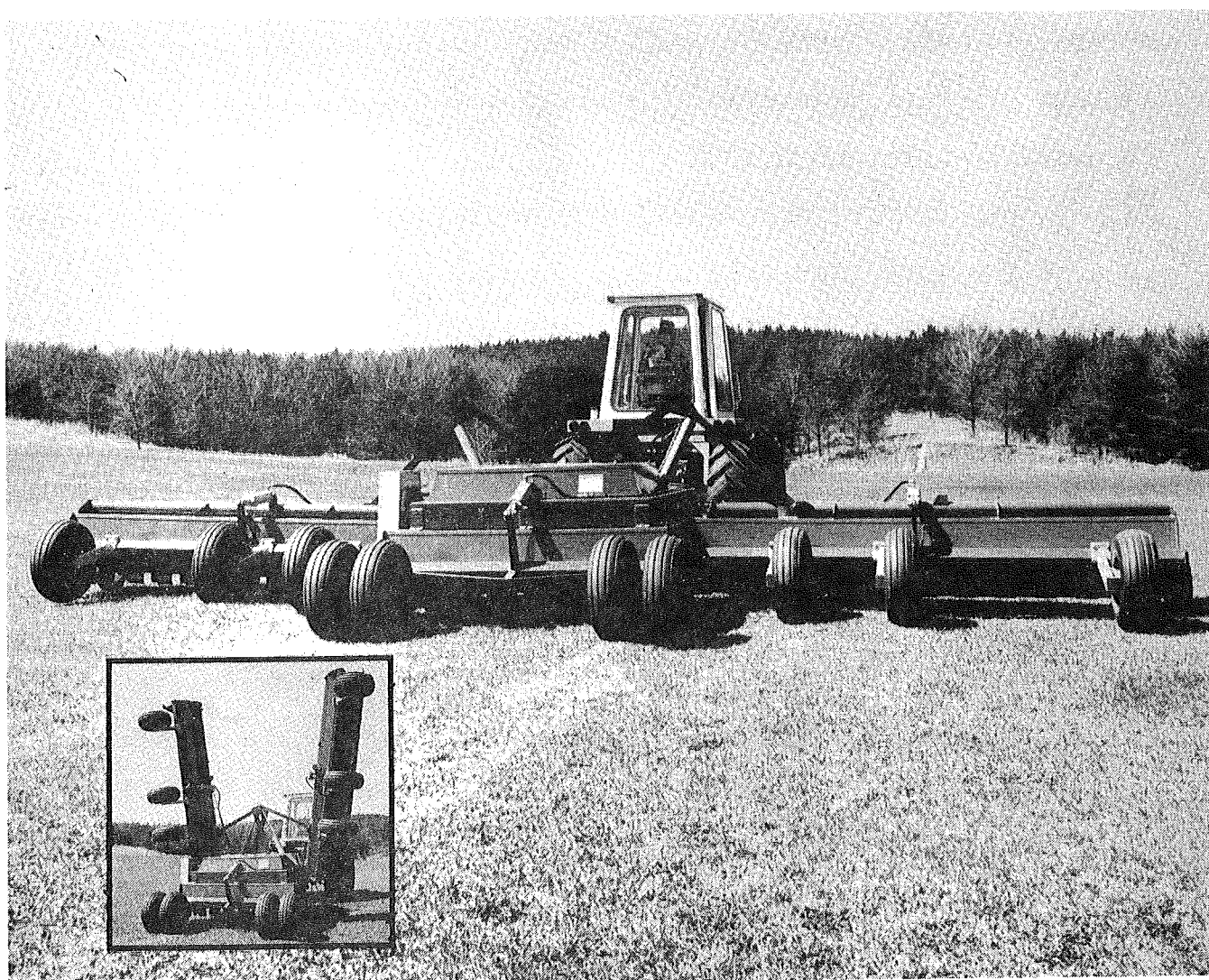




Model 24 and 30 SFP
Flex-Wing
Heavy Duty Shredder



Operator's and Parts Manual

Form No. SH196, February 1985

B.C. Mathews Co./ 500 Industrial Ave., Crystal Lake, IL 60014, U.S.A.
815/459-2210 Telex 72-2488

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INTRODUCTION

THE PURPOSE OF THIS MANUAL IS TWO-FOLD. FIRST, IT WILL GUIDE YOU THROUGH THE PROPER ASSEMBLY INSTRUCTIONS. THROUGHOUT THE MANUAL ARE OPERATING AND SAFETY SUGGESTIONS. BY OBSERVING THEM, YOU WILL PROLONG THE LIFE TIME OF THIS INVESTMENT.

SECONDLY, THE MANUAL IS INTENDED AS A REPAIR PARTS SOURCE LIST. NOTE: WHEN ORDERING REPLACEMENT PARTS, ALWAYS FOLLOW THIS PROCEDURE:

- 1) ORDER BY PART NUMBER
- 2) GIVE MODEL NUMBER (i.e. SIZE)
- 3) WHERE APPLICABLE, GIVE THE MEASUREMENTS OF THE REPLACEMENT PART (i.e. SHAFT LENGTH)

AFTER ASSEMBLING YOUR FLEX SHREDDER, KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

FOR YOUR CONVENIENCE, WE HAVE INCLUDED EXPLODED ILLUSTRATIONS OF THE MAJOR ASSEMBLIES.

RECEIPT OF MERCHANDISE:

UPON RECEIPT OF MERCHANDISE, BE SURE TO CHECK THE NUMBER AND DESCRIPTION OF ALL ITEMS ON THE BILL OF LADING. IF ANYTHING IS MISSING, RECORD IT ON THE DELIVERY RECEIPT. ALSO CHECK CONDITION OF MERCHANDISE AND IF ANYTHING IS DAMAGED, NOTE THAT ON THE DELIVERY RECEIPT. CLAIMS FOR SHORTAGES OR DAMAGES MUST BE REPORTED WITHIN TEN (10) DAYS FROM DATE OF DELIVERY.

ONCE MERCHANDISE LEAVES THE FACTORY, IT BECOMES THE PROPERTY OF THE CONSIGNEE. CONSIGNEE MUST FILE CLAIM FOR LOSS OR DAMAGE.

MATHEWS COMPANY LIMITED WARRANTY

MATHEWS COMPANY DESIGNS AND MANUFACTURES ITS EQUIPMENT FOR GOOD PERFORMANCE AND FOR RELIABILITY. IT IS OUR GOAL TO HAVE SATISFIED CUSTOMERS WHO WILL TELL THEIR NEIGHBOR TO BUY A MATHEWS PRODUCT. WE ARE THEREFORE INTERESTED IN OUR CUSTOMER AFTER THE SALE IS MADE AS WELL AS BEFORE. WE MAKE EVERY EFFORT TO PRODUCE A FIRST CLASS PRODUCT, BUT IT IS POSSIBLE FOR DEFECTIVE MATERIAL AND WORKMANSHIP TO PASS INSPECTION. MATHEWS COMPANY WILL REPLACE FREE OF CHARGE ANY TIME WITHIN ONE YEAR, PARTS MANUFACTURED BY US FOUND TO BE DEFECTIVE. PARTS, ELECTRICAL SUPPLIES AND MOTORS NOT MANUFACTURED BY US ARE USUALLY WARRANTED BY THE SUPPLIER. COMPLAINTS MUST BE DIRECTED TO THE FACTORY STATING THE EXACT PROBLEMS AND A LIST OF THE PARTS INVOLVED. THE CUSTOMER OR DEALER WILL RECEIVE A REPLY FROM THE FACTORY AUTHORIZING THE RETURN OF PARTS. IF PARTS ARE TO BE SCRAPPED LOCALLY, YOU WILL BE SO ADVISED. UPON PRIOR APPROVAL, MATHEWS WILL BE RESPONSIBLE FOR PAYING ANY UNUSUAL LABOR EXPENSES REQUIRED TO MAKE REPAIRS TO NEW MACHINES. WE RESERVE THE RIGHT TO ADJUST THE CHARGE FOR LABOR AND EXPENSES IN THE EVENT WE FEEL THE CLAIM IS UNJUST OR UNFAIR. SINCE THERE MAY BE SET UP OR INSTALLATION AND START UP LABOR REQUIRED, THIS PORTION IS UP TO THE DEALER OR CUSTOMER AND CANNOT BE CONSIDERED AS WARRANTY. IMPROPER ADJUSTMENTS MADE BY THE DEALER OR FARMER ARE NOT WARRANTED. ACCIDENTAL BREAKAGE, MALFUNCTIONS, ELECTRICAL PROBLEMS CAUSED BY LOW VOLTAGE CONDITIONS OR ANY OF THE NUMEROUS WAYS THAT PROBLEMS OCCUR AND ARE UNCONTROLLABLE BY THE MANUFACTURER, ARE NOT WARRANTED. WE ASSUME NO LIABILITY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. THIS

MATHEWS COMPANY LIMITED WARRANTY

WARRANTY DOES NOT EXTEND TO LOSS OF CROPS, LOSSES CAUSED BY HARVEST DELAYS OR ANY EXPENSE OR LOSS FOR LABOR, SUPPLIES, RENTAL MACHINERY OR ANY OTHER REASON.

THIS WARRANTY IS EXPRESSLY LIMITED TO THE REPLACEMENT OF DEFECTIVE PARTS AS SET FORTH HEREIN, AND IS THE ONLY WARRANTY GIVEN BY THE MANUFACTURER OR AGENT, DISTRIBUTOR, DEALER, OR SELLER TO THE PURCHASER, AND IS IN LIEU OF ANY AND EVERY WARRANTY OF EVERY KIND EITHER EXPRESSED OR IMPLIED, AND THIS WARRANTY CANNOT BE CHANGED, MODIFIED OR ADDED TO EXCEPT IN WRITING BY A DULY ELECTED OFFICER OF MATHEWS CO., AND NO DEALER, DISTRIBUTOR, AGENT, SALESMAN OR REPRESENTATIVE HAS ANY RIGHT OR AUTHORITY TO CHANGE, MODIFY OR ENLARGE THIS WARRANTY OR TO MAKE ANY PROMISE, STIPULATION AND AGREEMENT INCONSISTENT OR IN CONFLICT THEREWITH.

THIS WARRANTY DOES NOT APPLY IF THE EQUIPMENT HAS BEEN SUBJECTED TO MISUSE, NEGLIGENCE ON THE PART OF THE OWNER OR OPERATOR, OR ACCIDENT. THIS WARRANTY DOES NOT EXTEND TO EXPENDABLE ITEMS THAT WITHIN NORMAL USAGE MAY BE REPLACED WITHIN THE WARRANTY PERIOD. THE WARRANTY DOES NOT COVER NORMAL MAINTENANCE, SERVICES SUCH AS CLEANING OR MINOR ADJUSTMENTS.

MATHEWS CO. EQUIPMENT SOLD THROUGH OTHER THAN AUTHORIZED DEALERS IS NOT SUBJECT TO STANDARD MATHEWS CO. WARRANTY AND SERVICE POLICIES. THE WARRANTY BECOMES EFFECTIVE UPON RECEIPT BY MATHEWS CO. OF A PROPERLY COMPLETED WARRANTY REGISTRATION CARD.

SAFETY

CAUTION

1. Keep all guards in place.
2. Stop engine before leaving operator's position to adjust, lubricate, clean or unclog machine, unless otherwise specifically recommended in the OPERATOR'S MANUAL.
3. Wait for all movement to stop before servicing the machine (including rotors).
4. Keep hands, feet and clothing away from power driven parts.
5. Keep off equipment unless seat or platform for operation and observation is provided.
6. Keep all others off.
7. Use flashing warning lights when operating on highways except when prohibited by law.
8. Make certain everyone is clear of machine before starting engine or operation.
9. Keep all persons off and away from machine when cutting and/or transporting.
10. Do not stand under or near raised wing bodies and keep all others clear of raised wing bodies.
11. Do not make any adjustments under raised wing bodies.
12. Do not transport machine with wing bodies raised unless safety chain is securely installed between wing bodies.
13. Do not store machine with wing bodies in raised position.

SECTION I.

SETUP - ASSEMBLY INSTRUCTIONS

Check packages and bundles to make sure they correspond with your shipping documents. Make claims for shortages immediately.

Step 1. Place the main frame and 7' center body assembly on a level area approximately 6" off the ground. Mount the four (4) wheel mount assemblies (Page 40) to the square axle tube weldment. For assembly convenience, leave all tires aside until all four wheel mount weldments are on the axle. Assemble the two (2) intermediate wheel mount weldments before the two end weldments are put in place. The wing and center body cylinders should be assembled before the tires. If the tires go on first, the cylinder mounting eye on the axle tube will be pushed inboard too close to the wing body and center body cylinder mounting eye, preventing installation of the cylinders. It is imperative that all four (4) bolts on each wheel mount are tightened equally and a few turns at a time to insure proper seating on the axle. Tires can now be mounted.

Step 2. Place either the left or right wing body next to the main frame so that the hinge bushings on the main frame and wing body are in line. Skid the wing body sideways and up until the bores of both sets of bushings line up. This will require elevating the wing body as it is moved over to join the main frame. Install both hinge pins (Page 34 & 36) together, sliding each one gradually for proper alignment of the wing body and main frame. IT IS IMPORTANT TO ASSEMBLE HINGE PINS WITH TAPERED TIPS POINTING AWAY FROM ONE ANOTHER. If both pins do not engage, check the alignment of the hinge bores and adjust the wing body accordingly. The hinge pins are sized closely to the bushings so they may need to be tapped in with a hammer or mallet. Excessive force installing hinge pins will damage the pins and bushing bores. When pins are assembled, install cap screws through holes at tapered ends. Repeat procedure for opposite wing body.

Step 3. Mount three (3) (two (2) on 24SFP Model) wheel mount weldments on each wing axle. Again it is recommended that tires-wheels be installed after wheel mount weldments are bolted to axle. Center wheel mount assembly should be reasonably centered (on 30SFP only). Inboard wheel mount assembly on right wing body should be at a safe clearance from outboard drive guard. This applies regardless of prone or raised position of wing body. All wheel mount weldment bolts are to be tightened a few turns at a time for a proper grip on the axle tube.

SECTION I.

Step 4. Remove the banding from each wing body height adjustment cylinder and hose and install them on the wing body mount and wing axle mount using the pins and clips provided in each cylinder.

Step 5. Install the two gauge wheel assemblies (Page 38) on each wing body, using the lower set of holes on the body mounting bars. Uncoil the wing body tie chains from the main frame and slip the end of the chain into the chain mount body tie on top of each wing body. CAUTION: The bolt eye must be in line with the hinge axis or the tie chain will become slack and excessively tight during the up-down travel of the wing bodies. Install tie chain lock bars over the slots on the chain mount body ties (Item 13 & 14, Page 18). The chains will never be removed from their locations as long as the wings are assembled to the center body. Two plastic tie wraps are provided for each side to secure the wing lift cylinder hoses to the tie chains.

Step 6. Remove the banding from the wing lift cylinder and primary lift arm assembly and install the secondary lift arm to the lift cylinder rod by removing the clips and pins inserted through the rod end of the cylinder (Page 34). Line up the holes in the secondary lift arm, cylinder rod end and primary lift arm and insert the pin and clips. The lower end of the secondary lift arm is mounted to the wing body with the pin provided.

Step 7. Remove the front PTO guard and slide the tractor take-apart PTO shaft onto the splined drive shaft and fasten with the cap screw and washer provided. The cap screw must be wired securely through the hole in its head and around the PTO yoke. Replace the PTO guard. Next step is to secure 3-male quick couplers to connect the particular tractor used to the M-C flex shredder hydraulics. When flex shredder is not in use, keep cap screw and washer assembled to spline drive shaft (Page 52). Wiring of the yoke joining the splined drive shaft to the fixed length universal joint is also required (Page 54).

Step 8. Slide the male wing PTO half shaft into the female half shaft attached to each wing body rotor end. Pull the completed assembly back and onto the splined lower jackshaft, depressing the safety lock pin as this is done. Push the assembly all the way on until the safety lock pin snaps into the groove on the splined jackshaft. WITHOUT depressing the safety lock pin, pull and push several times on the PTO to make sure it is securely in place. Both left and right wing body PTO's are installed identically. It is not necessary to phase either of these PTO's. (Page 42 shows PTO arrangement) NOTE: Whenever the wing bodies are raised it is necessary to repeat the above procedure BEFORE RUNNING the machine.

SECTION I.

THE MACHINE ASSEMBLY IS NOW COMPLETE. PRIOR TO ACTIVATING THE MACHINE, CHECK THE GEARBOX OIL LEVEL AND ALL NUTS AND BOLTS FOR TIGHTNESS. MAKE SURE ALL GUARDS AND SHIELDS ARE IN PLACE AND SECURELY FASTENED. RUN MACHINE AT A LOW RPM CHECKING TO MAKE SURE THAT ALL DRIVE LINE PARTS ARE MOVING FREELY.

SECTION II.

OPERATING SUGGESTIONS

By following the suggestions in this section, you will be able to prolong the life of your flex shredder and get the most efficient and effective results.

- (1) BEFORE ATTEMPTING TO MAKE ANY INSPECTION, BE SURE TO DIS-ENGAGE THE PTO AND STOP THE TRACTOR ENGINE.
- (2) AFTER SHREDDING about 10-15 acres, the inside of the machine and knife blades will become polished and will give the best performance.
- (3) AFTER OPERATING for a few hours, make sure that all nuts and bolts are tight, inspect knife blades for secure and proper placement.
- (4) After operating for two or three hours, the tension in the secondary drive belt will require adjustment. Machine operation with loose drive belts will cause excessive wear and shorten belt life. (See maintenance, item 2).
- (5) ALTHOUGH THE MACHINE IS OF VERY RUGGED CONSTRUCTION, EXCESSIVE ABUSE CAUSED BY ROCKS AND OTHER OBSTRUCTIONS WILL RESULT IN EXCESSIVE WEAR AND COSTLY REPAIR TO THE ROTORS AND BLADES.
- (6) DO NOT EXCEED THE 1000 RPM PTO SPEED.
- (7) On all row crops, operate the knives 2" above the hills.
- (8) When operating in row crops, the center body wheels may be adjusted for various spacing.
- (9) Cutting height adjustment is obtained with the three (3) hydraulic lift cylinders. A pre-determined height setting may be achieved by having an equal number of ram limiters on each cylinder rod.

SECTION II.

(10) Before running the machine after road transport, make sure both wing PTO's are properly connected. MACHINE OPERATION WITHOUT WING PTO ENGAGEMENT WILL SERIOUSLY DAMAGE THEM.

(11) WHENEVER THE WING BODIES ARE FULLY RAISED AND BEFORE ROAD TRANSPORT, THE SAFETY CHAIN BETWEEN BOTH WING BODIES MUST BE SECURELY INSTALLED. (SEE ILLUSTRATION #1)

(12) Both wings and the center body are provided with an adjustable cutter bar. If crop residues are quite heavy, it may be necessary to loosen cutter bar bolts and slide the bar forward and away from the cutting rotor knives. The lighter crop residues become and the more the wear occurs on cutting knives and/or cutting bar, the more necessary it will become to loosen the cutter bar fasteners and slide the bar backward toward the knives. Cutter bars are factory-set at a maximum distance away from knife tips. THE CUTTER BAR SHOULD ALWAYS BE KEPT AT A SAFE CLEARANCE FROM THE CUTTING KNIVES.

(13) Hitch settings: The straight drawbar hitch is set by leveling the lower front portion of the main frame front to rear and adjusting the machine clevis up or down to suit the drawbar height on the particular tractor being used. The lower front frame of the machine should have 10"-11" ground clearance as measured from the bottom of this portion of the frame to the ground.

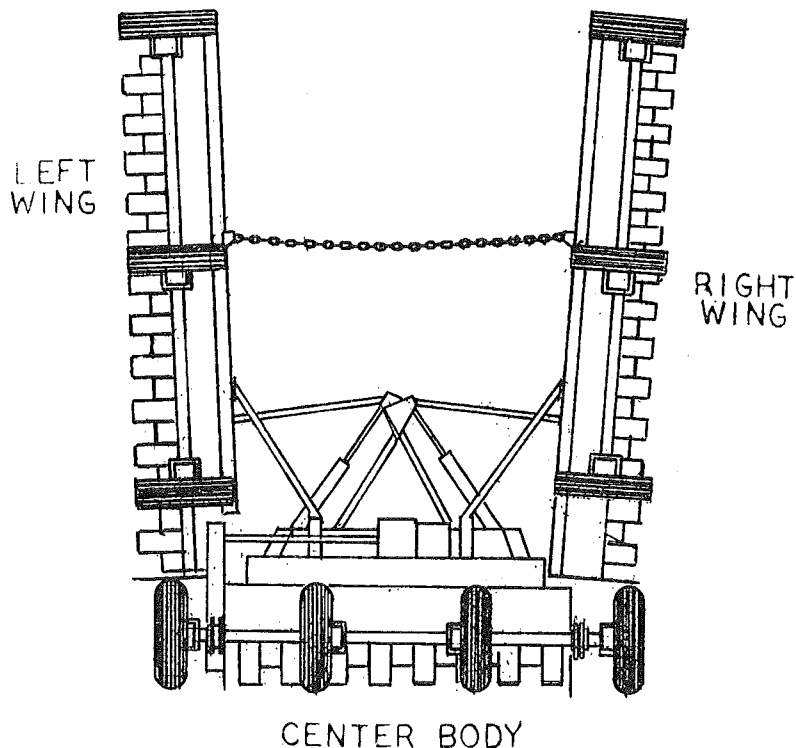


ILLUSTRATION 1

SECTION III.

INITIAL WING SUPPORT ADJUSTMENT

Wing support arms are used when machine is to be transported with wings folded up.

(A) Make sure the hinge bushings of the wings and main frame are assembled with hinge pins.

(B) Place wing support arm (item 2) on wing plate (base plate with slots) and bolt down loosely.

(C) Place support arm brace (item 5) into place and bolt down loosely.

(D) Before raising wings hydraulically, COMPLETELY REMOVE wing stops. If they are not removed, they will interfere with wing support arms, preventing the latter from being pinned into position when wings are raised to the highest location. ALWAYS RAISE AND LOWER WINGS ON LEVEL TERRAIN. Failure to do this will cause machine damage. The function of the wing stop is to prevent wing PTO damage when wing(s) is allowed to raise high enough to cause wing PTO separation. Never operate wing(s) in such a steep incline that will cause wing(s) to lift the center body after wing/stop has engaged. See wing stop illustration on page 11.

(E) Remove the support arm lock pin (item 4, page 36) from the saddles.

(F) Wing can now be slowly raised to transport position. CAUTION: MAKE SURE WING SUPPORT ARM IS ADJUSTED IN LINE WITH BEAM ON FRAME SO THE SADDLE WILL CLEAR BEAM WITHOUT INTERFERENCE. When winging up make sure wing tie chain is adjusted enough to keep eye bolt free of excessive tension.

(G) As the wing nears the transport position, the saddle will come down over the cross member of the main frame. The two holes on the saddle are now ready to receive the lock pin and keeper pin (item 7). At this time the second wing will have started up. Repeat operation until other wing is locked into place with lock pin. Release hydraulic pressure so clevis pins can support the raised wings. Tension will be removed from wing lift cylinders.

(H) With pin in place and wing suspended, tighten bolts on wing plate.

(J) Tighten bolts on support arm brace.

(K) Remove male wing PTO half.

(L) TO WING DOWN - Reverse above procedure.

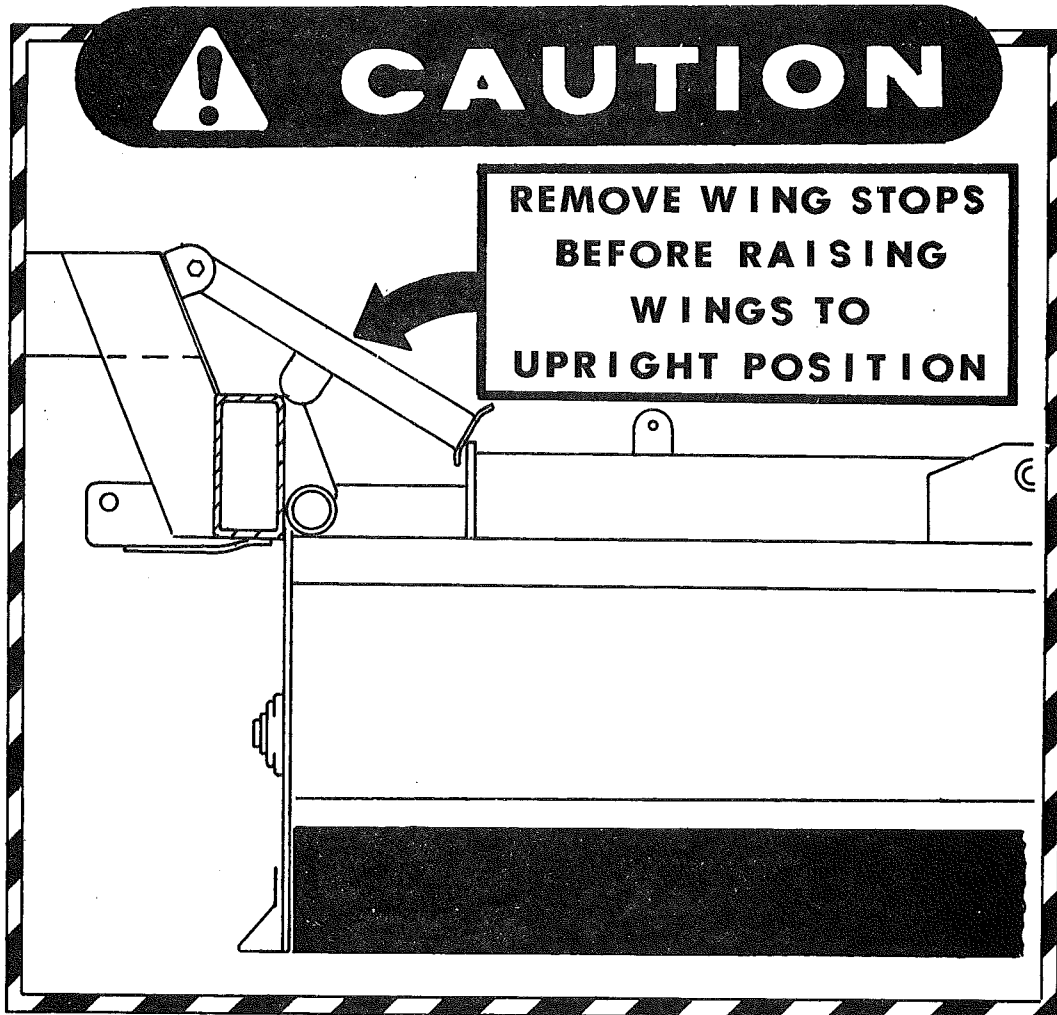


ILLUSTRATION 2

SECTION IV.

MAINTENANCE

1. SHARPENING ROTOR BLADE

(A) Secure the rotor. Line up a row of knives (one at a time) with the row in line with the large side plate slot on the end of the wing body and/or center body.

(B) Remove the end locator bracket and slide the knife hanger

SECTION IV.

(B) continued
rod out, allowing knives to drop off.

(C) Sharpen the blades. DO NOT sharpen the front edge. Replace any damaged blades or hangers. Machine operation with damaged blades and/or hangers can cause rotor imbalance.

(D) Replace the knife blades, knife hanger rod and end located bracket. MAKE SURE the dished or concave side of the blades, when hanging free, are facing the front of the machine and will swing freely.

2. DRIVE BELT ADJUSTMENT AND CARE

Both main drive belts and three-band secondary drive belts are the same construction. These belts, when new, will do 95% of their stretching and seating in the first 20-30 hours of operation. IT IS IMPORTANT that they be kept as tight as possible during the initial run-in period and thereafter.

CAUTION: Drive belts that are operated too loose will heat up and wear excessively, greatly shortening their life. They should not be exceedingly tight. During the break-in period, both sets of drive belts should be checked every 2-3 hours of operation and adjusted as needed. After the break-in period, both sets of belts should be checked daily before running and adjusted when needed. To adjust the three-band drive belt, loosen both large idler lock nuts. Adjust the 1/2" threaded rod outward until proper tension is achieved.

To check for proper tension on the secondary drive (three-band) belts, apply approximately 60 pounds of force inward, midway between the IDLER and LOWER pulley. With this amount of force, the belt should deflect 1/8" to 3/16" as measured with a straight edge.

The ten-band belt drive (wing drive) features a spring loaded idler which maintains proper tension. The only adjustment required is to keep spring compression at 10". To achieve this, adjust lower spring retainer upward until sleeve (inside of spring and outside of rod) is tight. Tighten jam nut against adjusting nut. This procedure should have to be done only occasionally. but usually as soon as the belts are broken in.

IMPORTANT

KEEP STRAW/STALKS, DUST AND OTHER DEBRIS FROM BUILDING UP TO ANY EXCESS IN EITHER BELT GUARD. THIS WILL INSURE LONGER BELT LIFE. (Care should be taken in adjusting both sets of drive belts as it is often the tendency to have banded V-belts too loose and not too tight.)

SECTION IV.

3. CHECK THE OIL LEVEL IN THE GEARBOX REGULARLY. To check it, remove the oil level plug on the side of the gearbox. If at the proper level, the oil will run out of this hole. If not at the proper level, remove the filler plug on top of the gearbox and bring up to oil level with 90 gear lube.

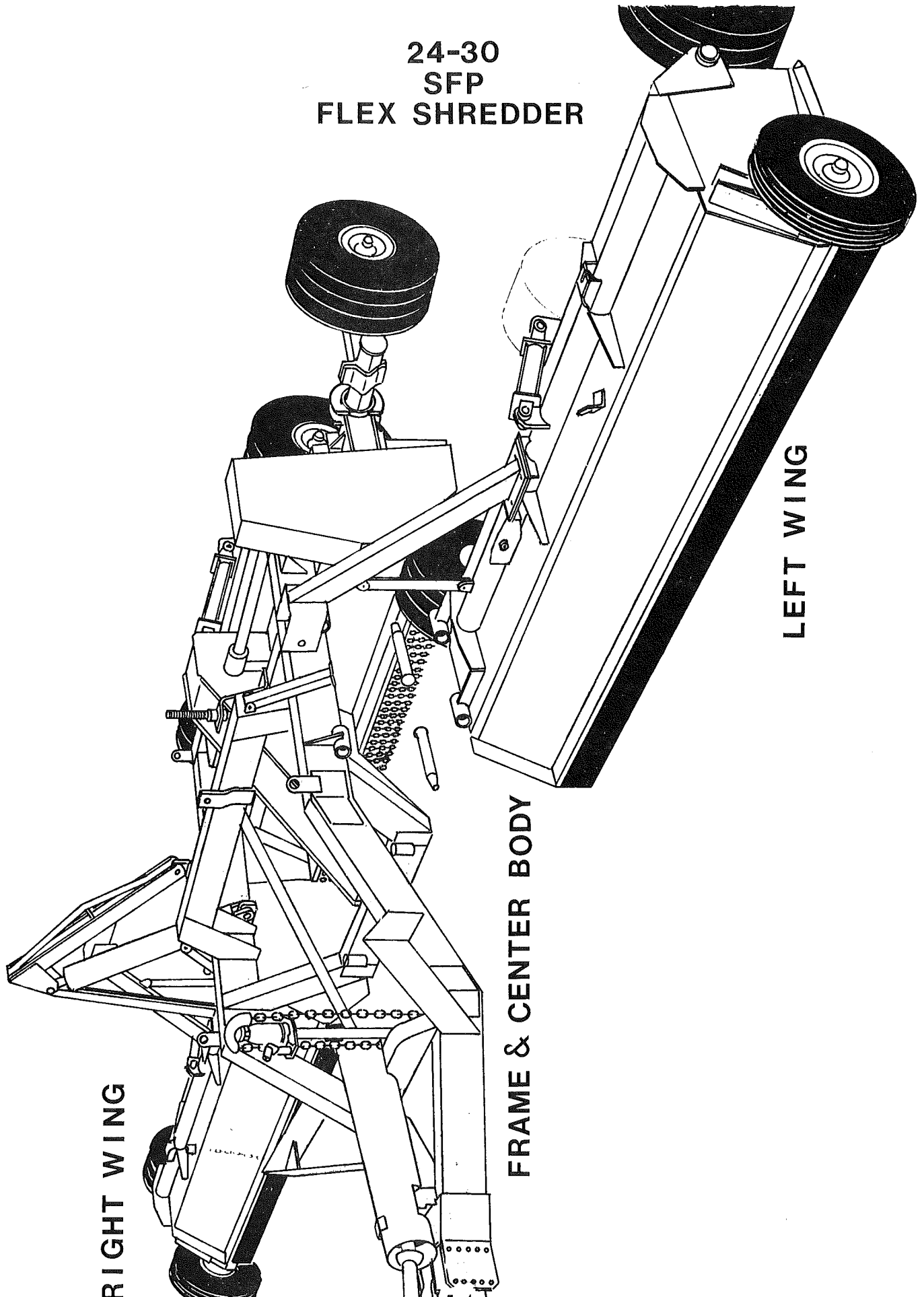
IF MACHINE IS IN CONSTANT USE, LUBRICATE ALL POINTS DAILY. USE GREASE SPARINGLY TO AVOID DAMAGING BEARING SEALS. Too much grease will force the seal out, resulting in loss of grease and rapid contaminatin. As long as seals are intact, a small amount of grease will prolong the life of the bearing.

4. GREASE ALL BEARINGS, PTO'S AND WING BODY HINGE PINS DAILY. There are six (6) flange bearings (one on each end of the cutting rotors). The center body drive assembly uses five (5) pillow block bearings. Two (2) of the bearings are inside the centrally located wing drive guard on the idler pivot shaft. These bearings can be greased very infrequently. There are two (2) more pillow blocks on the center body drive line shaft (under the PTO cover). There is a bearing on the outboard end of the gearbox output shaft (between the main frame and guard).

There are eleven (11) PTO grease zerks, and are as follows: Three (3) on the tractor take-apart shaft, two (2) on the fixed incoming shaft and three (3) on both lower wing body drive PTO's. All PTO grease zerks are accessible at the end of the guards. When greasing through the round holes, rotate the particular shaft until the grease zerk lines up with these holes.

5. WINTER STORAGE. Before storing your flex shredder, grease all of the bearings to eliminate any cavities where consensation may occur. It is advisable to apply oil or grease to all exposed inside surfaces of the machine, to prevent rusting and pitting during storage.

24-30
SFP
FLEX SHREDDER

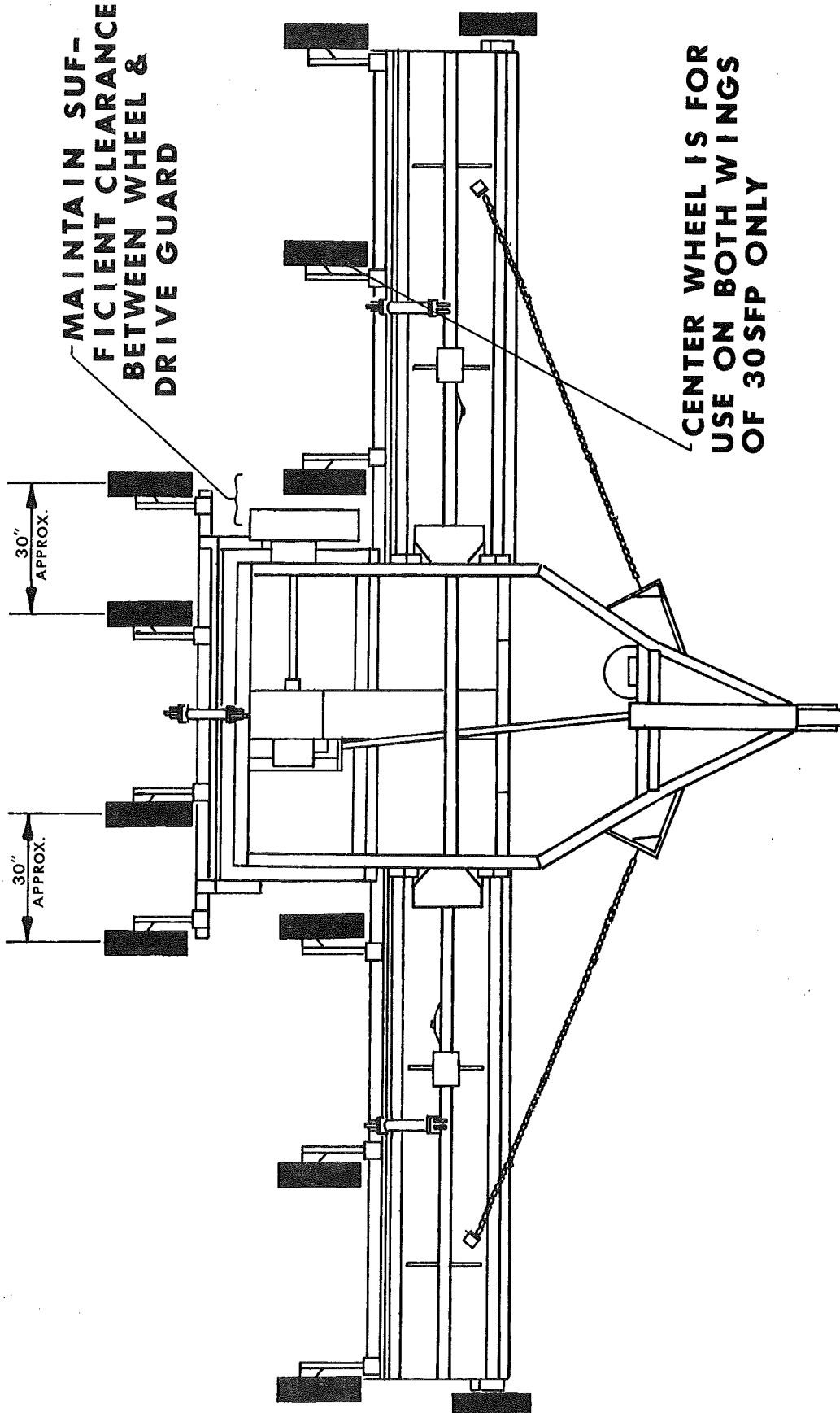


RIGHT WING

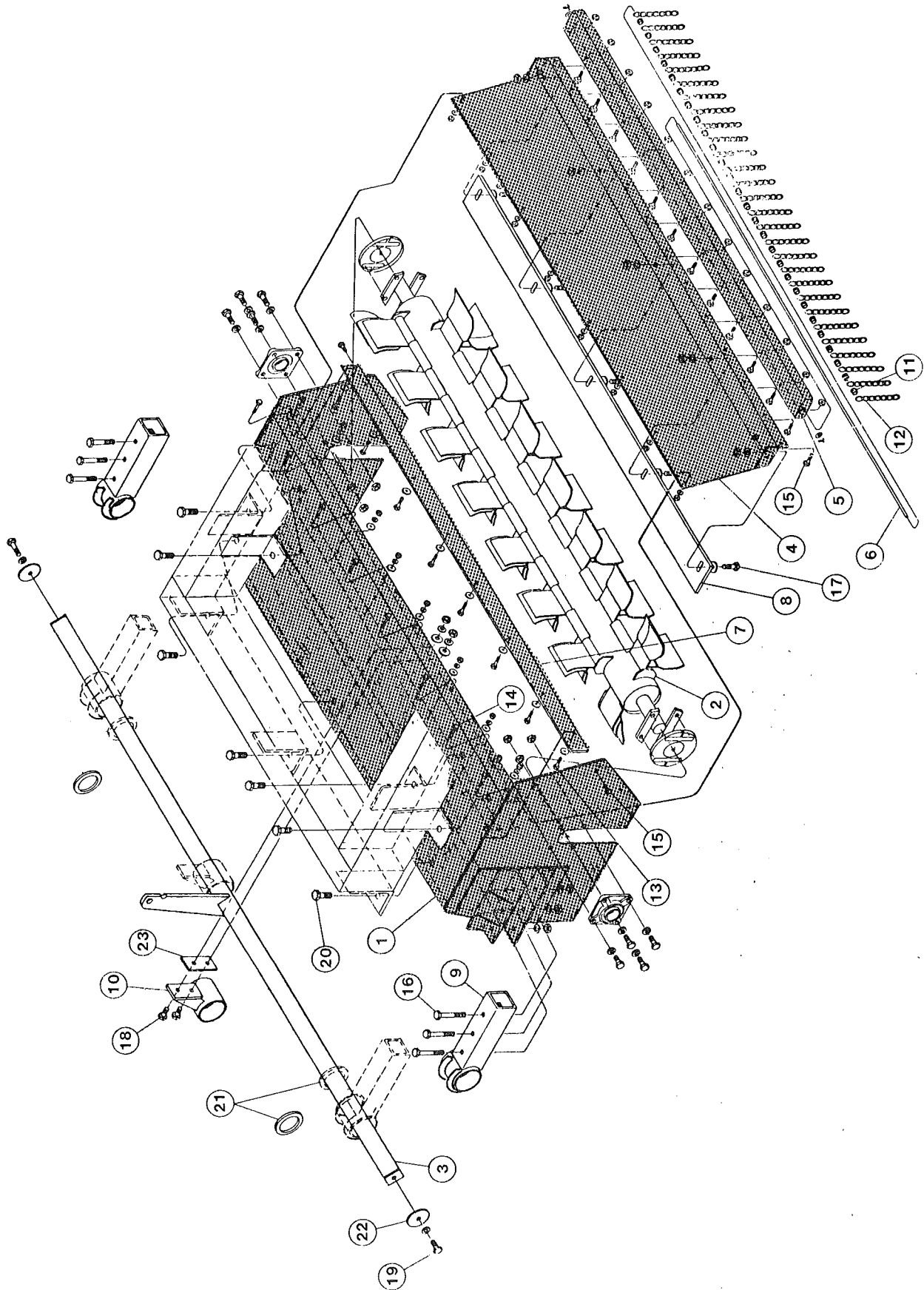
FRAME & CENTER BODY

LEFT WING

RECOMMENDED WHEEL LOCATIONS



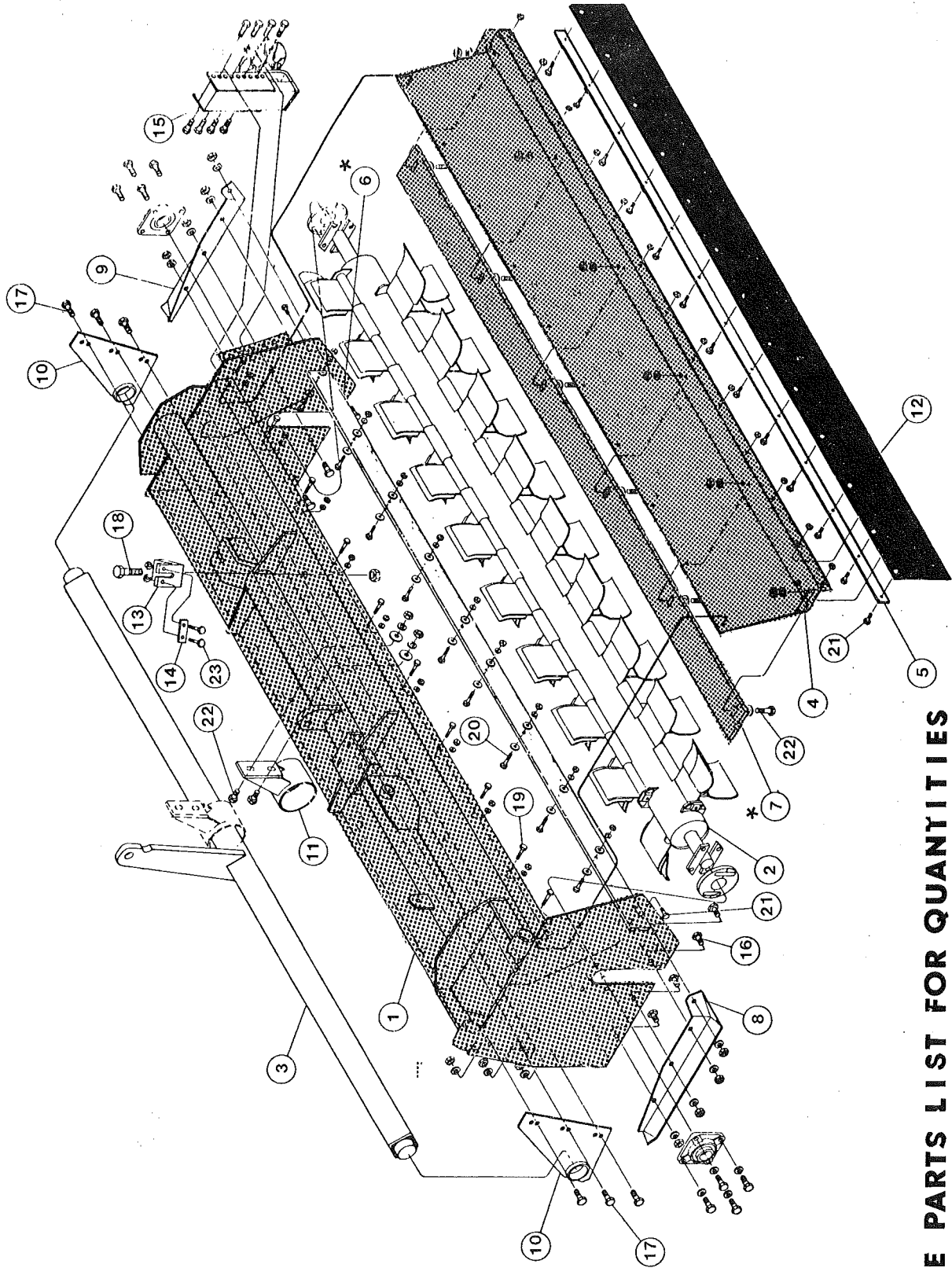
24 & 30 SFP CENTER BODY 1411001



24 & 30 SFP CENTER BODY
(1411001)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1410006	1	7' BODY CENTER SECTION WELDMENT
2	0911037	1	ROTOR ASSEMBLY
3	1410059	1	AXLE
4	1414448	1	FRONT COVER
5	1410042	1	CHAIN CURTAIN MOUNT WELDMENT
6	1413757	1	CHAIN CURTAIN ROD
7	1413463	1	UPPER SHEAR BAR
8	0933471	1	LOWER CUTTER BAR
9	1410060	2	AXLE SUPPORT
10	1410024	1	AXLE CENTER BRACE WELDMENT
11	1418978	77	RUBBER BUSHING
12	1416302	77	DEFLECTOR CHAIN
13	-----	8	3/8-16NC HHCS X 1 3/- LG GD5-PL W/HEX NUT, L.W. & 2 F.W.
14	-----	8	3/8-16NC HHCS X 1 LG GD5-PL W/HEX NUT & L.W.
15	-----	15	3/8-16NC HHCS x 1 LG GD5-PL W/WHIZ NUT
16	-----	6	1/2-13NC HHCS X 5½ LG GD8-PL W/HEX NUT & L.W.
17	-----	5	1/2-13NC HHCS X 1 3/8 LG GD8-PL W/HEX NUT, L.W. & F.W.
18	-----	2	1/2-13NC HHCS X 1 5/8 LG GD8-PL W/HEX NUT L.W. & 2 F.W.
19	-----	2	1/2-13NC HHCS X 1 LG GD5-PL W/L.W.
20	-----	7	3/4-10NC HHCS X 1 5/8 LG GD8-PL W/L.W. & HEX NUT
21	1413542	REF	AXLE WASHER
22	1413541	2	AXLE END PLATE
23	1413428	1	AXLE CENTER BRACE SHIM

24 & 30 SFP WING BODY
(RIGHT) 9' WING: 1411014 12' WING: 1411016
(LEFT) 9' WING: 1411015 12' WING: 1411017



***SEE PARTS LIST FOR QUANTITIES**

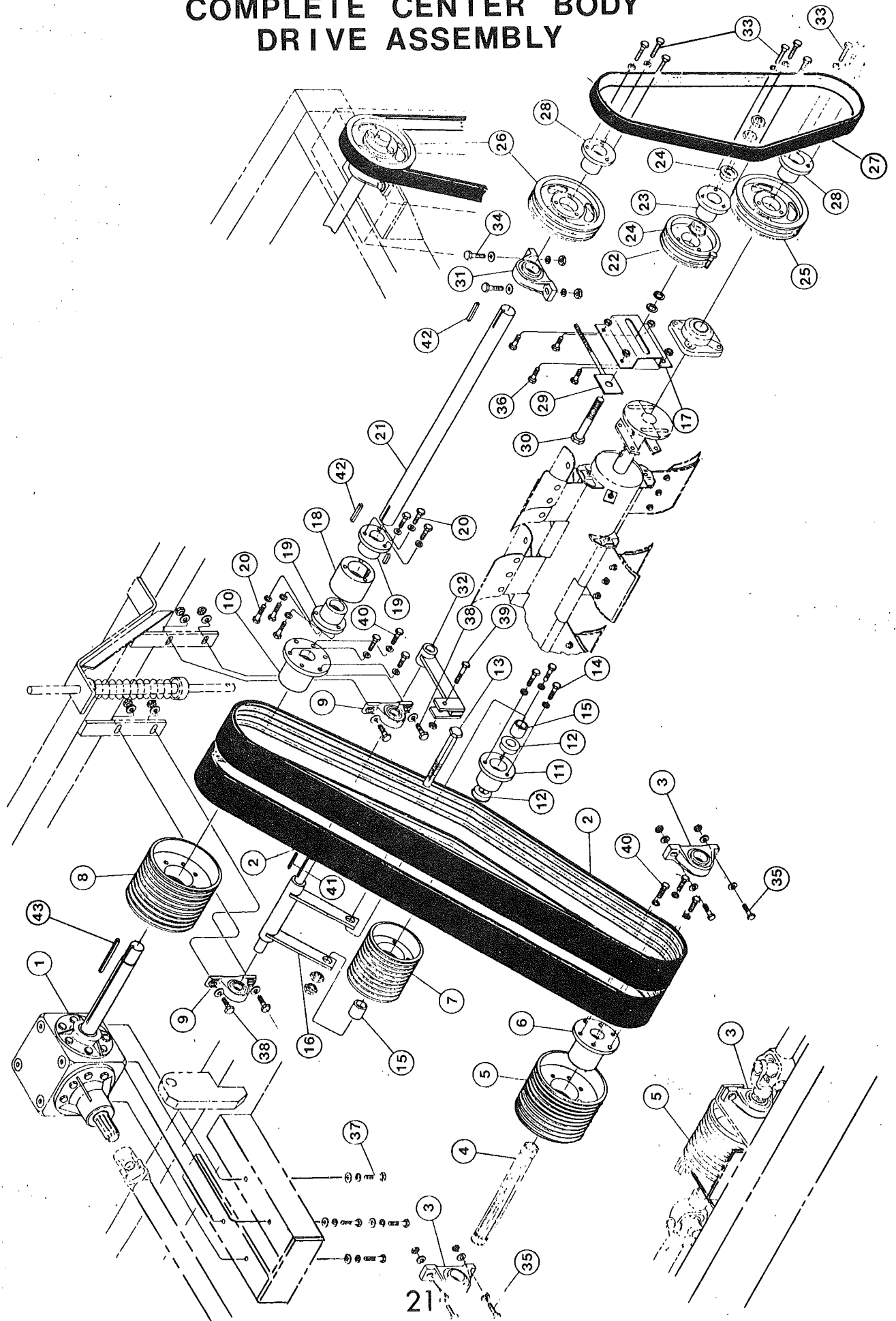
24 & 30 SFP W I N G B O D Y
(RIGHT) 9' WING: 1411014 12' WING: 1411016
(LEFT) 9' WING: 1411015 12' WING: 1411017

ITEM NO.	WING LENGTH		PART NO.	QTY.	DESCRIPTION
	9'	12'			
1	X		1410002	1	RIGHT WING SECTION WELDMENT
1	X		1410003	1	LEFT WING SECTION WELDMENT
1		X	1410000	1	RIGHT WING SECTION WELDMENT
1		X	1410001	1	LEFT WING SECTION WELDMENT
2	X		1411006	1	RIGHT ROTOR ASSEMBLY
2	X		1411007	1	LEFT ROTOR ASSEMBLY
2		X	1411008	1	RIGHT ROTOR ASSEMBLY
2		X	1411009	1	LEFT ROTOR ASSEMBLY
3	X		1410038	1	LEFT WING AXLE WELDMENT
3	X		1410037	1	RIGHT WING AXLE WELDMENT
3		X	1410035	1	LEFT WING AXLE WELDMENT
3		X	1410036	1	RIGHT WING AXLE WELDMENT
4	X		1410032	1	FRONT COVER WELDMENT
4		X	1410033	1	FRONT COVER WELDMENT
5	X		1413363	1	STONE GUARD MOUNTING BAR
5		X	1413361	1	STONE GUARD MOUNTING BAR
6	X		1413464	1	UPPER SHEAR BAR
6		X	1413465	2	UPPER SHEAR BAR
7	X		0933473	1	LOWER CUTTER BAR
7		X	0003470	2	LOWER CUTTER BAR
8	X	X	1410021	1	RIGHT SKID WELDMENT
9	X	X	1410022	1	LEFT SKID WELDMENT
10	X	X	1410018	2	AXLE MOUNT WELDMENT
11	X	X	1410024	1	AXLE CENTER BRACE WELDMENT
12	X		1415709	1	RUBBER STONE GUARD
12		X	1415710	1	RUBBER STONE GUARD

24 & 30 SFP W I N G B O D Y
(RIGHT) 9' WING: 1411014 12' WING: 1411016
(LEFT) 9' WING: 1411015 12' WING: 1411017

ITEM NO.	WING LENGTH		PART NO.	QTY.	DESCRIPTION
	9'	12'			
13	X	X	1414061	1	CHAIN MOUNT BODY TIE
14	X	X	1413434	1	TIE CHAIN LOCK BAR
15	X	X	1410013	1	H.D. GUAGE WHEEL ASSEMBLY
16	X	X	-----	8	1/2-13NC X 1½ HHCS GD5 PL W/HEX NUT & L.W.
17	X	X	-----	6	1/2-13NC x 1 HHCS GD8 PL W/HEX NUT & L.W.
18	X	X	-----	1	3/4-10NC X 1½ LG W/HEX NUT & L.W.
19	X		-----	10	3/8-16NC X 1 HHCS GD5 PL W/HEX NUT & L.W.
19		X	-----	13	3/8-16NC X 1 HHCS GD5 PL W/HEX NUT & L.W.
20	X		-----	10	3/8-16NC X 1 3/8 HHCS GD5 PL W/HEX NUT, L.W. & 2 F.W.
20		X	-----	13	3/8-16NC X 1 3/8 HHCS GD5 PL W/HEX NUT, L.W. & 2 F.W.
21	X		-----	15	3/8-16NC X 1 3/8 HHCS GD2 PL W/WHIZ NUT
21		X	-----	22	3/8-16NC X 1 3/8 HHCS GD2 PL W/WHIZ NUT
22	X	X	-----	6	1/2-13NC X 1 3/8 HHCS GD8 PL W/HEX NUT, F.W. & L.W.
22		X	-----	10	1/2-13NC X 1 3/8 HHCS GD8 PL W/HEX NUT, F.W. & L.W.
23	X	X	-----	2	3/8-16NC X 1½ HHCS GD2 PL W/WHIZ NUT

COMPLETE CENTER BODY DRIVE ASSEMBLY



C O M P L E T E
C E N T E R B O D Y D R I V E A S S E M B L Y

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1416601	1	GEARBOX
2	1416102	2	BELT 5/5V/1250 5-GROOVE
*2	1416101	2	BELT 4/5V/1250 4-GROOVE
3	0916001	2	1 3/4" BORE PILLOW BLOCK BEARING
4	1416606	1	LOWER DRIVE SHAFT
5	1416212	1	10/5V/10.3 DRIVEN SHEAVE
*5	1416203	1	8/5V/10.3 DRIVEN SHEAVE
6	1415702	1	MAIN DRIVE SPLINE BUSHING
7	1416213	1	10/5V/8.0 IDLER SHEAVE
*7	1416204	1	8/5V/8.0 IDLER SHEAVE
8	1416211	1	10/5V/10.9 DRIVE SHEAVE
*8	1416202	1	8/5V/10.9 DRIVE SHEAVE
9	0006006	2	1 1/4" BORE PILLOW BLOCK BEARING
10	1416205	1	MAIN DRIVE IDLER BUSHING
11	0016206	1	EBB IDLER BUSHING
12	1426201	REF	1 3/8" DIA REPLACEMENT BEARING
13	1418250	REF	1 3/8-16NC x 9" LG IDLER BOLT W/2 JAM NUTS
14	-----	REF	1/2-13NC x 3/4" HHCS W/LW
15	1415610	2	IDLER SPACER SLEEVE
16	1410045	1	IDLER PIVOT WELDMENT
17	1414205	1	IDLER MOUNT
18	1416608	1	BUSHED TYPE SLEEVE COUPLING
19	1416609	2	SPLIT TAPER BUSHING 1 15/16 BORE
20	-----	REF	3/8-16NC x 1 1/2" HHCS W/LW
21	1415082	1	OUTBOARD SHAFT

*8 GROOVE DRIVES WERE USED ON 24 & 30 FLEX SHREDDERS UP TO 1977

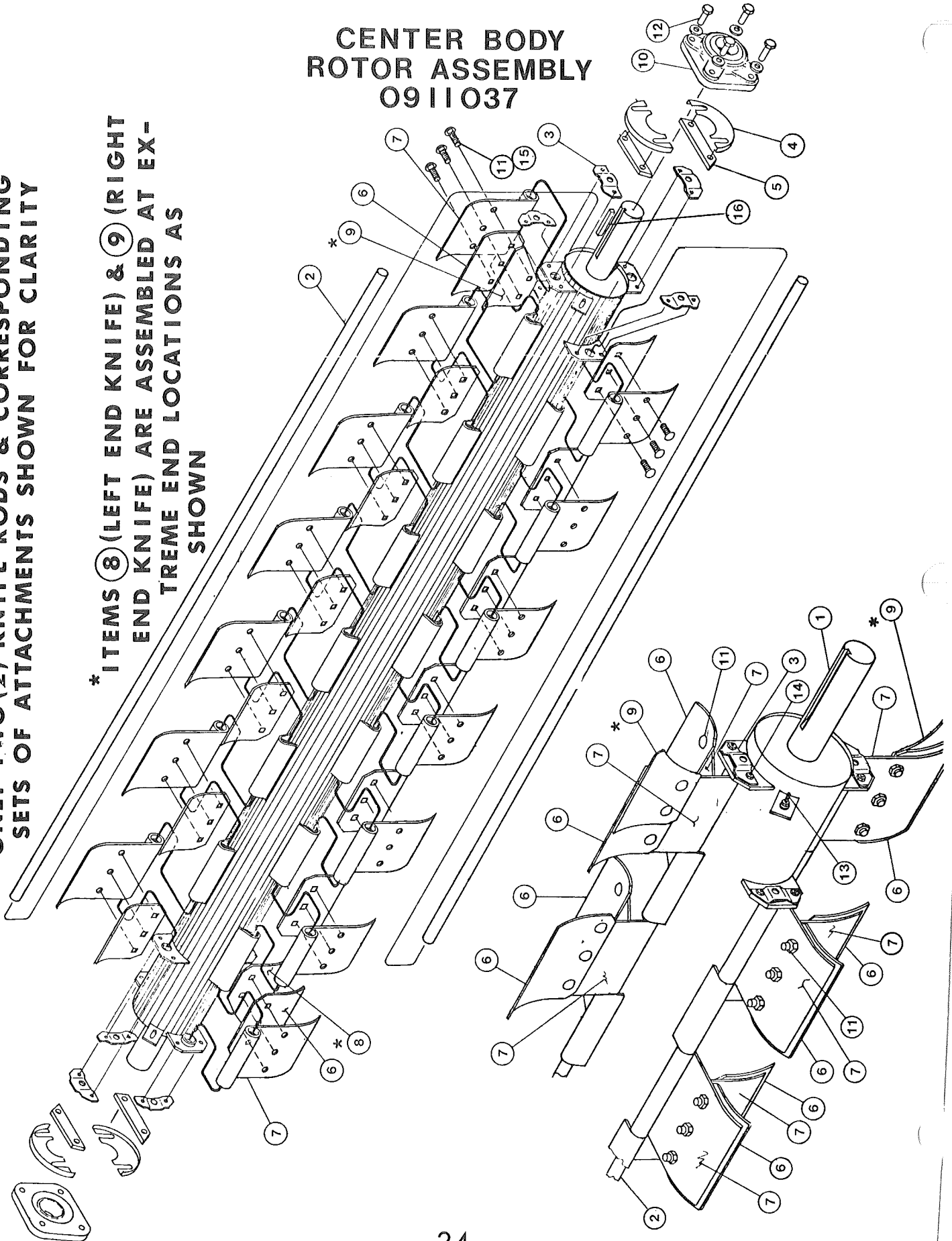
C O M P L E T E
C E N T E R B O D Y D R I V E A S S E M B L Y

ITEM NO.	PART NO.	QTY.	DESCRIPTION
22	1416208	1	5V/8.0 x 3-GROOVE-SF-SHEAVE
23	0016207	1	SF-BB IDLER BUSHING
24	1426200	REF	1" BORE REPLACEMENT BEARING
25	1416207	1	10.3 DIA SECONDARY DRIVEN PULLEY (LOWER) 5V 10.3 - 3 GR SF
26	1416206	1	10.9 DIA SECONDARY DRIVE PULLEY- UPPER 5V 10.9 - 3 GR SF
27	1416100	1	CENTER SECTION DRIVE BELT - 3/5V850
28	1416209	2	SF- 1 15/16" BUSHING
29	1410049	1	IDLER ADJUSTING WELDMENT
30	-----	REF	1-8NC x 4½" HH BOLT W/2 JAM NUTS & (2) FW
31	1416000	1	1 15/16" BORE PILLOW BLOCK BEARING
32	1410041	1	IDLER PUSH BAR WELDMENT
33	-----	9	3/8-16NC x 2" HHCS W/LW
34	-----	2	5/8-11NC x 3" HHCS GD-5 PL W/HEX NUT, FW & LW
35	-----	4	1/2-13NC x 2 1/4" HHCS GD-5 PL W/HEX NUT & (2) FW
36	-----	4	3/8-16NC x 1" HHCS GD-5 PL W/HEX NUT
37	-----	4	5/8-11NC x 1 3/4" HHCS GD-8 PL W/FW & LW
38	-----	4	1/2-13NC x 2 3/8" HHCS GD-5 PL W/HEX NUT, LW & FW
39	-----	1	1/2-13NC x 2 3/8" HHCS GD-2 PL W/HEX NUT
40	-----	6	1/2-13NC x 3" HHCS GD-5 PL W/ LW
41	-----	1	3/8" SQ x 4" LG KEYSTOCK
42	-----	2	1/2" SQ x 2 1/2" LG KEYSTOCK
43	-----	1	1/2" SQ x 3" LG KEYSTOCK

CENTER BODY ROTOR ASSEMBLY 0911037

ONLY TWO (2) KNIFE RODS & CORRESPONDING SETS OF ATTACHMENTS SHOWN FOR CLARITY

* ITEMS ⑧ (LEFT END KNIFE) & ⑨ (RIGHT END KNIFE) ARE ASSEMBLED AT EXTREME END LOCATIONS AS SHOWN



C E N T E R B O D Y R O T O R A S S E M B L Y
(0911037)

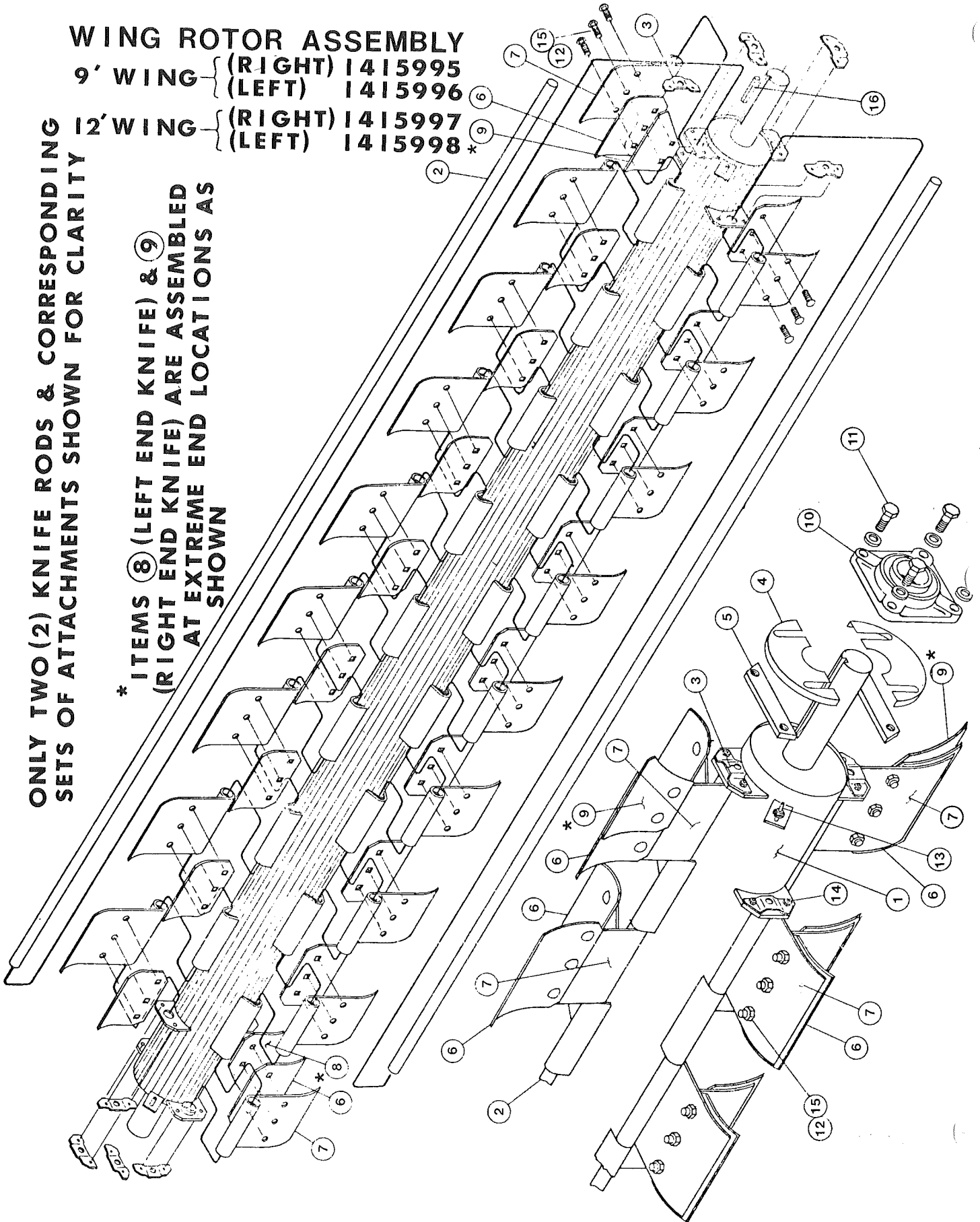
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	0010005	1	ROTOR WELDMENT - BALANCED
2	0918995	4	KNIFE ROD
3	0012000	8	END LOCATER BRACKET
4	0014652	4	ROTOR ANTI-WRAP DEVICE
5	0015175	4	STUD ANCHOR
*6	0015208	28	HEAVY DUTY KNIFE BLADE
7	0015205	28	WIDE KNIFE HANGER
*8	0015206	2	LEFT END KNIFE
*9	0015207	2	RIGHT END KNIFE
10	0016010	2	1 15/16 DIA 4-BOLT FLANGE BRG.
11	0018131	84	KNIFE CARRIAGE BOLT W/ 3/8 NUT
12	0018261	8	1/2 X 1½ HHCS W/NY PATCH-GRD. 5
13	0008125	4	3/8-16NC X 1½ CARRIAGE BOLT W/HEX NUT & F.W.
14	0008134	16	3/8-16NC X 3/4 TRUSS HEAD BOLT W/HEX NUT
15	0018149	84	3/8-16NC LOCK NUT
16		1	1/2 SQ x 2½ LG KEYSTOCK
* SEE PAGE 27			

WING ROTOR ASSEMBLY

- 9' WING { (RIGHT) 1415995
(LEFT) 1415996
- 12' WING { (RIGHT) 1415997
(LEFT) 1415998*

ONLY TWO (2) KNIFE RODS & CORRESPONDING SETS OF ATTACHMENTS SHOWN FOR CLARITY

*** ITEMS 8 (LEFT END KNIFE) & 9 (RIGHT END KNIFE) ARE ASSEMBLED AT EXTREME END LOCATIONS AS SHOWN**



24 & 30 SFP W I N G R O T O R
(RIGHT) 9' WING: 1415995 12' WING: 1415997
(LEFT) 9' WING: 1415996 12' WING: 1415998

ITEM NO.	24' SFP	30' SFP	PART NO.	QTY.	DESCRIPTION
1	X		1410047	1	ROTOR WELDMENT - BALANCED
1		X	1410048	1	ROTOR WELDMENT - BALANCED
2	X		0918994	4	KNIFE ROD (9' WING BODY)
2		X	0018975	4	KNIFE ROD (12' WING BODY)
3	X	X	0012000	8	END LOCATER BRACKET
4	X	X	0014652	4	ROTOR ANTI-WRAP DEVICE
5	X	X	0015175	4	STUD ANCHOR
*6	X		0015208	36	HEAVY DUTY KNIFE BLADE
*6		X	0015208	48	HEAVY DUTY KNIFE BLADE
7	X		0015205	36	WIDE KNIFE HANGER
7		X	0015205	48	WIDE KNIFE HANGER
*8	X	X	0015211	2	LEFT END KNIFE
*9	X	X	0015212	2	RIGHT END KNIFE
10	X	X	0016010	2	1 15/16 DIA 4-BOLT FLANGE BRG.
11	X	X	0018261	8	1/2 X 1½ HHCS W/NY PATCH-GRD. 5
12	X		0018131	108	KNIFE CARRIAGE BOLT
12		X	0018131	144	KNIFE CARRIAGE BOLT
13	X	X	0008125	4	3/8-16NC X 1½ CARRIAGE BOLT W/HEX NUT
14	X	X	0008134	16	3/8-16NC X 3/4 TRUSS HEAD BOLT W/HEX NUT
15	X		0018149	108	3/8-16NC LOCK NUT
15		X	0018149	144	3/8-16NC LOCK NUT
16	X	X		1	1/2 SQ X 2½ LG KEYSTOCK

* 24' SFP KNIFE KIT (1419001

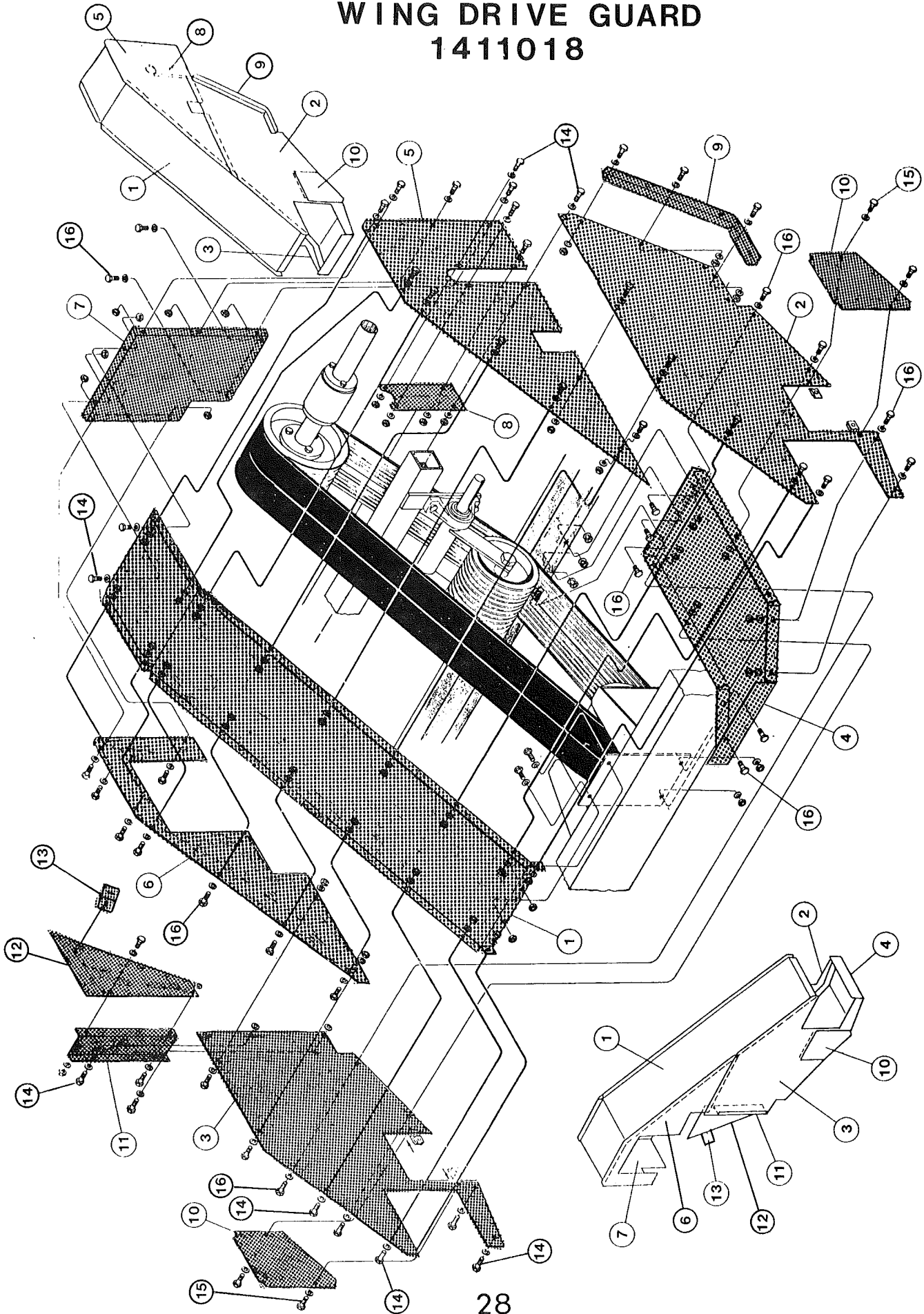
PART NO.	QTY.
0015208	100
0015211	4
0015212	4
0015206	2
0015207	2

30' SFP KNIFE KIT (1419000)

PART NO.	QTY.
0015208	124
0015211	4
0015212	4
0015206	2
0015207	2

INCLUDES BOTH WINGS AND CENTER BODY

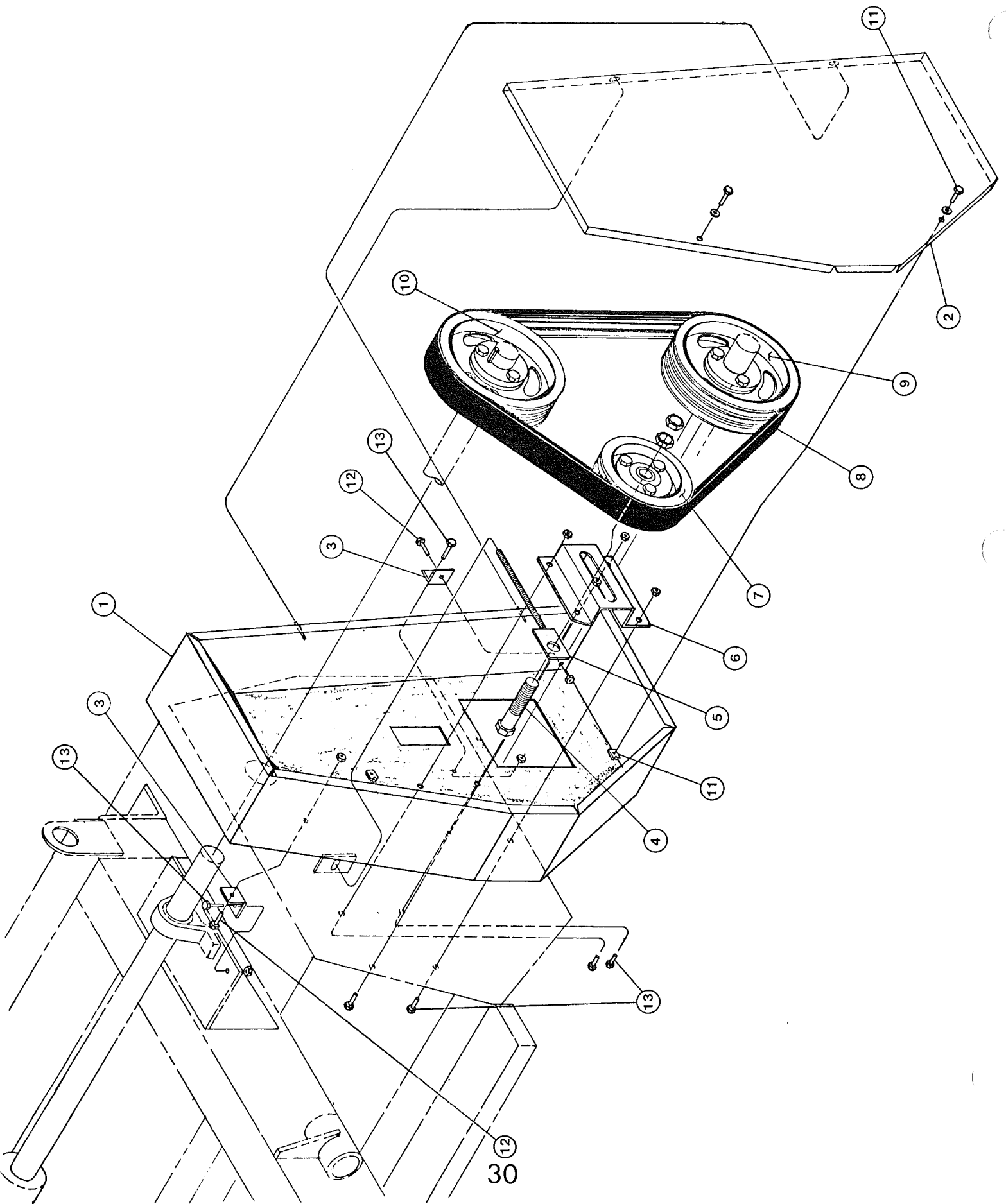
WING DRIVE GUARD 1411018



W I N G D R I V E G U A R D
(1411018)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1414779	1	BELT GUARD TOP-MAIN
2	1414785	1	LEFT BELT GUARD LOWER SIDE PANEL
3	1414784	1	RIGHT BELT GUARD LOWER SIDE PANEL
4	1414210	1	BELT GUARD BOTTOM PANEL
5	1414783	1	LEFT BELT GUARD UPPER SIDE PANEL
6	1414782	1	RIGHT BELT GUARD UPPER SIDE PANEL
7	1414780	1	BELT GUARD REAR PANEL
8	1414781	1	BELT GUARD SLOT PLATE
9	1414787	1	RIGHT BELT GUARD ANGLE
10	1414778	2	BELT GUARD SIDE DOOR
11	1414786	1	BELT GUARD RIGHT CENTER
12	1414789	1	BELT GUARD PLATE
13	1414436	1	GUARD MOUNT BRACKET
14	-----	42	5/16-18NC HHCS X 3/4 LG GD-2PL
15	-----	4	5/16-18NC HHCS X 3/4 CD-2PL W/CAGED NUT
16	-----	15	5/16-18NC HHCS X 1 LG GD-2PL W/HEX NUT & 2 L.W.

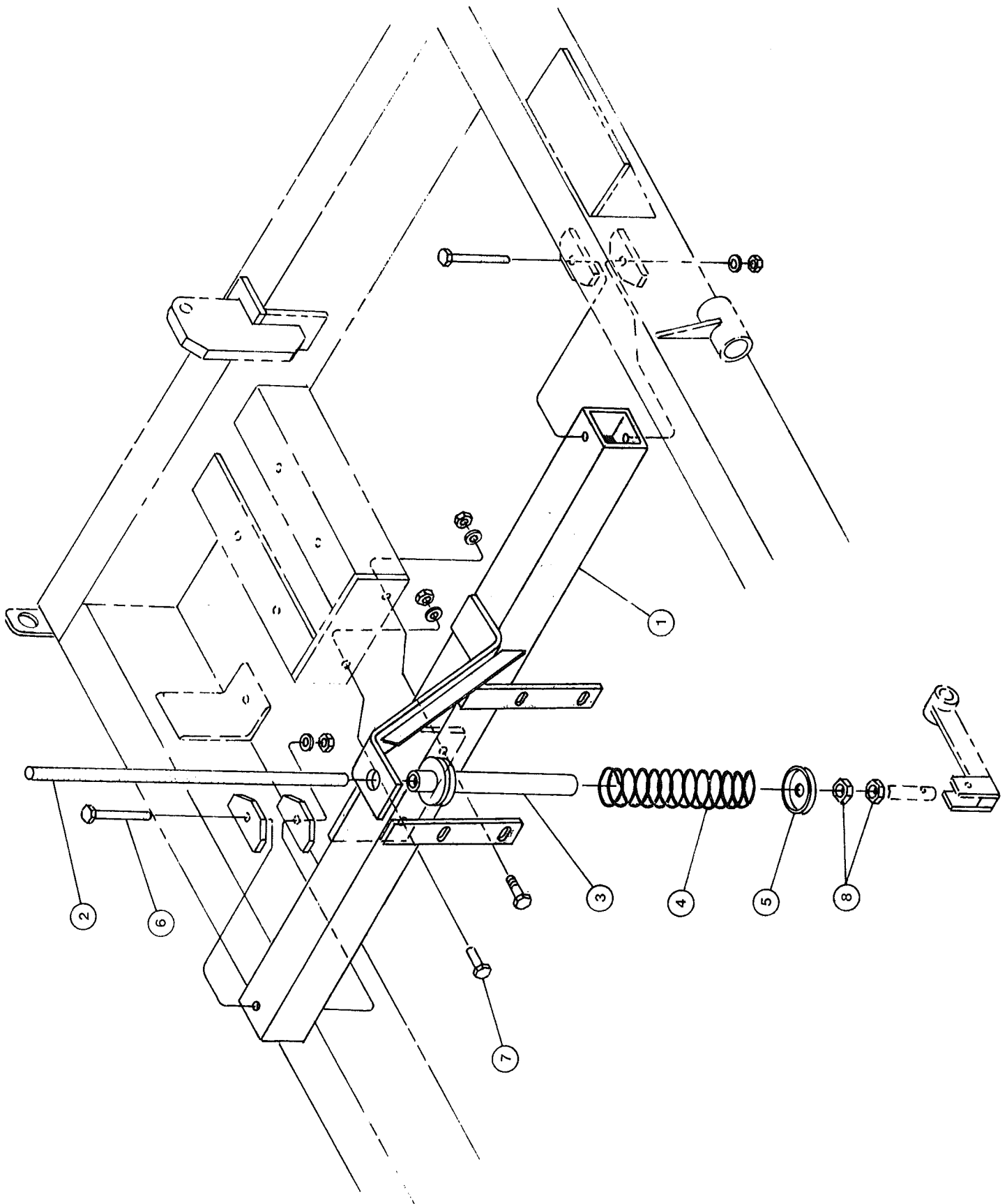
CENTER BODY OUTBOARD DRIVE GUARD



C E N T E R B O D Y O U T B O A R D D R I V E G U A R D

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1410058	1	GUARD WELDMENT
2	1414654	1	COVER PLATE
3	1414436	2	GUARD MOUNT BRACKET
4	-----	REF	1-8 NC X 4½ HH BOLT W/2 JAM NUTS & 2 F.W.
5	1410049	REF	IDLER ADJUSTING WELDMENT
6	1414205	REF	IDLER MOUNT
7	1416208*	REF	5V 8.0 X 3 GROOVE SF SHEAVE
8	1416100	REF	CENTER SECTION DRIVE BELT -3/5V850
9	1416207*	REF	10.3 DIA SECONDARY DRIVEN PULLEY
10	1416206*	REF	10.9 DIA SECONDARY DRIVE PULLEY
11	-----	2	5/16-18NC X 3/4 HHCS GR2-PL W/CAGED NUT & F.W.
12	-----	2	3/8-16NC X 3/4 HHCS GR2-PL W/WHIZ NUT
13	-----	REF	3/8-16NC X 1 HHCS GR2-PL W/WHIZ NUT
13	-----	2	3/8-16NC X 1 HHCS GR2-PL W/WHIZ NUT
	*	-	SEE REF. 22, 25 & 26 ON PAGE 21 & 23.

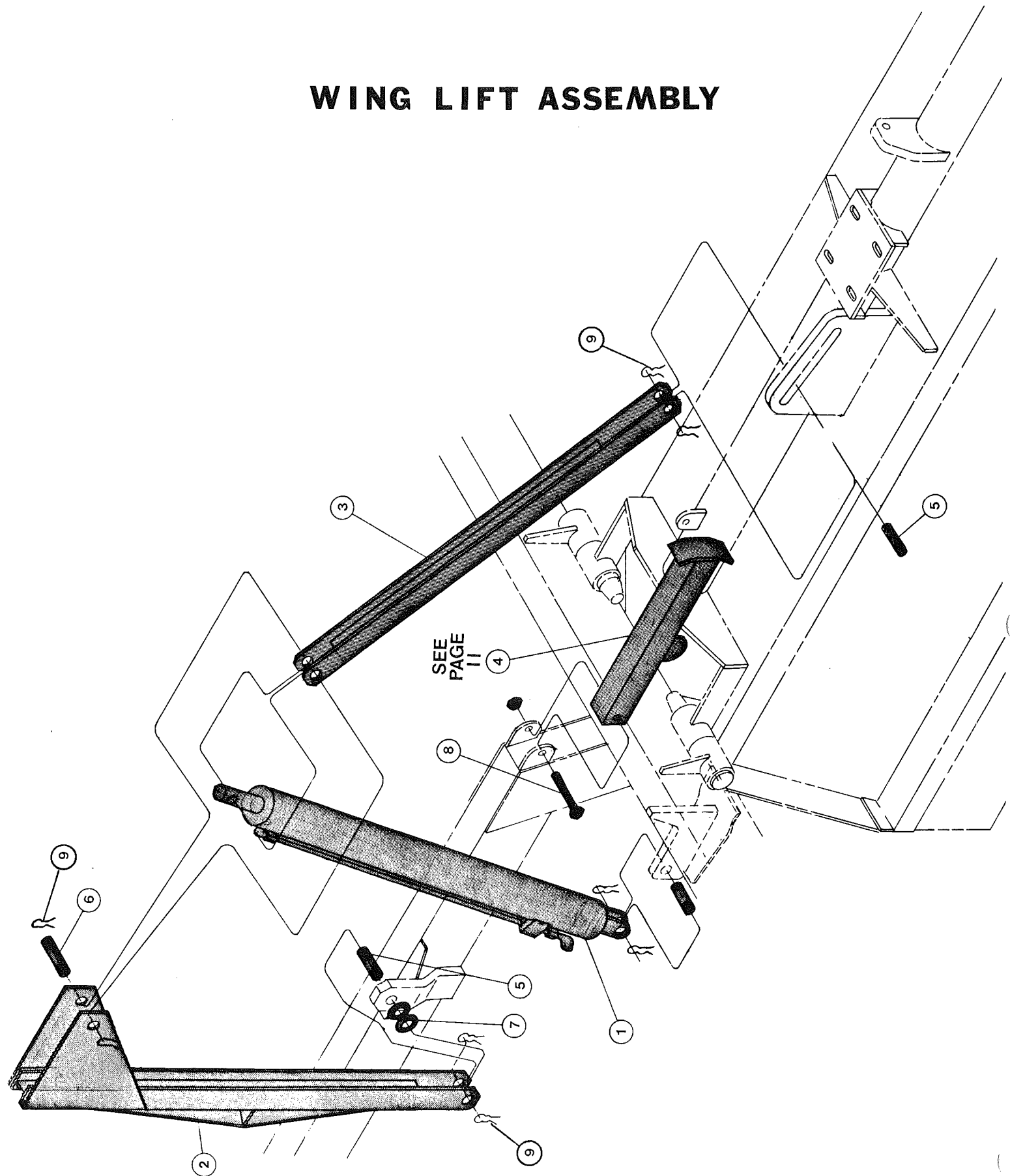
MAIN IDLER CENTER SECTION



M A I N I D L E R C E N T E R S E C T I O N

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1410011	1	GEARBOX MT CROSS SUPPORT WELDMENT
2	1415704	1	IDLER ADJUSTING ROD
3	1110144	1	SPACER WELDMENT
4	1418979	1	IDLER SPRING
5	1110127	1	SPRING RETAINER WELDMENT
6	-----	2	3/4-10NC HHCS X 5 1/4 LG W/HEX NUT & L.W.
7	-----	2	3/4-10NC HHCS X 2 LG W/HEX NUT & L.W.
8	-----	2	3/4-10NC HEX JAM NUT

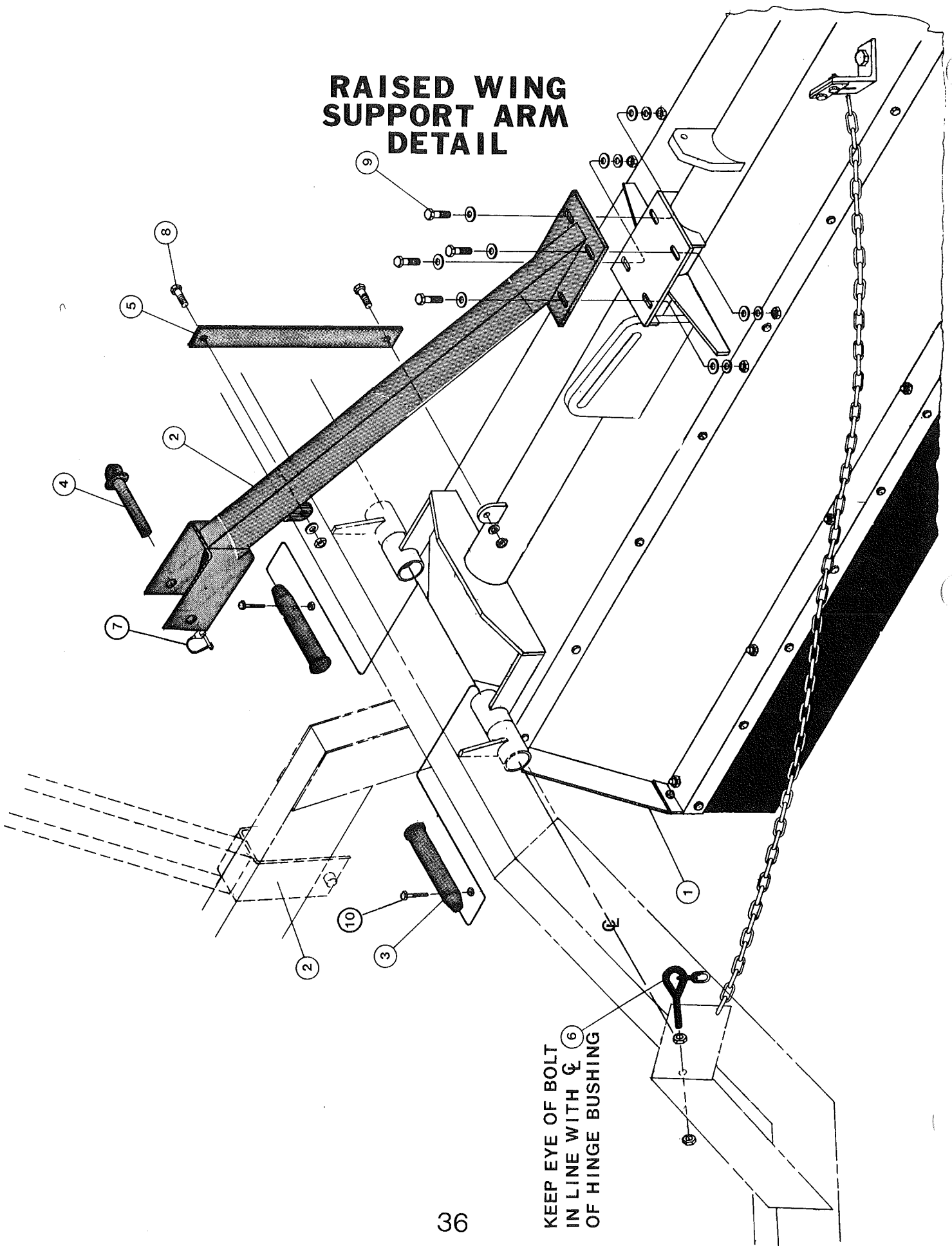
WING LIFT ASSEMBLY



W I N G L I F T A S S E M B L Y

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1417001	2	WING LIFT CYLINDER
2	1410016	2	PRIMARY LIFT ARM WELDMENT
3	1410019	2	SECONDARY LIFT ARM WELDMENT
4	1410052	2	WING STOP WELDMENT
5	1415020	4	SECONDARY LIFT ARM PIN
6	1415021	2	PRIMARY LIFT ARM PIN
7	1415620	4	WASHER
8	-----	2	5/8-11NC HHCS x 4 LG W/HEX NUT
9	1428997	12	HAIR PIN

RAISED WING SUPPORT ARM DETAIL



KEEP EYE OF BOLT
IN LINE WITH ϕ **6**
OF HINGE BUSHING

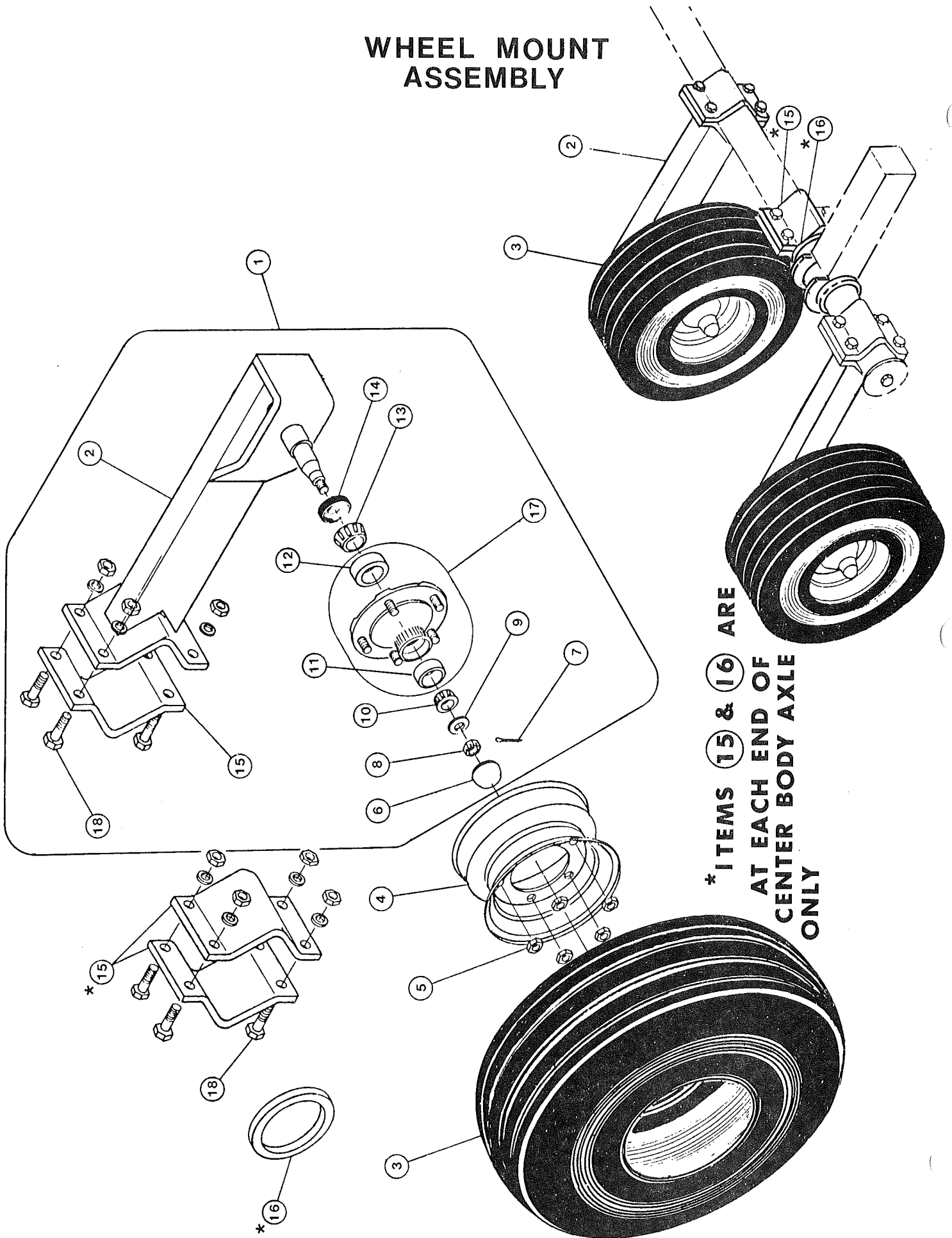
R A I S E D W I N G S U P P O R T A R M D E T A I L

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1411014	REF	RIGHT 9' WING ASSEMBLY
1	1411016	REF	RIGHT 12' WING ASSEMBLY
2	1410066	2	RAISED WING SUPPORT ARM WELDMENT
3	1410044	4	BODY HINGE PIN WELDMENT
4	1410070	2	SUPPORT ARM LOCK PIN WELDMENT
5	1413469	2	RAISED WING SUPPORT ARM BRACE
6	1410068	2	CHAIN WELDMENT W/2 5/8-11NC JAM NUTS
7	1418973	2	3/16 X 2 SNAPPER PIN
8	-----	4	1/2-13NC X 1 1/4 HHCS GR8 PL W/HEX NUT & F.W.
9	-----	8	1/2-13NC X 1 3/4 HHCS GR8 PL W/HEX NUT, 2 F.W. & LW
10	-----	4	5/16-18NC X 2 1/2 HHCS GR2 PL W/HEX NUT

H E A V Y D U T Y G A U G E W H E E L A S S E M B L Y

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	0018992	1	5-BOLT WHEEL HUB ASSEMBLY
2	1410063	1	GAUGE WHEEL MOUNT WELDMENT
3	0008991	1	TRIPLE LIP SEAL
4	0008999	1	5.90 X 15 4-PLY TUBELESS TIRE
5	0018989	5	1/2-20NF LUG NUT -90°
6	0018993	1	5-BOLT 15" RIM
7	0018252	1	1/8 X 1 COTTER KEY
8	0018996	1	DUST CAP
9	0018253	1	SPINDLE NUT
10	0018254	1	SPINDLE WASHER
11	0016000	1	A WHEEL OUTER BEARING
12	0026000	REF	OUTER BEARING CUP
13	0026001	REF	INNER BEARING CUP
14	0016001	1	A WHEEL INNER BEARING
15	-----	8	1/2-13NC X 1½ LG GD5 PL W/LW & HEX NUT

WHEEL MOUNT ASSEMBLY

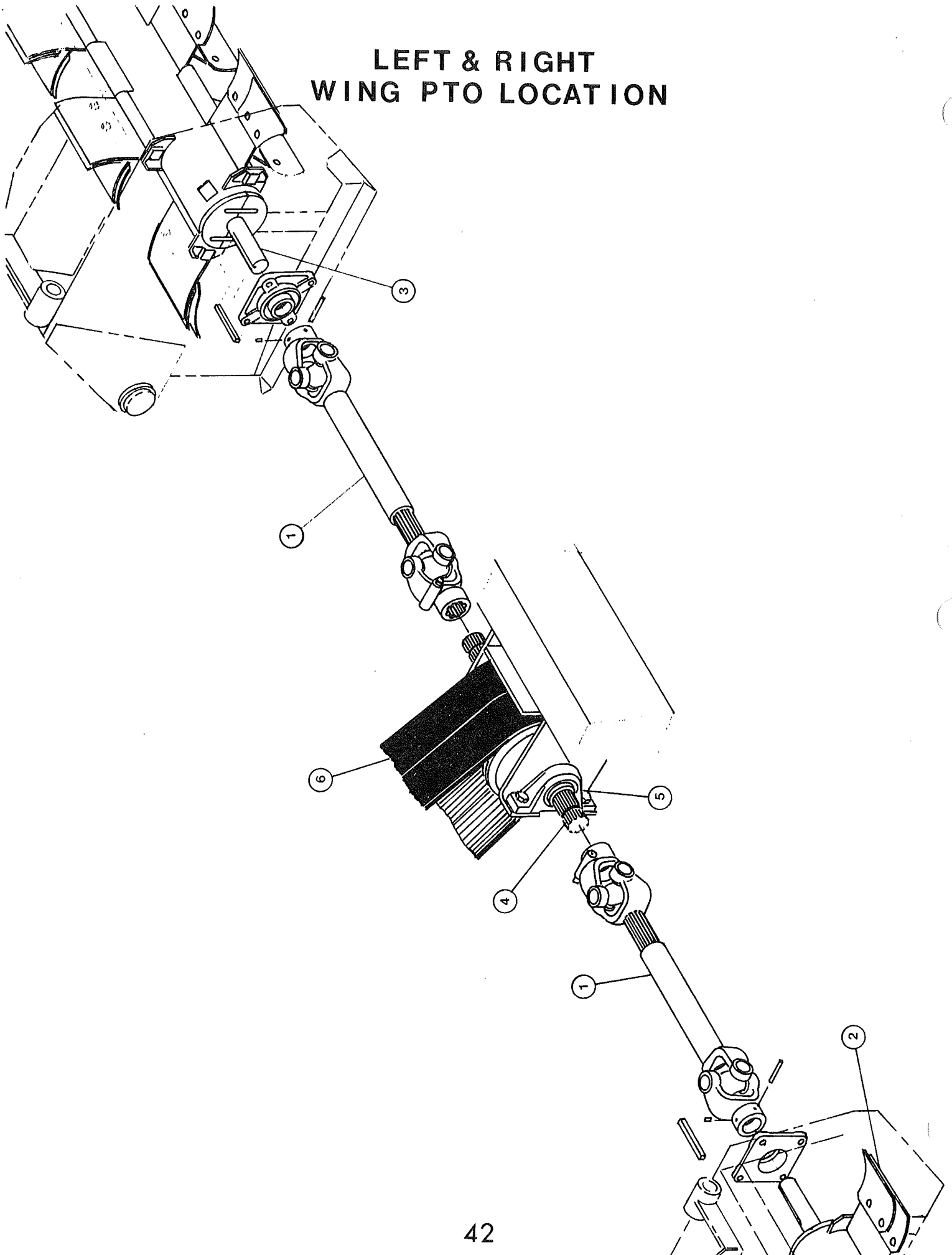


*** ITEMS 15 & 16 ARE
AT EACH END OF
CENTER BODY AXLE
ONLY**

WHEEL MOUNT ASSEMBLY

ITEM NO.	QUANTITY		PART NO.	DESCRIPTION
	24' SEP	30' SEP		
1	8	10	0018991	WHEEL MOUNT ASSEMBLY
2	8	10	1413530	WHEEL MOUNT WELDMENT
3	8	10	1418993	9.00 X 10 TIRE-TUBE
4	8	10	0918984	9-BOLT 10" WHEEL
5	40	50	0908988	1.2-20NF LUG NUT-60°
6	8	10	0018996	MUST CAP
7	8	10	0018252	COTTER PIN
8	8	10	0018253	SPINDLE NUT
9	8	10	0018254	SPINDLE WASHER
10	8	10	0016000	WHEEL OUTER BEARING
11	REF	REF	0026000	HUB OUTER BEARING CUP
12	REF	REF	0026001	HUB INNER BEARING CUP
13	8	10	0016001	WHEEL INNER BEARING
14	8	10	0008992	TRIPLE LIP SEAL
15	12	14	1113590	WHEEL MOUNT CLAMP
16	2	2	1413542	AXLE WASHER
17	8	10	0018992	WHEEL HUB ASSEMBLY
18	40	48	-----	5/8-11NC X 2½ HHCS CD-5PL W/HEX NUT & L.W.

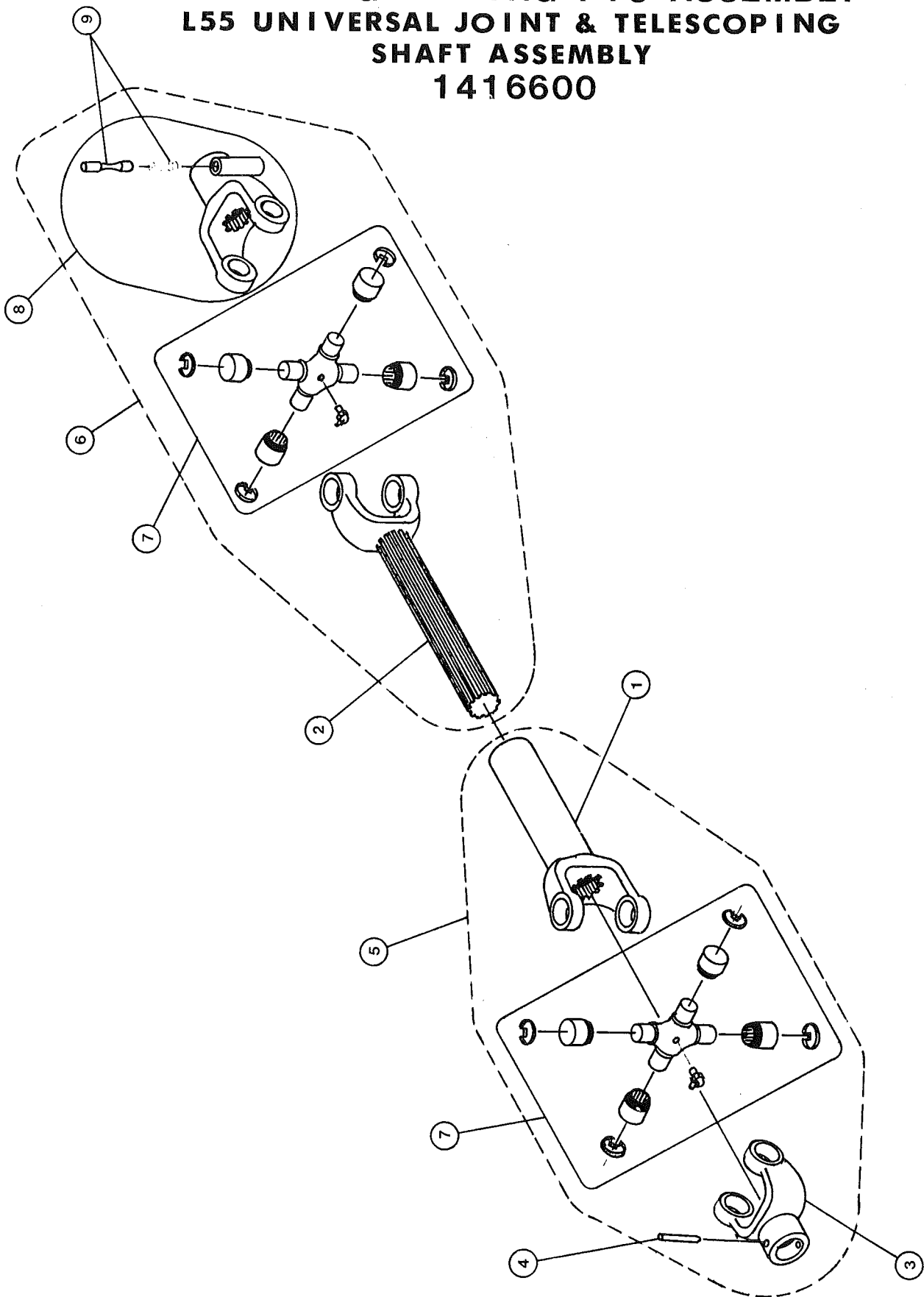
LEFT & RIGHT WING PTO LOCATION



L E F T & R I G H T W I N G P T O L O C A T I O N

ITFM NO.	PART NO.	QTY.	DESCRIPTION
1	1416600	REF	LEFT & RIGHT WING PTO
2	1415997	REF	RIGHT 12' WING ROTOR
2	1415995	REF	RIGHT 9' WING ROTOR
3	1415998	REF	LEFT 12' WING ROTOR
3	1415996	REF	LEFT 9' WING ROTOR
4	1416606	REF	LOWER DRIVE SHAFT
5	0916001	REF	1 3/4 BORE PILLOW BLOCK BEARING
6	1416102	REF	5/5V/1250 5-GROOVE BELT

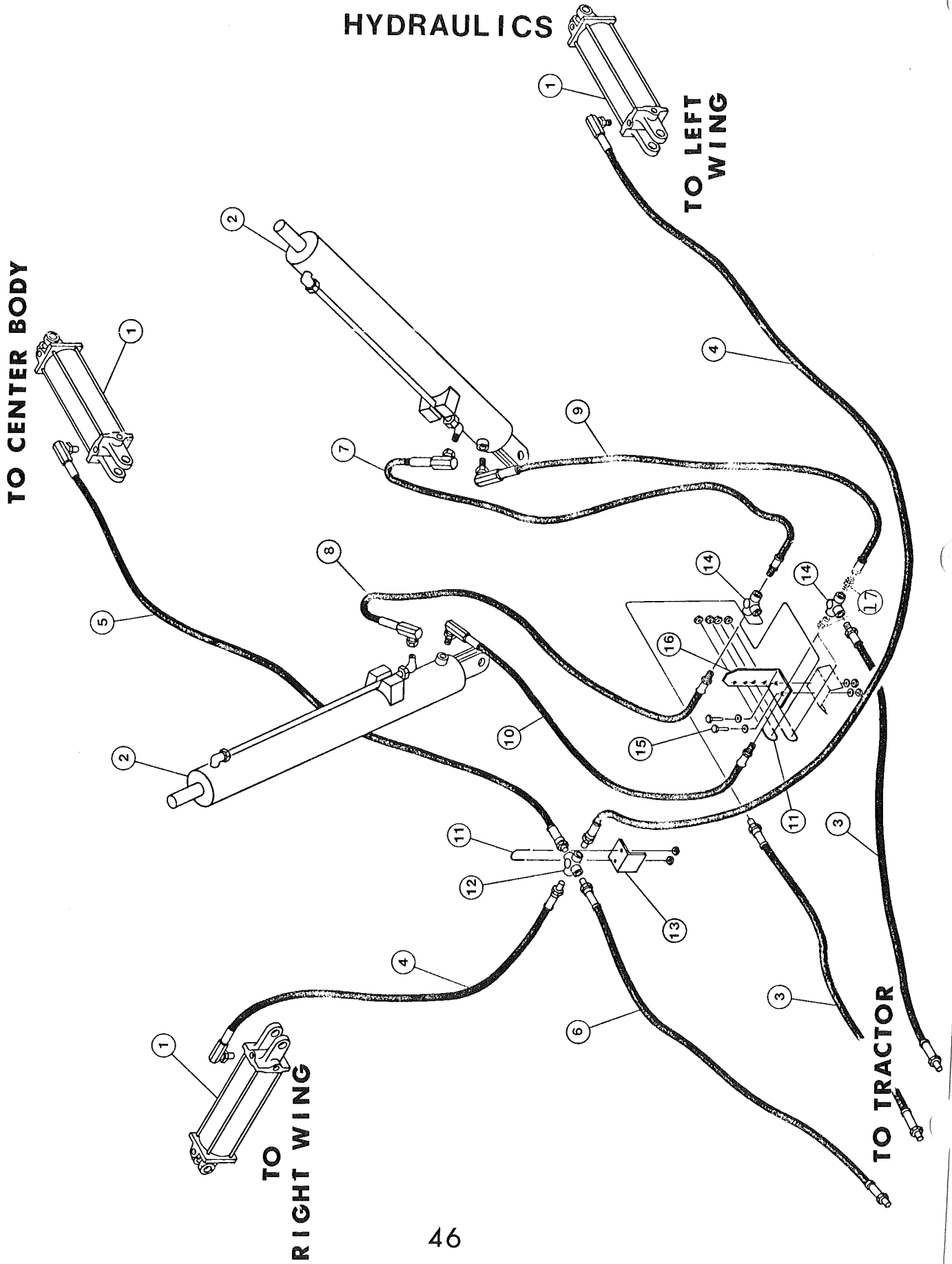
**LEFT & RIGHT WING PTO ASSEMBLY
L55 UNIVERSAL JOINT & TELESCOPING
SHAFT ASSEMBLY
1416600**



LEFT & RIGHT WING PTO ASSEMBLY
(1416600)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1426605	1	YOKE-TUBE WELDMENT W/LUBE
2	1426603	1	YOKE-SHAFT WELDMENT
3	1426601	1	1 15/16 YOKE
4	0018281	1	3/8 X 3 ROLLPIN BLK
5	1426604	1	L55 JOINT-TUBE ASSEMBLY
6	1426600	1	L55 JOINT-SHAFT ASSEMBLY
7	0026633	2	L55 CENT PARTS REPAIR KIT
8	1426606	1	QD LOCK YOKE ASSEMBLY (1 11/16-20)
9	1426607	1	SAF-T-PIN & SPRING

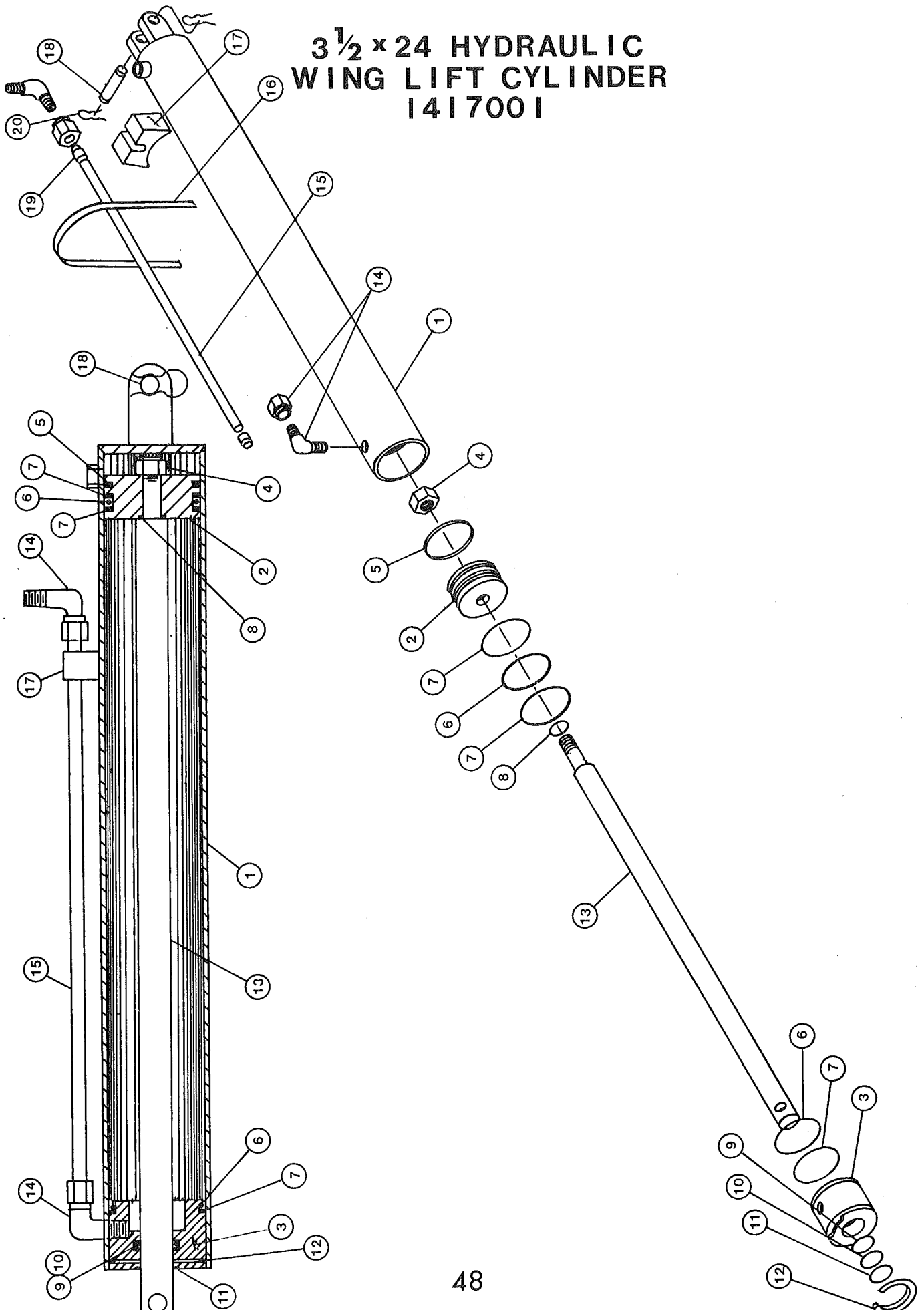
HYDRAULICS



H Y D R A U L I C S

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1417000	2	AXLE LIFT CYLINDER (3" BORE X 8" STROKE)
2	1417001	3	WING LIFT CYLINDER (3½" BORE X 24" STROKE)
3	1418412	2	TRACTOR CONNECT HEIGHT ADJ HOSE (FIXED MALE-½" NPT X FIXED MALE NPT 66" LG)
4	1418400 (12' WING)	1	HOSE-LEFT WING HEIGHT ADJUST (FIXED MALE-½-NPT X SWIVEL MALE 90° X 151" LG)
4	1418402 (9' WING)	2	HOSE-HEIGHT ADJUST (FIXED MALE-½" NPT X SWIVEL MALE 90° X 138" LG)
5	1418401 (12' WING)	1	HOSE-RIGHT WING HEIGHT ADJUST (FIXED MALE ½-NPT X SWIVEL MALE 90° X 116" LG)
5	1418403 (9' WING)	1	HOSE-RIGHT WING HEIGHT ADJUST (FIXED MALE ½- NPT X SWIVEL MALE 90° X 103 LG)
6	1418411	1	HOSE-TRACTOR CONNECT HEIGHT ADJUST (FIXED MALE ½-NPT X FIXED MALE-½ NPT X 96" LG)
7	1418408	1	HOSE-LEFT WING LIFT-FEMALE (FEMALE SWIVEL X FIXED MALE ½-NPT X 88" LG)
8	1418410	1	HOSE-RIGHT WING LIFT-FEMALE (FEMALE SWIVEL X FIXED MALE-½-NPT X 98" LG)
9	1418407	1	HOSE-LEFT WING LIFT-MALE (MALE SWIVEL X FIXED MALE ½-NPT X 88 LG)
10	1418409	1	HOSE-RIGHT WING LIFT-MALE (MALE SWIVEL X FIXED MALE ½-NPT X 98" LG)
11	1418300	3	HYDRAULIC HOSE U-BOLT
12	1418000	1	HYDRAULIC LINE CROSS
13	1413366	1	HOSE CLAMP U-BOLT ANGLE
14	1418001	2	HYDRAULIC LINE /TEE
15	-----	2	3/8-16NC X 1 HHCS GD-2PL W/WHIZ NUT & 2 F.W.
16	1414206	1	FRONT HOSE SUPPORT
17	1417002	2	RESTRICTOR VALVE .0625 ORIFICE

3 1/2 x 24 HYDRAULIC WING LIFT CYLINDER 1417001



3 1/2 x 24 HYDRAULIC WING LIFT CYLINDER
(1417001)

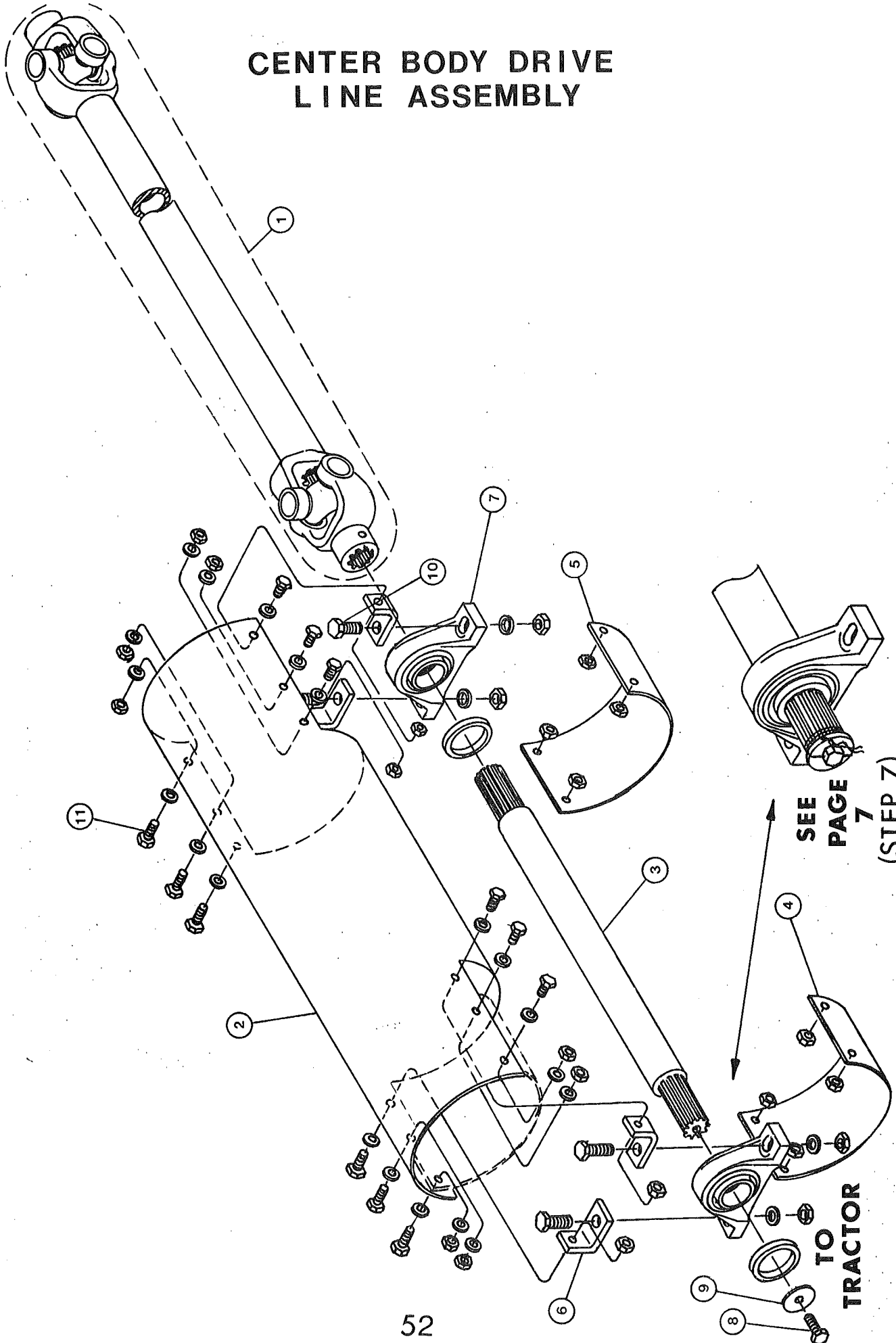
ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1427017	1	BUTT & TUBE ASSEMBLY
2	1427018	1	PISTON
3	1427019	1	GLAND
4	1427020	1	LOCK NUT
5	1427022	1	PISTON RING
6	1427023	2	O-RING
7	1427026	3	BU-WASHER
8	1427024	1	O-RING
9	1427025	1	O-RING
10	1427027	1	BU-WASHER
11	1427028	1	WIPER
12	1427021	1	SNAP RING
13	1427016	1	PISTON ROD
14	1418002	2	90° ELBOW W/NUT
15	1415590	1	FLUID LINE
16	1418974	1	HOSE CLAMP
17	1418999	1	FLUID LINE BLOCK
18	1415020	1	SECONDARY LIFT ARM PIN
19		2	SLEEVE
20	1428997	2	HAIR PIN
	1427029		PACKING KIT (SNAP RINGS, BU-WASHERS O-RINGS & WIPERS)

3 x 8 HYDRAULIC AXLE LIFT CYLINDER
(1417000)

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1427003	1	END CAP
2	1415020	2	CLEVIS PIN
3	1427001	1	PIPE PLUG
4	1427006	1	LOCK NUT
5	1427005	1	PISTON
6	1427000	1	PISTON ROD
7	1427008	4	TIE ROD
8	1427002	1	TUBE
9	1427004	1	GLAND
10	1427007	1	CLEVIS
11	1427009	1	O-RING
12	1428997	4	HAIR PIN
*13	1427012	1	O-RING
*14	1427013	1	O-RING
*15	1427015	1	WIPER
*16	1427014	1	BU-WASHER
*17	1427010	2	O-RING
* 1427030 PACKING KIT			(ITEM NUMBERS 13-17 ARE IN THE KIT)

CENTER BODY DRIVE LINE ASSEMBLY

TO GEARBOX



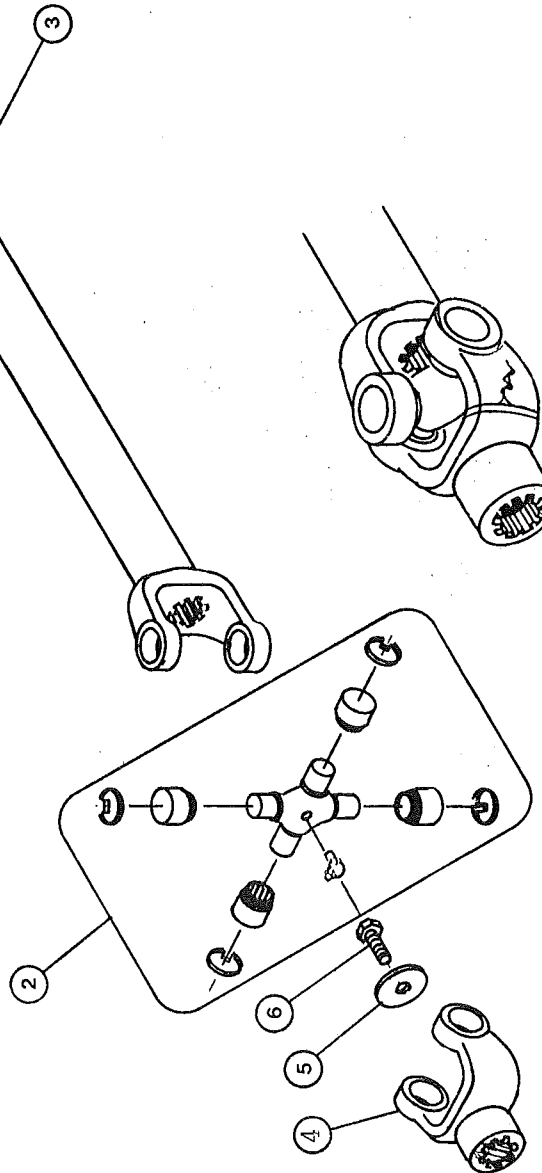
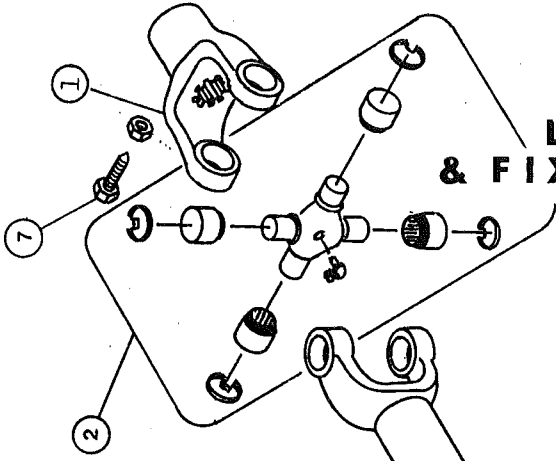
SEE
PAGE
7
(STEP 7)

TO
TRACTOR

C E N T E R B O D Y D R I V E L I N E A S S E M B L Y

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	1416602	1	FIXED LENGTH DRIVE LINE
2	1414767	1	PTO COVER
3	1416607	1	SPLINED DRIVE SHAFT
4	1414434	1	LOWER FRONT PTO COVER
5	1414435	1	LOWER REAR PTO COVER
6	1413360	4	PTO GUARD MOUNT BRACKET
7	0916001	2	1 3/4 DIA PILLOW BLOCK BEARING W/LOCK COLLAR
8	0928162	1	1/2-20NF HHCS X 1 1/4 LG W/DRILLED HEAD
9	1426649	1	2" O.D. X 33/64 I.D. WASHER X 1/4 THICK
10	-----	4	1/2-13NC HHCS X 2 1/2 LG GR8 W/HEX NUT & L.W.
11	-----	12	5/16-NC HHCS X 3/4 LG GR2 W/HEX NUT & 2 F.W.

**FIXED LENGTH
UNIVERSAL JOINT
L55 UNIVERSAL JOINT
& FIXED LENGTH DRIVE ASSEMBLY
1416602**

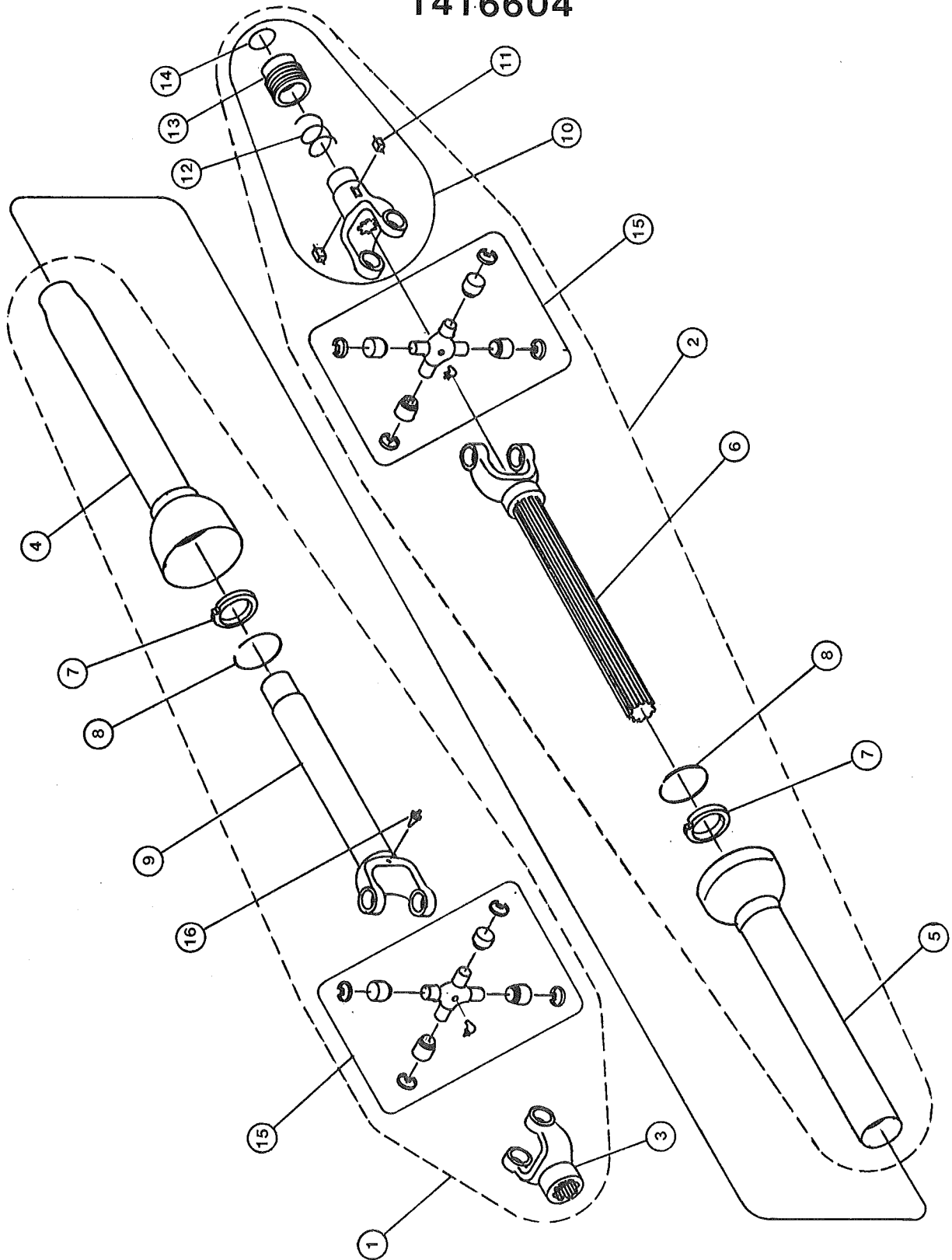


**SEE PAGE 7
(STEP 7)**

FIXED LENGTH UNIVERSAL JOINT
(1416602)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1426608	1	YOKE- (2"-10B SPLINE)
2	0026633	2	REPAIR KIT
3	1426609	1	YOKE-TUBE ASSEMBLY
4	1426610	1	YOKE (1 11/16-20 SPLINE)
5	0928255	1	WASHER
6	-----	1	1/2-13NC x 2¼ HHCS GR-5 PL
7	-----	1	3/8-16NC x 1¼ CONE POINT HHCS GR 5 PL W/JAM NUT

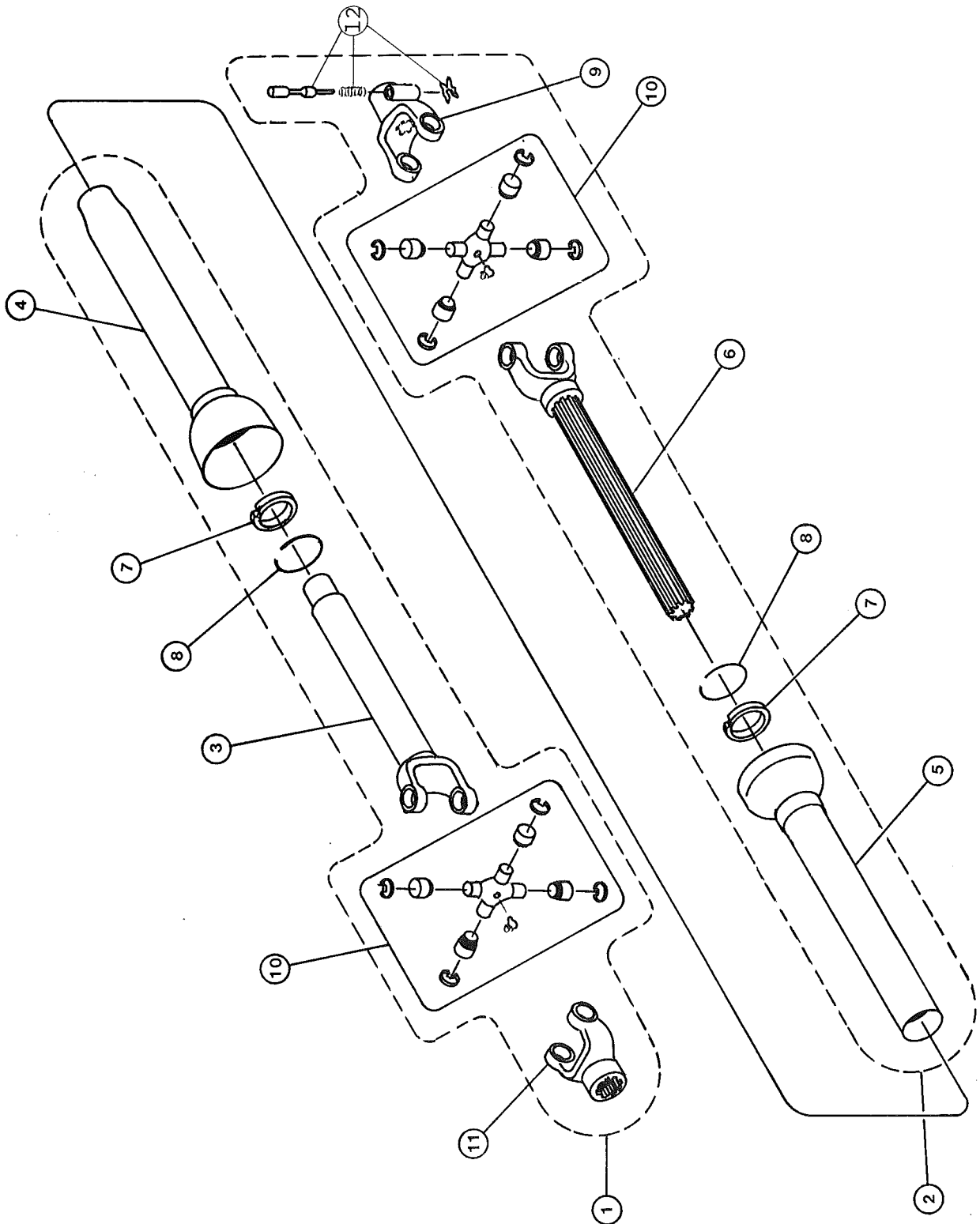
POWER SHAFT
1000 RPM TRACTORS w/1³/₈-21 PTO SHAFT
L55 UNIVERSAL JOINT & TELESCOPING
SHAFT ASSEMBLY w/QDFWG
1416604



P O W E R S H A F T
 1000 RPM TRACTORS W/1 3/8-21 PTO SHAFT
 (1416604)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1426616	REF	JOINT-TUBE W/QDFWG
2	1426618	REF	JOINT-SHAFT W/QDFWG
3	1426610	1	1 11/16-20 SPLINE YOKE
4	0926702	1	MALE GUARD TUBE
5	0926704	1	FEMALE GUARD TUBE
6	1426619	1	YOKE AND SHAFT
7	0926693	2	NYLON BEARING
8	0926692	2	BEARING RETAINER
9	1426617	1	YOKE AND TUBE
10	0026674	1	SAFETY SLIDE LOCK YOKE ASSEMBLY- 1 3/8-21 SPLINE
11	0026632	2	PAWL
12	0026630	1	SPRING
13	0026631	1	COLLAR
14	0026655	1	RETAINING RING
15	0026633	2	REPAIR KIT
16		1	LUBE

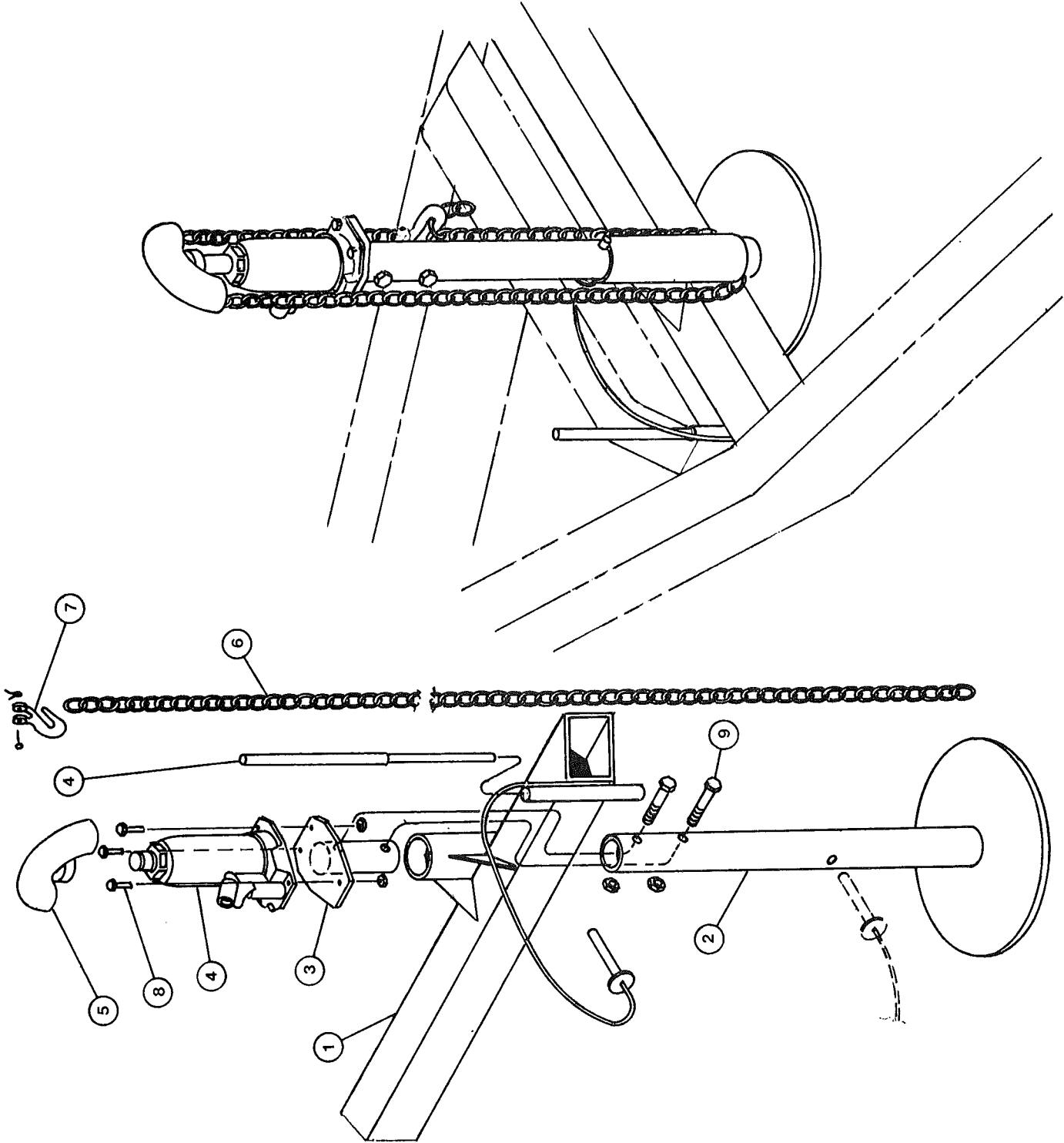
**POWER SHAFT
1000 RPM TRACTORS w/1 $\frac{3}{4}$ -20 PTO SHAFT
L55 UNIVERSAL JOINT & TELESCOPING
SHAFT ASSEMBLY w/QDFWG
1436601**



P O W E R S H A F T
 1000 RPM TRACTORS W/1 3/4-20 PTO SHAFT
 (1436601)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1426642	REF	JOINT & TUBE W/QDFWG
2	1426644	REF	JOINT & SHAFT W/QDFWG
3	1426647	1	YOKE AND TUBE
4	1426643	1	MALE GUARD TUBE
5	1426646	1	FEMALE GUARD TUBE
6	1426645	1	YOKE AND SHAFT
7	0926693	2	NYLON BEARING
8	0926692	2	BEARING RETAINER
9	1436600	1	1 3/4-20 QD LOCK YOKE ASS'Y
10	0026633	2	REPAIR PARTS
11	1426610	1	1 11/16-20 SPLINE YOKE
12	1426648	1	SAF-T-PIN AND SPRING KIT-1 3/4-20 SPLINE

JACK ASSEMBLY 1411011



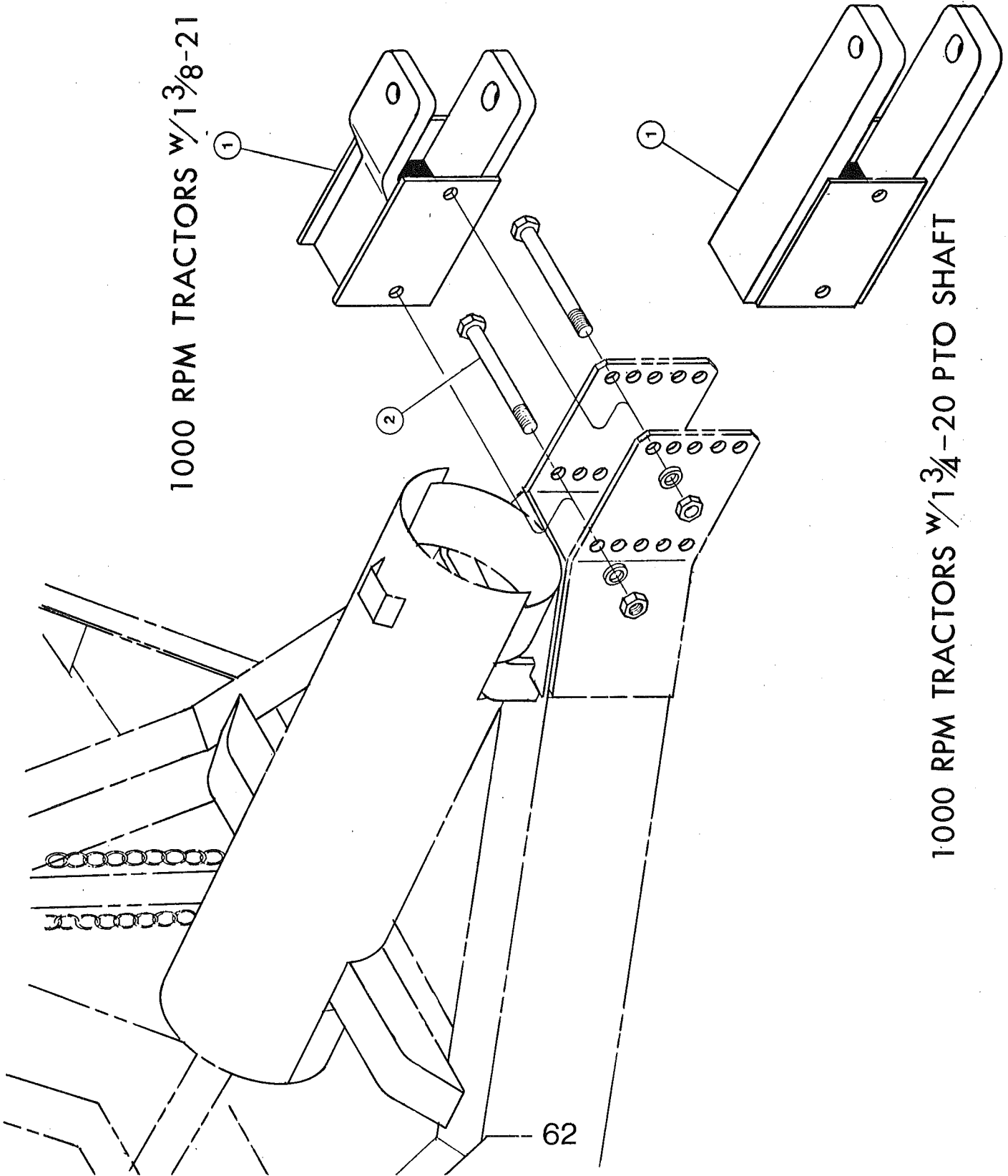
J A C K A S S E M B L Y
(1411011)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1410056	1	CENTER BODY JACK SUPPORT WELDMENT
2	1410054	1	JACK BASE PLATE WELDMENT
3	1410055	1	BASE PLATE WELDMENT
4	1418976	1	8-TON JACK W/HYDRAULIC JACK HANDLE WELDMENT
5	1410053	1	CHAIN GUIDE WELDMENT
6	1416303	1	JACK CHAIN (3/8 X 69 LINKS OR 87" LONG)
7	1418977	1	GRAB HOOK W/PIN
8	-----	3	5/16-18NC HHCS X 1 1/4 LG W/WHIZ NUT
9	-----	2	1/2-13NC HHCS X 3 LG W/HEX NUT

CLEVIS WELDMENT

1000 RPM TRACTORS W/1 $\frac{3}{8}$ -21 PTO SHAFT

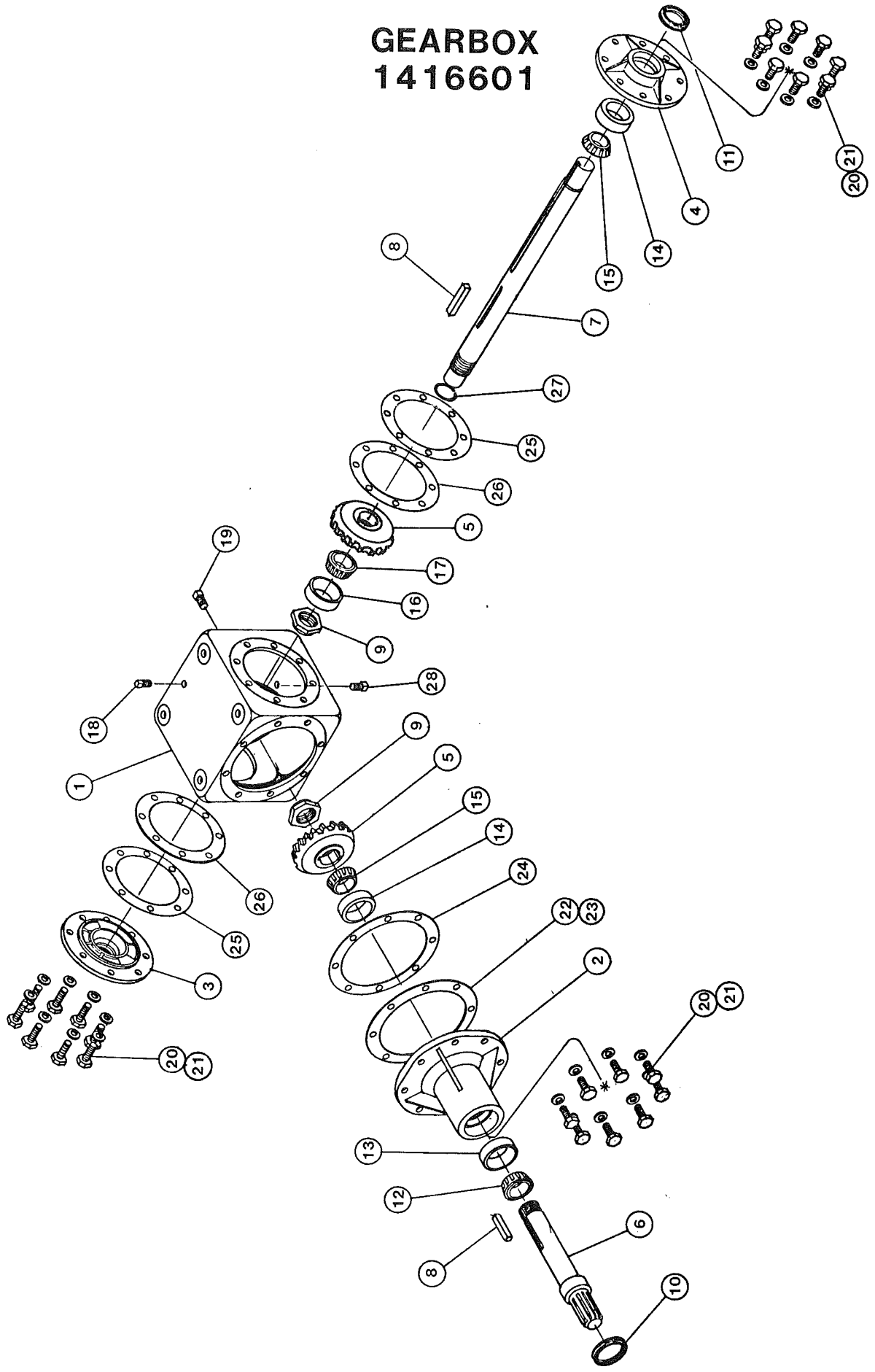
1000 RPM TRACTORS W/1 $\frac{3}{4}$ -20 PTO SHAFT



C L E V I S W E L D M E N T

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1410015	1	CLEVIS WELDMENT (1000 RPM TRACTORS W/1 3/8-21 PTO SHAFT)
1	1410072	1	CLEVIS WELDMENT (1000 RPM TRACTORS W/1 3/4-20 PTO SHAFT)
2	-----	2	3/4-10NC x 6 HHCS GR-8PL W/HEX NUT & L.W.

GEARBOX 1416601



G E A R B O X
(1416601)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
1	1426621	1	HOUSING
2	1426629	1	HUB
3	0027655	1	COVER
4	1426630	1	COVER
5	1426631	2	BEVEL GEAR
6	1426639	1	INPUT SHAFT
7	1426640	1	OUTPUT SHAFT
8	1426620	2	1/2 x 1/2 x 2 KEY
9	1128252	2	STAKE NUT
10	1426628	1	SEAL
11	1426627	1	SEAL
12	1426635	1	BEARING CONE (LM104949)
13	1426634	1	BEARING CUP (LM104912)
14	1426632	2	BEARING CUP (3720)
15	1426633	2	BEARING CONE (3780)
16	0026010	1	BEARING CUP
17	0026011	1	BEARING CONE
18	1426622	1	PLUG-VENT 1/2
19	0027500	1	PLUG-3/8 NPT SQ HD
20	-----	16	1/2 x 13NC x 1 1/4 HHCS GR5 PL
21	-----	16	1/2 LOCKWASHER
22	1426624	AS REQD	SHIM (BROWN-.010 THICK)
23	1426625	AS REQD	SHIM (YELLOW-.020 THICK)
24	1426626	1	GASKET (.031 THICK)
25	0026636	AS REQD	SHIM (BLUE-.005 THICK)
26	0926609	1	GASKET (.031 THICK)

G E A R B O X
(1416601)

ITEM NO.	PART NO.	QTY.	DESCRIPTION
27	1426638	1	SNAP RING
28	1426623	1	PLUG-DRAIN 1/2

PART NUMBER	DESCRIPTION	PAGE FOR REFERENCE
0003470	LOWER CUTTER BAR	19
0006006	1 1/4" BORE PILLOW BLOCK BEARING	22
0008125	3/8-16NC x 1 1/2 CARRIAGE BOLT w/HEX NUT	25-27
0008134	3/8-16NC x 3/4 TRUSS HEAD BOLT w/HEX NUT	25-27
0008250	CLIP	35-49
0008991	TRIPLE LIP SEAL	39
0008992	TRIPLE LIP SEAL	41
0008999	5.90 x 15 4-PLY TUBELESS TIRE	39
0010005	ROTOR WELD	25
0012000	END LOCATER BRACKET	24-27
0014652	ROTOR ANTI-WRAP DEVICE	25-27
0015175	STUD ANCHOR	25-27
0015205	WIDE KNIFE HANGER	25-27
0015208	HEAVY DUTY KNIFE BLADE	25
0015211	LEFT END KNIFE	25-27
0015212	RIGHT END KNIFE	25-27
0016000	A WHEEL OUTER BRG.	39-41
0016001	A WHEEL INNER BRG.	39
0016010	1 15/16 DIA. 4-BOLT FLANGE BRG.	25
0016206	IDLER BUSHING	22
0016207	SF-BB IDLER BUSHING	23
0018131	KNIFE CARRIAGE BOLT 3 3/8 NUT	25-27
0018149	3/8 -16NC LOCK NUT	25-27
0018252	1/8 x 1 COTTER KEY	39-41
0018253	SPINDLE NUT	39-41
0018254	SPINDLE WASHER	39-41
0018281	3/8 x 3 ROLL PIN BLK.	45
0018975	KNIFE ROD (12' WING BODY)	27
0018989	1/2-20 NF LUG NUT	41
0018992	5-BOLT WHEEL HUB ASSEMBLY	39
0018993	5-BOLT 15" RIM	39
0018996	DUST CAP	39-41
0026000	OUTER BEARING CUP	39
0026001	INNER BEARING CUP	39
0026010	BEARING CUP	65
0026011	BEARING CONE	65
0026630	SPRING	57
0026631	COLLAR	57
0026632	PAWL	57
0026633	L55 CENT PARTS REPAIR KIT	45
0026636	SHIM (BLUE-.005 THICK)	65
0026655	RETAINING RING	57
0026686	1 3/4-6B QD LOCK YOKE	59
0027500	PLUG-3/8 NPT SQ HD	65
0027655	COVER	65
0911037	ROTOR ASSEMBLY	17
0916001	1 3/4 DIA. PILLOW BLOCK BEARING	53
0918984	5-BOLT 10" WHEEL	41
0918994	KNIFE ROD (9' WING BODY)	27
0918995	KNIFE ROD	25
0926609	GASKET (.031 THICK)	65

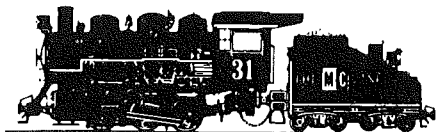
PART NUMBER	DESCRIPTION	PAGE FOR REFERENCE
0926692	BEARING RETAINER	57-59
0926693	NYLON BEARING	57-59
0926702	MALE GUARD TUBE	57
0926704	FEMALE GUARD TUBE	57
0928162	1/2-20 NE HHCS x 1 1/2 LG	53
0928255	1 9/16 O.D. x 1/2 I.D. WASHER x 1/4 THICK	53
0933471	LOWER CUTTING BAR	17
0933473	LOWER CUTTER BAR	19
1110127	SPRING RETAINER WELD	33
1110130	WHEEL MOUNT WELDMENT	41
1110144	SPACER WELDMENT	33
1111041	WHEEL MOUNT ASSEMBLY	41
1113590	WHEEL MOUNT CLAMP	41
1128252	STAKE NUT	65
1410000	RIGHT WING SECTION WELDMENT	19
1410001	LEFT WING SECTION WELDMENT	19
1410002	RIGHT WING SECTION WELDMENT	19
1410003	LEFT WING SECTION WELDMENT	19
1410006	7' BODY CENTER SECTION WELDMENT	17
1410011	GEARBOX MNT. CROSS SUPPORT WELDMENT	33
1410013	H.D. GAUGE WHEEL ASSEMBLY	20
1410015	CLEVIS WELDMENT	63
1410016	PRIMARY LIFT ARM WELDMENT	35
1410018	AXLE MOUNT WELDMENT	19
1410019	SECONDARY LIFT ARM WELDMENT	35
1410021	RIGHT SKID WELDMENT	19
1410022	LEFT SKID WELDMENT	19
1410024	AXLE CENTER BRACE WELDMENT	17-19
1410032	FRONT COVER WELDMENT	19
1410033	FRONT COVER WELDMENT	19
1410035	LEFT WING AXLE WELDMENT	19
1410036	RIGHT WING AXLE WELDMENT	19
1410037	RIGHT WING AXLE WELDMENT	19
1410038	LEFT WING AXLE WELDMENT	19
1410041	IDLER PUSH BAR WELDMENT	23
1410042	CHAIN CURTAIN MOUNT WELDMENT	17
1410044	BODY HINGE PIN WELDMENT	37
1410045	IDLER PIVOT WELDMENT	22
1410047	ROTOR WELDMENT	27
1410048	ROTOR WELDMENT	27
1410049	IDLER ADJUSTING WELDMENT	23-31
1410052	WING STOP WELDMENT	35
1410053	CHAIN GUIDE WELDMENT	61
1410054	JACK BASE PLACE WELDMENT	61
1410055	BASE PLACE WELDMENT	61
1410056	CENTER BODY JACK SUPPORT WELDMENT	61
1410058	GUARD WELDMENT	31
1410059	AXLE	17
1410060	AXLE SUPPORT	17
1410063	GAUGE WHEEL MOUNT WELDMENT	39
1410066	RAISED WING SUPPORT ARM WELDMENT	37

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>PAGE FOR REFERENCE</u>
1410068	CHAIN WELD. W/2 5/8-11NC JAM NUTS	37
1410070	SUPPORT ARM LOCK PIN WELDMENT	37
1410072	CLEVIS WELDMENT	63
1411006	RIGHT ROTOR ASSEMBLY	19
1411007	LEFT ROTOR ASSEMBLY	19
1411008	RIGHT ROTOR ASSEMBLY	19
1411009	LEFT ROTOR ASSEMBLY	19
1411014	RIGHT 9' WING ASSEMBLY	37
1411016	RIGHT 12' WING ASSEMBLY	37
1413360	PTO GUARD MOUNT BRACKET	53
1413361	STONE GUARD MOUNTING BAR	19
1413363	STONE GUARD MOUNTING BAR	19
1413366	HOSE CLAMP U-BOLT ANGLE	47
1413428	AXLE CENTER BRACE SHIM	17
1413434	TIE CHAIN LOCK BAR	20
1413463	UPPER SHEAR BAR	17
1413464	UPPER SHEAR BAR	19
1413465	UPPER SHEAR BAR	19
1413469	RAISED WING SUPPORT ARM BRACE	37
1413541	AXLE END PLATE	17
1413542	AXLE WASHER	17 & 41
1413757	CHAIN CURTAIN ROD	17
1414061	CHAIN MOUNT BODY TIE	20
1414205	IDLER MOUNT	22 & 31
1414206	FRONT HOSE SUPPORT	47
1414210	BELT GUARD BOTTOM PANEL	29
1414434	LOWER FRONT PTO COVER	53
1414435	LOWER REAR PTO COVER	53
1414436	GUARD MOUNT BRACKET	29 & 31
1414448	FRONT COVER	17
1414654	COVER PLATE	31
1414767	PTO COVER	53
1414778	BELT GUARD SIDE DOOR	29
1414779	BELT GUARD TOP-MAIN	29
1414780	BELT GUARD REAR PANEL	29
1414781	BELT GUARD SLOT PLATE	29
1414782	RIGHT BELT GUARD UPPER SIDE PANEL	29
1414783	LEFT BELT GUARD UPPER SIDE PANEL	29
1414784	RIGHT BELT GUARD LOWER SIDE PANEL	29
1414785	LEFT BELT GUARD LOWER SIDE PANEL	29
1414786	BELT GUARD RIGHT CENTER	29
1414787	RIGHT BELT GUARD ANGLE	29
1414789	BELT GUARD PLATE	29
1415020	SECONDARY LIFT ARM PIN	35, 49, 51
1415021	PRIMARY LIFT ARM PIN	35
1415082	OUTBOARD SHAFT	22
1415590	FLUID LINE	49
1415610	IDLER SPACER SLEEVE	22
1415620	WASHER	35
1415702	MAIN DRIVE SPLINE BUSHING	22
1415704	IDLER ADJUSTING ROD	33

PART NUMBER	DESCRIPTION	PAGE FOR REFERENCE
1415709	RUBBER STONE GUARD	19
1415710	RUBBER STONE GUARD	19
1415995	RIGHT 9' WING ROTOR	43
1415996	LEFT 9' WING ROTOR	43
1415997	RIGHT 12' WING ROTOR	43
1415998	LEFT 12' WING ROTOR	43
1416000	1 15/16" BORE PILLOW BLOCK BEARING	23
1416100	CENTER SECTION DRIVE BELT	23-31
1416101	BELT 4/5V/1250 4-GROOVE	22
1416102	BELT 5/5V/1250 5-GROOVE	22-43
1416202	8/5V/10.9 DRIVE SHEAVE	22
1416203	8/5V/10.3 DRIVEN SHEAVE	22
1416204	8/5V/8.0 IDLER SHEAVE	22
1416205	MAIN DRIVE IDLER BUSHING	22
1416206	10.9 DIA. SECONDARY DRIVE PULLEY (UPPER)	23-31
1416207	10.3 DIA. SECONDARY DRIVE PULLEY (LOWER)	23-31
1416208	5V/8.0 x 3-GROOVE -SF SHEAVE	23-31
1416209	SF-1 15/16" BUSHING	23
1416211	10/5V/10.9 DRIVE SHAFT	22
1416212	10/5V/10.3 DRIVEN SHEAVE	22
1416213	10/5V/8.0 IDLER SHEAVE	22
1416302	DEFLECTOR CHAIN	17
1416303	JACK CHAIN	61
1416600	LEFT & RIGHT WING PTO	43
1416601	GEARBOX	22
1416602	FIXED LENGTH DRIVE LINE	53
1416606	LOWER DRIVE SHAFT	22-43
1416607	SPLINED DRIVE SHAFT	53
1416608	BUSHED TYPE SLEEVE COUPLING	22
1416609	SPLIT TAPER BUSHING 1 15/16 BORE	22
1417000	WING LIFT CYLINDER	35-47
1417001	WING LIFT CYLINDER	47
1418000	HYDRAULIC LINE CROSS	47
1418001	HYDRAULIC LINE TEE	47
1418002	90° ELBOW w/NUT	49
1418100	HYDRAULIC HOSE -U-BOLT	47
1418250	1 3/8-16NC 9" LG IDLER BOLT w/2 JAM NUTS	22
1418400	HOSE-LEFT WING HEIGHT ADJUST.	47
1418401	HOSE-RT. WING HEIGHT ADJUST.	47
1418402	HOSE-HEIGHT ADJUST.	47
1418403	HOSE-RIGHT WING HEIGHT ADJUST.	47
1418407	HOSE-LEFT WING LIFT-MALE	47
1418408	HOSE-LEFT WING LIFT-FEMALE	47
1418409	HOSE-RT. WING LIFT-MALE	47
1418410	HOSE-RT. WING LIFT-FEMALE	47
1418411	HOSE-TRACTOR CONNECT HEIGHT ADJUST	47
1418412	TRACTOR CONNECT HEIGHT ADJ. HOSE	47
1418973	3/16 x 2 SNAPPER PIN	37
1418974	HOSE CLAMP	49
1418976	8-TON JACK w/HYDRAULIC JACK HANDLE WELD.	61
1418977	GRAB HOOK w/PIN	61

PART NUMBER	DESCRIPTION	PAGE FOR REFERENCE
1418978	RUBBER BUSHING	17
1418979	IDLER SPRING	33
1418993	9.00 x 10 TIRE-TUBE	41
1418999	FLUID LINE BLOCK	49
1426200	1" BORE REPLACEMENT BEARING	23
1426201	1 3/8 DIA. REPLACEMENT BEARING	22
1426600	L55 JOINT-SHAFT ASSEMBLY	45
1426601	1 15/16 YOKE	45
1426603	YOKE-SHAFT WELDMENT	45
1426604	L55 JOINT-TUBE ASSEMBLY	45
1426605	YOKE-TUBE WELDMENT w/LUBE	45
1426606	QD LOCK YOKE ASSEMBLY	45
1426607	SAF-T-PIN & SPRING	45
1426608	YOKE (2"-10B SPLINE)	55
1426609	YOKE-TUBE ASSEMBLY	55
1426610	YOKE (1 11/16-20 SPLINE)	55-57-59
1426615	1 3/8-21 INV. SPLINE SAFETY LOCK YOKE ASSY.	57
1426616	JOINT-TUBE w/QDFWG	57
1426617	YOKE-TUBE	57
1426618	JOINT-SHAFT W/QDFWG	57
1426619	YOKE-SHAFT	57
1426620	1/2 x 1/2 x 2 KEY	65
1426621	HOUSING	65
1426622	PLUG-VENT 1/2	65
1426623	PLUG-DRAIN 1/2	66
1426624	SHIM (BROWN-.010 THICK)	65
1426625	SHIM (YELLOW-.020 THICK)	65
1426626	GASKET (.031 THICK)	65
1426627	SEAL	65
1426628	SEAL	65
1426629	HUB	65
1426630	COVER	65
1426631	BEVEL GEAR	65
1426632	BEARING CUP (3720)	65
1426633	BEARING CONE (3780)	65
1426634	BEARING CUP (LM1049 12)	65
1426635	BEARING CONE (LM104949)	65
1426638	SNAP RING	66
1426639	INPUT SHAFT	65
1426640	OUTPUT SHAFT	65
1426642	JOINT & TUBE W/QDFWG	59
1426643	MALE GUARD TUBE	59
1426644	JOINT & SHAFT W/QDFWG	59
1426646	FEMALE GUARD TUBE	59
1426647	YOKE-TUBE	59
1427000	PISTON ROD	51
1427001	PIPE PLUG	51
1427002	TUBE	51
1427003	END CAP	51
1427004	GLAND	51

PART NUMBER	DESCRIPTION	PAGE FOR REFERENCE
1427005	PISTON	51
1427006	LOCK NUT	51
1427007	CLEVIS	51
1427008	TIE ROD	51
1427009	O-RING	51
1427010	O-RING	51
1427012	O-RING	51
1427013	O-RING	51
1427014	BU-WASHER	51
1427015	WIPER	51
1427016	PISTON ROD	49
1427017	BUTT & TUBE ASSEMBLY	49
1427018	PISTON	49
1427019	GLAND	49
1427020	LOCK NUT	49
1427021	SNAP RING	49
1427022	PISTON RING	49
1427023	O-RING	49
1427024	O-RING	49
1427025	O-RING	49
1427026	BU-WASHER	49
1427027	BU-WASHER	49
1427028	WIPER	49
1427029	PACKING KIT	49
1427030	PACKING KIT	51
1428997	HAIR PIN	51
1436601	YOKE SHAFT	59



Iron Horse Quality