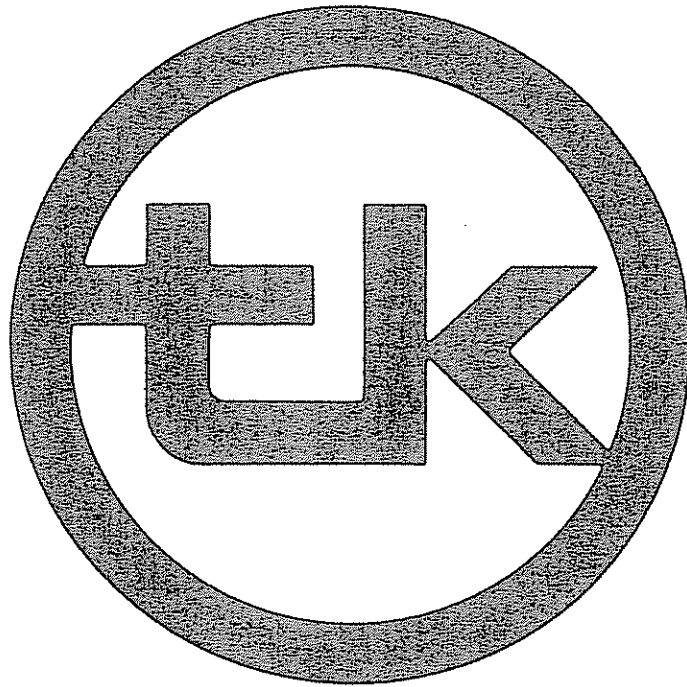

TK-80

— OWNER'S MANUAL AND PARTS LIST —



— Terrain King Corporation —

terrain king®

— P.O. Drawer 549 Seguin, Texas 78155 (512) 379-1480 —

TABLE OF CONTENTS

WARRANTY.....	2
OPERATION SAFEGUARDS.....	3,4
OPERATION INSTRUCTIONS.....	5,6
PRE-OPERATION CHECKS, LUBRICATIONS, MAINTENANCE.....	7
SLIP CLUTCHES, CUTTING SYSTEM.....	8
DISASSEMBLY OF SIDE GEARBOX, ASSEMBLY OF SIDE GEARBOX.....	9
DISASSEMBLY OF CENTER GEARBOX, ASSEMBLY OF CENTER GEARBOX.....	10
INSTRUCTIONS FOR ORDERING PARTS.....	11
ASSEMBLY INSTRUCTIONS FOR LIFT MODEL.....	12
ASSEMBLY INSTRUCTIONS FOR PULL MODEL.....	13

PARTS LIST

BASE ASSEMBLY - LIFT MODEL.....	14
BASE ASSEMBLY - PULL MODEL.....	15
CENTER GEARBOX ASSEMBLY - LIFT & PULL MODEL.....	16
SIDE GEARBOX ASSEMBLY - LIFT & PULL MODEL.....	17
FLEXIBLE COUPLING - LIFT & PULL MODEL.....	18
SLIP CLUTCH - LIFT & PULL MODEL.....	19
DRIVESHAFT ASSEMBLY - LIFT MODEL.....	20
DRIVESHAFT ASSEMBLY - PULL MODEL.....	21
SAFETY SHIELD ASSEMBLY - LIFT & PULL MODEL.....	22
BLADE BAR ASSEMBLY - LIFT & PULL MODEL.....	23
"A" FRAME ASSEMBLY - LIFT MODEL.....	24
TAILWHEEL ASSEMBLY - LIFT MODEL.....	25
TONGUE ASSEMBLY - PULL MODEL.....	26
TONGUE MOUNTING INSTRUCTIONS.....	27
SHOCK ABSORBER ASSEMBLY - PULL MODEL.....	28
AXLE ASSEMBLY - PULL MODEL.....	29
HUB AND BEARING GROUP - PULL MODEL.....	30
RATCHET JACK ASSEMBLY - PULL MODEL.....	31
CHAIN GUARD ASSEMBLIES - LIFT & PULL MODEL.....	32

WARRANTY

WITHIN A PERIOD OF 1 YEAR FROM PURCHASE DATE, TERRAIN KING CORPORATION WILL REPLACE FOR THE ORIGINAL PURCHASER, FREE OF CHARGES, ANY PART OR PARTS FOUND, UPON EXAMINATION AT OUR FACTORY AT SEGUIN, TEXAS, TO BE DEFECTIVE UNDER NORMAL USE AND SERVICE DUE TO DEFECTS IN MATERIAL OR WORKMANSHIP.

THE WARRANTY SHALL NOT APPLY TO ANY PART OF THE PRODUCT WHICH HAS BEEN SUBJECTED TO MISUSE, NEGLIGENCE, ALTERATION, OR ACCIDENT. THIS WARRANTY DOES NOT APPLY TO UNIVERSAL JOINTS OR TO EXPENDABLE ITEMS SUCH AS BLADES.

THE WARRANTY IS NOT EFFECTIVE UNLESS THE WARRANTY CARD IS RETURNED TO TERRAIN KING CORPORATION WITHIN 14 DAYS OF PURCHASE. CLAIMS MUST BE FILED WITHIN 30 DAYS OF THE FAILURE. WRITTEN PERMISSION MUST BE OBTAINED TO RETURN ITEMS FOR WARRANTY CONSIDERATION. A PACKING LIST MUST ACCOMPANY EACH SHIPMENT GIVING MODEL NUMBER, SERIAL NUMBER, DATE OF SALE, HOURS OR TIME IN OPERATION, DEALER'S NAME, CUSTOMER'S, AND EVENTS LEADING TO THE FAILURE.

OPERATION SAFEGUARDS



DANGER

THIS EQUIPMENT IS EXTREMELY DANGEROUS!
SERIOUS INJURY OR DEATH MAY OCCUR UNLESS CARE
IS TAKEN TO INSURE THE SAFETY OF BOTH THE
OPERATOR AND ANY OTHER PERSONS IN THE AREA.

THE FOLLOWING IS A LIST OF SAFEGUARDS WHICH SHOULD BE FOLLOWED.

1. ROTARY CUTTERS ARE CAPABLE OF THROWING OBJECTS FOR GREAT DISTANCES AND INFLICTING SERIOUS INJURY. NO BYSTANDER SHOULD BE ALLOWED WITHIN A 100 YARD RADIUS OF THE MACHINE IN OPERATION.
2. EXTREME CARE SHOULD BE TAKEN WHEN OPERATING NEAR LOOSE OBJECTS SUCH AS GRAVEL, ROCKS, AND DEBRIS. THESE OBJECTS SHOULD BE AVOIDED.
3. THE ROTATING PARTS OF THIS MACHINE HAVE BEEN DESIGNED AND TESTED FOR RUGGED USE. HOWEVER, THEY COULD FAIL UPON IMPACT WITH HEAVY SOLID OBJECTS SUCH AS STEEL GUARD RAILS, CONCRETE ABUTMENTS, ETC., CAUSING THEM TO BE THROWN AT A VERY HIGH VELOCITIES. NEVER ALLOW THE CUTTING BLADES TO CONTACT SUCH OBSTACLES.
4. THE OPERATOR AND ALL SUPPORT PERSONNEL SHOULD WEAR "HARD HATS" AND "SAFETY GLASSES" AT ALL TIMES TO PROTECT THEM AGAINST FALLING OBJECTS AND ITEMS THROWN BY THE MACHINE.
5. THE ROTATING PARTS OF THIS MACHINE CONTINUE TO ROTATE EVEN AFTER THE PTO HAS BEEN TURNED OFF. THE OPERATOR SHOULD REMAIN IN HIS SEAT FOR 60 SECONDS AFTER THE TRACTOR HAS BEEN TURNED OFF. THIS WILL ALLOW ENOUGH TIME FOR THE ROTATING MEMBERS TO COME TO REST.
6. OBJECTS SUCH AS WIRE, CABLE, ROPE, CHAINS, ETC., CAN BECOME ENTANGLED IN THE ROTATING PARTS OF THE HEAD. THESE ITEMS COULD THEN SWING OUTSIDE THE HOUSING AT GREATER VELOCITIES THAN THE BLADES, CREATING AN EXTREMELY DANGEROUS CONDITION. INSPECT THE CUTTING AREA FOR SUCH OBJECTS PRIOR TO MOWING. NEVER ALLOW THE CUTTING BLADES TO CONTACT SUCH ITEMS.

OPERATION SAFEGUARDS CONTINUED

7. THE HITCH SHOULD BE EXAMINED DAILY FOR SIGNS OF WEAR OR BROKEN PARTS. A HITCH FAILURE COULD ALLOW THE MACHINE TO SEPARATE FROM THE TRACTOR AND CREATE A HAZARDOUS SITUATION.
8. TRANSPORT MOWER AT SAFE SPEEDS (10 MPH MAXIMUM). USE FLASHING WARNING LIGHTS WHEN TOWING MACHINE ALONG HIGHWAYS. NEVER ALLOW RIDERS ON MOWER OR TRACTOR.
9. INSPECT THE ENTIRE MACHINE ONCE A WEEK FOR LOOSE BOLTS, WORN OR BROKEN PARTS, ETC. SERIOUS INJURY MAY OCCUR FROM NOT MAINTAINING THIS MACHINE IN GOOD WORKING ORDER.
10. IF OPTIONAL CHAINGUARDS ARE USED, THEY SHOULD BE MAINTAINED IN PROPER WORKING ORDER. THE CHAINGUARDS SHOULD BE CHECKED ONCE A WEEK FOR MISSING CABLE OR CHAIN LINKS. THE MISSING ITEMS SHOULD BE REPLACED.
11. FRONT END WEIGHT SHOULD BE ADDED TO THE TRACTOR TO MAINTAIN ENOUGH WEIGHT ON THE FRONT WHEELS FOR SAFE STEERING. WHEN YOU ADD A HEAVY MOWER ON TO THE THREE POINT LIFT ARMS OF THE TRACTOR, THE FRONT END OF THE TRACTOR MAY BECOME LIGHT AND LIFT OFF THE GROUND.



CAUTION

Failure to follow safe operating practices can cause tractors to rear up which can cause equipment damage and bodily injury.



<ol style="list-style-type: none">1. MAKE CERTAIN THAT LOCK PINS ARE INSTALLED INTO UPPER AND LOWER LINK PINS ON HITCH.2. ADD FRONT END WEIGHTS AS REQUIRED TO MAINTAIN ENOUGH WEIGHT ON FRONT WHEELS FOR SAFE STEERING.3. SLOW DOWN IN CURVES AND IN ROUGH PLACES TO MAINTAIN SAFE STEERAGE WEIGHT ON FRONT WHEELS.	<ol style="list-style-type: none">4. NEVER START OR ACCELERATE SUDDENLY TO MAINTAIN SAFE STEERAGE WEIGHT.5. DO NOT LIFT HEAVY IMPLEMENTS GOING UP STEEP SLOPES.6. DO NOT LIFT IMPLEMENT HEAVIER THAN RECOMMENDED BY TRACTOR MANUFACTURER.
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12. THIS IS ONLY A PARTIAL LIST OF SAFETY PRECAUTIONS TO FOLLOW. PERHAPS THE BEST GENERAL RULE TO FOLLOW IS ALWAYS STAY ALERT, USE COMMON SENSE AND MAINTAIN AN AWARENESS OF THE DANGERS INVOLVED IN OPERATING THIS TYPE OF EQUIPMENT.

OPERATION INSTRUCTIONS

THE TK-80 TERRAIN KING MOWER WAS DESIGNED TO FILL YOUR MOWING NEEDS AND WAS BUILT TO GIVE YOU THE UTMOST IN LONG LIFE AND TROUBLE-FREE SERVICE. FOR BEST RESULTS, PLEASE OBSERVE THE SUGGESTIONS AND PRECAUTIONS GIVEN BELOW:

1. ENGAGE PTO SHAFT AT A LOW ENGINE RPM AND SPEED ENGINE UP AFTER BLADES ARE FULLY ENGAGED. NEVER ENGAGE PTO SHAFT AT A HIGH ENGINE RPM. THIS COULD CAUSE DAMAGE TO THE PTO SHAFT AS WELL AS THE DRIVESHAFTS.
2. ALWAYS RUN THE MACHINE AT THE HIGHEST POSITION WHICH WILL ENABLE YOU TO OBTAIN THE DESIRED CUTTING RESULTS. ALLOWING THE BLADES TO CUT INTO THE GROUND WILL CAUSE WEAR AND UNDUE STRAIN ON THE MOWER FRAME AND MOWER COMPONENTS.
3. IF YOU ARE MOWING IN CONDITIONS OF HEAVY GROWTH OR ROUGH GROUND WHERE THE BLADES CUT INTO THE GROUND AND THE TRACTOR ENGINE SLOWS DOWN, DO NOT SLIP THE CLUTCH TO ALLOW THE ENGINE TO SPEED UP AND ENGAGE THE CLUTCH AGAIN. THIS PROCEDURE EXERTS TREMENDOUS STRAIN ON THE DRIVE-LINE OF THE TRACTOR AND MOWER. ALWAYS DISENGAGE THE POWER TAKE-OFF AND MOVE FORWARD OR BACKWARD UNTIL THE MACHINE IS CLEAR.
4. THE TK-80 ROTARY MOWER IS DESIGNED WITH FREE SWINGING BLADES. THIS FEATURE REDUCES THE AMOUNT OF SHOCK TRANSMITTED TO OTHER COMPONENTS. ALWAYS MAKE SURE THE BLADE CAN SWING FREELY ON THE BLADE BAR.
5. THE MOWER SHOULD BE OPERATED AT AN ENGINE SPEED THAT TURNS THE PTO AT 540 RPM. THE MOWER IS DESIGNED TO RUN AT THAT SPEED. HIGHER OR LOWER PTO SPEED CAN INCREASE THE LOAD ON THE DRIVESHAFTS AND CLUTCH AND CAUSE PREMATURE FAILURE OF THE DRIVE-LINE. ALWAYS RUN THE TRACTOR AT A SPEED TO GIVE 540 RPM, PTO SPEED.
6. THE STANDARD THREE-POINT LIFT MOWER IS EQUIPPED WITH CATEGORY II LIFT PINS. IT CAN BE OPERATED ON A CATEGORY I SYSTEM BY CHANGING THESE PINS. FRONT END WEIGHTS WILL BE NEEDED TO OPERATE THIS MOWER ON SOME TRACTORS.

7. WHEN CUTTING FOLIAGE AND FINE SHREDDING IS DESIRED, RUN THE MOWER, LEVEL OR SLIGHTLY LOWER IN THE REAR SO AS TO KEEP THE MATERIAL IN THE MOWER UNTIL IT IS SHREDDED. THIS WILL REQUIRE MORE POWER BUT WILL SHRED BETTER. WHEN CUTTING HEAVY FOLIAGE AND FINE SHREDDING IS NOT DESIRED, RAISE THE REAR OF THE MOWER. THIS ALLOWS THE HIGH VOLUME OF MATERIAL TO BE DISCHARGED THUS REQUIRING MUCH LESS POWER.

8. THE TONGUE ON THE MACHINE IS DESIGNED TO HAVE A TURNING RADIUS AS SMALL AS POSSIBLE. SEVERAL FACTORS INCLUDING TIRE SIZE, REAR TIRE SPACING, FRONT TIRE SPACING, AND DRAWBAR LENGTH ALL AFFECT THE TURNING RADIUS. BY BRINGING THE FRONT AND REAR TIRES CLOSER INTO THE TRACTOR, THE TURNING RADIUS CAN BE REDUCED. THE DRAWBAR SHOULD ALSO BE IN THE EXTENDED POSITION.

NOTE: EXCESSIVELY SHARP TURNS WHILE THE MOWER IS RUNNING CAN CAUSE WEAR AND UNDUE STRAIN ON THE MAIN DRIVESHAFT. PREMATURE BEARING LOSS CAN OCCUR FROM CONTINUED EXCESSIVELY TIGHT TURNS.

9. DO NOT RIDE THE CLUTCH ON THE TRACTOR. MOW IN THE APPROPRIATE GEARS TO GIVE THE CORRECT GROUND SPEED.

PRE-OPERATION CHECKS

AFTER INSTALLATION OF THE WHEELS AND THE MAIN DRIVESHAFT, THE FOLLOWING PROCEDURES SHOULD BE FOLLOWED BEFORE OPERATING THE MOWER:

1. CHECK THE LEVEL OF THE GEAR GREASE AND LUBRICATION OF ALL LUBE POINTS.
2. HAND ROTATE THE MAIN DRIVESHAFT TO CHECK FREEDOM OF ACTION.
3. CHECK BLADES TO MAKE SURE THEY SWING FREELY.
4. RAISE THE MOWER SLOWLY (LIFT-TYPE MOWERS) AFTER CONNECTING POWER TAKE-OFF TO MAKE SURE THE DRIVESHAFT DOES NOT STRIKE THE FRAME. SHORTEN THE TOP LINK UNTIL THERE IS 1/2" (ONE-HALF INCH) OF CLEARANCE BETWEEN THE DRIVESHAFT AND THE FRAME WHEN THE MOWER IS FULLY RAISED.

LUBRICATION

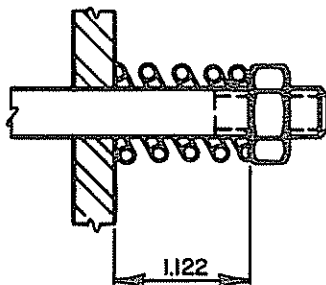
1. GEARBOX LUBRICANT SHOULD BE KEPT LEVEL WITH SIDE PLUG. CHECK THE LEVEL EVERY EIGHT HOURS OF OPERATION. (USE TERRAIN KING GREASE OR EQUIVALENT).
2. GREASE UNIVERSAL JOINTS EVERY EIGHT HOURS OF OPERATION.
3. GREASE DRIVESHAFT SLIP JOINT EVERY EIGHT HOURS OF OPERATION. IF THE SLIP JOINT DOES NOT HAVE A GREASE FITTING, SLIP THE SHAFT APART AND PACK THE GREASE EVERY 40 HOURS OF OPERATION.
4. GREASE WHEELS ON THREE-POINT LIFT EVERY EIGHT HOURS OF OPERATION.

MAINTENANCE

THE TERRAIN KING TK-80 IS DESIGNED FOR RUGGED USE, BUT LIKE ALL MACHINERY IT MUST BE PROPERLY MAINTAINED. PROPER MAINTENANCE WILL ADD HOURS OF USAGE TO THIS MACHINE AND WILL PREVENT COSTLY BREAKDOWNS.

SLIP CLUTCHES

AFTER THE FIRST HOURS OF OPERATION THE SLIP CLUTCH SHOULD BE CHECKED FOR EXCESSIVE SLIPPAGE, INDICATED BY THE CLUTCH RUNNING HOT. TO PROPERLY ADJUST THE SLIP CLUTCH, SPRING BOLTS SHOULD BE TIGHTEN TO THE LENGTH ILLUSTRATED BELOW. ANY INCREASE OR DECREASE IN TIGHTNESS WILL LOWER THE TORQUE RATING AND COULD CAUSE PREMATURE FAILURE.



THE SLIP CLUTCH SHOULD BE ADJUSTED AS DESCRIBED PERIODICALLY TO COMPENSATE FOR WEAR. IF THE MOWER HAS BEEN IDLE FOR AN EXTENDED PERIOD OF TIME, THE CLUTCH SHOULD BE CHECKED TO MAKE SURE THE PLATES ARE NOT FROZEN. THE CLUTCH SHOULD BE CHECKED PERIODICALLY FOR WEAR AND THE PRESENCE OF OIL, GREASE, MOISTURE, OR CORROSION ON THE DRIVING PLATES WHICH WILL GREATLY AFFECT THE EFFICIENCY AND LIFE OF THE CLUTCH DISC.

CUTTING SYSTEM

THE TERRAIN KING 80 IS EQUIPPED WITH REVERSIBLE FORGED STEEL BLADES. THEY SHOULD BE KEPT SHARP AT ALL TIMES TO GIVE THE BEST CUTTING PERFORMANCE AND TO REDUCE THE POWER REQUIREMENTS.

CHECK THE BLADES FOR FREE-SWINGING ACTION AFTER THE MACHINE HAS SET IDLE FOR A PROLONGED PERIOD. IT MAY BE NECESSARY TO APPLY PENETRATING OIL TO LOOSEN THEM. THESE PIVOT POINTS MUST BE KEPT FREE.

WHEN CHANGING BLADES OR REVERSING THE BLADES, REMOVE ALL NICKS AND DIRT FROM THE BLADES AND BLADE HOLDER. AFTER TIGHTENING THE BLADE SWIVEL BOLT, CHECK FOR FREE SWINGING ACTION OF THE BLADE.

DISASSEMBLY OF SIDE GEARBOX

1. REMOVE BLADE HUB.
2. LOOSEN YOKE RETAINING BOLT AND SLIDE DRIVESHAFT CLEAR OF THE SIDE GEARBOX SHAFT.
3. LOOSEN BOLTS HOLDING GEARBOX ON FRAME AND LIFT OUT GEARBOX.
4. REMOVE TOP COVER AND DRAIN OUT OLD GREASE.
5. FLUSH OUT GEAR HOUSING WITH SOLVENT.
6. REMOVE BEARING CAPS FROM GEAR HOUSING.
7. REMOVE SET SCREW FROM GEAR ON INPUT SHAFT. PRESS FRONT BEARING CONE AND CUP OUT THROUGH FRONT OF GEAR HOUSING. REMOVE REAR BEARING CONE AND GEAR FROM SHAFT.
8. LOOSEN NUT LOCK ON VERTICAL SHAFT AND REMOVE LOCKNUT, NUT LOCK, GEAR, KEY, BEARING SHIELD, AND SPACER FROM SHAFT. PRESS SHAFT OUT OF TOP BEARING CONE. REMOVE LOWER BEARING, GREASE SEAL AND GREASE SEAL RACE FROM SHAFT.
9. CLEAN ALL PARTS WITH SOLVENT, INSPECT FOR WORN OR DAMAGED PARTS, AND REPLACE WITH NEW PARTS IF NECESSARY.

ASSEMBLY OF SIDE GEARBOX

1. REPLACE LOWER BEARING CONE AND GREASE SEAL. START GREASE SEAL SQUARELY WITH LIP OF SEAL POINTING IN. PRESS SEAL INTO BOX UNTIL IT SEATS AGAINST HOUSING.
2. PRESS GREASE SEAL RACE ON VERTICAL OUTPUT SHAFT. PRESS SHAFT INTO LOWER BEARING CONE. REPLACE TOP BEARING CONE, SPACER, BEARING SHIELD, KEY, GEAR, NUT LOCK AND LOCKNUT. TIGHTEN LOCKNUT UNTIL BEARINGS DRAG WHEN ROTATED. LOOSEN LOCKNUT SLIGHTLY. TAP TOP OF SHAFT. SHAFT SHOULD TURN FREELY WITH NO END PLAY. STAKE NUT TO SHAFT WITH CENTER PUNCH AND SECURE LOCKNUT WITH LOCK EARS. PUT A FEW DROPS OF LOCKTITE ON THE GEAR SET SCREW AND TIGHTEN SECURELY. TURN SHAFT SO THE BLADE HUB KEY IS POINTED TOWARD THE INPUT SHAFT.
3. REPLACE THE GEAR AND HORIZONTAL INPUT SHAFT. PRESS NEW OIL SEAL IN BEARING CAPS WITH LIP POINTING IN. REPLACE THE BEARINGS AND BEARING CAPS. (USE PERMATHEX BETWEEN THE CAP AND HOUSING). TAP THE GEAR BACK AGAINST THE SHOULDER AND TIGHTEN THE SET SCREW. (USE LOCKTITE ON THE SET SCREW). CHECK THE GEAR BACKLASH(.006-.016) AND EASE OF ROTATION.
4. FILL THE GEAR HOUSING WITH GREASE TO THE LEVEL OF THE SIDE PLUG AND REPLACE THE TOP COVER. (USE PERMATHEX BETWEEN THE COVER AND HOUSING).
5. REPLACE THE GEARBOX ON THE FRAME AND REPLACE THE BLADE HUB.

DISASSEMBLY OF CENTER GEARBOX

1. REMOVE SIDE DRIVESHAFTS, MAIN DRIVESHAFT, SLIP CLUTCH ASSEMBLY, AND LOOSEN BOLTS HOLDING GEARBOX ON FRAME AND REMOVE GEARBOX.
2. REMOVE TOP COVER AND DRAIN OUT OLD GREASE.
3. FLUSH OUT HOUSING WITH SOLVENT.
4. LOOSEN SET SCREWS HOLDING GEARS ON SHAFT. LOOSEN BOLTS HOLDING BEARING HOUSING AND REMOVE HOUSING AND GEAR.
5. REMOVE SIDE BEARING CAPS. REMOVE OIL SEALS FROM CAPS.
6. PRESS BEARING CUP AND CONE (ON OPPOSITE SIDE OF GEAR) OUT OF HOUSING AND PRESS THE CROSS SHAFT OUT OF GEAR AND CONE.
7. IF IT IS NECESSARY TO DISASSEMBLY THE FRONT BEARING HOUSING, LOOSEN THE NUT LOCK AND REMOVE THE LOCKNUT. PRESS SHAFT OUT OF GREASE SEAL, SEAL RACE, AND BEARING CONE. REMOVE GREASE SEAL RACE, GREASE SEAL AND BEARING CONE FROM HOUSING.
8. CLEAN ALL PARTS WITH SOLVENT, INSPECT FOR WORN OR DAMAGED PARTS AND REPLACE WITH NEW PARTS IF NECESSARY.

ASSEMBLY OF CENTER GEARBOX

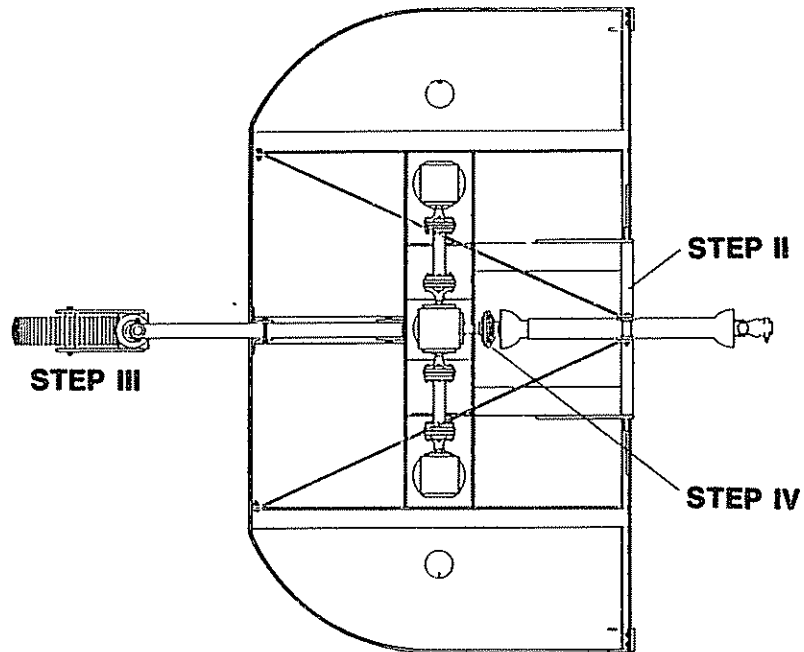
1. REPLACE CROSS SHAFT, KEY, GEAR AND BEARINGS IN HOUSING. PRESS NEW SEALS IN BEARING CAPS WITH LIP POINTED IN AND REPLACE THE BEARING CAPS. (USE PERMATEX BETWEEN CAP AND HOUSING).
2. REASSEMBLE THE FRONT BEARING HOUSING. REPLACE INNER CONE, SHAFT, OUTER CONE, GREASE SEAL RACE, GREASE SEAL (LIP POINTED IN), NUT LOCK AND LOCKNUT. TIGHTEN LOCKNUT TO REMOVE ALL END PLAY AND THEN LOCK WITH NUTLOCK.
3. REPLACE GEAR KEY IN SHAFT. PERMATEX THE FLANGE OF THE BEARING HOUSING, AND HOLD GEAR ON THE INSIDE OF THE GEAR HOUSING PLACE THE SHAFT IN THE GEAR. TIGHTEN THE BEARING HOUSING ON THE GEAR HOUSING. TAP THE GEARS BACK AGAINST THE SHAFT SHOULDER AND TIGHTEN SET SCREWS IN BOTH GEARS. (USE LOCKTITE ON THE SET SCREWS). CHECK THE GEAR BACKLASH (.006-.016) AND FOR EASE OF ROTATION.
4. FILL THE GEAR HOUSING WITH GREASE TO THE LEVEL OF THE SIDE PLUG AND REPLACE THE SIDE COVER . (USE PERMATEX BETWEEN THE COVER AND HOUSING).
5. REPLACE THE GEARBOX ON THE FRAME AND REPLACE THE BLADE HUB.

THE FOLLOWING INSTRUCTIONS ARE OFFERED TO HELP ELIMINATE NEEDLESS
DELAY AND ERROR IN PROCESSING PURCHASE ORDERS FOR TK-80 PARTS.

1. THE PARTS LISTING IS PREPARED IN LOGICAL SEQUENCE, BY PART
NUMBER, WITHIN EACH SECTION AND INCLUDES THE DESCRIPTION AND
QUANTITY PER UNIT.
2. THE PURCHASE ORDER MUST INDICATE THE NAME AND ADDRESS OF THE
PERSON OR ORGANIZATION ORDERING THE PARTS, TO WHOM THE CHARGES ARE
TO BE MADE, AND IF POSSIBLE THE SERIAL NUMBER FOR WHICH PARTS ARE
BEING ORDERED.
3. THE PURCHASE ORDER MUST CLEARLY LIST THE QUANTITY OF EACH PART,
THE COMPLETE AND CORRECT PART NUMBER AND THE BASIC (ONE WORD)
NAME OF THE PART ONLY.
4. TERRAIN KING CORPORATION RESERVES THE RIGHT TO SUBSTITUTE PARTS
WHERE APPLICABLE.
5. REQUEST QUOTATION FOR UNLISTED ITEMS WHICH ARE SPECIAL PRODUCTION
ITEMS NOT NORMALLY STOCKED AND ARE SUBJECT TO SPECIAL HANDLING.
6. TERRAIN KING CORPORATION RESERVES THE RIGHT TO CHANGE PRICES
WITHOUT PRIOR NOTICE.

LIFT MODEL ASSEMBLY INSTRUCTIONS

YOUR TK-80 LIFT MODEL HAS BEEN PACKAGED FOR SHIPMENT IN CONFORMANCE WITH ICC REGULATIONS TO PROVIDE THE LOWEST POSSIBLE TRANSPORTATION COST AND THE ABSOLUTE MINIMUM ASSEMBLY NECESSARY BEFORE USE. FOR QUICK AND EASY ASSEMBLY, USE THE FOLLOWING STEP BY STEP INSTRUCTIONS.



STEP I: READ ENTIRE ASSEMBLY INSTRUCTIONS AND BECOME FAMILIAR WITH ALL PARTS OF THIS MACHINE. REMOVE ALL WIRE AND BINDING MATERIAL AND ARRANGE ALL LOOSE PARTS IN AN ORDERLY MANNER.

STEP II: ASSEMBLE "A" FRAME

- a.) BOLT LEFT AND RIGHT HAND YOKE BARS (ITEMS 1 & 2, PAGE 24) TO BASE FRAME WITH HITCH PIN AND STOPNUT (ITEMS 5 & 6, PAGE 24) ALSO BOLT AND LOCKNUT (ITEMS 11 & 12, PAGE 24).
- b.) ATTACH SLOTTED LINKS (ITEM 7, PAGE 24) TO YOKE BARS WITH BOLTS AND LOCKNUTS (ITEMS 8 & 9, PAGE 24). ROUND HOLES IN LINKS SHOULD BE TO FRONT OF MOWER AND SLOTS TO THE REAR. CENTER BUSHING (ITEM 4, PAGE 24) AS SHOWN.
- c.) ATTACH A-FRAME BRACE SUPPORTS (ITEM 3, PAGE 24) TO YOKE BARS WITH BOLTS AND LOCKNUTS (ITEMS 8 & 9, PAGE 24).

STEP III: ASSEMBLE TAIL WHEEL ASSEMBLY

- a.) ATTACH CASTER FORK AND WHEEL TO TAIL WHEEL TUBE WELDMENT AS SHOWN ON (PAGE 25).
- b.) ATTACH TAIL ASSEMBLY TO BSE FRAME WITH BOLTS, LOCKWASHERS, AND NUTS (ITEMS 2,3, AND 4, PAGE 25).

STEP IV: ATTACH DRIVESHAFT TO GEARBOX WITH BOLTS, (ITEM 5, PAGE 19).

PULL MODEL ASSEMBLY INSTRUCTIONS

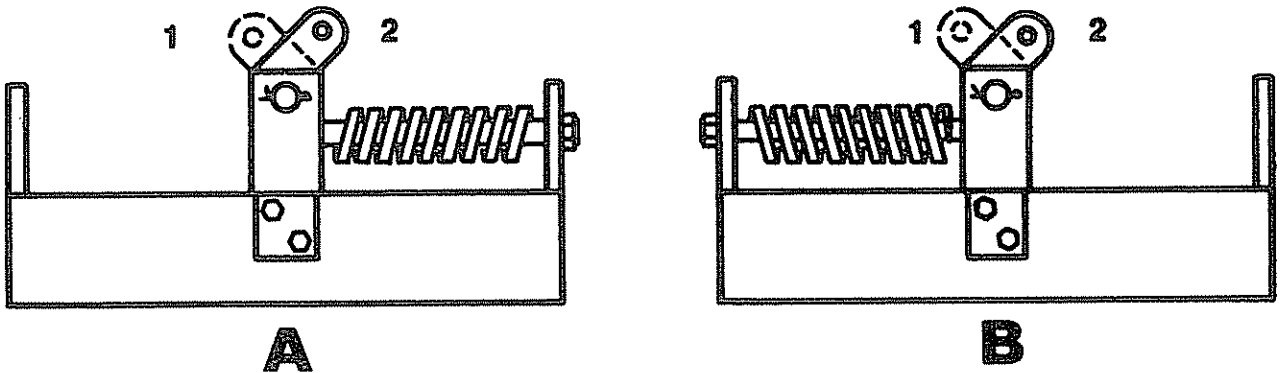
YOUR TK-80 PULL MODEL HAS BEEN PACKAGED FOR SHIPMENT IN CONFORMANCE WITH ICC REGULATIONS TO PROVIDE THE LOWEST POSSIBLE TRANSPORTATION COST AND THE ABSOLUTE MINIMUM ASSEMBLY NECESSARY BEFORE USE. FOR QUICK AND EASY ASSEMBLY USE THE FOLLOWING STEP BY STEP INSTRUCTIONS.

STEP I: READ ENTIRE ASSEMBLY INSTRUCTIONS AND BECOME FAMILIAR WITH ALL PARTS OF THIS MACHINE. REMOVE ALL WIRE AND BINDING MATERIAL AND ARRANGE ALL LOOSE PARTS IN AN ORDERLY MANNER.

STEP II: ATTACH TONGUE ASSEMBLY TO BASE FRAME WITH BOLTS AND NUTS (ITEMS 4 & 5, PAGE 26).

STEP III: ATTACH AXLE ASSEMBLY (REF. PAGE 28) AND SHOCK ABSORBER ASSEMBLY (REF. PAGE 27) TO BASE ASSEMBLY.

NOTE: WHEN AXLE ASSEMBLY IS ATTACHED SO THAT WHEELS TRAIL CUTTER, THE SHOCK ABSORBER SPRING MUST BE ORIENTED TO THE FRONT OF THE LINK AS SHOWN IN ILLUSTRATION "A". WHEN AXLE ASSEMBLY IS ATTACHED SO THAT WHEELS ARE IN THE SIDE POSITION, THE SHOCK ABSORBER SPRING MUST BE ORIENTED TO THE BACK OF LINK AS SHOWN IN ILLUSTRATION "B".



A. SIDE MOUNTED WHEELS

1. SMALL TIRES ARE USED-LINK WELDMENT FACING REAR.
2. LARGE TIRES ARE USED-LINK WELDMENT FACING TRACTOR.

B. REAR MOUNTED WHEELS

1. SMALL TIRES ARE USED-LINK WELDMENT FACING REAR.
2. LARGE TIRES ARE USED-LINK WELDMENT FACING TRACTOR.

STEP IV: ATTACH AXLE ARM WELDMENT (ITEM 24, PAGE 15) TO AXLE ASSEMBLY.

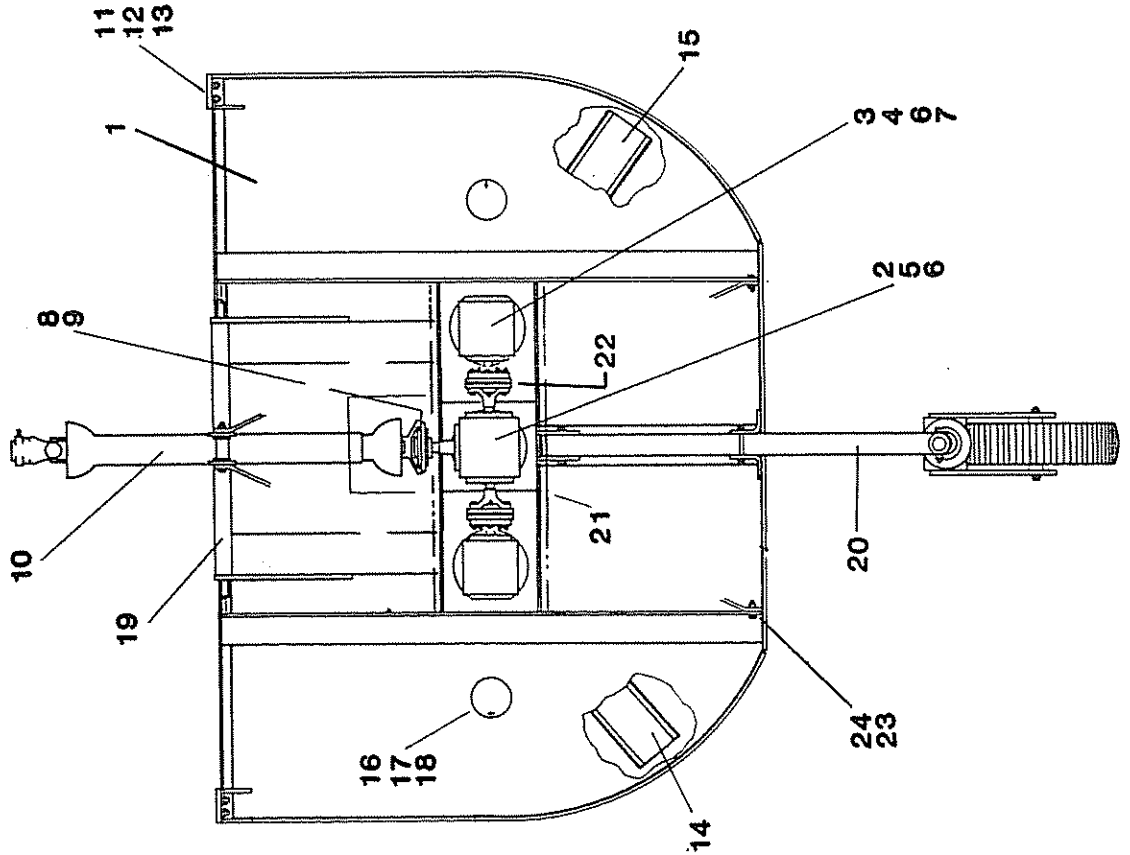
STEP V: ATTACH RATCHET JACK ASSEMBLY (REF. PAGE 30) TO SHOCK ABSORBER ASSEMBLY AND AXLE ASSEMBLY.

STEP VI: ATTACH DRIVESHAFT TO GEARBOX WITH BOLTS (ITEM 5 PAGE 19).

STEP VII: ATTACH DRIVESHAFT SAFETY SHIELD ASSEMBLY TO GEARBOX AND FRAME AS ILLUSTRATED ON PAGE 22.

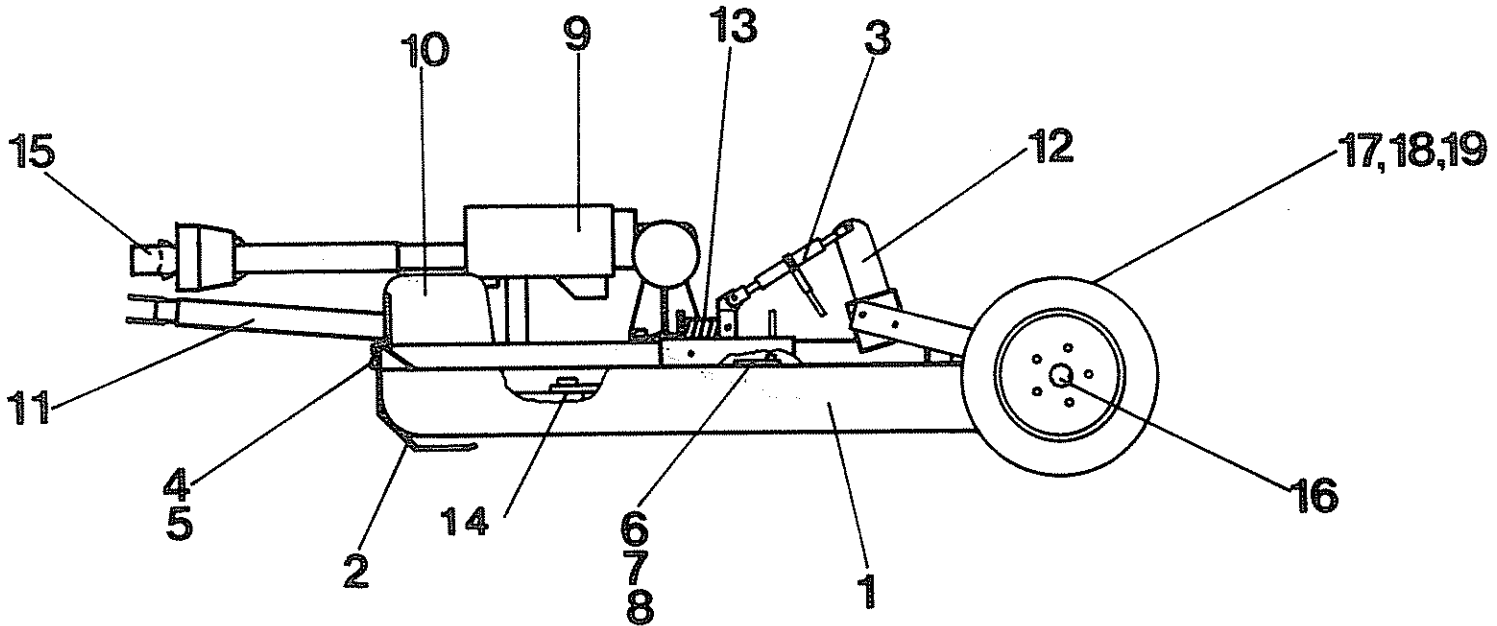
BASE ASSEMBLY LIFT MODEL

P/n 00753149



ITEM	PART NO.	DESCRIPTION	QTY
1	00753150	TK-80 FRAME WELDMENT	1
2	00752410	DIVIDER GEARBOX	1
3	00752433	GEARBOX	2
4	00008300	BOLT	8
5	00752824	BOLT	4
6	00010300	LOCKWASHER	12
7	00010400	NUT	8
8	00752897	SLIP CLUTCH	1
9	00752903	BOLT	2
10	-----	DRIVESHAFT	1
11	00748500	SKID SHOE	2
12	00607900	BOLT	4
13	00019400	NUT	4
14	00752445	BLADE ASSEMBLY (CCW)	1
15	00752450	CLOCKWISE BLADE ASSEMBLY	1
16	00747600	INSPECTION COVER PLATE	2
17	00004000	NUT	2
18	00017000	LOCKWASHER	2
19	-----	"A" FRAME ASSEMBLY	1
20	-----	TAIL WHEEL ASSEMBLY	1
21	00753154	SAFETY SHIELD ASSY.	1
22	00753161	FLEXIBLE COUPLING	2
23	02892100	BOLT	2
24	00037200	NUT	2
OPTIONAL EQUIPMENT (not illustrated)			
	00753162	FRONT CHAIN GUARD ASSEMBLY	
	00753165	REAR CHAIN GUARD ASSEMBLY	
	00753168	HD FRONT CHAIN GUARD ASSEMBLY	
	00753171	HD REAR CHAIN GUARD ASSEMBLY	

BASE ASSEMBLY PULL MODEL
p/n 00753149

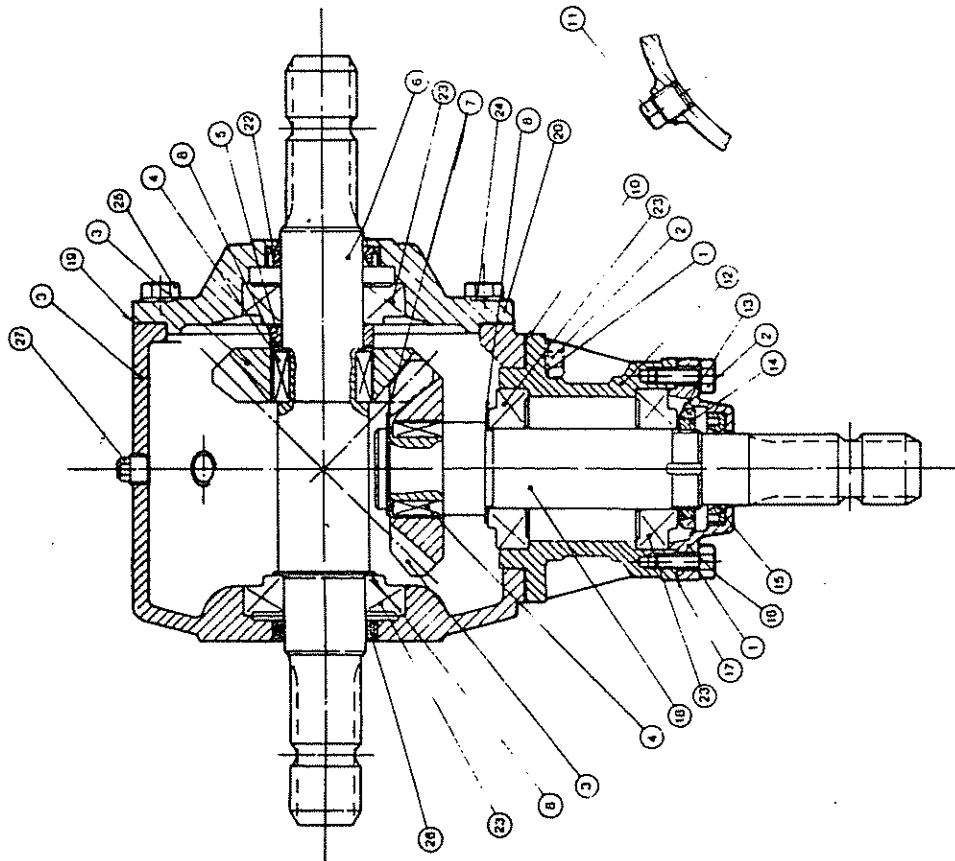


ITEM	PART NO.	DESCRIPTION	QTY
1	00753150	FRAME WELDMENT	1
2	00748500	SKID SHOE	1
3	00554600	RATCHET JACK	1
4	00607900	BOLT	4
5	00019400	NUT	4
6	00747600	COVER PLATE	2
7	00004000	NUT	2
8	00017000	LOCKWASHER	2
9	00753154	SAFTEY SHIELD ASSEMBLY	1
10	00752478	PULL HITCH PLATE	2
11	00753748	TONCUE ASSEMBLY	1
12	00752780	AXLE ARM ASSEMBLY	1
13	00752593	SHOCK ABSORBER ASSEMBLY	1
14	00752445	BLADE ASSEMBLY (CCW)	1
	00752450	BLADE ASSEMBLY (CLOCKWISE)	1
15	00752979	DRIVESHAFT w/SLIPCLUTCH	1
16	00752753	WHEEL HUB ASSEMBLY	2
17	00025200	TIRE AND WHEEL ASSEMBLY	2
18	00019200	RIM 14" OPTIONAL	2
19	00008700	RIM 15" OPTIONAL	2

OPTIONAL EQUIPMENT (not illustrated)

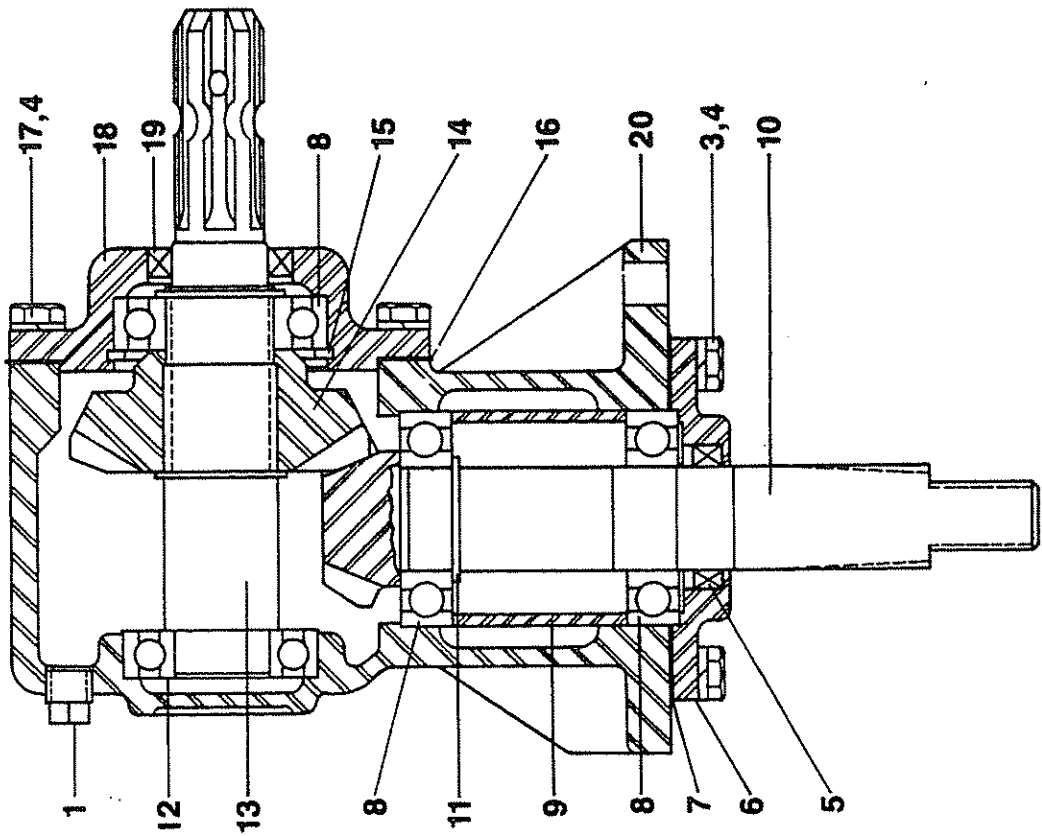
00753162	FRONT CHAIN GUARD ASSEMBLY
00753165	REAR CHAIN GUARD ASSEMBLY
00753168	HD FRONT CHAIN GUARD ASSEMBLY
00753171	HD REAR CHAIN GUARD ASSEMBLY

DIVIDER GEARBOX p/n 00752410



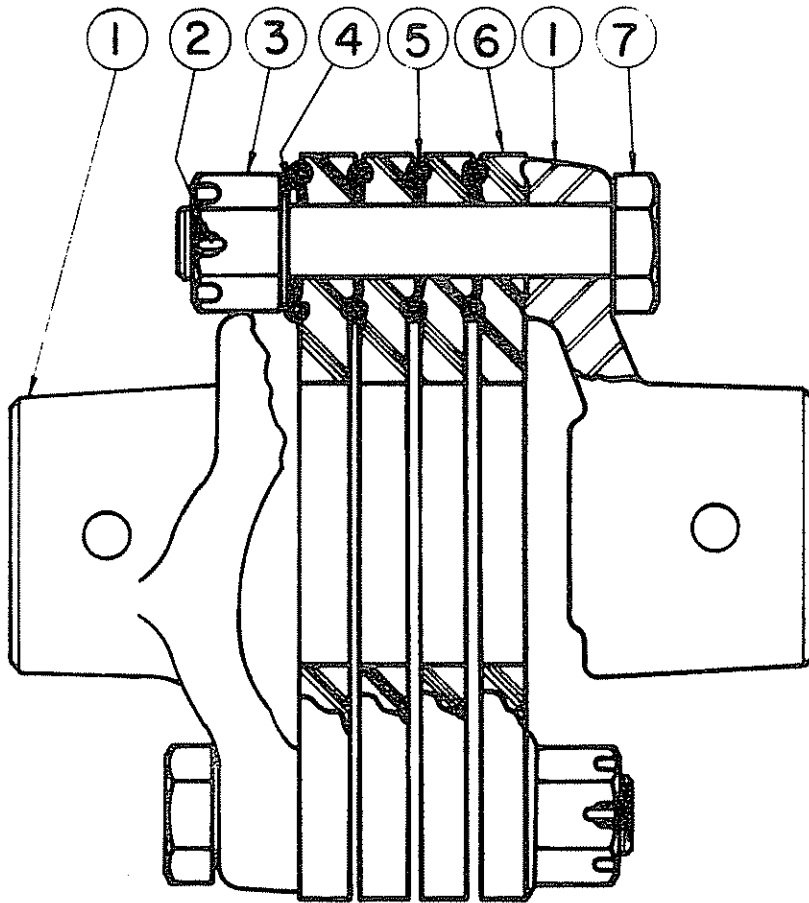
ITEM	PART NO.	DESCRIPTION	QTY
1	00753722	SPRING WASHER	12
2	00753733	CAP SCREW	12
3	00752914	CROWN	2
4	00753724	TANG	4
5	00752924	SPACER RING	1
6	00752913	SHAFT	1
7	00752927	OUTSIDE CIRCLIP	1
8	00753725	THICKNESS	4
9	00752908	CASING	1
10	00752933	GASKET	1
11	00752931	OIL DRAIN PLUG	1
12	00752911	EXTENSION HUB	1
13	00752926	SPR. WASHER	1
14	00752925	NUT	1
15	00752922	OIL SEAL	1
16	00753726	COVER	1
17	00752930	GASKET	1
18	00752912	SHAFT	1
19	00752932	GASKET	1
20	00752909	COVER	1
21	00752934	OIL FILLER PLUG	1
22	00752923	OIL SEAL	1
23	00752916	BEARING	4
24	00752929	SPRING WASHER	8
25	00752928	CAP SCREW	8
26	00753727	OIL SEAL	1
27	00753728	LEVEL WARNING	1

SIDE GEARBOX p/n 00752433



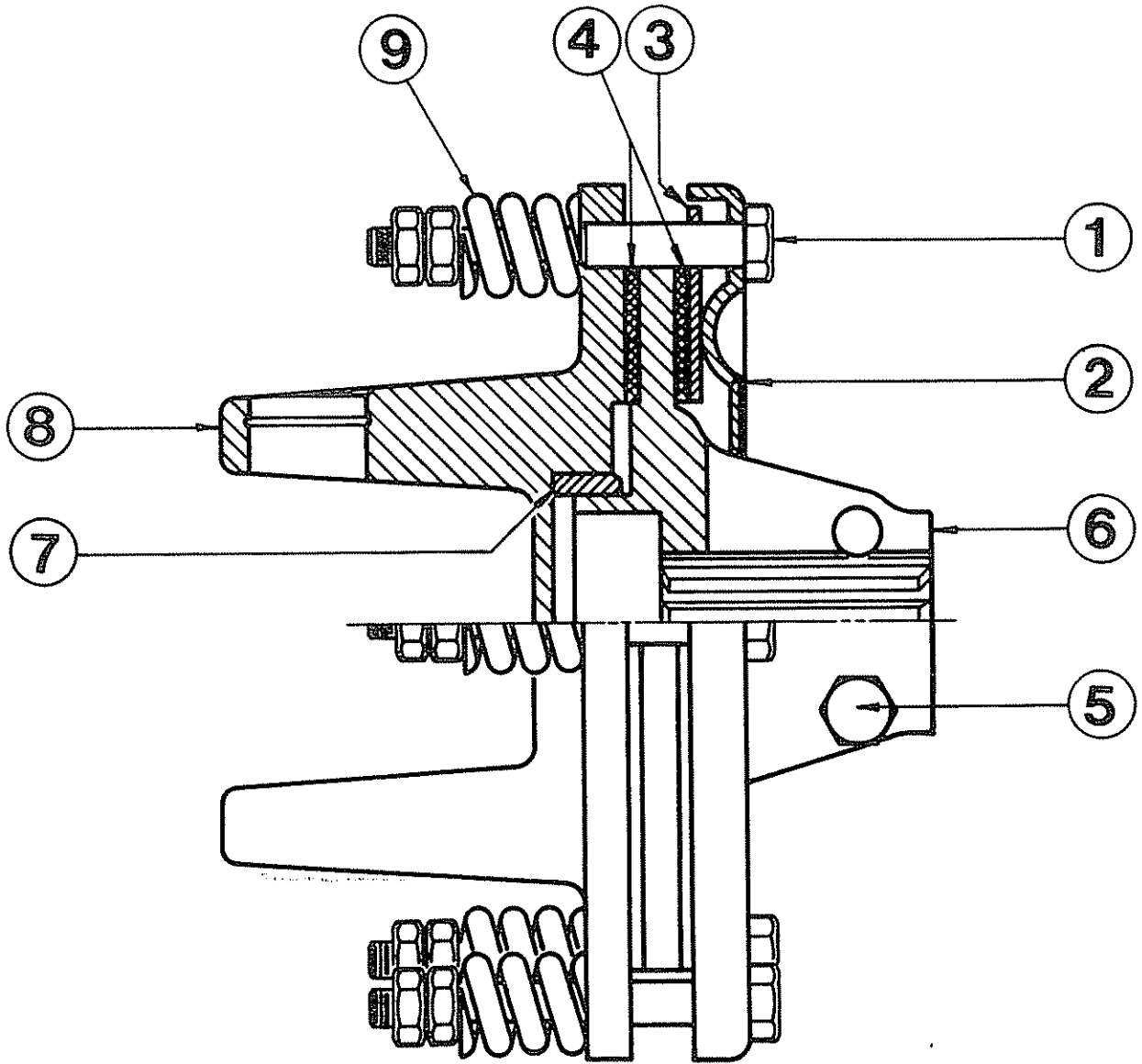
ITEM	PART NO.	DESCRIPTION	QTY
1	00564900	PIPE PLUG	1
2	00565000	PIPE PLUG (NOT SHOWN)	1
3	00563200	BOLT	4
4	02161100	LOCKWASHER	10
5	00563500	OIL SEAL	1
6	00563400	BEARING RETAINER CAP	1
7	00563600	GASKET	1
8	00563700	BALL BEARING	3
9	00563800	SPACER	1
10	00752480	OUTPUT PINION	1
11	00564100	RETAINING RING	3
12	00564800	BALL BEARING	1
13	00752479	INPUT SHAFT	1
14	00752481	INPUT GEAR	1
15	00564500	RETAINING RING	1
16	00564400	SHIM	(as required)
17	00563300	BOLT	6
18	00564300	SIDE HOUSING	1
19	00564200	OIL SEAL	1
20	00563900	MAIN HOUSING	1

FLEXIBLE COUPLING p/n 00753161



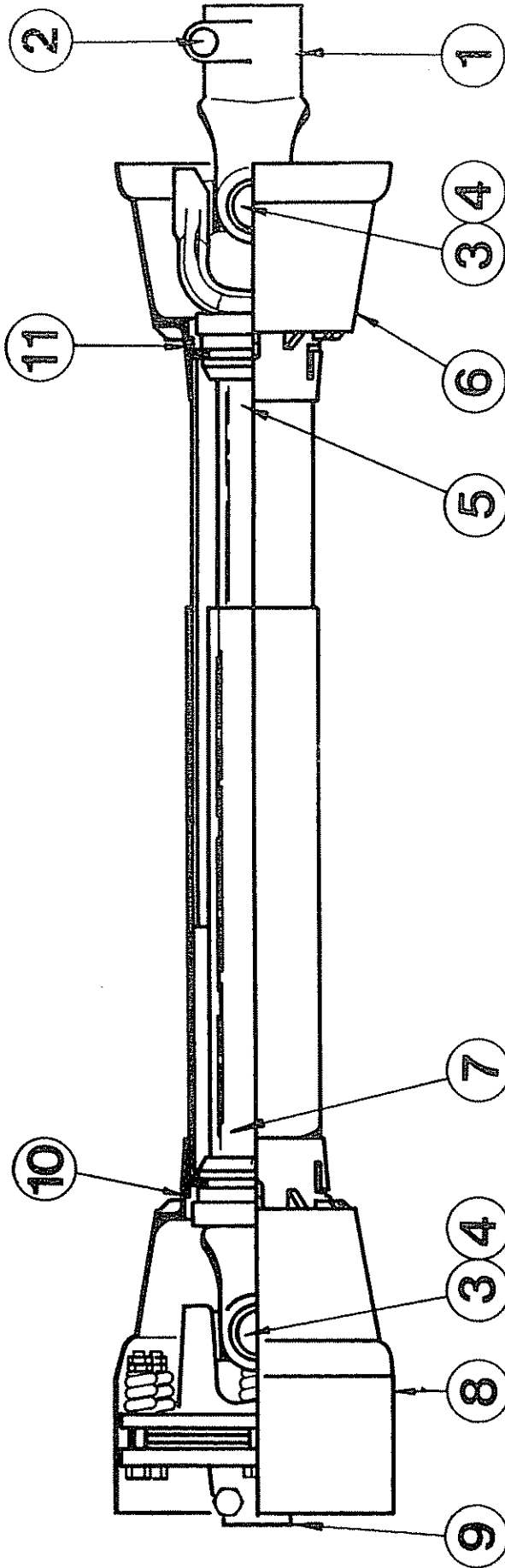
ITEM	PART NO.	DESCRIPTION	QTY
1	00750263	SPIDER FLEX COUPLER	2
2	00026200	COTTER PIN	6
3	00748742	NUT	6
4	00750996	WASHER	6
5	00749760	WASHER, BEADED	24
6	00749172	DISC	4
7	00753797	BOLT	6

SLIPCLUTCH p/n 00752897



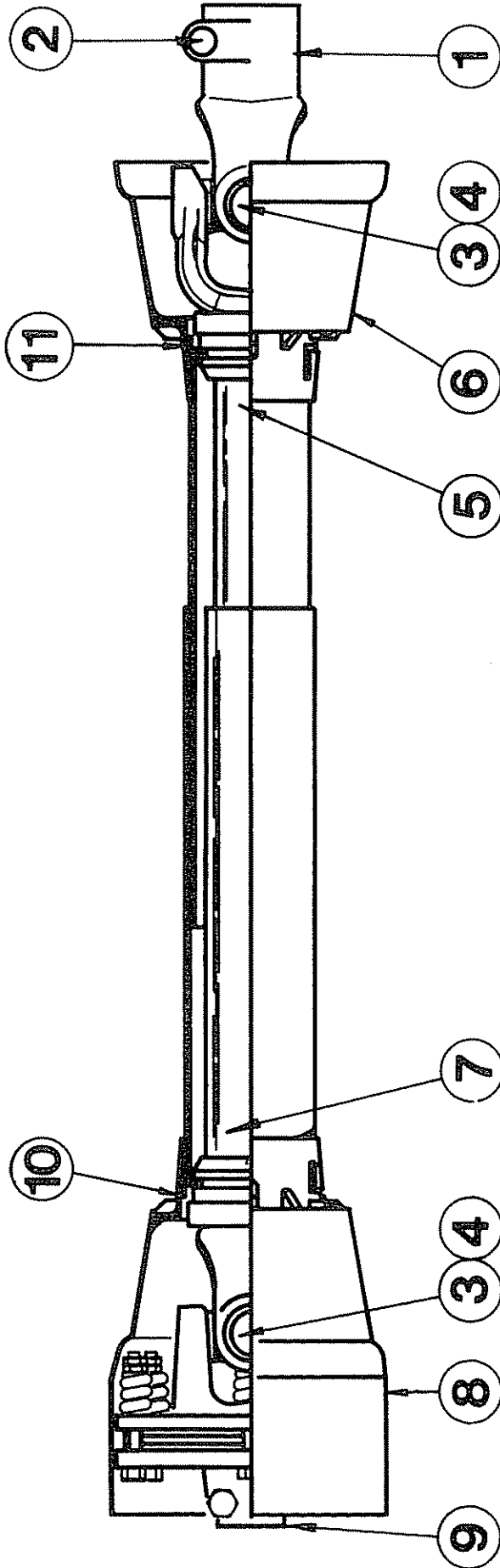
ITEM	PART NO.	DESCRIPTION	QTY
1	00752898	NUT AND BOLT	8
2	00752899	PRESSURE PLATE	1
3	00752901	INNER PLATE	1
4	00752902	LINING	2
5	00752903	NUT, BOLT AND WASHER	2
6	00752904	BRAKE LINING SUPPORT	1
7	00752907	COLLAR	1
8	00752905	FLANGE YOKE	1
9	00752906	SPRING	8

TK-80 LIFT DRIVESHAFT p/n 00752978



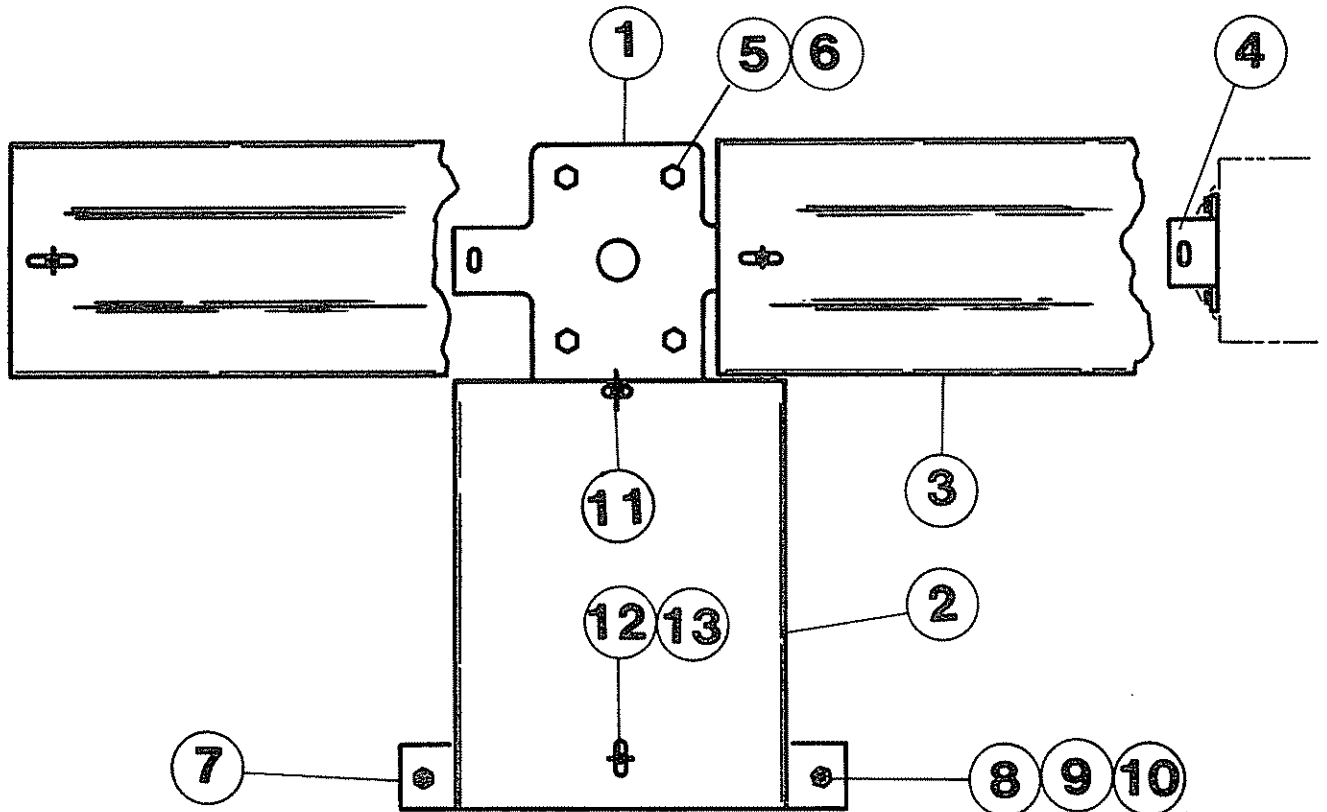
ITEM	PART NO.	DESCRIPTION	QTY
1	00752883	OUTER YOKE	1
2	00752880	PUSH PIN SET	1
3	00752896	CROSS BEARING	2
4	00752874	RETAINING RING	8
5	00752882	INNER TUBE WITH YOKE	1
6	00752884	INNER SAFETY GUARD	1
7	00752885	OUTER TUBE WITH YOKE	1
8	00752886	OUTER SAFETY GUARD	1
9	00752897	SLIP CLUTCH	1
10	00752975	RETAINING GUARD COLLAR (OUTER TUBE)	1
11	00752976	RETAINING GUARD COLLAR (INNER TUBE)	1
12	00752881	ZERK FITTING	2

TK-80 PULL DRIVESHAFT p/n 00752979



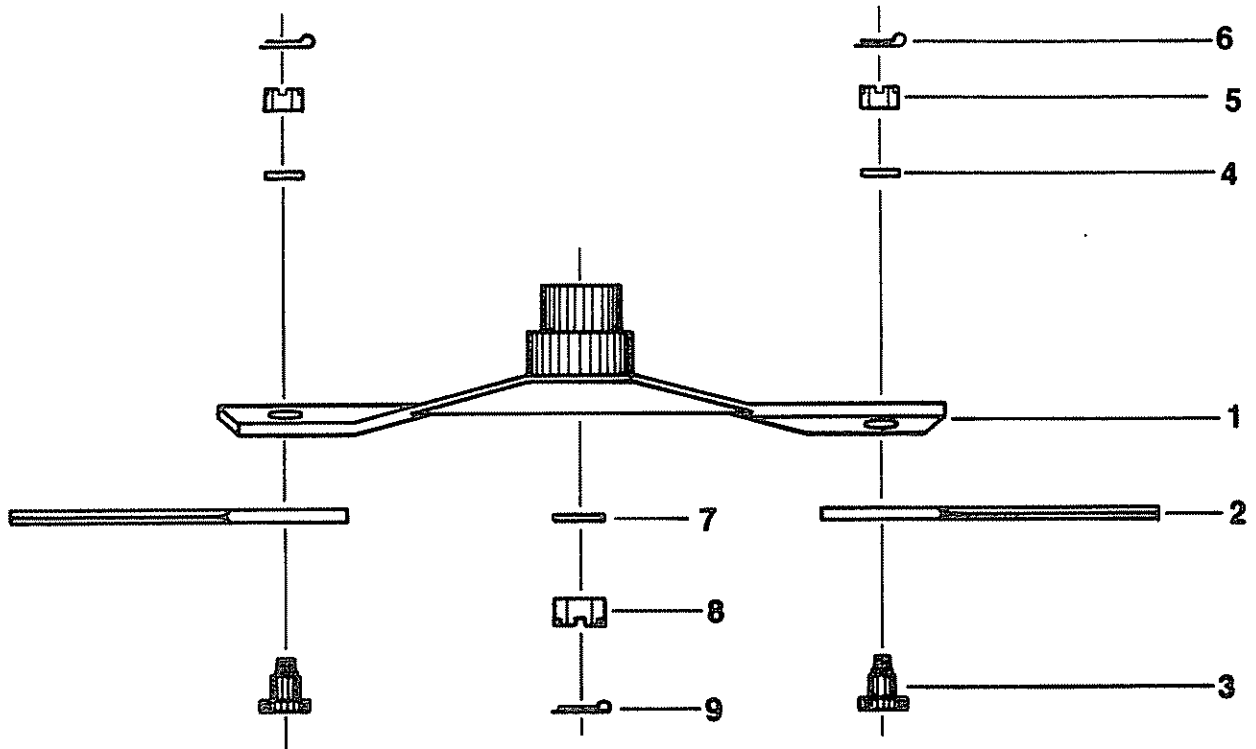
ITEM	PART NO.	DESCRIPTION	QTY
1	00752883	OUTER YOKE	1
2	00752880	PUSH PIN SET	1
3	00752896	CROSS BEARING	2
4	00752874	RETAINING RING	8
5	00752966	INNER TUBE WITH YOKE	1
6	00752967	INNER SAFETY GUARD	1
7	00752968	OUTER TUBE WITH YOKE	1
8	00752969	OUTER SAFETY GUARD	1
9	00752897	SLIP CLUTCH	1
10	00752975	RETAINING GUARD COLLAR (OUTER TUBE)	1
11	00752976	RETAINING GUARD COLLAR (INNER TUBE)	1
12	00752881	ZERK FITTING	2

DRIVESHAFT SAFETY SHIELD ASSEMBLY p/n 00753154



ITEM	PART NO.	DESCRIPTION	QTY
1	00752441	MOUNT SAFETY SHIELD - CENTER	1
2	00752442	SAFTEY SHIELD - SLIP CLUTCH	1
3	00753155	SAFTEY SHIELD - FLEX COUPLING	2
4	00752444	MOUNT PLATE	2
5	00752824	BOLT	4
6	00001400	FLATWASHER	4
7	00752459	STRAP	1
8	00022200	LOCKWASHER	4
9	00019700	FLATWASHER	4
10	00999316	NUT	4
11	00751685	CLIP	1
12	00751588	THUMBSCREW	6
13	00752536	NUT	5

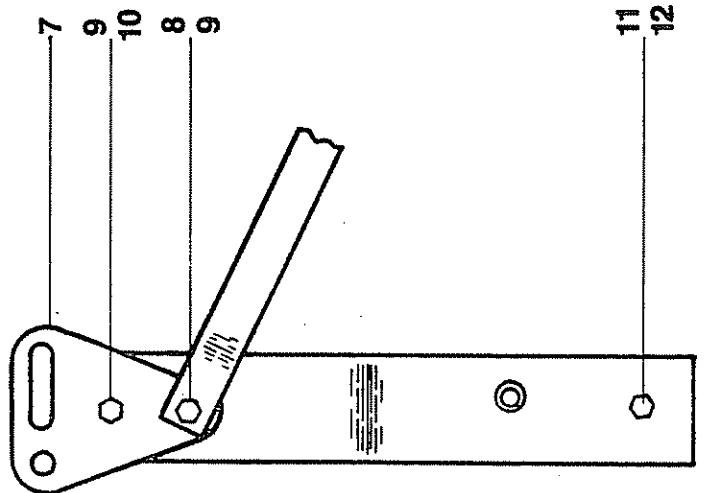
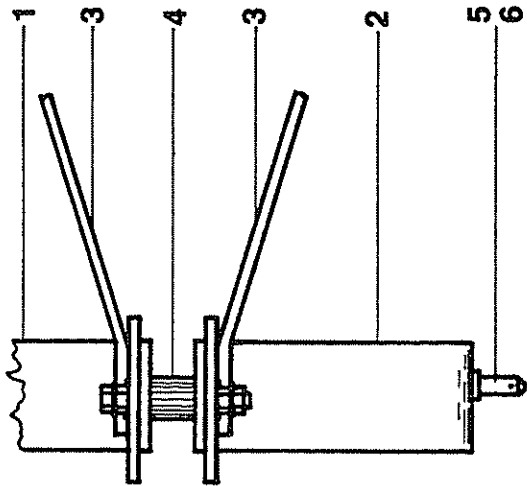
BLADE BAR ASSEMBLY
Clkwise p/n 00752450 Cntrclkwise p/n 00752445



ITEM	PART NO.	DESCRIPTION	QTY
1	00752448	BLADE BAR WELDMENT - CLOCKWISE	1
	00752446	BLADE BAR WELDMENT - COUNTERCLKWISE	1
2	00127028	BLADE	2
3	00127700	BLADE BOLT	2
4	00137200	FLATWASHER	2
5	00017200	NUT	2
6	00000400	COTTER PIN	2
7	00748547	FLATWASHER	REF-1
8	00606100	NUT	REF-1
9	00606000	COTTER PIN	REF-1

A-FRAME ASSEMBLY

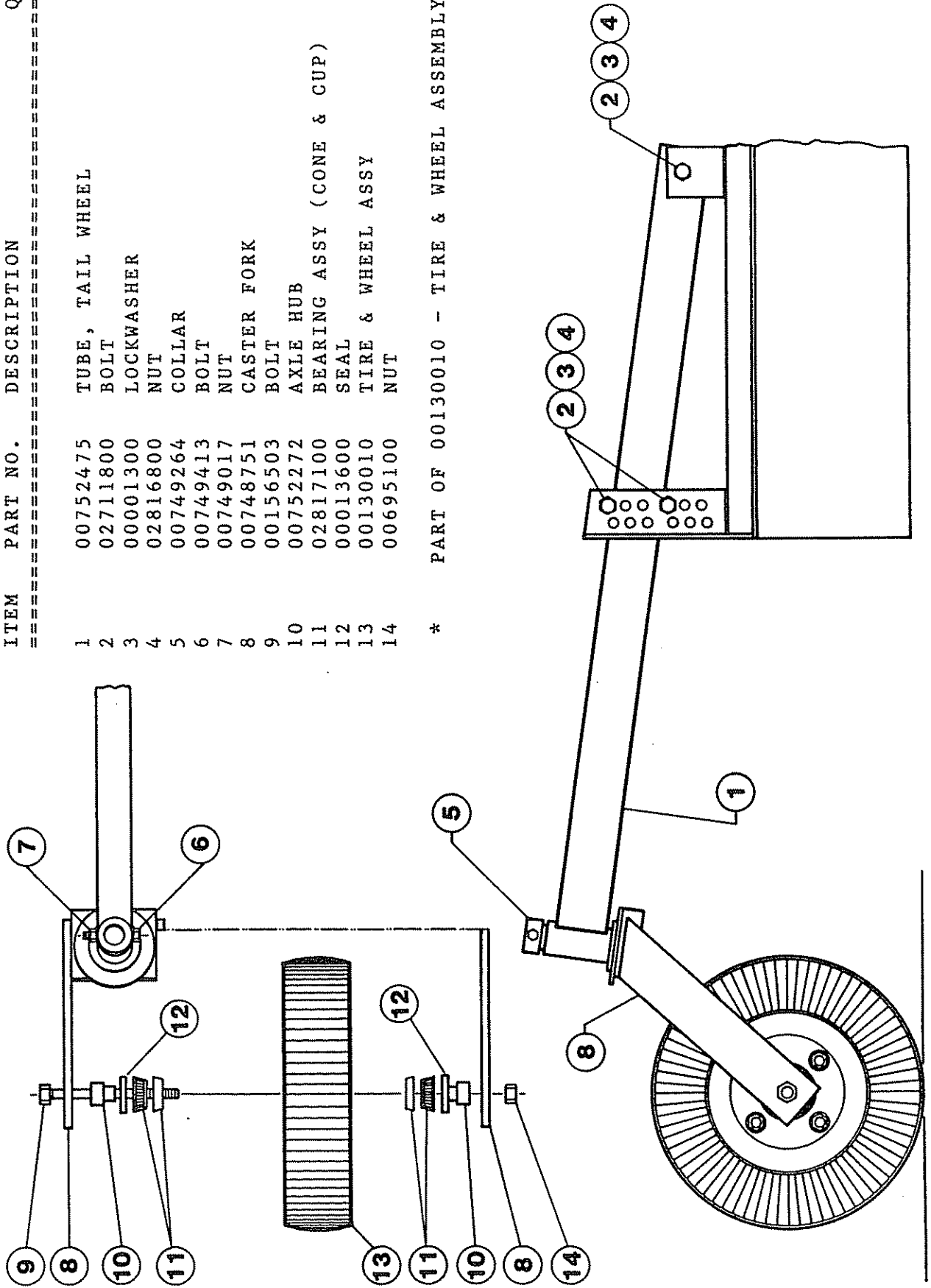
ITEM	PART NO.	DESCRIPTION	QTY
1	00749927	YOKE BAR WELDMENT RIGHT HAND	1
2	00749926	YOKE BAR WELDMENT LEFT HAND	1
3	00753157	A-FRAME BRACE SUPPORT	1
4	00748569	BUSHING	2
5	00748100	HITCH PIN (CAT. II)	2
6	00603500	HITCH PIN (CAT. I)	2
7	00747500	STOPNUT	2
8	00749857	SLOTTED LINK (CAT. II)	2
9	00748786	BOLT	1
10	00037200	LOCKNUT	2
11	00748598	BOLT	1
12	00603300	BOLT	2
13	00749136	LOCKNUT	2



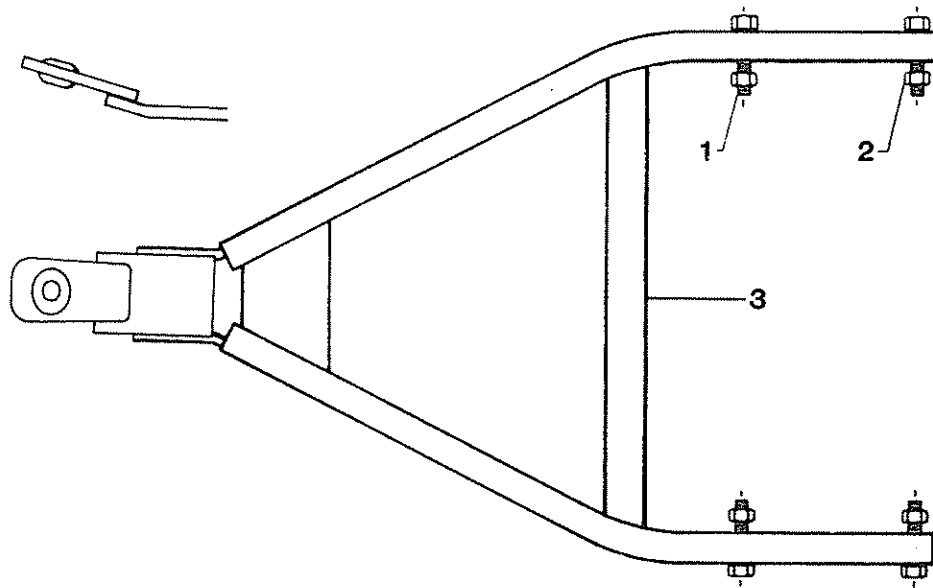
TAILWHEEL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	00752475	TUBE, TAIL WHEEL	1
2	02711800	BOLT	3
3	00001300	LOCKWASHER	3
4	02816800	NUT	3
5	00749264	COLLAR	1
6	00749413	BOLT	1
7	00749017	NUT	1
8	00748751	CASTER FORK	1
9	00156503	BOLT	1
10	00752272	AXLE HUB	2
11	02817100	BEARING ASSY (CONE & CUP)	*
12	00013600	SEAL	*
13	00130010	TIRE & WHEEL ASSY	1
14	00695100	NUT	1

* PART OF 00130010 - TIRE & WHEEL ASSEMBLY

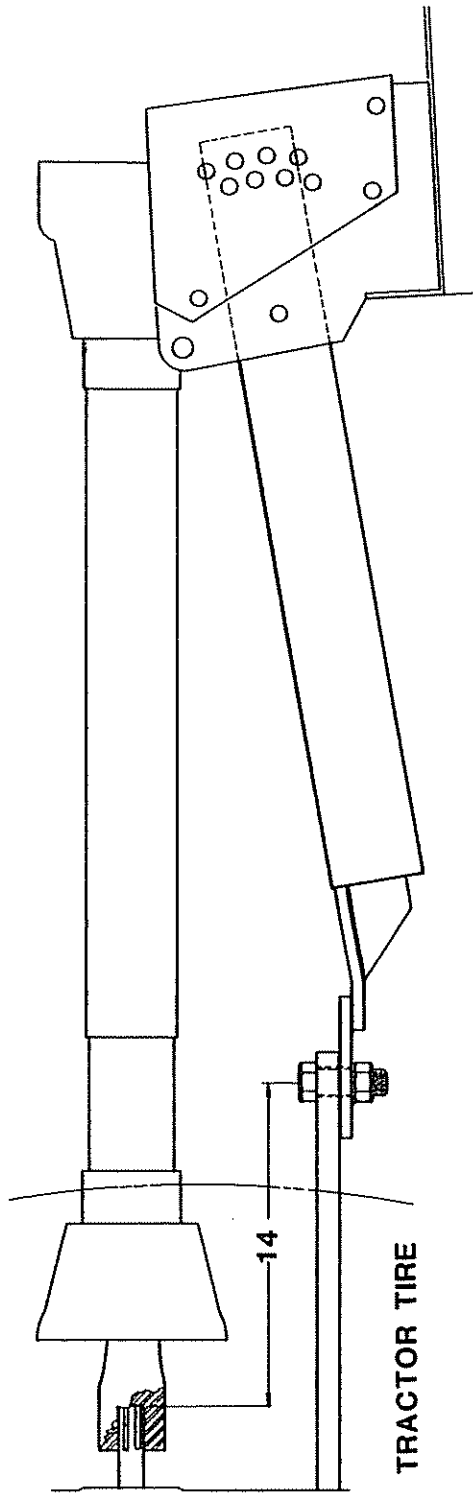


TONGUE ASSEMBLY

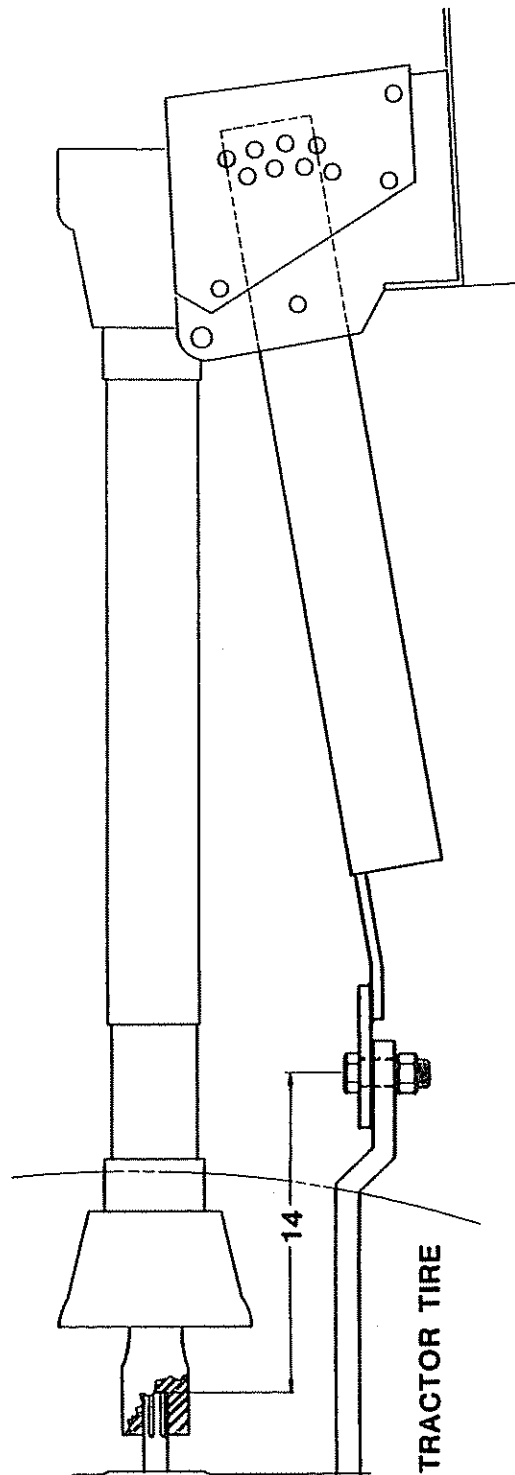


ITEM	PART NO.	DESCRIPTION	QTY
1	00008300	BOLT	4
2	00695100	LOCKNUT	4
3	00748803	TONGUE WELDMENT	1

TK-80 TONGUE MOUNTING INSTRUCTIONS

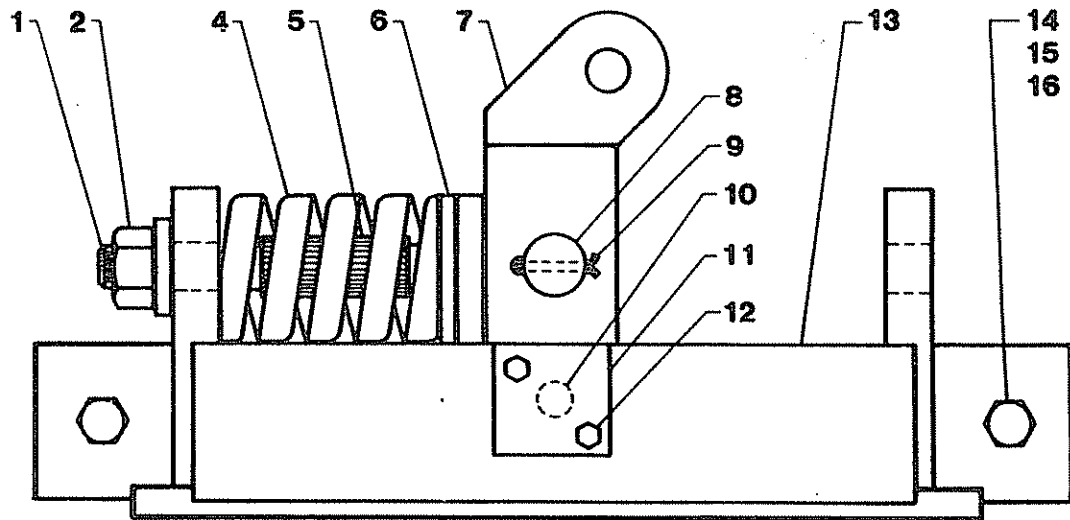


FOR STRAIGHT DRAWBAR BOLT TONGUE UNDER DRAWBAR



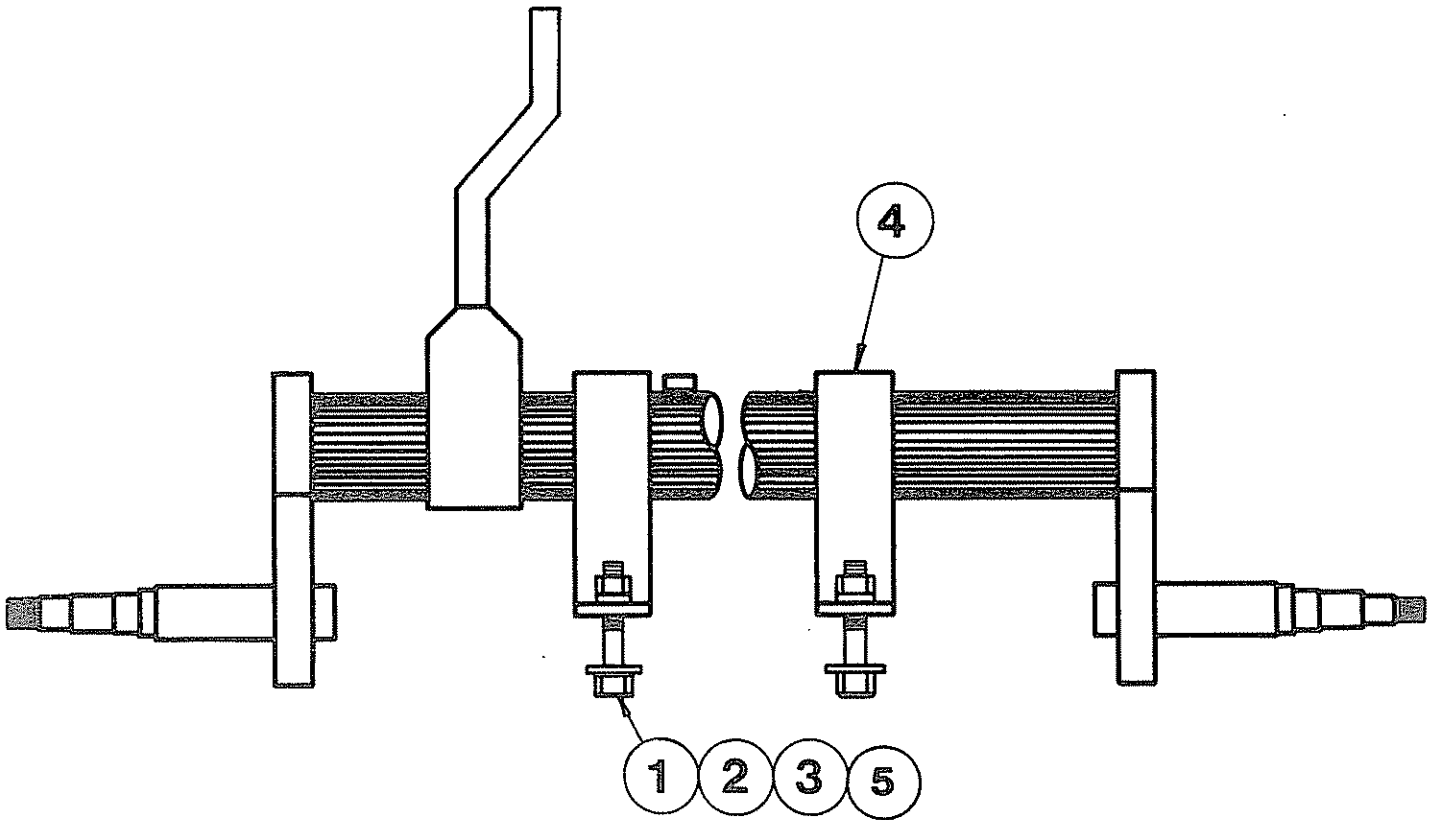
FOR DROP DOWN DRAWBAR BOLT TONGUE ON TOP OF DRAWBAR

SHOCK ABSORBER ASSEMBLY p/n 00748583



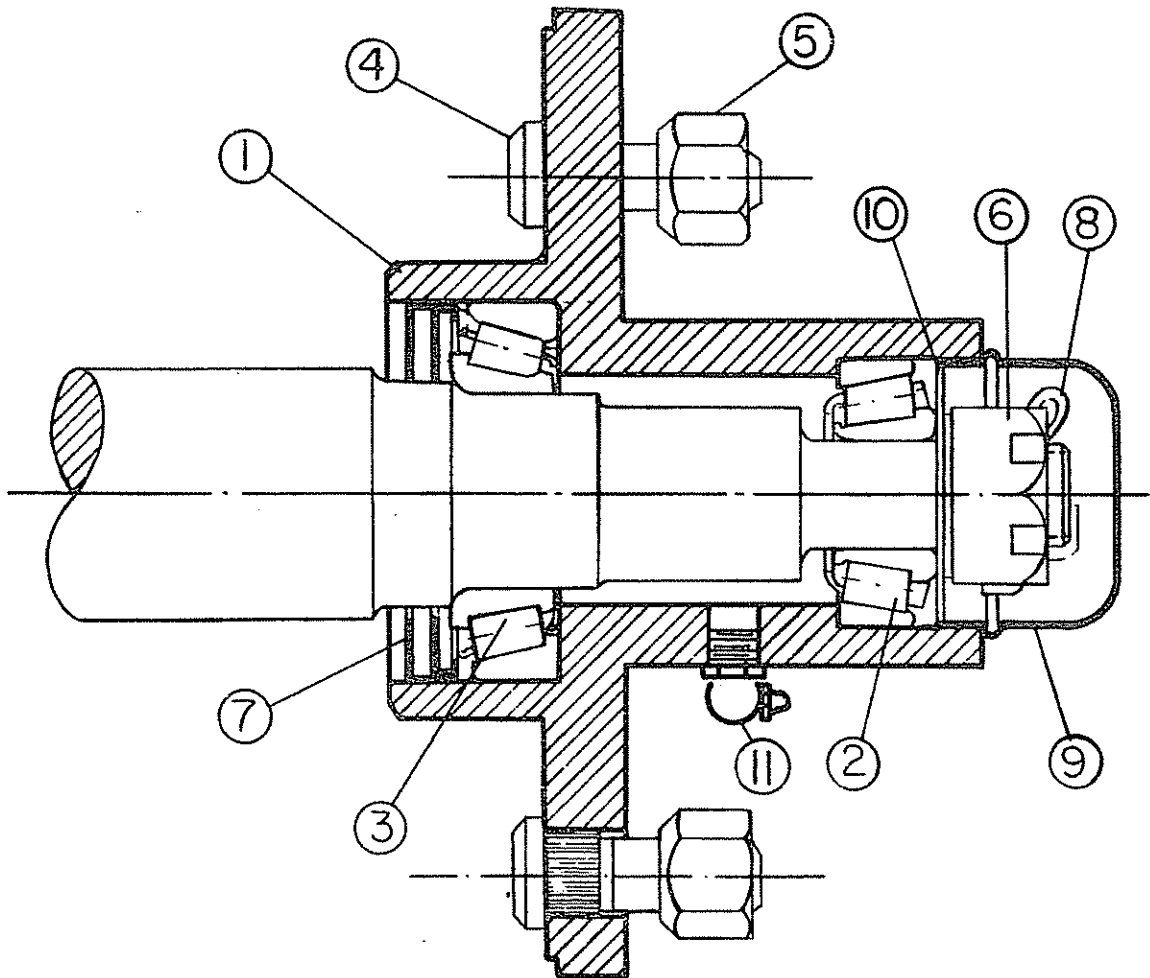
ITEM	PART NO	DESCRIPTION	QTY
1	00748588	SHOCK ABSORBER	1
2	02030300	NUT	1
4	00750739	SPRING	1
5	00749168	BUSHING	1
6	00749946	WASHER	1
7	00748593	LINK ASSEMBLY	1
8	00748813	CENTER PIN	1
9	00000400	COTTER PIN	2
10	00748811	PIN	1
11	00748812	LOCKING PLATE	1
12	00002000	BOLT	2
13	00748584	SHOCK ABSORBER WELDMENT	1
14	00748823	BOLT	2
15	00001200	NUT	2
16	00001300	LOCKWASHER	2

AXLE ASSEMBLY



ITEM	PART NO.	DESCRIPTION	QTY
1	00748823	BOLT	4
2	00001300	LOCKWASHER	4
3	00001200	NUT	4
4	00752779	AXLE WELDMENT	1
5	00002700	LOCKWASHER	8

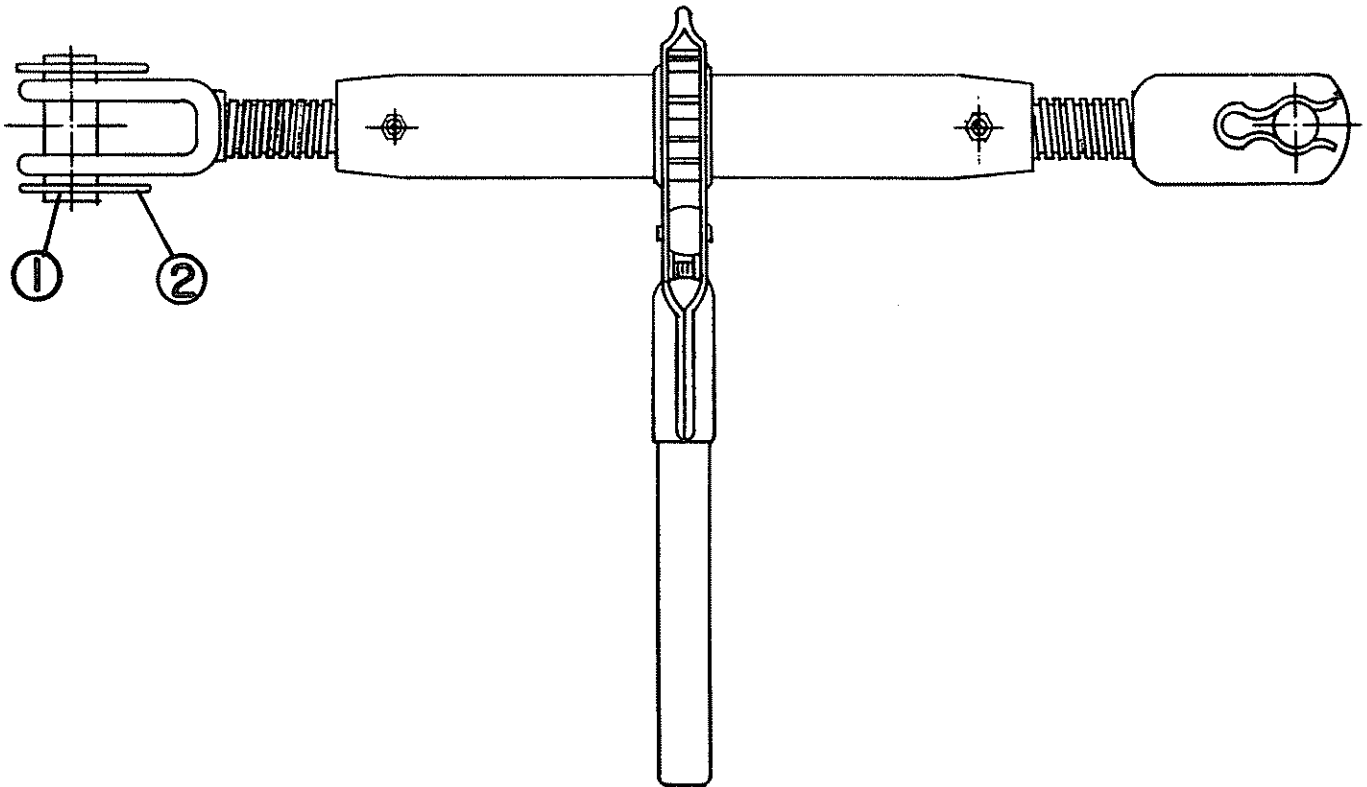
HUB ASSEMBLY



ITEM	PART NO.	DESCRIPTION	QTY
1	00752752	WHEEL HUB W/CUPS, STUDS, NUTS AND ZERK FITTING	1
2	00753721	BEARING CONE AND CUP ASSY.	1
3	00753720	BEARING CONE AND CUP ASSY.	1
4	00752177	STUD BOLT	5
5	00750614	NUT	5
6	00750615	NUT	1
7	00750616	SEAL	1
8	00000400	COTTER PIN	1
9	00752751	DUST CAP	1
10	00750618	WASHER	1
11	00752176	ZERK FITTING	1

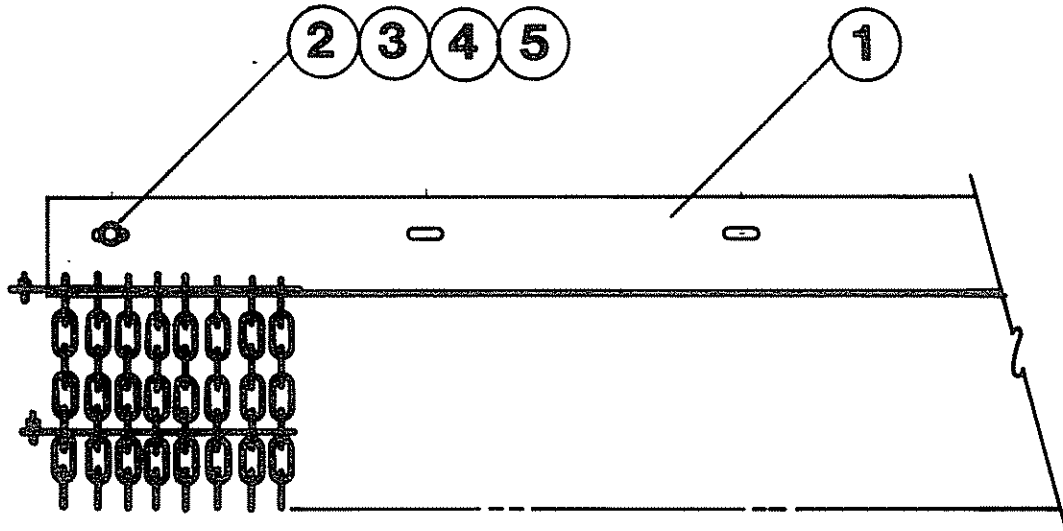
RATCHET JACK ASSEMBLY

p/n 00554600



ITEM	PART NO	DESCRIPTION	QTY
1	00748714	PIN	2
2	00748715	CLIP	4

CHAIN GUARD ASSEMBLIES



ITEM	PART NO	DESCRIPTION	QTY
=====			
1	00753162	FRONT CHAIN GUARD ASSEMBLY	1
	00753165	REAR CHAIN GUARD ASSEMBLY	1
	00753168	FRONT DOUBLE CHAIN GUARD ASSEMBLY	1
	00753171	REAR DOUBLE CHAIN GUARD ASSEMBLY	1
2	00999315	BOLT - FRONT CHAIN GUARD	6
		BOLT - REAR CHAIN GUARD	5
3	00019700	WASHER - FRONT CHAIN GUARD	12
		WASHER - REAR CHAIN GUARD	10
4	00022200	LOCKWASHER - FRONT CHAIN GUARD	6
		LOCKWASHER - REAR CHAIN GUARD	5
5	00999316	NUT - FRONT CHAIN GUARD	6
		NUT - REAR CHAIN GUARD	5

