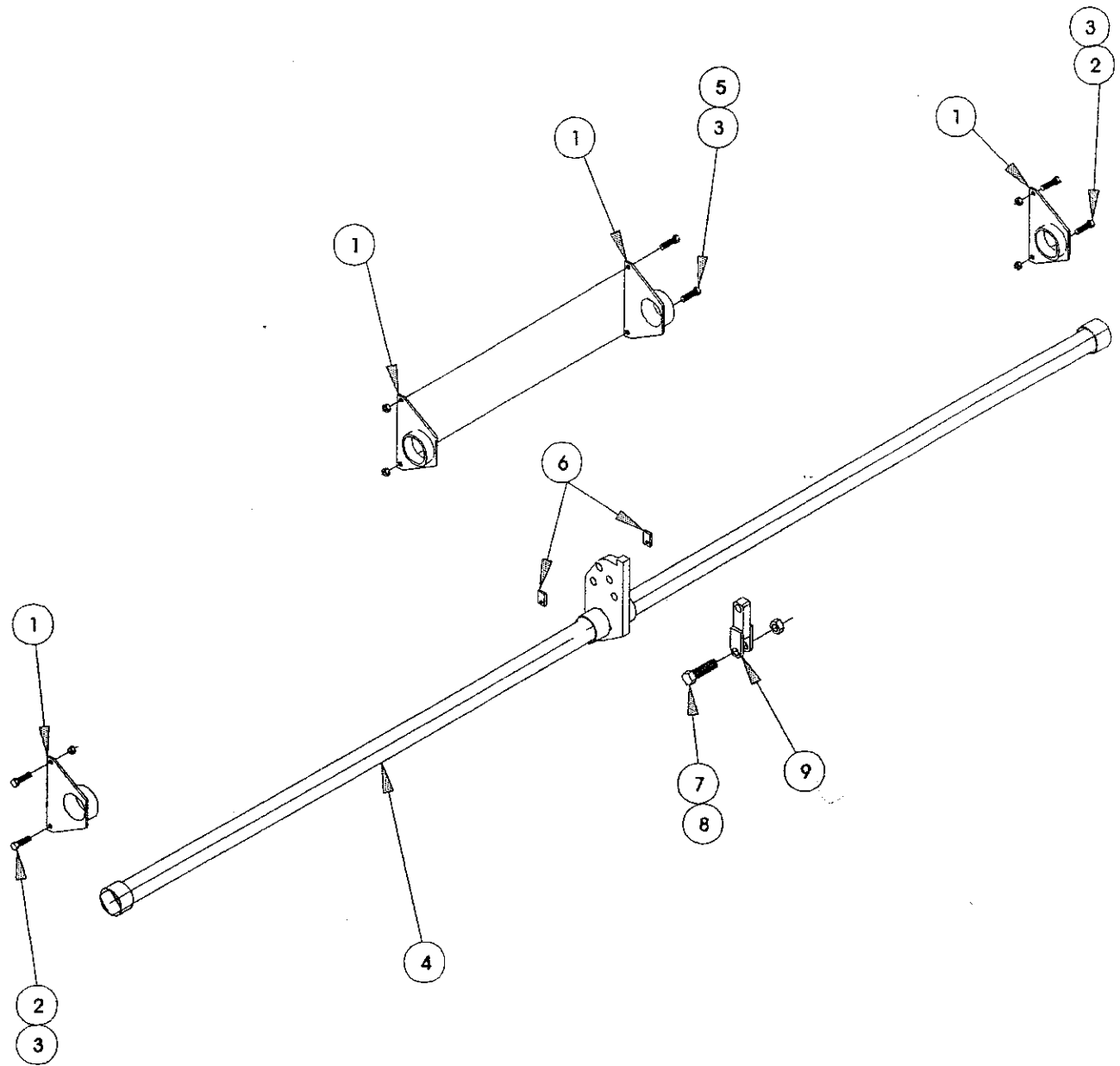
BALZER	B	9-13-95	REVISED	DATE	1-16-96	PULL TYPE HITCH	REF. NO.	20209
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500110



3	X24104	2	ROD, HINGE (20 FT. UNIT)	2	X28450		GUARD, HINGING 5 5/8	
	X24103	2	ROD, HINGE (18 FT. UNIT)		X28045		GUARD, HINGING 11 3/8	
	X24188	2	ROD, HINGE (15 FT. UNIT)		1	XO1850	2	PIN, 1/8" X 1" LG. ROLL
	X12365	2	ROD, HINGE (25 FT. UNIT)					
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION	
				B	9-13-96	REVISED	DATE 1-13-96 SCALE 1/4" = 1" DRAWN TWS	REF. NO. 20206 DRAWING NO. SC500109
				REV.	DATE	DESCRIPTION OF REVISION	HINGING GUARD & ROD	

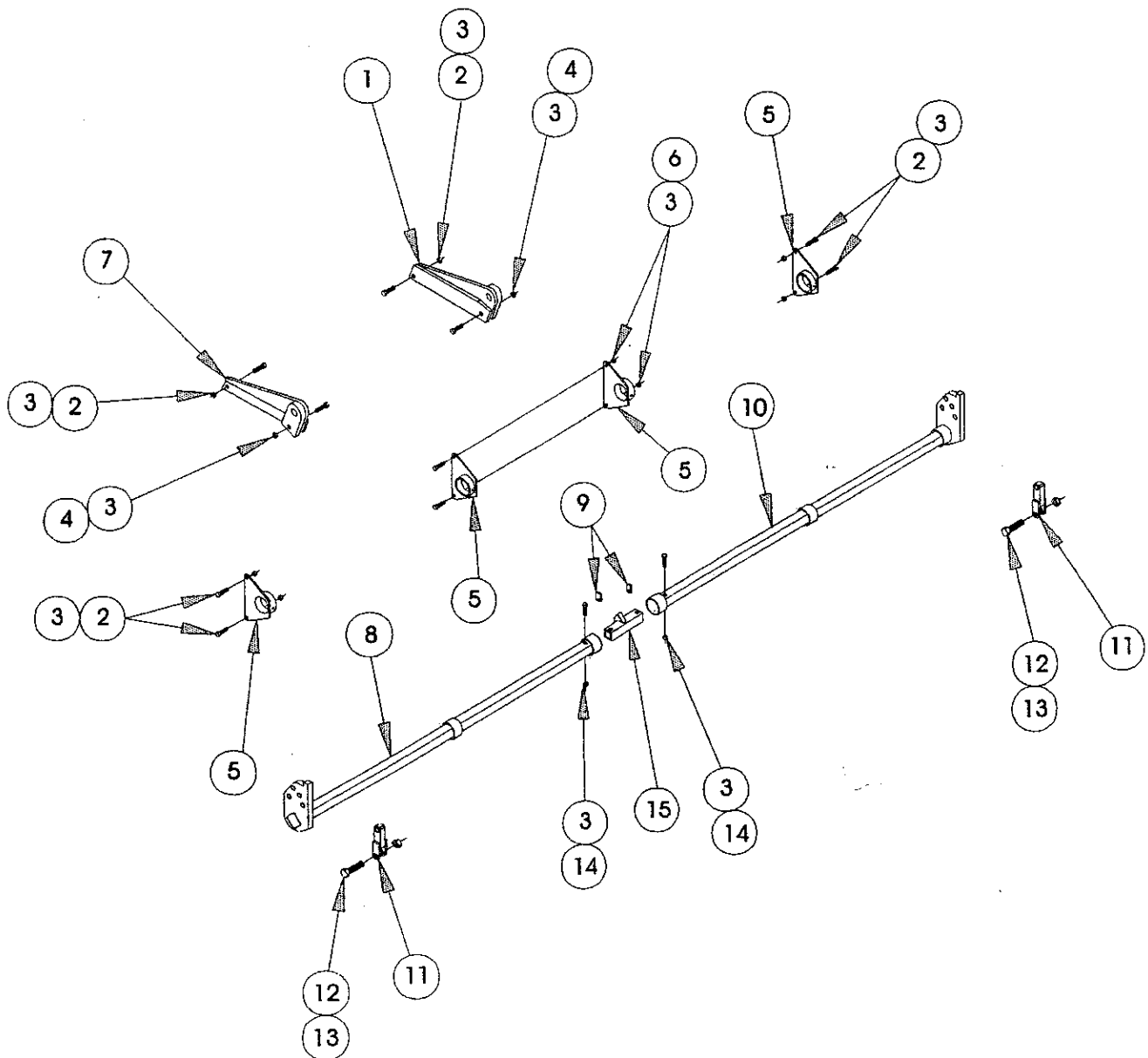
Knife Options





9	X24276	1	ARM CLEVIS	4	X24265	1	ROCKSHAFT (15 FT.)
8	XO1779		NUT, 1" HEX HD TOPLOCK		X24264	1	ROCKSHAFT (12 FT.)
7	XO1354		BOLT, 1" X 3-1/4" LG. HEX HD	3	XO2546		NUT, 5/8" HEX HD TOPLOCK
6	X24282	2	SPACER, LOWER	2	XO1290		BOLT, 5/8" X 1-3/4" LG. HEX HD.
5	XO1293		BOLT, 5/8" X 2-1/2" LG. HEX HD	1	X24271	4	BEARING, ROCKSHAFT
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

BALZER		B	9-13-95	REVISED	DATE	1-26-95	ROCKSHAFT MODELS 1200 - 1500	REF. NO.	20213
REV.	DATE	DESCRIPTION OF REVISION		DRAW	TWS	SCALE		1/4" = 1"	DRAWING NO.



15	X24301	1	BAR, ROCKSHAFT SPLICE
14	XO1298		BOLT, 5/8" X 3-3/4" LG. HEX HD.
13	XO1779		NUT, 1" HEX HD TOPLOCK
12	XO1354		BOLT, 1" X 3.25" HEX HD
11	X24276	2	ARM, CLEVIS
10			
	X24313	1	ROCKSHAFT, L. H. (2000)
	X24267	1	ROCKSHAFT, L. H. (1800)
9	X24282	2	SPACER, LOWER
ITEM	PART NO.	QTY.	DESCRIPTION

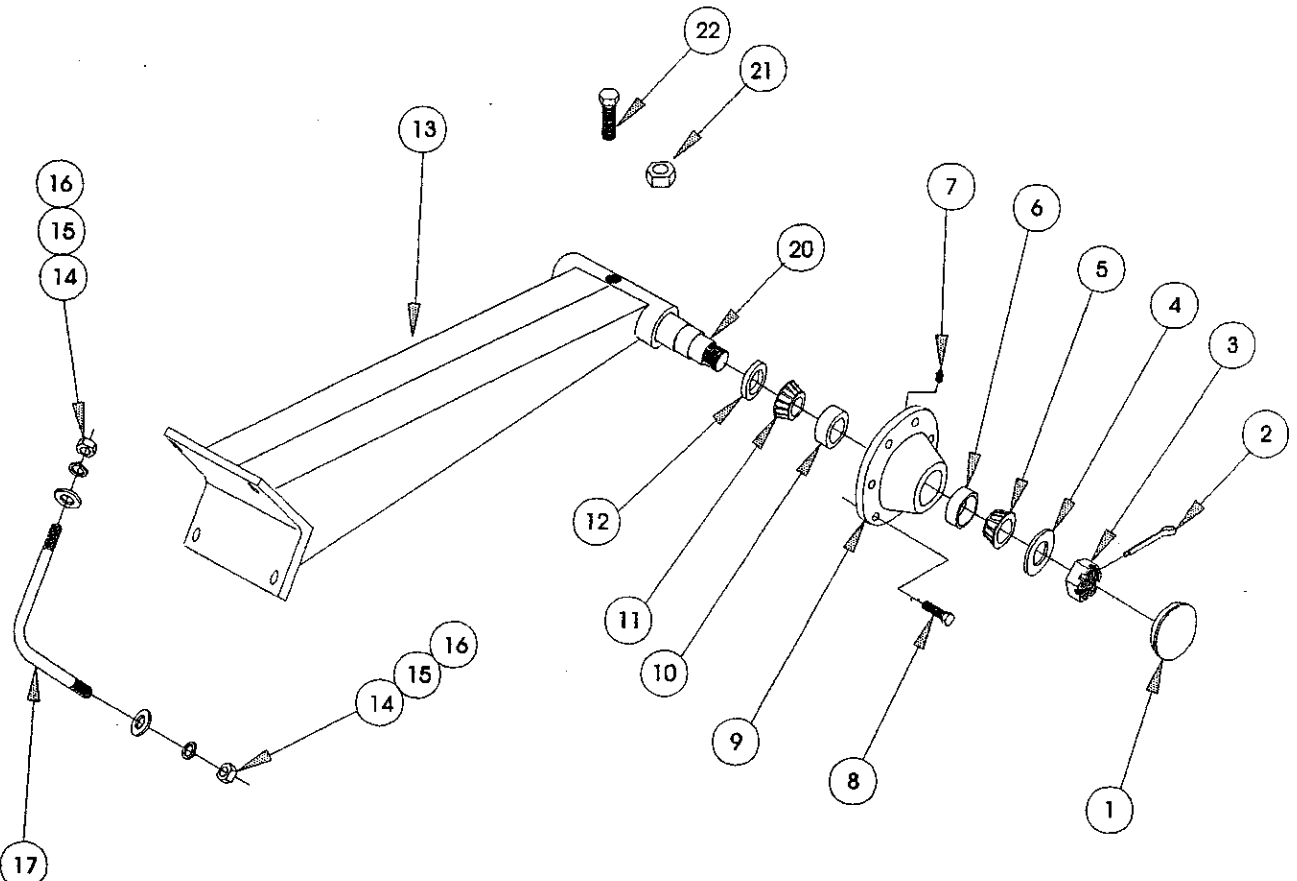
8	X24312	1	ROCKSHAFT, R. H. (2000)
	X24266	1	ROCKSHAFT, R. H. (1800)
7	X24315	1	MOUNT, L. H. CYLINDER
6	XO1294		BOLT, 5/8" X 2-3/4" LG. HEX HD.
5	X24271	8	BEARING, ROCKSHAFT
4	XO1291		BOLT, 5/8" X 2" HEX HD.
3	XO2546		NUT, 5/8" HEX HD TOPLOCK
2	XO1290		BOLT, 5/8" X 1-3/4" HEX HD.
1	X23414	1	MOUNT, R. H. CYLINDER
ITEM	PART NO.	QTY.	DESCRIPTION



B	9-13-95	REVISED	DATE 1-27-95
REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/4" = 1"
			DRAWN TWS

ROCKSHAFT
MODELS 1800-2000

REF. NO.	20214
DRAWING NO.	SC500108



NOTE:

TO ORDER A COMPLETE WHEEL ARM ASSEMBLY
(ITEMS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,
13), USE PART NUMBER X28423

TO ORDER A COMPLETE DUAL ARM ASSEMBLY
(ITEM 19, NOT SHOWN), USE PART NUMBER
X21490.

TO ORDER A COMPLETE HUB AND SPINDLE ASSEMBLY
(ITEMS 5, 6, 7, 8, 9, 10, 11, 12),
USE PART NUMBER X18240

22	X01257	1	BOLT .5 X 3 1/4 GR 5
21	X02539	1	NUT .5 HEX HD TOP LOCK
20	X18241	1	SPINDLE
19	X21490	1	DUAL WHEEL ARM ASSEMBLY (NOT SHOWN)
18	X08125	1	WHEEL, 15" 6-BOLT (NOT SHOWN)
17	X15354	1	BOLT, WHEEL ARM
16	X01602	2	FLATWASHER, 5/8"
15	X01640	2	LOCKWASHER, 5/8"
14	X01696	2	NUT, 5/8" HEX HD.
13	X28425	1	ARM, WHEEL
12	X06572	1	SEAL, GREASE
11	X06573	1	CONE, INNER
10	X06574	1	CUP, INNER

9	X12441	1	HUB, 6-BOLT W/CUPS
8	X09089	6	BOLT, 1/2"-20 UNF X 1-1/2" LG. WHEEL
7	X02286	1	ZERK, 1/4"-28
6	X06663	1	CUP, OUTER
5	X06665	1	CONE, OUTER
4	X01605	1	FLATWASHER, 1"
3	X01754	1	NUT, 1" CASTLE
2	X02048	1	PIN, 5/32" X 2-1/2" LG. COTTER
1	X12442	1	CAP. HUB W/ZERK
	X06666	1	CAP. HUB

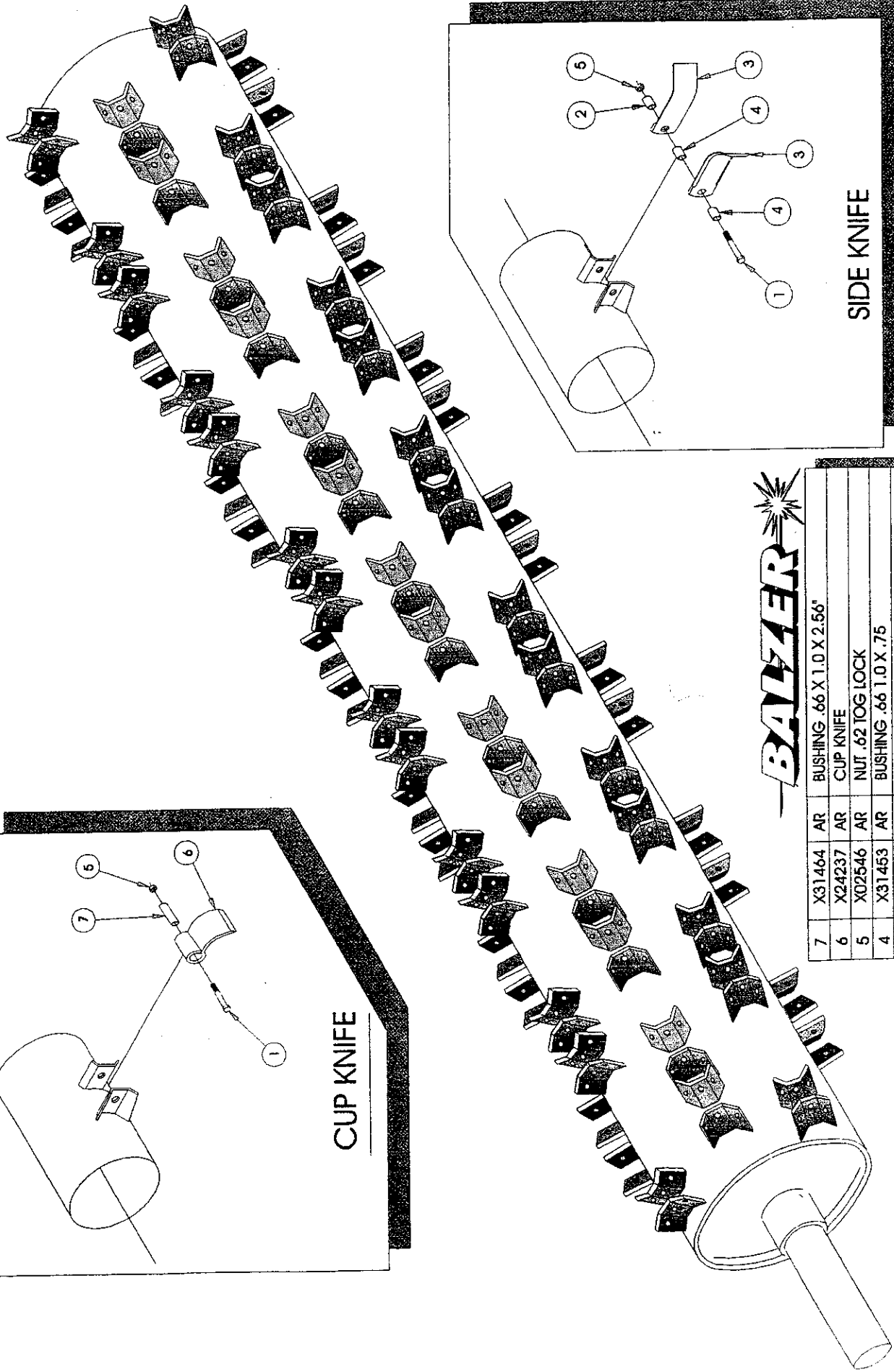
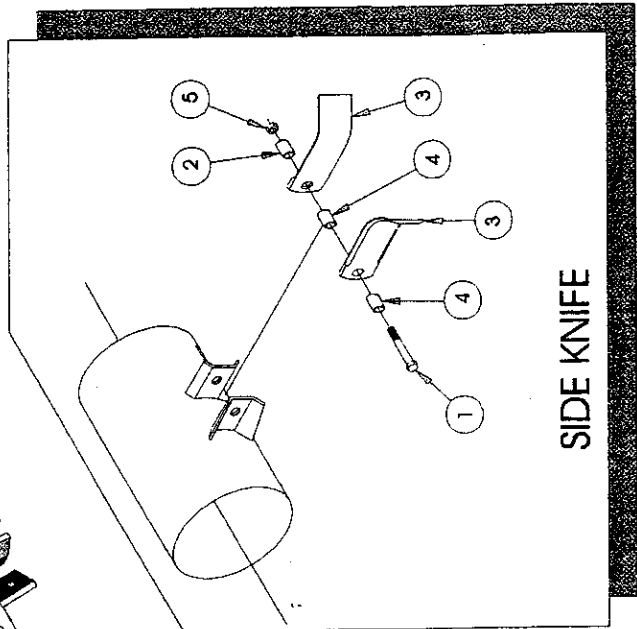
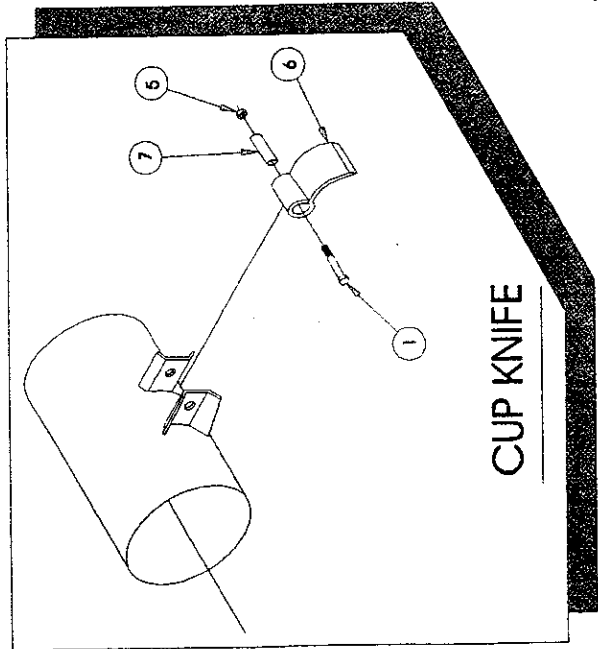
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
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B	9-13-95	REVISED	DATE: 1-24-95
REV.	DATE	DESCRIPTION OF REVISION	SCALE: 1/4" = 1"
			DRAWN: TMS

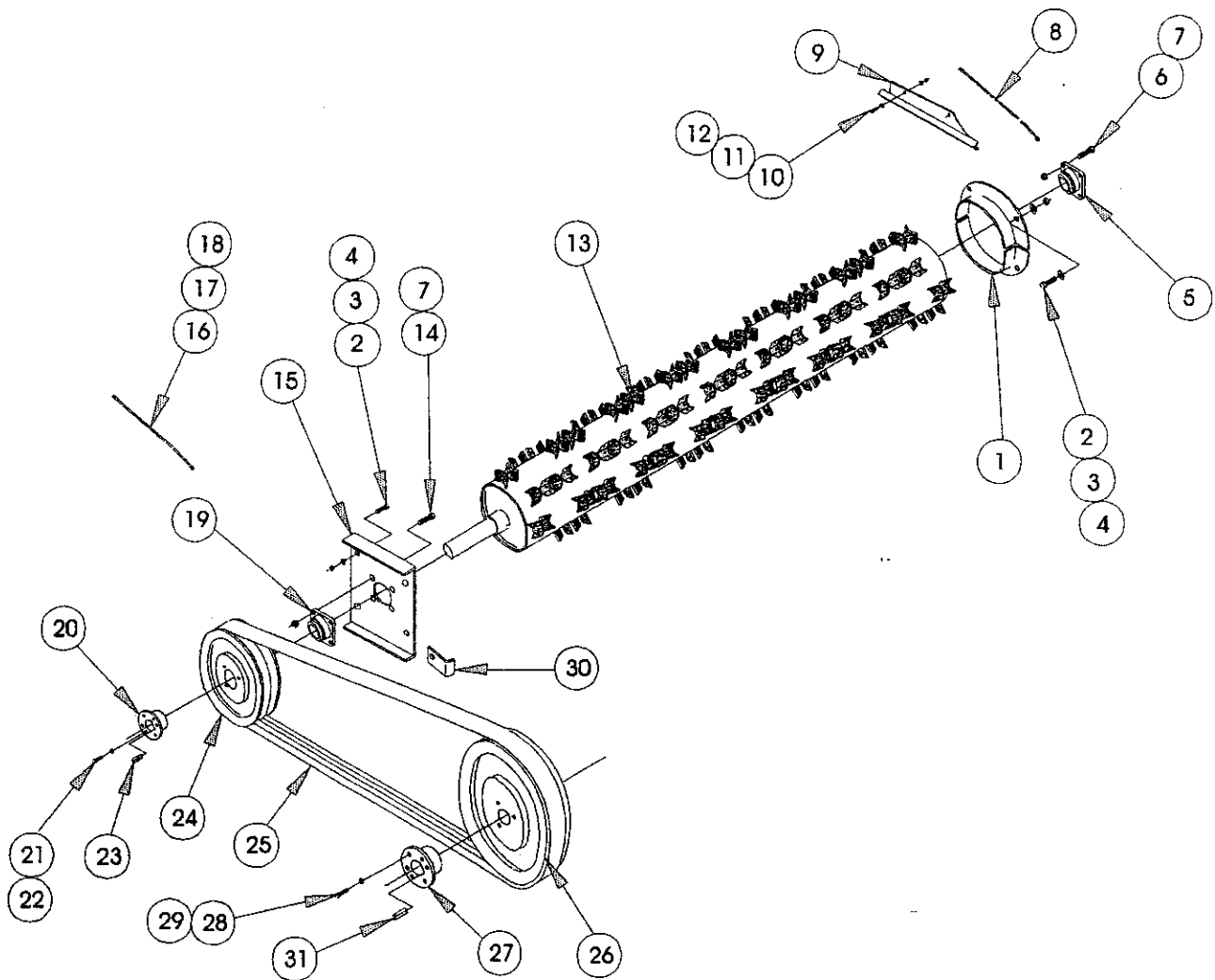
WHEEL ARM ASSEMBLY
REMOVABLE

REF. NO. 20219
DRAWING NO. SC500117



BALZER

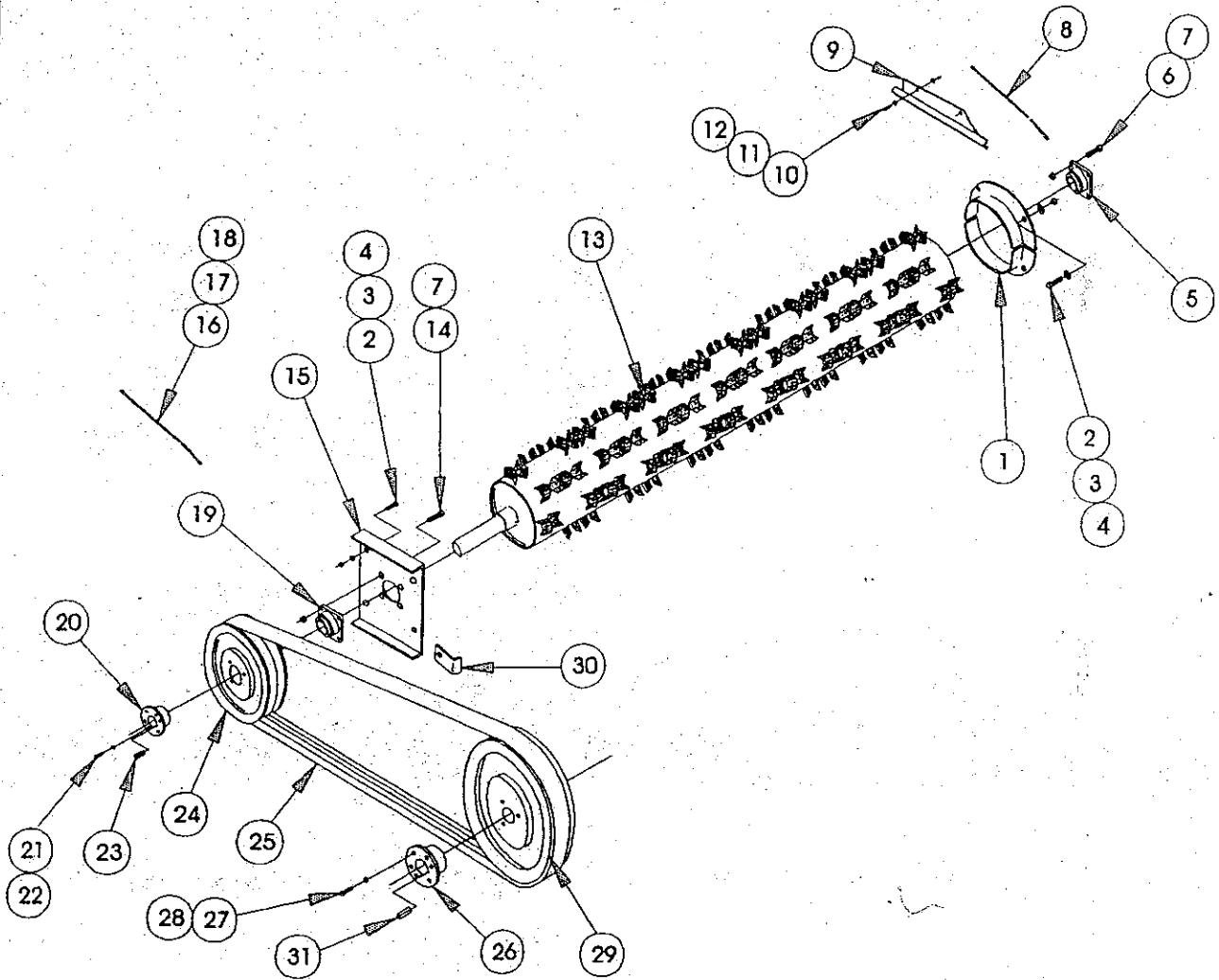
7	X31464	AR	BUSHING .66 X 1.0 X 2.56"
6	X24237	AR	CUP KNIFE
5	X02546	AR	NUT .62 TOG LOCK
4	X31453	AR	BUSHING .66 1.0 X .75
3	X26569	AR	SIDE KNIFE
2	X31454	AR	BUSHING .66 X 1.25 X .88"
1	X02633	AR	BOLT .62 X 4 GR8



31	X02408	2	KEY .37" X 2.5"
30	X24322	4	CLAMP, GREASE HOSE
29			LOCKWASHER (INCLUDED W/X24222)
28			BOLT (INCLUDED W/X24222)
27	X24222	2	BUSHING, 1-3/4" QD
26	X24074	2	SHEAVE, 16" 3C
25			
	X28499	2	BELT, 3C 90
24	X17476	2	SHEAVE, 8" 3C (1000 RPM SPEED-UP)
	X24073	2	SHEAVE, 10.5" 3C (1000 RPM)
23	XO2439	2	KEY, 1/2" X 2-1/2" LG.
22			LOCKWASHER (INCLUDED W/X26870)
ITEM	PART NO.	QTY.	DESCRIPTION

21			BOLT (INCLUDED W/X26870)
20	X26870	2	BUSHING, 2-3/16" QD
19	X26872	2	BEARING, 2-3/16" 4-BOLT (ECCENTRIC LOCK)
18	XO2291	2	ZERK, 1/8" STR. NPT
17	X12333	2	COUPLER, 1/8" NPT
16	X24178	2	HOSE, GREASE LINE (1/8" X 10" LG.)
15	X24100	2	STIFFENER, BEARING
14	XO1290		BOLT, 5/8" X 1.75" LG. HEX HD.
	X27510	2	ROTOR, 8" DIA. (2000)
	X27509	2	ROTOR, 8" DIA. (1800)
12	XO2496		NUT, 3/8" HEX HD. TOPLOCK
11	XO1598	8	FLATWASHER, 3/8"
10	XO1207		BOLT, 3/8" X 1-1/4" HEX HD.
9	X28041	1	SHIELD GREASE LINE LH
	X28040	1	SHIELD GREASE LINE RH
8	X24177	2	HOSE, GREASE LINE (1/8" X 21-1/2" LG.)
7	XO2546		NUT, 5/8" HEX HD. TOPLOCK
6	XO1295		BOLT, 5/8" X 3" LG. HEX HD.
5	X26871	2	BEARING, 2-3/16" 4-BOLT (SET SCREW LOCK)
4	XO2475		NUT, 5/16" HEX HD. TOPLOCK
3	XO1597		FLATWASHER, 5/16"
2	XO1186		BOLT, 5/16" X 1-1/4" LG. HEX HD.
1	X28044	2	RING, GRASS (1-PC.)
	X27589	4	RING, GRASS (2-PC.)
ITEM	PART NO.	QTY.	DESCRIPTION

	A	9-19-95	ORIGINAL RELEASE	DATE 9-19-95	10" DIA. CYLINDER ASSEMBLY MODELS 1800 - 2000	REF. NO. 20220
	REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/4" = 1"		DRAWING NO. SC500140



21				BOLT (INCLUDED W/X26869)
20	X26869	2		BUSHING, 2-3/16" QD
19	X26872	2		BEARING, 2-3/16" 4-BOLT (ECCENTRIC LOCK)
18	XO2291	2		ZERK, 1/8" STR. NPT
17	X12333	2		COUPLER, 1/8" NPT
16	X24178	2		HOSE, GREASE LINE (1/8" X 10" LG.)
15	X24100	2		STIFFENER, BEARING
14	XO1290			BOLT, 5/8" X 1.75" LG. HEX HD.
13	X27508	2		ROTOR, 8" DIA. (2000)
	X27507	2		ROTOR, 8" DIA. (1800)
12	XO2496			NUT, 3/8" HEX HD. TOPLOCK
11	XO1598	8		FLATWASHER, 3/8"
10	XO1207			BOLT, 3/8" X 1-1/4" HEX HD.
9	X28041	1		SHIELD GREASE LINE LH
	X28040	1		SHIELD GREASE LINE RH
8	X24177	2		HOSE, GREASE LINE (1/8" X 21-1/2" LG.)
7	XO2546			NUT, 5/8" HEX HD. TOPLOCK
6	XO1294			BOLT, 5/8" X 3" LG. HEX HD.
5	X26871	2		BEARING, 2-3/16" 4-BOLT (SET SCREW LOCK)
4	XO2475			NUT, 5/16" HEX HD. TOPLOCK
3	XO1597			FLATWASHER, 5/16"
2	XO1186			BOLT, 5/16" X 1-1/4" LG. HEX HD.
1	X28044	2		RING, GRASS (1-PC.)
	X27589	4		RING, GRASS (2-PC.)
31	XO2408	2		KEY .37" X 2.5"
30	X24322	4		CLAMP, GREASE HOSE
29	X12391	2		SHEAVE, 16" 2C
28				LOCKWASHER (INCLUDED W/X12390)
27				BOLT (INCLUDED W/X12390)
26	X27469	2		BUSHING, 1-3/4" QD 2 GR PULLEY
25	X28437	2		BELT, 2C 90
24	X12388	2		SHEAVE, 10.5" 2C
23	XO2439	2		KEY, 1/2" X 2-1/2" LG.
22				LOCKWASHER (INCLUDED W/X26869)
ITEM	PART NO.	QTY.	DESCRIPTION	

BALZER		A	9-19-95	ORIGINAL RELEASE	DATE	9-19-95	10" DIA. CYLINDER ASSEMBLY MODELS 1200 - 1500	REF. NO.	20220
		REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500139

KNIVES USED PER SHREDDER

SIDE KNIFE QUANTITIES 1997-PRESENT**

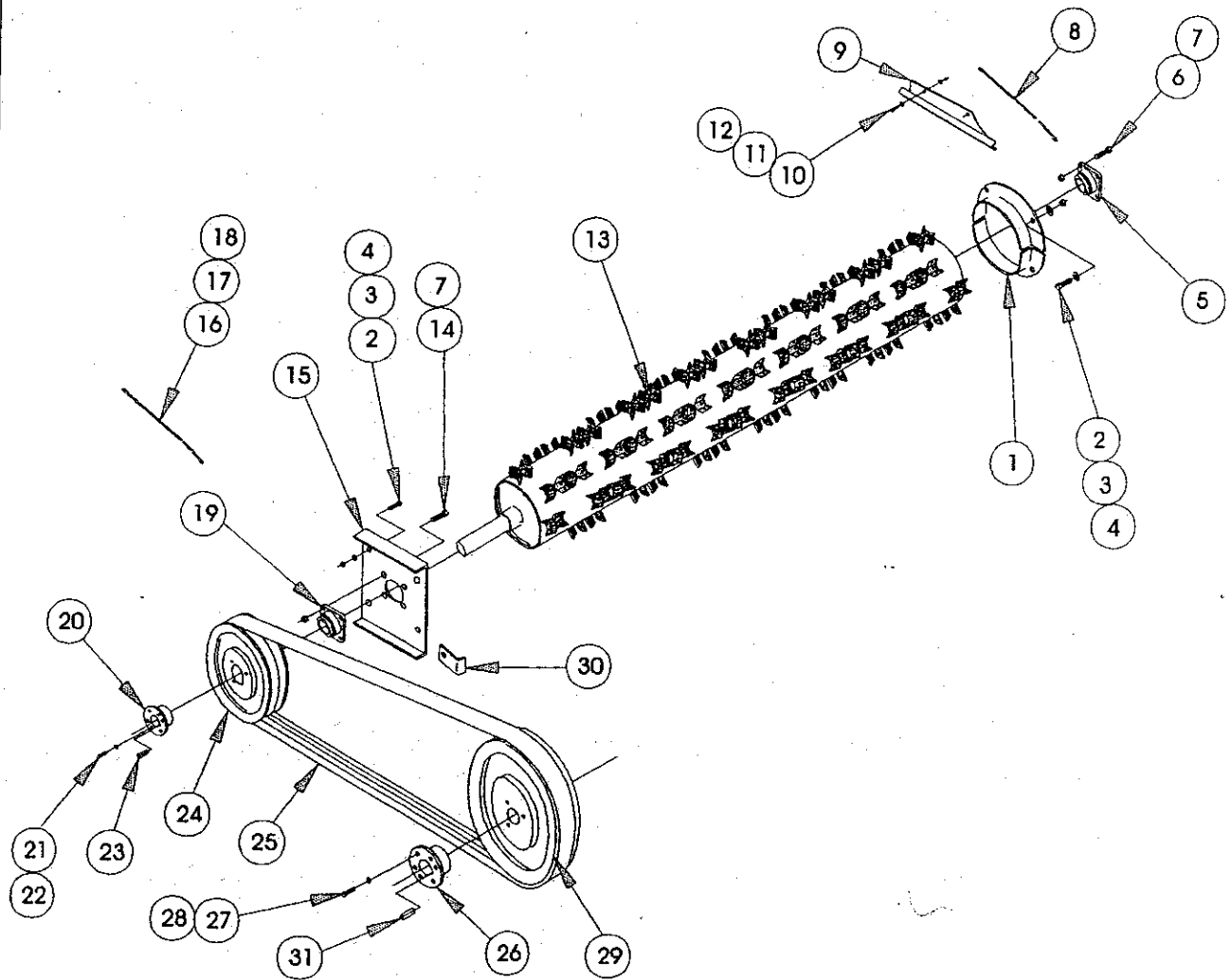
MODEL	AMOUNT (P/N's 26569 OR 31440)
1000	104
1200	128
1500	160
1800	192
2000	216
2200	240
2400	256
2500	264

CUP KNIFE QUANTITIES 1997-PRESENT**

MODEL	AMOUNT (P/N 24237)
1000	52
1200	64
1500	80
1800	96
2000	108
2200	120
2400	128
2500	132

** (10" ROTOR)**

3/9/05

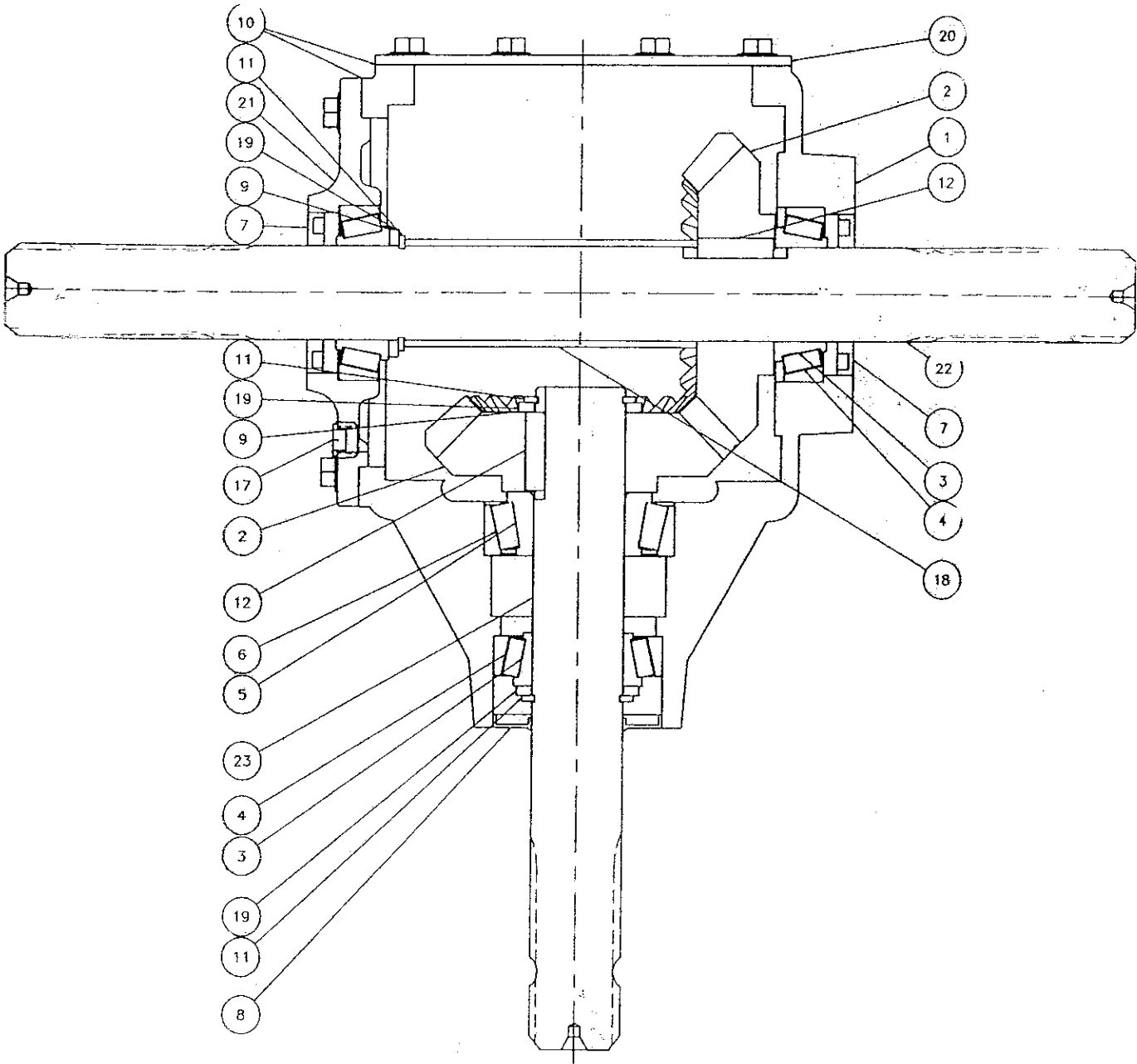


31	X02408	2	KEY .37" X 2.5"
30	X24322	4	CLAMP, GREASE HOSE
29	X12391	2	SHEAVE, 16" 2C
28			LOCKWASHER (INCLUDED W/X12390)
27			BOLT (INCLUDED W/X12390)
26	X27469	2	BUSHING, 1-3/4" QD 2 GR PULLEY
25			
	X28437	2	BELT, 2C 90
24			
	X12388	2	SHEAVE, 10.5" 2C
23	X02439	2	KEY, 1/2" X 2-1/2" LG.
22			LOCKWASHER (INCLUDED W/X26869)

21			BOLT (INCLUDED W/X26869)
20	X26869	2	BUSHING, 2-3/16" QD
19	X26872	2	BEARING, 2-3/16" 4-BOLT (ECCENTRIC LOCK)
18	X02291	2	ZERK, 1/8" STR. NPT
17	X12333	2	COUPLER, 1/8" NPT
16	X24178	2	HOSE, GREASE LINE (1/8" X 10" LG.)
15	X24100	2	STIFFENER, BEARING
14	X01290		BOLT, 5/8" X 1.75" LG. HEX HD.
13	X27508	2	ROTOR, 8" DIA. (2000)
	X27507	2	ROTOR, 8" DIA. (1800)
12	X02496		NUT, 3/8" HEX HD. TOPLOCK
11	X01598	8	FLATWASHER, 3/8"
10	X01207		BOLT, 3/8" X 1-1/4" HEX HD.
9	X28041	1	SHIELD GREASE LINE LH
	X28040	1	SHIELD GREASE LINE RH
8	X24177	2	HOSE, GREASE LINE (1/8" X 21-1/2" LG.)
7	X02546		NUT, 5/8" HEX HD. TOPLOCK
6	X01294		BOLT, 5/8" X 3" LG. HEX HD.
5	X26871	2	BEARING, 2-3/16" 4-BOLT (SET SCREW LOCK)
4	X02475		NUT, 5/16" HEX HD. TOPLOCK
3	X01597		FLATWASHER, 5/16"
2	X01186		BOLT, 5/16" X 1-1/4" LG. HEX HD.
1	X28044	2	RING, GRASS (I-PC.)
	X27589	4	RING, GRASS (2-PC.)

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
				10" DIA. CYLINDER ASSEMBLY MODELS 1200 - 1500			
A		9-19-95	ORIGINAL RELEASE	DATE	9-19-95	REF. NO. 20220	
REV.		DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"	DRAWING NO. SC500139	
				FORM	TWS		

New Style Shredder Gearbox, 1000 RPM, Part# 82025



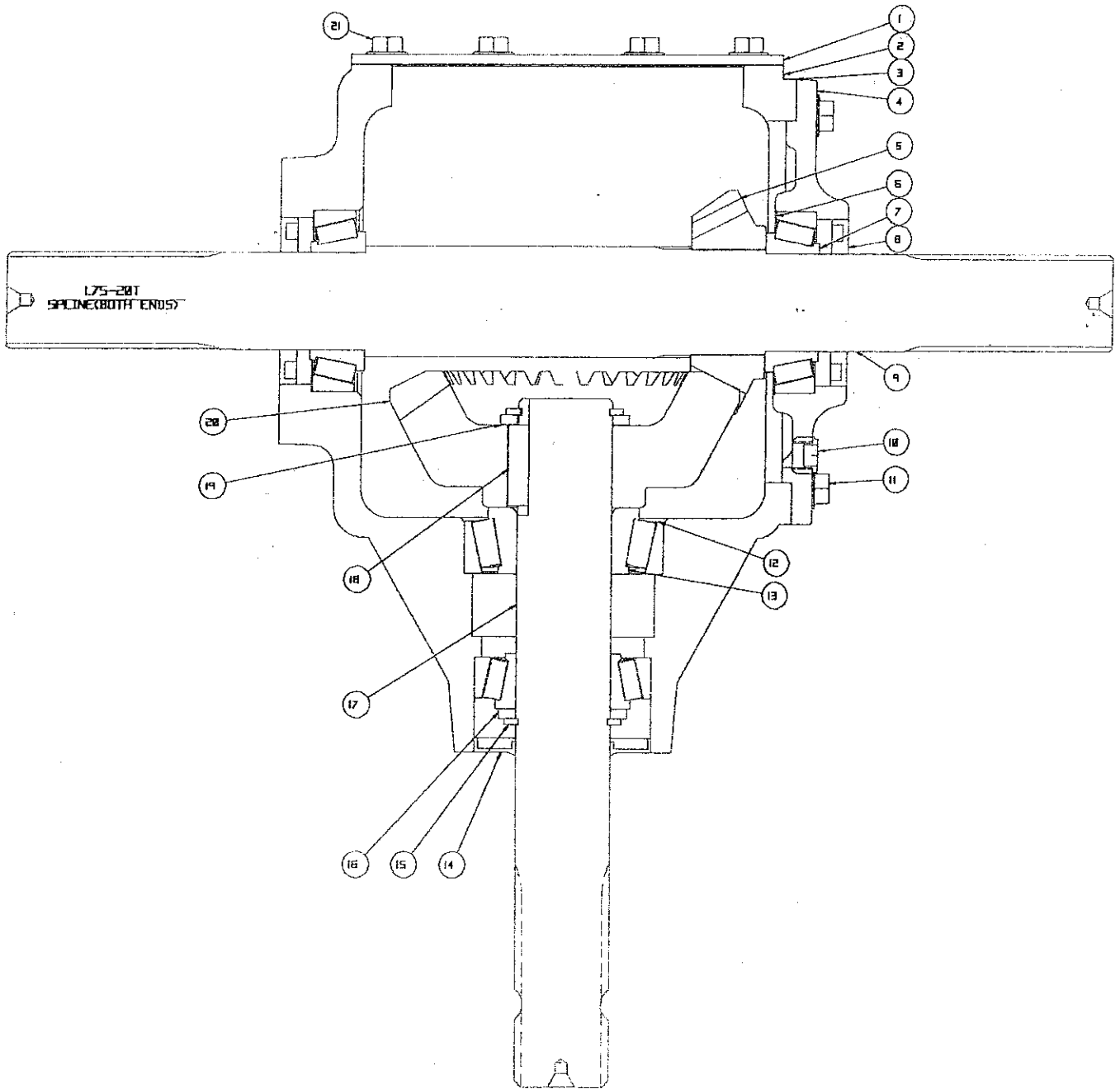
Started February 2004 3/9/05

New Style Shredder Gearbox, 1000 RPM, Part# 82025

Item#	Qty	Part#	Description
1	1	22595	HOUSING GEARBOX PRAIRIE #1018
2	2	22599	GEAR 22T (1.75 BORE) PRAIRIE #1290
3	3	11477	BEARINGCONE SUPERIORBOX
4	3	8491	BEARING CUP INNER
5	1	17205	BEARING CONE LARGE SUPERIOR BOX
6	1	22602	BEARING CUP
7	2	22264	SEAL 1.75 ID 3.0"OD CR# 17678*USE#36522/LAG SERV
8	1	22594	SEAL OIL PRAIRIE#1489 RUBBER COATED
9	2	22603	SHIM .007 X 1.75(SHAFT) PRAIRIE #1543
10	2	22604	SHIM .007 (COVER) PRAIRIE #1544
11	3	22606	SNAP RING 1.75 ID PRAIRIE #1620 (5160-175)
12	2	17185	KEY.37 X .37 X 1.43 HARDENED
13	16	1206	BOLT.37 X 1 HEXHEAD GRADE 5 Z.P.
14	1	13097	BREATHER .125"NPT BRASS 5# PSI VENT*FOR ACTUATOR USE 31438*
15	1	8907	PIPE PLUG .50-14 NPT SQ HD
16	1	13038	HEX REDUCER .5 MP X .12 FP HP
17	1	50514	PLUG.37 NPT ALLEN HEAD LAGOON GEARBOX
18	1	22610	SPACER PRAIRIE #2853
19	3	22611	WASHER 1.75 ID X .179 PRAIRIE #2855
20	1	22615	COVER - PLATE
21	1	22614	COVER OPEN PRAIRIE #4142-2
22	1	50854	SHAFT THRU 1.75" PRAIRIE SHREDDER GB 2004
23	1	22620	SHAFT PINION PRAIRIE #4558

Started February 2004 3/9/05

NEW STYLE SHREDDER GEARBOX, 540 RPM, PART# 82450



STARTED FEBRUARY 2004

3/9/05

NEW STYLE SHREDDER GEARBOX, 540 RPM, PART# 82450

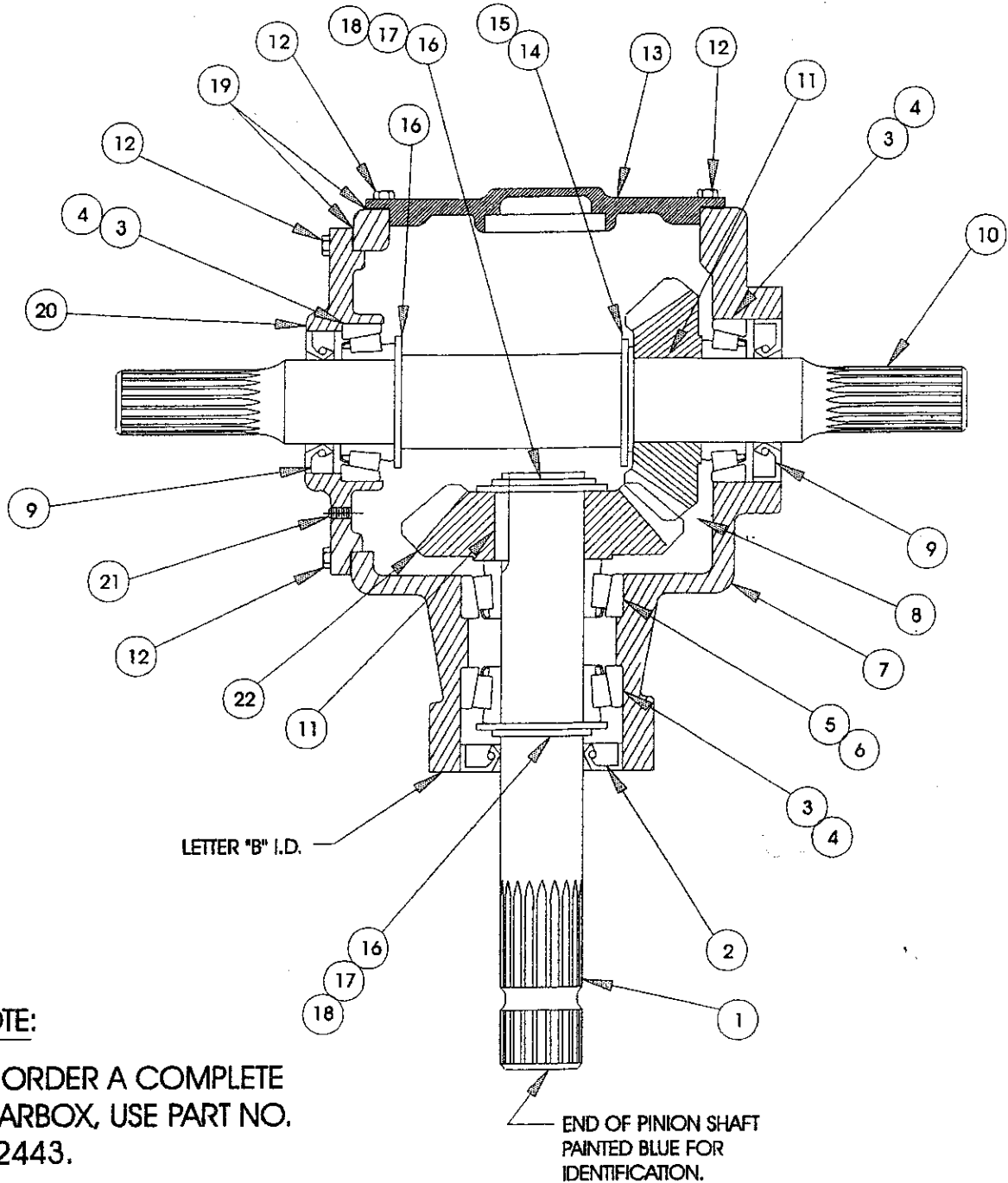
Item#	Qty	Part#	Description
1	1	22615	COVER - PLATE
2	1	22595	HOUSING GEARBOX PRAIRIE #1018
3	2	22604	SHIM .007 (COVER) PRAIRIE #1544
4	1	22614	COVER OPEN PRAIRIE #4142-2
5	1	50797	COVER - OPEN 3/8" NPT
6	3	8491	BEARING CUP INNER
7	3	11477	BEARINGCONE SUPERIORBOX
8	2	22264	SEAL 1.75 ID 3.0"OD CR# 17678*USE#36522/LAG SERV
9	1	50798	SHAFT THRU 1.75" PRAIRIE SHREDDER GB 2004
10	1	50514	PLUG.37 NPT ALLEN HEAD LAGOON GEARBOX
11	8	1206	BOLT.37 X 1 HEXHEAD GRADE 5 Z.P.
12	1	22602	BEARING CUP
13	1	17205	BEARING CONE LARGE SUPERIOR BOX
14	1	22594	SEAL OIL PRAIRIE#1489 RUBBER COATED
15	2	22606	SNAP RING 1.75 ID PRAIRIE #1620 (5160-175)
16	2	22611	WASHER 1.75 ID X .179 PRAIRIE #2855
17	1	22620	SHAFT PINION PRAIRIE #4558
18	1	17185	KEY.37 X .37 X 1.43 HARDENED
19	1	22603	SHIM .007 X 1.75(SHAFT) PRAIRIE #1543
20	1	22638	GEAR 29T (1.75 BORE) PRAIRIE #1290
21	8	1204	BOLT.37 X 1/2 HEXHEAD GRADE 5 Z.P.
22	1	13097	BREATHER .125"NPT BRASS 5# PSI VENT*FOR ACTUATOR USE 31438*
23	1	13038	HEX REDUCER .5 MP X .12 FP HP
24	1	8907	PIPE PLUG .50-14 NPT SQ HD

STARTED FEBRUARY 2004

3/9/05

44

1 3/8" OUTPUT SHAFT - OLD STYLE



NOTE:

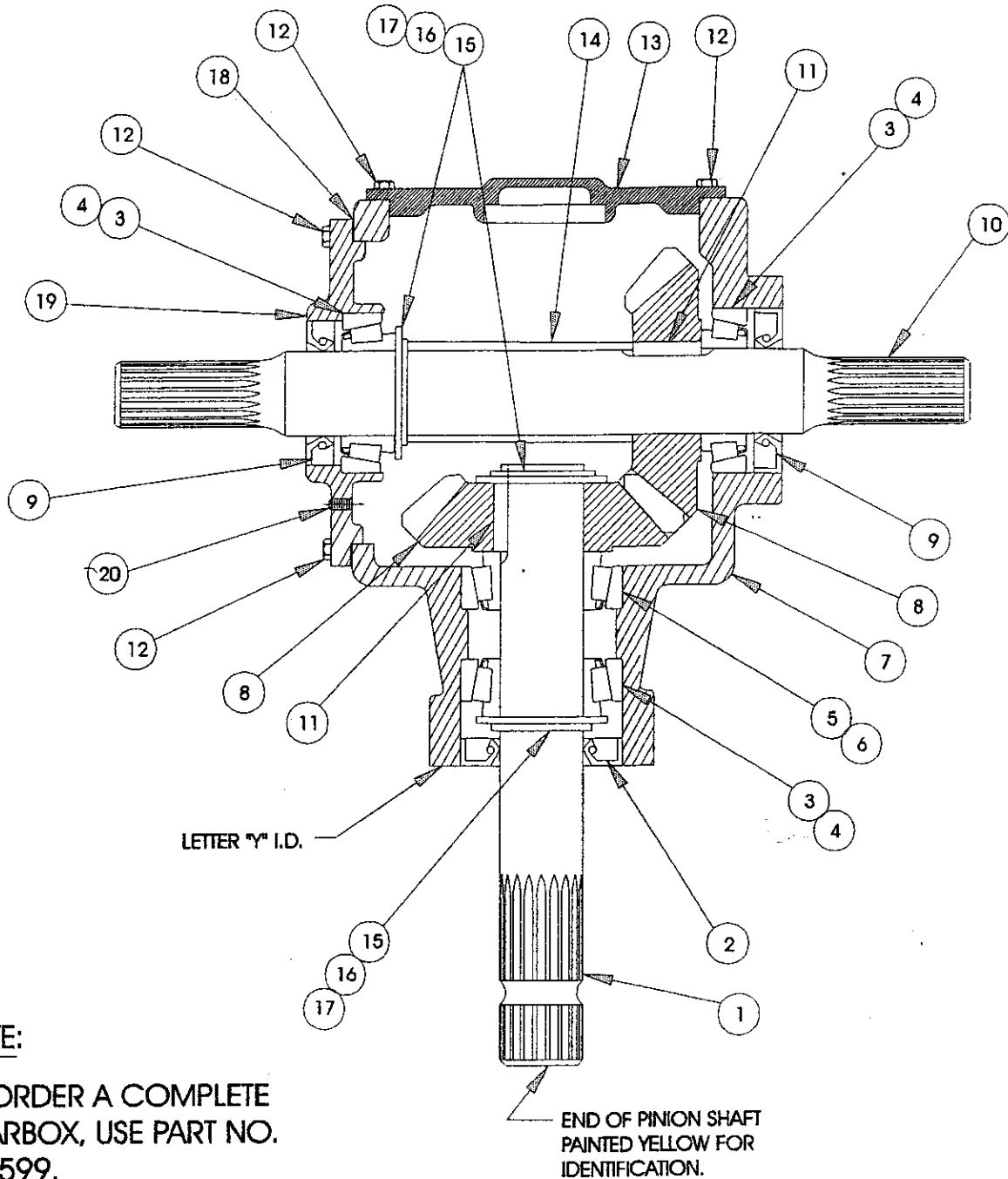
TO ORDER A COMPLETE GEARBOX, USE PART NO. X22443.

END OF PINION SHAFT PAINTED BLUE FOR IDENTIFICATION.

25	X13038	1	BUSHING, 1/2" X 1/8" REDUCER (NOT SHOWN)	12	XO1206	16	BOLT, 3/8" UNC X 1" LG. HEX HD GR. 5
24	X13181	1	PLUG, 1/2" NPT PIPE (NOT SHOWN)	11	X17185	1	KEY, 3/8" SQ. X 1.46" LG.
23	X13097	1	PLUG, 1/8" NPT VENT (NOT SHOWN)	10	X22621	1	SHAFT, THRU
22	X22638	1	GEAR, 29T	9	X22264	2	SEAL, OIL (NAT473448)
21	XO6997	1	PLUG, 1/4" NPT PIPE	8	X22637	1	GEAR, 16T
20	X22614	1	COVER, OPEN	7	X22595	1	HOUSING, SIDE PORT
19	X22604	AR.	SHIM, .007" (COVER)	6	X22602	1	CUP, BEARING (3730)
18	X22603	AR.	SHIM, .007" (1.75" DIA. SHAFT)	5	X17205	1	CONE, BEARING (3782)
17	X22606	2	RING, SNAP (5160 - 175)	4	XO8491	3	CUP, BEARING (25520)
16	X22611	3	WASHER, 1.75" I.D. X .179" THK.	3	X11477	3	CONE, BEARING (25581)
15	X22607	1	RING, SNAP (5160 - 200)	2	X22594	1	SEAL, OIL
14	X22612	1	SPACER	1	X22620	1	SHAFT, QUILL
13	X22615	1	COVER, CLOSED				
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

BALZER	A	9-26-95	ORIGINAL RELEASE	DATE 9-26-95	GEARBOX - 540 RPM (1:1.81 RATIO)	REF. NO. 22443
	REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/8" = 1"		DRAWN TWS

1 3/8" OUTPUT SHAFT - OLD STYLE



NOTE:

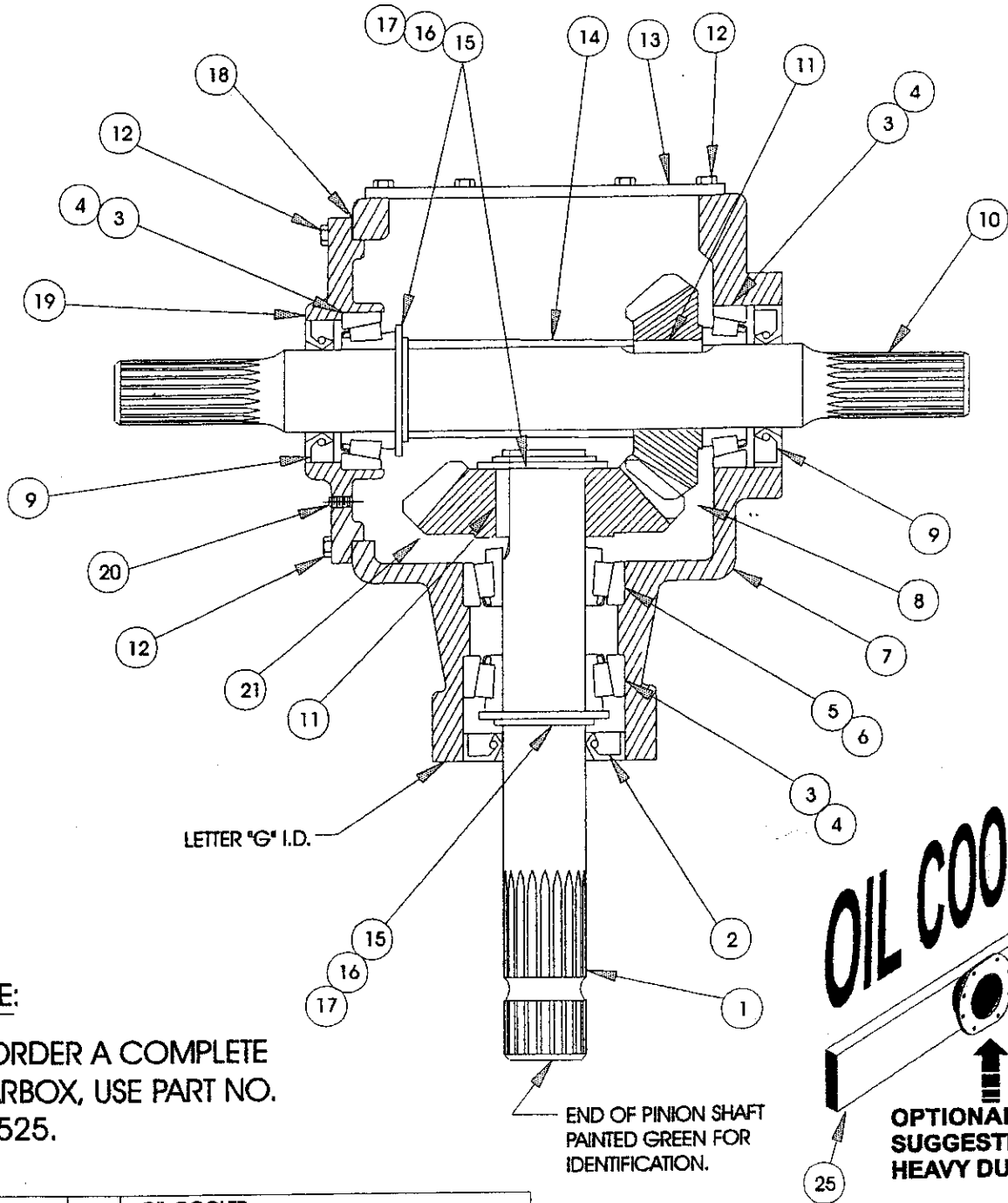
TO ORDER A COMPLETE GEARBOX, USE PART NO. X21599.

END OF PINION SHAFT PAINTED YELLOW FOR IDENTIFICATION.

23	X13038	1	BUSHING, 1/2" X 1/8" REDUCER (NOT SHOWN)	12	XO1206	16	BOLT, 3/8" UNC X 1" LG. HEX HD GR. 5
22	X13181	1	PLUG, 1/2" NPT PIPE (NOT SHOWN)	11	X17185	2	KEY, 3/8" SQ. X 1.46" LG.
21	X13097	1	PLUG, 1/8" NPT VENT (NOT SHOWN)	10	X22619	1	SHAFT, THRU
20	XO6697	1	PLUG, 1/4" NPT PIPE	9	X22264	2	SEAL, OIL (NAT473448)
19	X22614	1	COVER, OPEN	8	X22599	2	GEAR, 22T W/1.75" BORE
18	X22604	AR.	SHIM, .007" (COVER)	7	X22595	1	HOUSING, SIDE PORT
17	X22603	AR.	SHIM, .007" (1.75" DIA. SHAFT)	6	X22602	1	CUP BEARING (3730)
16	X22611	3	WASHER, 1.75" I.D. X .179" THK.	5	X17205	1	CONE, BEARING (3782)
15	X22606	3	RING, SNAP (5160 - 175)	4	XO8491	3	CUP BEARING (25520)
14	X22610	1	SPACER	3	X11477	3	CONE, BEARING (25581)
13	X22615	1	COVER, CLOSED	2	X22594	1	SEAL, OIL
				1	X22620	1	SHAFT, PINION
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

		REV. A	DATE 9-25-95	DESCRIPTION ORIGINAL RELEASE	DATE 9-25-95	GEARBOX - 1000 RPM (1:1 RATIO) 1500 ROTOR SPEED	REF. NO. 21599
		REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/2" = 1"		DRAWING NO. SC500147

1 3/8" OUTPUT SHAFT - OLD STYLE



NOTE:

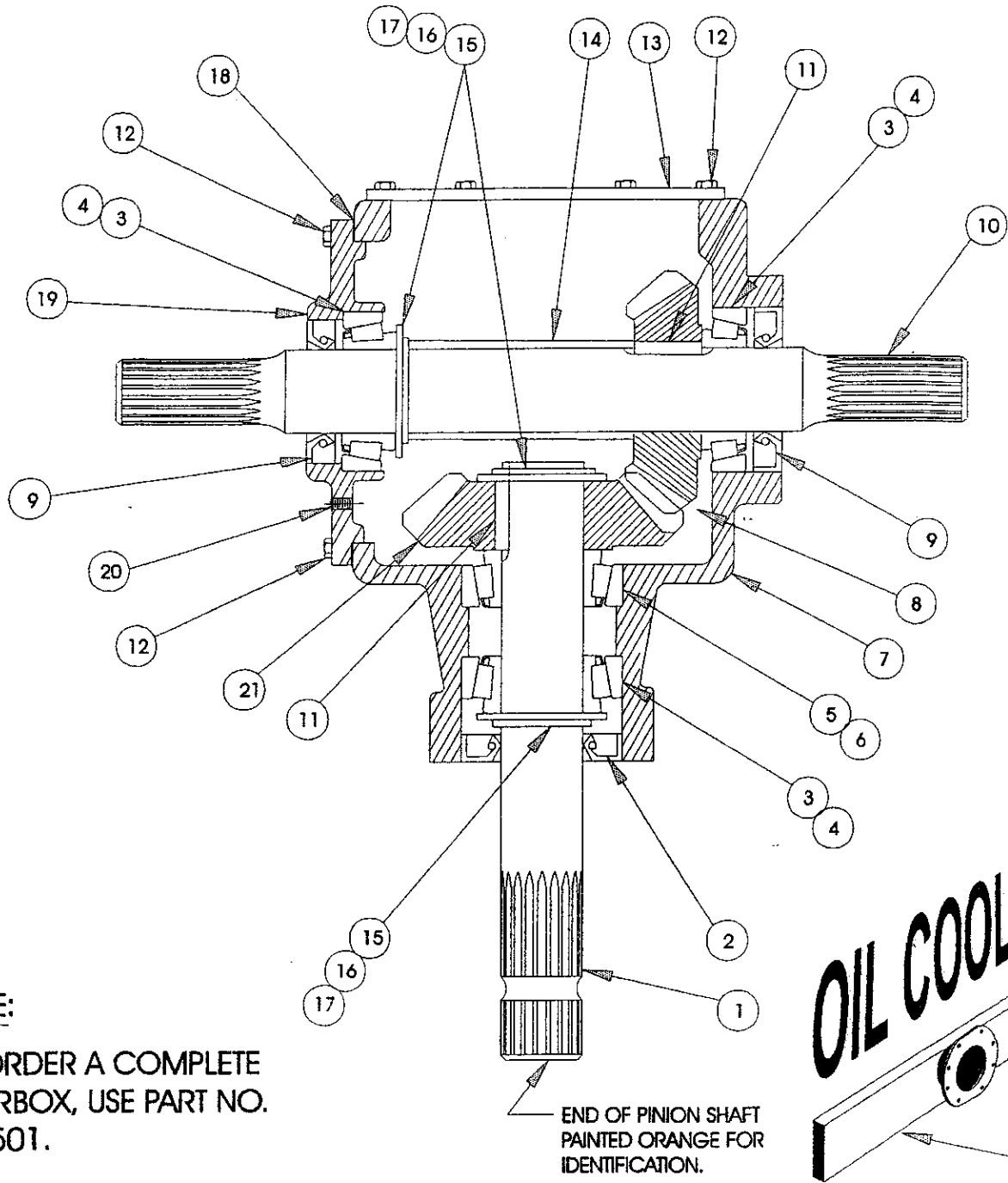
TO ORDER A COMPLETE GEARBOX, USE PART NO. X21525.

25	X36299	1	OIL COOLER
24	X13038	1	BUSHING, 1/2" X 1/8" REDUCER (NOT SHOWN)
23	X13181	1	PLUG, 1/2" NPT PIPE (NOT SHOWN)
22	X13097	1	PLUG, 1/8" NPT VENT (NOT SHOWN)
21	X22600	1	GEAR, 27T
20	XO6997	1	PLUG, 1/4" NPT PIPE
19	X22614	1	COVER, OPEN
18	X22604	AR.	SHIM, .007" (COVER)
17	X22603	AR.	SHIM, .007" (1.75" DIA. SHAFT)
16	X22611	3	WASHER, 1.75" I.D. X .179" THK.
15	X22606	3	RING, SNAP (5160 - 175)
14	X22610	1	SPACER
13	X22613	1	COVER, PLATE
ITEM	PART NO.	QTY.	DESCRIPTION

12	XO1206	16	BOLT, 3/8" UNC X 1" LG. HEX HD GR. 5
11	X17185	2	KEY, 3/8" SQ. X 1.46" LG.
10	X22619	1	SHAFT, THRU
9	X22264	2	SEAL, OIL (NAT473448)
8	X22601	1	GEAR, 20T
7	X22595	1	HOUSING
6	X22602	1	CUP, BEARING (3730)
5	X17205	1	CONE, BEARING (3782)
4	XO8491	3	CUP, BEARING (25520)
3	X11477	3	CONE, BEARING (25581)
2	X22594	1	SEAL, OIL
1	X22620	1	SHAFT, PINION
ITEM	PART NO.	QTY.	DESCRIPTION

	REV. A	DATE 9-27-95	DESCRIPTION ORIGINAL RELEASE	DATE 9-27-95	GEARBOX - 1000 RPM (1:1.35 RATIO) 2000 ROTOR SPEED	REF. NO. 21525
	REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/8" = 1"		DRAWN THIS

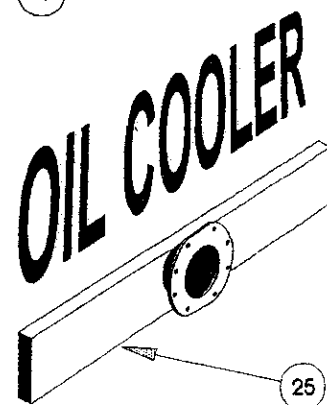
1 3/8" OUTPUT SHAFT - OLD STYLE



NOTE:

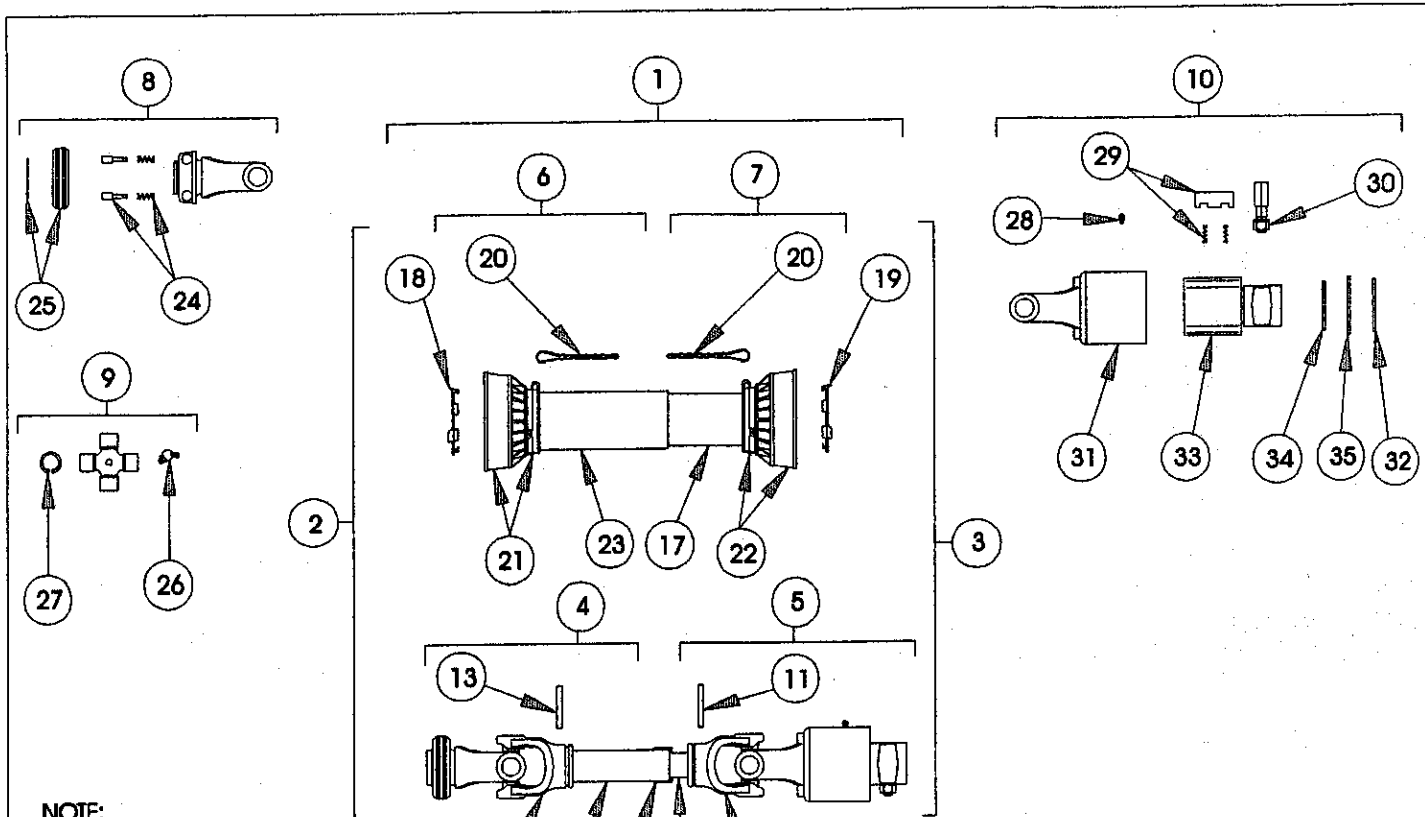
TO ORDER A COMPLETE GEARBOX, USE PART NO. X22501.

END OF PINION SHAFT PAINTED ORANGE FOR IDENTIFICATION.



25	X36299	1	OIL COOLER	12	XO1206	16	BOLT, 3/8" UNC X 1" LG. HEX HD GR. 5
24	X13038	1	BUSHING, 1/2" X 1/8" REDUCER (NOT SHOWN)	11	X17185	2	KEY, 3/8" SQ. X 1.46" LG.
23	X13181	1	PLUG, 1/2" NPT PIPE (NOT SHOWN)	10	X22619	1	SHAFT, THRU
22	X13097	1	PLUG, 1/8" NPT VENT (NOT SHOWN)	9	X22264	2	SEAL, OIL (NAT473448)
21	X22618	1	GEAR, 28T	8	X22617	1	GEAR, 24T
20	XO6997	1	PLUG, 1/4" NPT PIPE	7	X22595	1	HOUSING
19	X22614	1	COVER, OPEN	6	X22602	1	CUP, BEARING (3730)
18	X22604	AR.	SHIM, .007" (COVER)	5	X17205	1	CONE, BEARING (3782)
17	X22603	AR.	SHIM, .007" (1.75" DIA. SHAFT)	4	XO8491	3	CUP, BEARING (25520)
16	X22611	3	WASHER, 1.75" I.D. X .179" THK.	3	X11477	3	CONE, BEARING (25581)
15	X22606	3	RING, SNAP (5160 - 175)	2	X22594	1	SEAL, OIL
14	X22610	1	SPACER	1	X22620	1	SHAFT, PINION
13	X22613	1	COVER, PLATE				
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

BALZER	A	9-27-95	ORIGINAL RELEASE	DATE	9-27-95	GEARBOX - 1000 RPM (1:1.147 RATIO) 1750 ROTOR SPEED	REF. NO.	22501
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500150



NOTE:

TO ORDER A COMPLETE 1000 RPM PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27024.

TO ORDER A COMPLETE TRACTOR HALF PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 36), USE PART NUMBER X27072.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27073.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27076.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27074.

TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27075.

TO ORDER A COMPLETE TRACTOR HALF PTO W/O SHIELD (ITEMS 13, 15, 16, 36), USE PART NUMBER X27070.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27071.

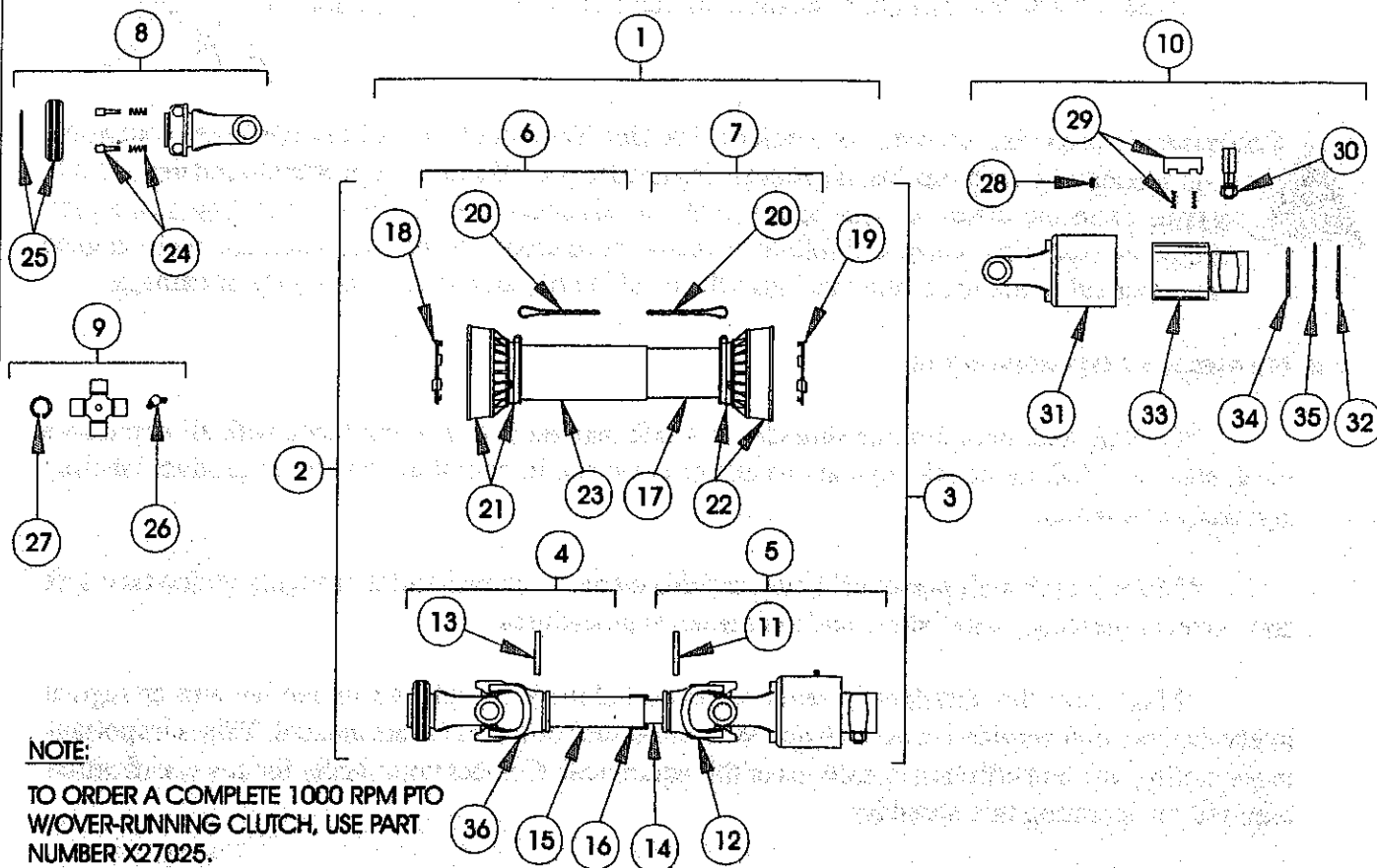
36	X18682	1	YOKE, OUTER TUBE	18	X18707	1	O.BEARING, 8-9-0
35	X23077	2	CLOSING PLATE HALF	17	X27069	1	TUBE, CM SAFETY (IMPLEMENT HALF)
34	X23076	1	RING, SCREEN	16	X18700	1	NUT, RING
33	X27041	1	HUB (CLUTCH INNER)	15	X27066	1	TUBE, CM CARDAN (TRACTOR HALF)
32	X23079	1	CIRCLIP (SNAP RING)	14	X27067	1	TUBE, CM CARDAN (IMPLEMENT HALF)
31	X27040	1	CLUTCH OUTER BODY	13	X18714	1	PIN, FLEXIBLE
30	X27043	1	PIVOT PIN ASSEMBLY	12	X18683	1	YOKE, INNER TUBE
29	X27042	1	RACHET W/SPRING	11	X18715	1	PIN, FLEXIBLE
28	X27039	1	ZERK, GREASE NIPPLE	10	X27035	1	CLUTCH, FREE WHEEL RA2/8
27	X23061	8	CIRCLIP (SNAP RING)	9	X18676	2	CROSS JOURNAL COMPLETE
26	X18716	2	ZERK, GREASE NIPPLE	8	X18732	1	YOKE, 1-3/8" - 21
25	X18702	1	HUB (ROTARY LATCH)	7	X27075	1	GUARD, HALF (IMPLEMENT END)
24	X18722	2	PUSH BUTTON COMPLETE	6	X27074	1	GUARD, HALF (TRACTOR END)
23	X27068	1	TUBE, CM SAFETY (TRACTOR HALF)	5	X27071	1	SHAFT, IMPLEMENT HALF W/O SHIELD
22	X27032	1	I.CONE SETS, F8-9	4	X27070	1	SHAFT, TRACTOR HALF W/O SHIELD
21	X27036	1	O.CONE SETS, F8-9	3	X27073	1	SHAFT, IMPLEMENT HALF W/SHIELD
20	X18704	2	CHAIN COMPLETE	2	X27072	1	SHAFT, TRACTOR HALF W/SHIELD
19	X18708	1	I.BEARING, 8-9-0	1	X27076	1	SAFETY GUARD COMPLETE
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION



A	11-14-98	ORIGINAL RELEASE	DWG 11-14-98
REV.	DATE	DESCRIPTION OF REVISION	SCALE 1/8" = 1" DRAWN TWS

1-3/8-21 PTO RA2 (1000 RPM)
- PULL TYPE UNIT -

REF. NO. 27024
DRAWING NO. SC500152



NOTE:

TO ORDER A COMPLETE 1000 RPM PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27025.

TO ORDER A COMPLETE TRACTOR HALF PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 36), USE PART NUMBER X27078.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27073.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27076.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27074.

TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27075.

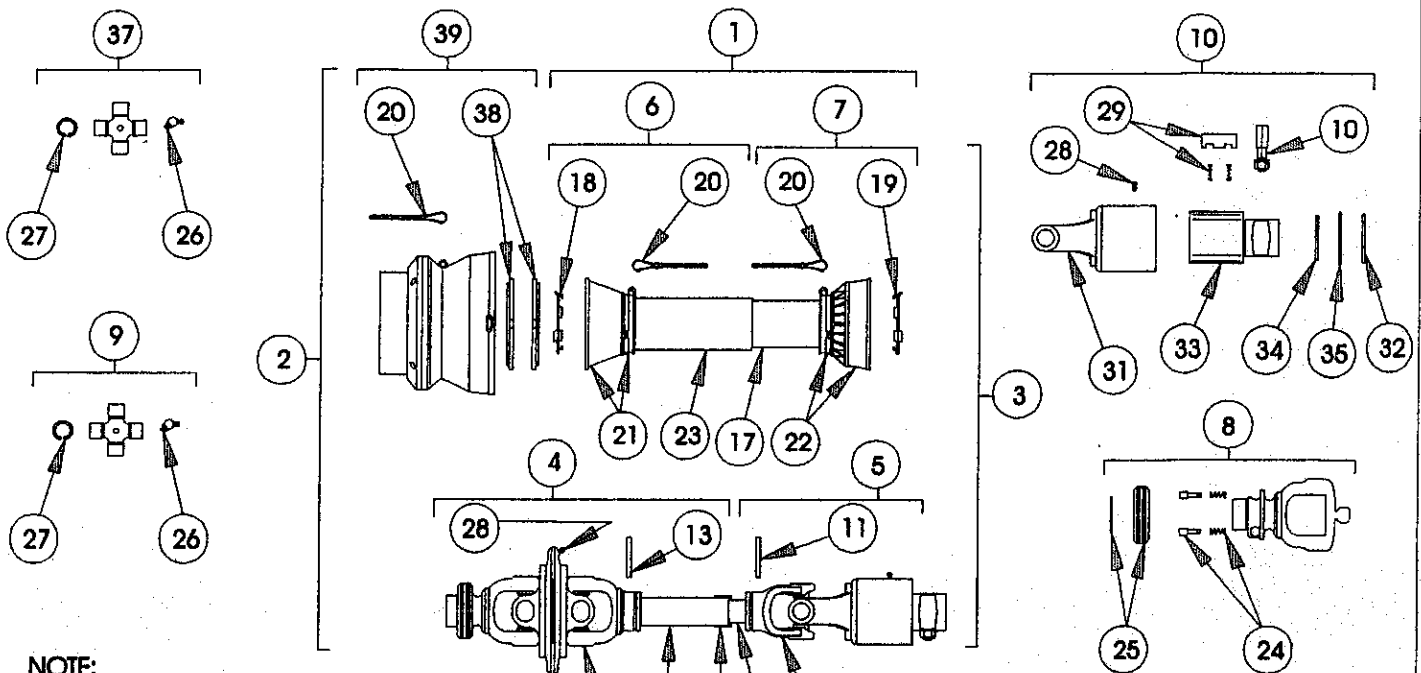
TO ORDER A COMPLETE TRACTOR HALF PTO W/O SHIELD (ITEMS 13, 15, 16, 36), USE PART NUMBER X27077.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27071.

36	X18682	1	YOKE, OUTER TUBE
35	X23077	2	CLOSING PLATE HALF
34	X23076	1	RING, SCREEN
33	X27041	1	HUB (CLUTCH INNER)
32	X23079	1	CIRCLIP (SNAP RING)
31	X27040	1	CLUTCH OUTER BODY
30	X27043	1	PIVOT PIN ASSEMBLY
29	X27042	1	RACHET W/SPRING
28	X27039	1	ZERK, GREASE NIPPLE
27	X23061	8	CIRCLIP (SNAP RING)
26	X18716	2	ZERK, GREASE NIPPLE
25	X18701	1	HUB (ROTARY LATCH)
24	X18722	2	PUSH BUTTON COMPLETE
23	X27068	1	TUBE, CM SAFETY (TRACTOR HALF)
22	X27032	1	I.CONE SETS, F8-9
21	X27036	1	O.CONE SETS, F8-9
20	X18704	2	CHAIN COMPLETE
19	X18708	1	I.BEARING, 8-9-0

18	X18707	1	O.BEARING, 8-9-0
17	X27069	1	TUBE, CM SAFETY (IMPLEMENT HALF)
16	X18700	1	NUT, RING
15	X27066	1	TUBE, CM CARDAN (TRACTOR HALF)
14	X27067	1	TUBE, CM CARDAN (IMPLEMENT HALF)
13	X18714	1	PIN, FLEXIBLE
12	X18683	1	YOKE, INNER TUBE
11	X18715	1	PIN, FLEXIBLE
10	X27035	1	CLUTCH, FREE WHEEL RA2/8
9	X18676	2	CROSS JOURNAL COMPLETE
8	X23086	1	YOKE, 1-3/4" - 20
7	X27075	1	GUARD, HALF (IMPLEMENT END)
6	X27074	1	GUARD, HALF (TRACTOR END)
5	X27071	1	SHAFT, IMPLEMENT HALF W/O SHIELD
4	X27077	1	SHAFT, TRACTOR HALF W/O SHIELD
3	X27073	1	SHAFT, IMPLEMENT HALF W/SHIELD
2	X27078	1	SHAFT, TRACTOR HALF W/SHIELD
1	X27076	1	SAFETY GUARD COMPLETE

	A	11-14-96	ORIGINAL RELEASE	DATE	11-14-96	1-3/4-20 PTO RA2 (1000 RPM) - PULL TYPE UNIT -	REF. NO.	27025
	REV	DATE	DESCRIPTION OF REVISION	SCALE	1/2" = 1"		DRAWING NO.	SC500153



NOTE:

TO ORDER A COMPLETE 1000 RPM CV PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27027.

TO ORDER A COMPLETE TRACTOR HALF CV PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 28, 36, 38, 40), USE PART NUMBER X27063.

TO ORDER A COMPLETE IMPLEMENT HALF CV PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27058.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27061.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27059.

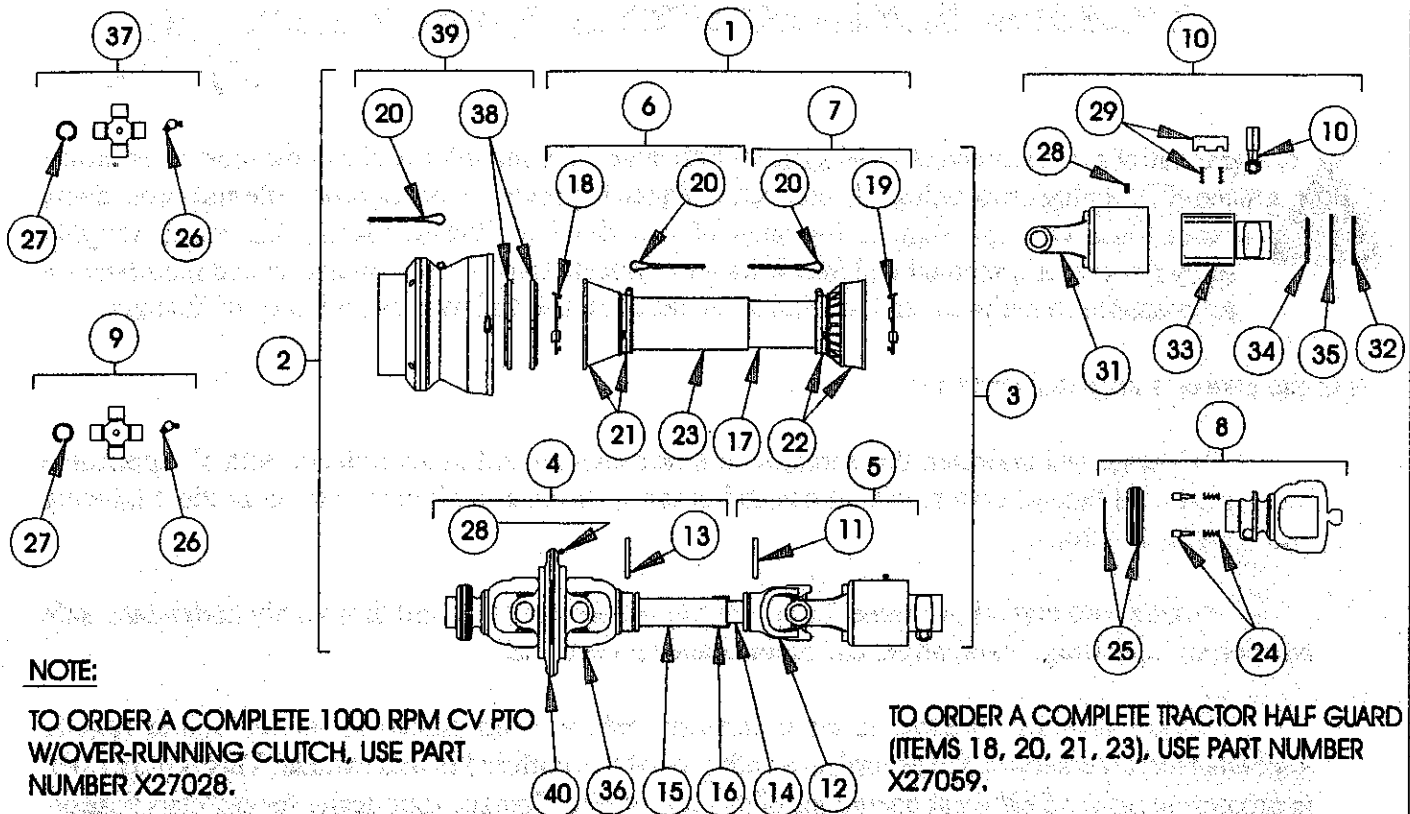
TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27060.

TO ORDER A COMPLETE TRACTOR HALF CV PTO W/O SHIELD (ITEMS 13, 15, 16, 28, 36, 40), USE PART NUMBER X27062.

TO ORDER A COMPLETE IMPLEMENT HALF CV PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27056.

40	X23011	1	CENTRAL BODY	20	X18704	3	CHAIN COMPLETE
39	X18743	1	COMPLETE SHELL	19	X18708	1	I.BEARING, 8-9-0
38	X18771	1	DOWELS, RING NUT	18	X18707	1	O.BEARING, 8-9-0
37	X23008	2	CROSS JOURNAL ASSEMBLY (TRACTOR HALF)	17	X27054	1	TUBE, CM SAFETY (IMPLEMENT HALF)
36	X18749	1	YOKE, OUTER TUBE	16	X18762	1	NUT, RING
35	X23077	2	CLOSING PLATE HALF	15	X27051	1	TUBE, CM CARDAN (TRACTOR HALF)
34	X23076	1	RING, SCREEN	14	X27052	1	TUBE, CM CARDAN (IMPLEMENT HALF)
33	X27041	1	HUB (CLUTCH INNER)	13	X18714	1	PIN, FLEXIBLE
32	X23079	1	CIRCLIP (SNAP RING)	12	X18683	1	YOKE, INNER TUBE
31	X27040	1	CLUTCH OUTER BODY	11	X18715	1	PIN, FLEXIBLE
30	X27043	1	PIVOT PIN ASSEMBLY	10	X27035	1	CLUTCH, FREE WHEEL RA2/8
29	X27042	1	RATCHET W/SPRING	9	X18676	1	CROSS JOURNAL ASSEMBLY (IMPLEMENT HALF)
28	X23004	2	ZERK, GREASE NIPPLE	8	X18738	1	YOKE, 1-3/8" - 21 RS
27	X23061	12	CIRCLIP (SNAP RING)	7	X27060	1	GUARD, HALF (IMPLEMENT END)
26	X18716	3	ZERK, GREASE NIPPLE	6	X27059	1	GUARD, HALF (TRACTOR END)
25	X18702	1	HUB (ROTARY LATCH)	5	X27056	1	SHAFT, IMPLEMENT HALF W/O SHIELD
24	X18720	2	PUSH BUTTON COMPLETE	4	X27062	1	SHAFT, TRACTOR HALF W/O SHIELD
23	X27053	1	TUBE, CM SAFETY (TRACTOR HALF)	3	X27058	1	SHAFT, IMPLEMENT HALF W/SHIELD
22	X27032	1	I.CONE SETS, F8-9	2	X27063	1	SHAFT, TRACTOR HALF W/SHIELD
21	X18766	1	O.CONE SETS, N8-9	1	X27061	1	SAFETY GUARD ASSEMBLY
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

BALZER	A	11-14-95	ORIGINAL RELEASE	DATE	11-14-95	1-3/8-21 CV PTO RA2 -PULL TYPE UNIT (1000 RPM)-	REF. NO.	27027
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/8" = 1"		DRAWING NO.	SC500155



NOTE:

TO ORDER A COMPLETE 1000 RPM CV PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27028.

TO ORDER A COMPLETE TRACTOR HALF CV PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 28, 36, 38, 40), USE PART NUMBER X27065.

TO ORDER A COMPLETE IMPLEMENT HALF CV PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27058.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27061.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27059.

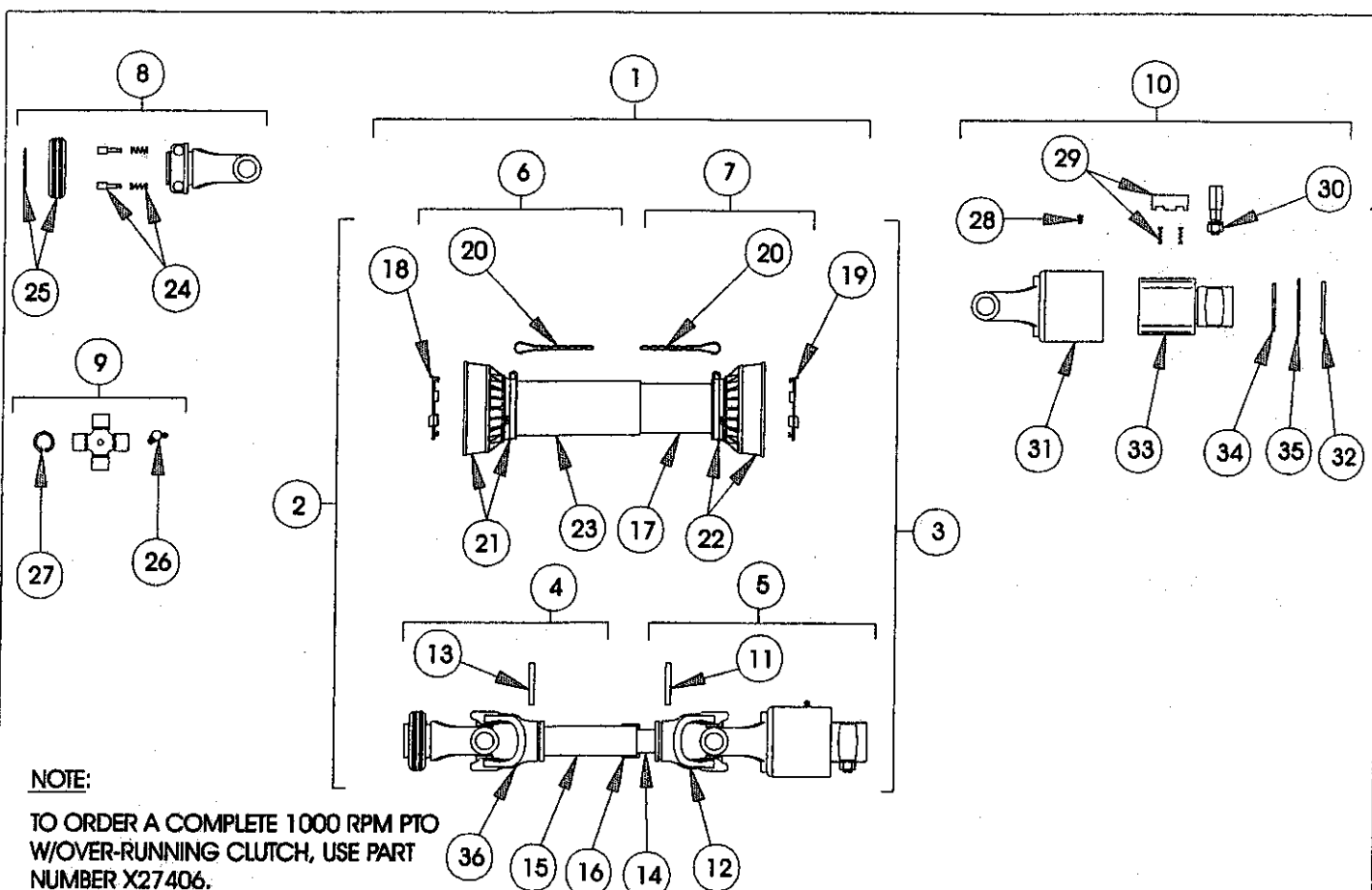
TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27060.

TO ORDER A COMPLETE TRACTOR HALF CV PTO W/O SHIELD (ITEMS 13, 15, 16, 28, 36, 40), USE PART NUMBER X27064.

TO ORDER A COMPLETE IMPLEMENT HALF CV PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27056.

40	X23011	1	CENTRAL BODY	20	X18704	3	CHAIN COMPLETE
39	X18743	1	COMPLETE SHELL	19	X18708	1	I.BEARING, 8-9-0
38	X18771	1	DOWELS, RING NUT	18	X18707	1	O.BEARING, 8-9-0
37	X23008	2	CROSS JOURNAL ASSEMBLY (TRACTOR HALF)	17	X27054	1	TUBE, CM SAFETY (IMPLEMENT HALF)
36	X18749	1	YOKE, OUTER TUBE	16	X18762	1	NUT, RING
35	X23077	2	CLOSING PLATE HALF	15	X27051	1	TUBE, CM CARDAN (TRACTOR HALF)
34	X23076	1	RING, SCREEN	14	X27052	1	TUBE, CM CARDAN (IMPLEMENT HALF)
33	X27041	1	HUB (CLUTCH INNER)	13	X18714	1	PIN, FLEXIBLE
32	X23079	1	CIRCLIP (SNAP RING)	12	X18683	1	YOKE, INNER TUBE
31	X27040	1	CLUTCH OUTER BODY	11	X18715	1	PIN, FLEXIBLE
30	X27043	1	PIVOT PIN ASSEMBLY	10	X27035	1	CLUTCH, FREE WHEEL RA2/8
29	X27042	1	RATCHET W/SPRING	9	X18676	1	CROSS JOURNAL ASSEMBLY (IMPLEMENT HALF)
28	X23004	2	ZERK, GREASE NIPPLE	8	X23085	1	YOKE, 1-3/4" - 20 RS
27	X18711	12	CIRCLIP (SNAP RING)	7	X27060	1	GUARD, HALF (IMPLEMENT END)
26	X18716	3	ZERK, GREASE NIPPLE	6	X27059	1	GUARD, HALF (TRACTOR END)
25	X18701	1	HUB (ROTARY LATCH)	5	X27056	1	SHAFT, IMPLEMENT HALF W/O SHIELD
24	X18721	2	PUSH BUTTON COMPLETE	4	X27064	1	SHAFT, TRACTOR HALF W/O SHIELD
23	X27053	1	TUBE, CM SAFETY (TRACTOR HALF)	3	X27058	1	SHAFT, IMPLEMENT HALF W/SHIELD
22	X27032	1	I.CONE SETS, F8-9	2	X27065	1	SHAFT, TRACTOR HALF W/SHIELD
21	X18766	1	O.CONE SETS, N8-9	1	X27061	1	SAFETY GUARD ASSEMBLY
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

	A	11-15-95	ORIGINAL RELEASE	DATE	11-15-95	1-3/4-20 CV PTO RA2 -PULL TYPE UNIT (1000 RPM)-	REF. NO.	27028
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500156



NOTE:

TO ORDER A COMPLETE 1000 RPM PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27406.

TO ORDER A COMPLETE TRACTOR HALF PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 36), USE PART NUMBER X27046.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27047.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27050.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27048.

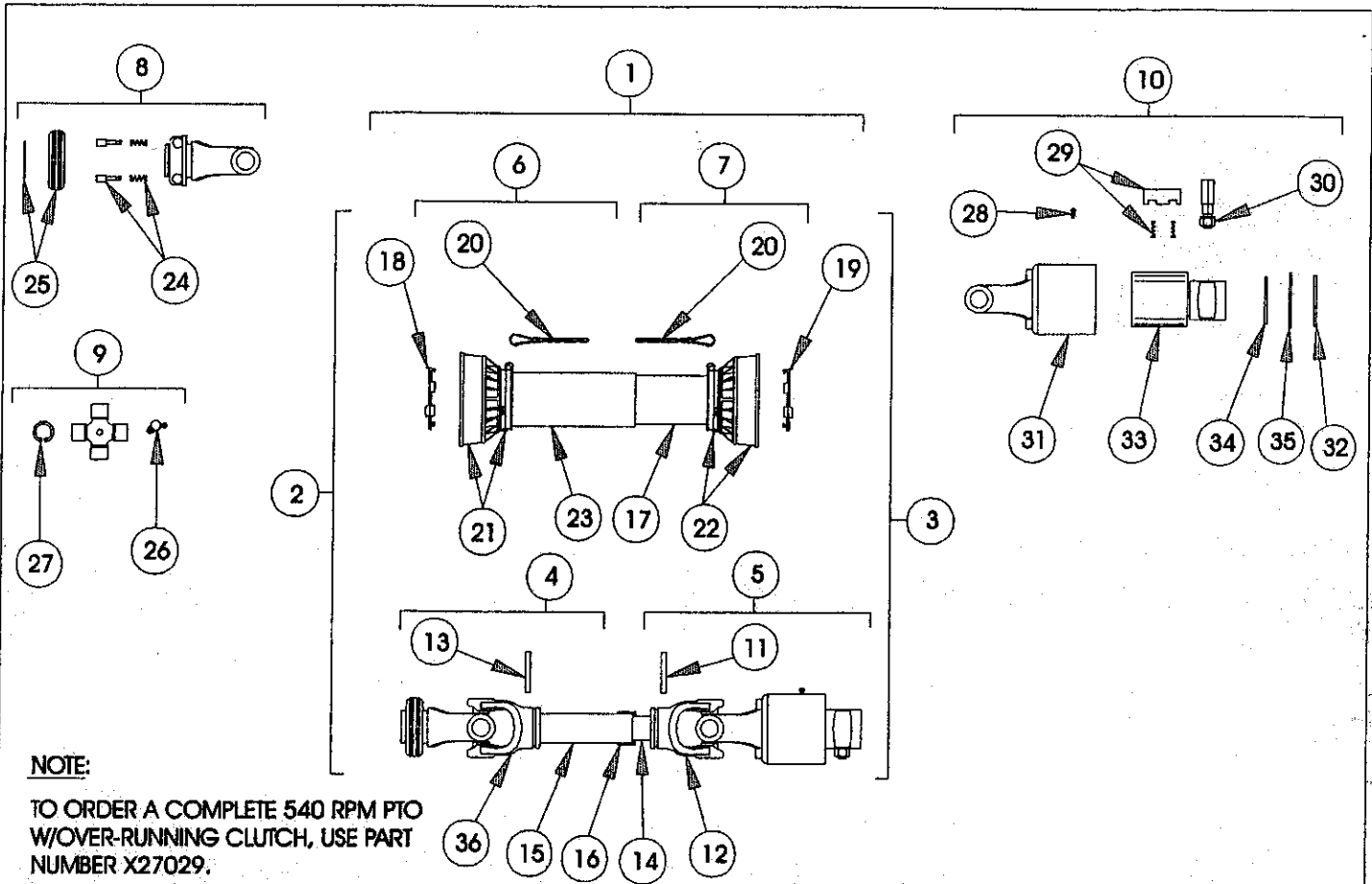
TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27049.

TO ORDER A COMPLETE TRACTOR HALF PTO W/O SHIELD (ITEMS 13, 15, 16, 36), USE PART NUMBER X27044.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27045.

36	X18682	1	YOKE, OUTER TUBE	18	X18707	1	O.BEARING, 8-9-0
35	X23077	2	CLOSING PLATE HALF	17	X27038	1	TUBE, CM SAFETY (IMPLEMENT HALF)
34	X23076	1	RING, SCREEN	16	X18700	1	NUT, RING
33	X27041	1	HUB (CLUTCH INNER)	15	X27033	1	TUBE, CM CARDAN (TRACTOR HALF)
32	X23079	1	CIRCLIP (SNAP RING)	14	X27034	1	TUBE, CM CARDAN (IMPLEMENT HALF)
31	X27040	1	CLUTCH OUTER BODY	13	X18714	1	PIN, FLEXIBLE
30	X27043	1	PIVOT PIN ASSEMBLY	12	X18683	1	YOKE, INNER TUBE
29	X27042	1	RACHET W/SPRING	11	X18715	1	PIN, FLEXIBLE
28	X27039	1	ZERK, GREASE NIPPLE	10	X27035	1	CLUTCH, FREE WHEEL RA2/8
27	X23061	8	CIRCLIP (SNAP RING)	9	X18676	2	CROSS JOURNAL COMPLETE
26	X18716	2	ZERK, GREASE NIPPLE	8	X23086	1	YOKE, 1-3/4 - 20
25	X18702	1	HUB (ROTARY LATCH)	7	X27049	1	GUARD, HALF (IMPLEMENT END)
24	X18722	2	PUSH BUTON COMPLETE	6	X27048	1	GUARD, HALF (TRACTOR END)
23	X27037	1	TUBE, CM SAFETY (TRACTOR HALF)	5	X27045	1	SHAFT, IMPLEMENT HALF W/O SHIELD
22	X27032	1	I.CONE SETS, F8-9	4	X27044	1	SHAFT, TRACTOR HALF W/O SHIELD
21	X27036	1	O.CONE SETS, F8-9	3	X27047	1	SHAFT, IMPLEMENT HALF W/SHIELD
20	X18704	2	CHAIN COMPLETE	2	X27046	1	SHAFT, TRACTOR HALF W/SHIELD
19	X18708	1	I.BEARING, 8-9-0	1	X27050	1	SAFETY GUARD COMPLETE
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

BALZER ORIGINAL RELEASE DATE 12-27-98 SCALE 1/8" = 1" 1-3/4-20 PTO RA2 (1000 RPM) REF. NO. 27406
 REV. DATE DESCRIPTION OF REVISION DRAWN TWS SEMI MOUNT + FULL MOUNT UNIT DRAWING NO. SC500158



NOTE:

TO ORDER A COMPLETE 540 RPM PTO W/OVER-RUNNING CLUTCH, USE PART NUMBER X27029.

TO ORDER A COMPLETE TRACTOR HALF PTO W/SHIELD (ITEMS 13, 15, 16, 18, 20, 21, 23, 36), USE PART NUMBER X27046.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/SHIELD (ITEMS 11, 12, 14, 17, 19, 20, 22), USE PART NUMBER X27047.

TO ORDER A COMPLETE SAFETY GUARD (ITEMS 17, 18, 19, 20, 21, 22, 23), USE PART NUMBER X27050.

TO ORDER A COMPLETE TRACTOR HALF GUARD (ITEMS 18, 20, 21, 23), USE PART NUMBER X27048.

TO ORDER A COMPLETE IMPLEMENT HALF GUARD (ITEMS 17, 19, 20, 22), USE PART NUMBER X27049.

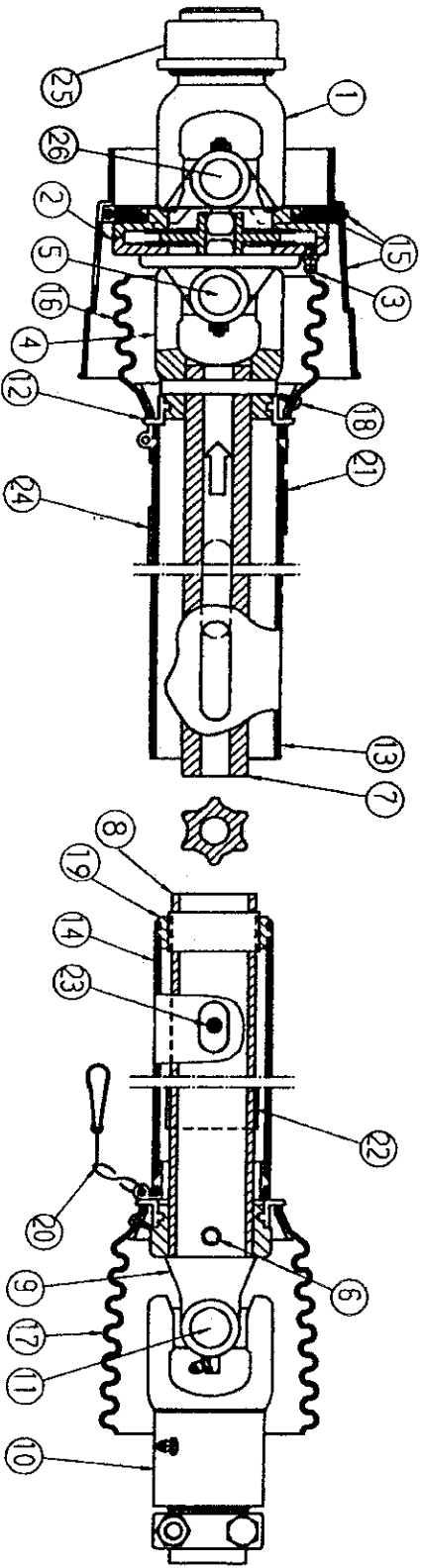
TO ORDER A COMPLETE TRACTOR HALF PTO W/O SHIELD (ITEMS 13, 15, 16, 36), USE PART NUMBER X27044.

TO ORDER A COMPLETE IMPLEMENT HALF PTO W/O SHIELD (ITEMS 11, 12, 14), USE PART NUMBER X27045.

36	X18682	1	YOKE, OUTER TUBE	18	X18707	1	O.BEARING, 8-9-0
35	X23077	2	CLOSING PLATE HALF	17	X27038	1	TUBE, CM SAFETY (IMPLEMENT HALF)
34	X23076	1	RING, SCREEN	16	X18700	1	NUT, RING
33	X27041	1	HUB (CLUTCH INNER)	15	X27033	1	TUBE, CM CARDAN (TRACTOR HALF)
32	X23079	1	CIRCLIP (SNAP RING)	14	X27034	1	TUBE, CM CARDAN (IMPLEMENT HALF)
31	X27040	1	CLUTCH OUTER BODY	13	X18714	1	PIN, FLEXIBLE
30	X27043	1	PIVOT PIN ASSEMBLY	12	X18683	1	YOKE, INNER TUBE
29	X27042	1	RACHET W/SPRING	11	X18715	1	PIN, FLEXIBLE
28	X27039	1	ZERK, GREASE NIPPLE	10	X27035	1	CLUTCH, FREE WHEEL RA2/8
27	X23061	8	CIRCLIP (SNAP RING)	9	X18676	2	CROSS JOURNAL COMPLETE
26	X18716	2	ZERK, GREASE NIPPLE	8	X18732	1	YOKE, 1-3/8" - 6
25	X18702	1	HUB (ROTARY LATCH)	7	X27049	1	GUARD, HALF (IMPLEMENT END)
24	X18722	2	PUSH BUTTON COMPLETE	6	X27048	1	GUARD, HALF (TRACTOR END)
23	X27037	1	TUBE, CM SAFETY (TRACTOR HALF)	5	X27045	1	SHAFT, IMPLEMENT HALF W/O SHIELD
22	X27032	1	I.CONE SETS, F8-9	4	X27044	1	SHAFT, TRACTOR HALF W/O SHIELD
21	X27036	1	O.CONE SETS, F8-9	3	X27047	1	SHAFT, IMPLEMENT HALF W/SHIELD
20	X18704	2	CHAIN COMPLETE	2	X27046	1	SHAFT, TRACTOR HALF W/SHIELD
19	X18706	1	I.BEARING, 8-9-0	1	X27050	1	SAFETY GUARD COMPLETE
ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION

	B	9-16-95	REVISED	DATE	2-3-95	1-3/8-21 PTO RA2 (1000 RPM) - FULL & SEMI-MOUNT -	REF. NO.	27029
	REV.	DATE	DESCRIPTION OF REVISION	SCALE	1/4" = 1"		DRAWING NO.	SC500157

WALTERSCHEID PULL TYPE SHREDDER CV PTO, 1 3/8-21, 1000 RPM

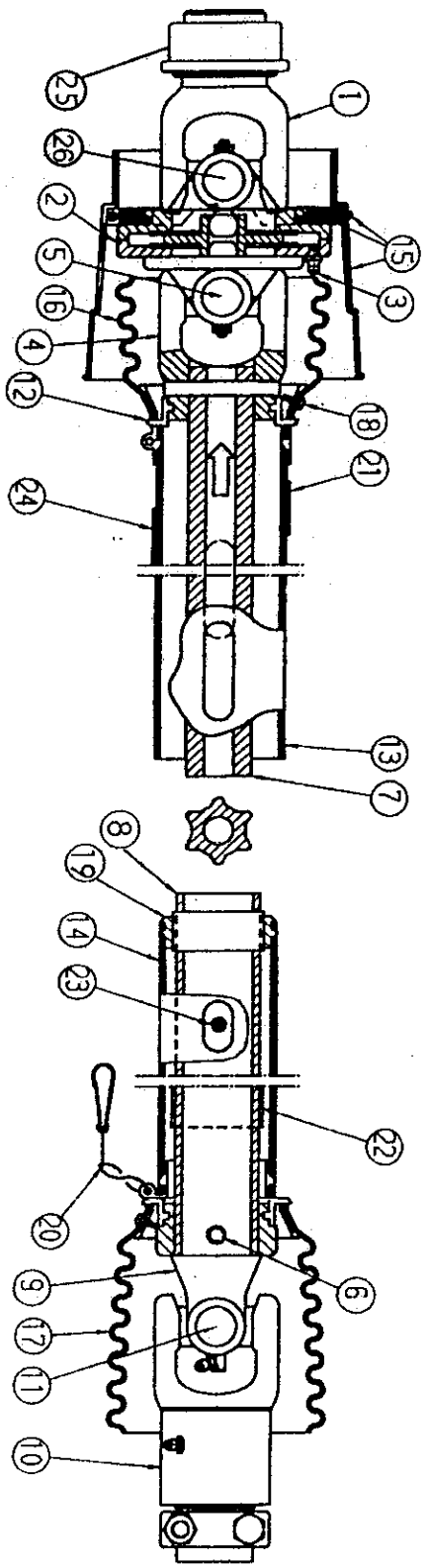


OVERALL COMPRESSED LENGTH, CROSS TO CROSS IS 39.76"

ITEM	PART#	QTY	DESCRIPTION	ITEM	PART#	QTY	DESCRIPTION
1	17169	1	YOKE 1 3/8- 21 SPL	14	50653	1	SHIELD TUBE INNER SHREDDER CV
2	17194	1	DOUBLE YOKE	15	17201	1	CV CONE & BRG ASSY
3	17195	1	ZERK-IN ITEM 2	16	50582	1	SHIELD CONE 4 RIB
4	17196	1	INBOARD YOKE S4	17	17163	1	SHIELD CONE 7 RIB
5	50620	1	CROSS & BEARING KIT	18	16818	8	SCREWS IN 15,16,&17
6	17158	2	SPRING PIN 10X90	19	17171	1	SUPPORT BEARING
7	50650	1	INNER PROFILE S4GA	20	16815	1	SAFETY CHAIN
8	50651	1	PROFILE & SLEEVE S5 SHREDDER CV	21	16816	1	DECAL OUT-IN ITEM 13
9	17162	1	PROFILE & SLEEVE S5 SHREDDER CV	22	16817	1	DECAL INN-IN ITEM 8
10	50575	1	OVERRUNNING CLUTCH	23	16820	1	ZERK-IN ITEM 8
11	17157	1	CROSS & BEARING KIT	24		1	LUBRICATION DECAL
12	16814	2	BEARING RING SC25	25	17172	1	LOCK COLLAR KIT
13	50652	1	SHIELD TUBE OUTER SHREDDER CV	26	17197	1	CROSS & BEARING KIT

COMPLETE PTO PART# 81680

WALTERSCHEID PULL TYPE SHREDDER CV PTO, 1 3/8 6, 540 RPM



OVERALL COMPRESSED LENGTH, CROSS TO CROSS IS 37.80"

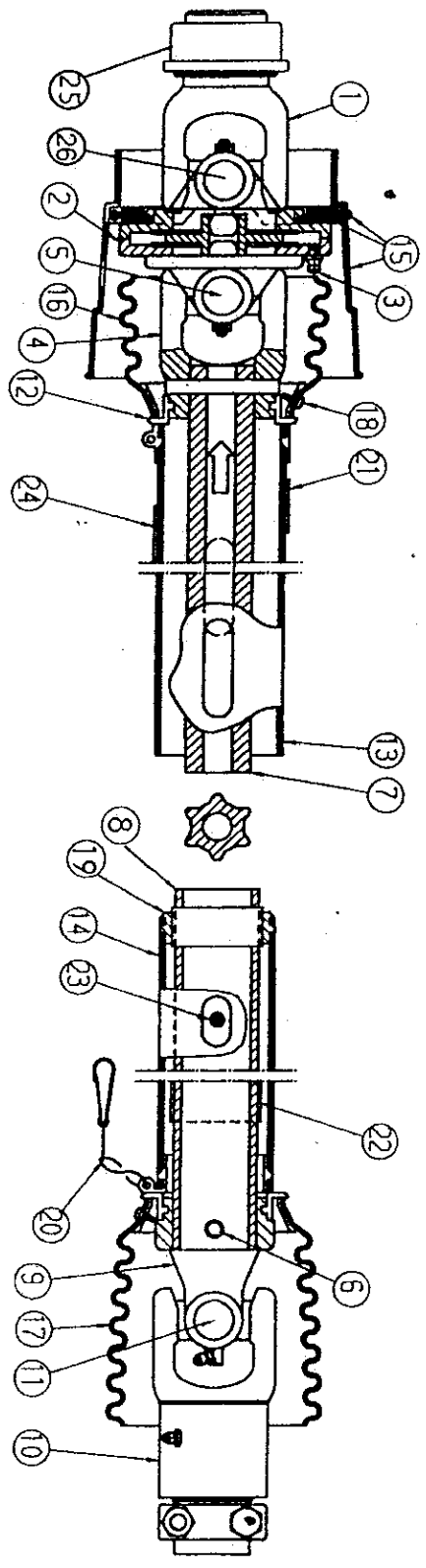
ITEM	PART#	QTY	DESCRIPTION	ITEM	PART#	QTY	DESCRIPTION
1	50762	1	YOKE 1 3/8- 6 SPL	14	50766	1	SHIELD TUBE INNER WALTERSCHEID 540 CV SHREDDER
2	17194	1	DOUBLE YOKE	15	50624	1	CV CONE SHIELD AND BEARING ASSEMBLY
3	17195	1	ZERK-IN ITEM 2	16	50450	1	CONE SHIELD OUTER PTO SHREDDER CV DIRECT DRIVE
4	50621	1	INBOARD YOKE S4	17	17163	1	SHIELD CONE 7 RIB
5	50620	1	CROSS & BEARING KIT	18	16818	8	SCREWS IN 15,16,&17
6	17158	2	SPRING PIN 10X90	19	17171	1	SUPPORT BEARING
7	50763	1	INNER PROFILE S4GA WALTERSCHEID 540 CV SHREDDER	20	16815	1	SAFETY CHAIN
8	50764	1	PROFILE S6 & SLEEVE WALTERSCHEID 540 CV SHREDDER	21	16816	1	DECAL OUT-IN ITEM 13
9	17162	1	YOKE INBOARD WALTERSCHEID	22	16817	1	DECAL INN-IN ITEM 8
10	50575	1	OVERRUNNING CLUTCH	23	16820	1	ZERK-IN ITEM 8
11	17157	1	CROSS & BEARING KIT	24		1	LUBRICATION DECAL
12	16814	2	BEARING RING SC25	25	17172	1	LOCK COLLAR KIT
13	50765	1	SHIELD TUBE OUTER WALTERSCHEID 540 CV SHREDDER	26	17197	1	CROSS & BEARING KIT

COMPLETE PTO PART# 82535

3/9/05

40

WALTERSCHEID PULL TYPE SHREDDER CV PTO, 1 3/4-20 1000 RPM



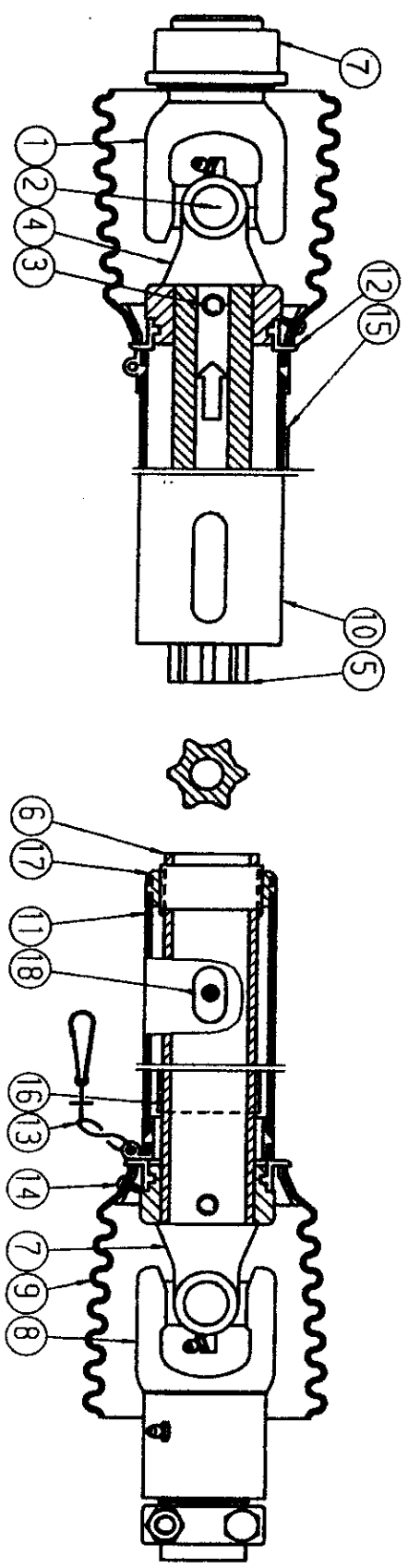
OVERALL COMPRESSED LENGTH, CROSS TO CROSS IS 39.76"

ITEM	PART#	QTY	DESCRIPTION	ITEM	PART#	QTY	DESCRIPTION
1	16792	1	YOKE 1 3/4- 20 SPL	14	50653	1	SHIELD TUBE INNER SHREDDER CV
2	17194	1	DOUBLE YOKE	15	17201	1	CV CONE & BRG ASSY
3	17195	1	ZERK-IN ITEM 2	16	50450	1	SHIELD CONE 4 RIB
4	17196	1	INBOARD YOKE S4	17	17163	1	SHIELD CONE 7 RIB
5	50620	1	CROSS & BEARING KIT	18	16818	8	SCREWS IN 15,16,&17
6	17158	2	SPRING PIN 10x90	19	17171	1	SUPPORT BEARING
7	50650	1	INNER PROFILE S4GA	20	16815	1	SAFETY CHAIN
8	50786	1	PROFILE S5H AND SLEEVE	21	16816	1	DECAL OUT-IN ITEM 13
9	17162	1	INBOARD YOKE S5	22	16817	1	DECAL INN-IN ITEM 8
10	50575	1	OVERRUNNING CLUTCH	23	16820	1	ZERK-IN ITEM 8
11	17157	1	CROSS & BEARING KIT	24		1	LUBRICATION DECAL
12	16814	2	BEARING RING SC25	25	17173	1	LOCK COLLAR KIT
13	50787	1	SHIELD TUBE OUTER	26	17197	1	CROSS & BEARING KIT

COMPLETE PTO PART# 65334

3/10/05

WALTERSCHEID MOUNTED SHREDDER PTO, 1 3/4-20 1000 RPM



OVERALL COMPRESSED LENGTH, CROSS TO CROSS IS 22.05"

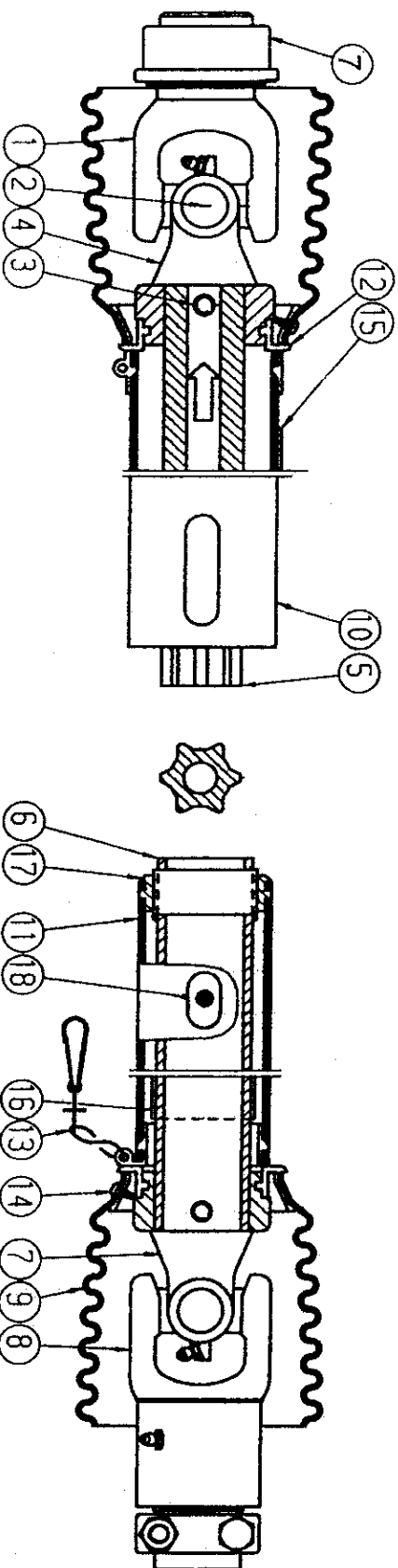
ITEM	PART#	QTY	DESCRIPTION	ITEM	PART#	QTY	DESCRIPTION
1	17200	1	YOKE 1 3/4 20 SP WALTERSCHEID	10	50656	1	SHIELD TUBE OUTER RICE SHREDDER
2	17157	2	CROSS & BEARING KIT	11	50657	1	INN SHIELD TUBE RND
3	17158	1	SPRING PIN 10X90	12	16814	1	BEARING RING SC25
4	17159	1	YOKE INBOARD WALTERSCHEID	13	16815	1	SAFETY CHAIN
5	50654	1	PROFILE INNER S4GA PRICE SHEDDER	14	16818	1	SCREWS IN 9
6	50655	1	PROFILE & SLEEVE SSH RICE SHREDDER	15	16816	2	DECAL OUT-IN ITEM 10
7	17173	1	COLLAR KIT 1 3/4 WALTERSCHEID	16	16817	1	DECAL INN-IN ITEM 6
8	50575	1	OVERRUNNING CLUTCH	17	17171	1	SUPPORT BEARING
9	17163	1	SHIELD CONE 7 RIB				

COMPLETE PTO PART# 65177

3/9/05

4

WALTERSCHEID, MOUNTED SHREDDER PTO, 1 3/8-21 1000 RPM

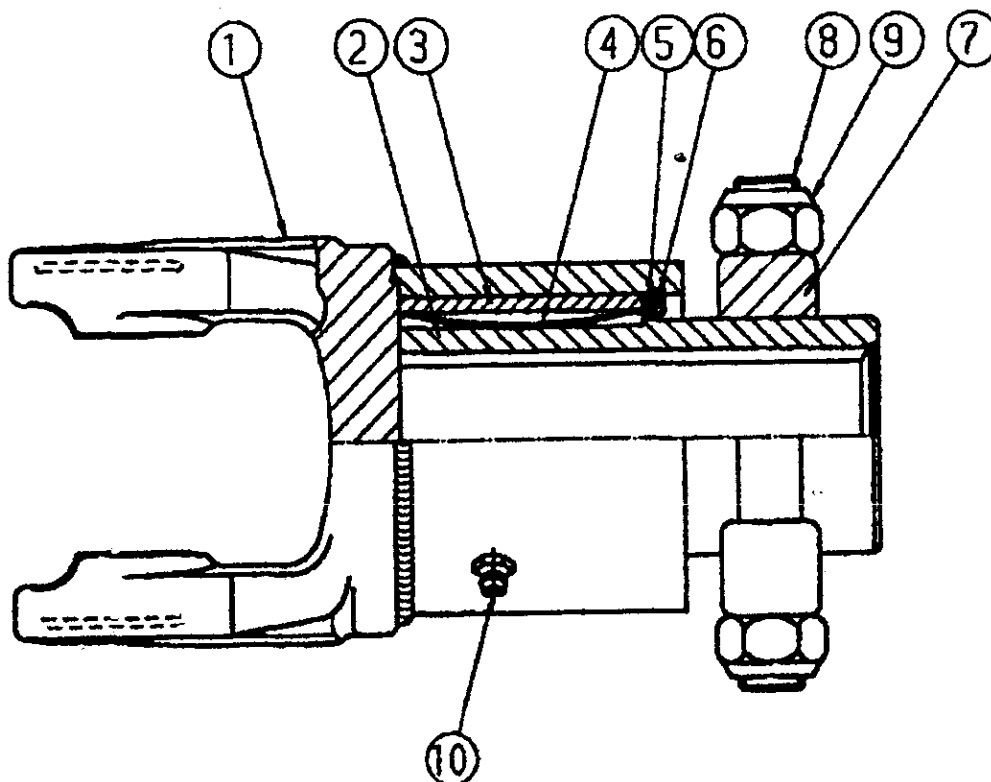


OVERALL COMPRESSED LENGTH, CROSS TO CROSS IS 22.05"

ITEM	PART#	QTY	DESCRIPTION	ITEM	PART#	QTY	DESCRIPTION
1	17479	1	YOKE 1 3/8 21 SP WALTERSCHEID	10	50656	1	SHIELD TUBE OUTER RICE SHREDDER
2	17157	2	CROSS & BEARING KIT	11	50657	1	INN SHIELD TUBE RND
3	17158	1	SPRING PIN 10X90	12	16814	1	BEARING RING SC25
4	17159	1	YOKE INBOARD WALTERSCHEID	13	16815	1	SAFETY CHAIN
5	50654	1	PROFILE INNER S4GA PRICE SHEDDER	14	16818	1	SCREWS IN 9
6	50655	1	PROFILE & SLEEVE S5H RICE SHREDDER	15	16816	2	DECAL OUT-IN ITEM 10
7	17172	1	COLLAR KIT 1 3/8 WALTERSCHEID	16	16817	1	DECAL INN-IN ITEM 6
8	50575	1	OVERRUNNING CLUTCH	17	17171	1	SUPPORT BEARING
9	17163	1	SHIELD CONE 7 RIB				

COMPLETE PTO PART# 82430

SHREDDER OVERRUNNING CLUTCH, PART# 50575



ITEM	PART#	QTY.	DESCRIPTION
1	50583	1	ZERK
2	50584	1	CLUTCH HOUSING
3	50585	2	LEAF SPRING
4	50586	2	KEY
5	50587	1	HUB 1.75" 20-SPLINE
6	50588	1	RING RETAINING
7	50589	1	SNAP RING
8	50485	2	BOLT 16 x 110mm
9	3149	2	NUT 16mm
10	50486	2	BRIDGE

3/9/05

Important – Read This First

The registration card is to be filled in completely and promptly returned to factory. It provides a ready reference to help you in securing parts and in answering questions that you may have at a later date.

This card does not put you on a mailing list. Nor is the information on the card made available to anyone else.

We urge the return of this card so that you will receive maximum service benefits.

Where a separate instruction manual has been received by the customer, a parts manual was sent with this machine. If you have not received the parts manual, ask your dealer.

Date of Purchase _____

Owner's Name _____

Dealer's Name _____

Serial No. _____

**PLEASE
RETURN
THIS
CARD
WITHIN
7 DAYS**



Warranty Registration Card

This form must be filled out and signed by customer at the time of delivery.

Product _____ Model # _____ Serial # _____

Date of Purchase _____

Customer Name _____ Dealers Name _____

Address _____ Address _____

City _____ City _____

State _____ Zip _____ State _____ Zip _____

The above unit and operator's manual have been received by me and I understand and have been thoroughly instructed by my dealer as to operator's manual content, equipment care, adjustments, safe operation & explained and reviewed the warranty policy.

Owner's Signature _____