# HD SERIES

## ROTARY CUTTER OWNERS MANUAL

SCL560-HD

SCL660-HD

SCL760-HD

## SAFETY PRECAUTIONS

DUE TO THE TYPE OF PERFORMANCE FOR WHICH THIS MACHINE WAS DESIGNED, THE OPERATOR SHOULD BE VERY CAREFUL AND PRACTICE ALL SAFETY PRECAUTIONS DURING OPERATION. BEING OF BASIC DESIGN THROUGHOUT THE FARM EQUIPMENT INDUSTRY, ROTARY CUTTERS HAVE FAST MOVING BLADES THAT CAN THROW OBJECTS THAT THE OPERATOR RUNS OVER. IT IS POSSIBLE TO DO SERIOUS INJURY TO YOURSELF OR TO OTHERS, IF YOU FAIL TO READ AND PRACTICE THE FOREGOING SAFETY RULES. ONLY EXPERIENCED AND TRAINED OPERATORS WITH A THROUGH UNDERSTANDING OF THE RESPONSIBILITIES AND LIMITATIONS OF THIS MACHINE SHOULD OPERATE IT.

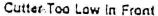
- 1. IMPORTANT READ AND BECOME FAMILIER WITH THE INSTRUCTIONS ON THE ROTARY CUTTER DECALS, THESE DECALS HAVE BEEN PLACED AT VARIOUS PLACES ON THE MACHINE TO REMIND YOU TO BE CAUTIOUS FOR YOUR PROTECTION, AS WELL AS OTHERS.
- 2. BEFORE OPERATING THE ROTARY CUTTER, CAREFULLY INSPECT THE AREA ON WHICH THE ROTARY CUTTER WILL BE USED. BE SURE TO REMOVE ALL OBJECTS THAT MIGHT BE THROWN BY THE ROTATING BLADES. ALSO, NOTE ANY GULLIES, DITCHES, OR ROUGH TERRAIN WHEN YOU ARE INSPECTING THE AREA.
- 3 CHECK THE MACHINE FREQUENTLY TO BE SURE THERE ARE NO LOOSE BOLTS, AND THAT SNAP RINGS ARE IN PLACE.
- 4. ALWAYS USE, AND MAINTAIN IN PLACE, ALL PTO GUARDS FURNISHED WITH THE ROTARY CUTTER, AS WELL AS THE GUARDS FURNISHED WITH THE TRACTOR.
- 5. DISENGAGE THE PTO, AND CUT OFF THE TRACTOR ENGINE BEFORE LEAVING THE TRACTOR.
- 6. IT IS RECOMMENDED THAT THE TRACTOR BE EQUIPPED WITH A ROLL-BAR, AND A SEAT BELT. THIS IS THE OPERATOR'S OWN RESPONSIBILITY FOR HIS SAFETY.
- 7. IT IS NOTED THAT ON TRACTORS WITHOUT "LIVE" PTO, THE CENTRIGUGAL FORCE OF THE ROTATING BLADES WILL TEND TO FORCE THE TRACTOR IN THE DIRECTION OF TRAVEL. THIS CAN RESULT IN AN ACCIDENT, OR INJURY, IF THE OPERATOR DOES NOT REDUCE HIS SPEED BEFORE TURNING, OR ALLOWING ADEQUATE DISTANCE BETWEEN THE TRACTOR AND TURNING POINT, OR OBSTACLE. (YOUR DEALER HAS FREE-WHEEL. OVER-RUNNING COUPLERS, TO CURTAIL THE CENTRIFUGAL FORCE, THE COUPLERS SERVE AS AN ADDED SAFETY DEVICE).
- 8. THE BLADES, AND PTO SHAFT WILL CONTINUE TO ROTATE FOR A SHORT TIME AFTER THE TRACTOR PTO POWER IS CUT OFF. BE SURE ALL ROTATION HAS STOPPED BEFORE ATTEMPTING TO SERVICE THE MACHINE, OR APPROACH IT FOR ANY REASON.
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- 12. TRANSPORT MACHINE AT SAFE SPEED.

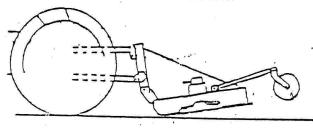
#### OPERATION

THE BIG BEE ROTARY CUTTERS ARE DESIGNED FOR TRACTORS RANGING FROM 16 HP. BE SURE TO MATCH THE SIZE AND MODEL OF CUTTER TO YOUR TRACTOR FOR SAFETY AND RELIABILITY.

- 1. CHECK GEAR BOX FOR LUBRICANT.
- 2. CHECK ALL LUBRICATION POINTS ON PTO SHAFT AND TAIL WHEEL.
- 3. BE SURE ALL BOLTS ARE TIGHT AND SNAP RINGS ARE IN PLACE.
- 4. BE SURE THE ROTARY CUTTER IS PROPERLY MOUNTED ON TRACTOR.
- 5. ADJUST AND LEVEL ROTARY CUTTER FOR DESIRED CUTTING HEIGHT.

#### ADJUSTING LEVEL OF CUTTER ON YOUR TRACTOR

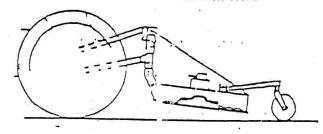




INCORRECT

BLADE TOO HIGH ON SIDES CAUSING SKIPPING AND UNEVEN CUTTING, BLADES BECOME BADLY WORN. BLADE STRIKING GROUND CAUSING SLIP CLUTCH TO SLIP EXCESSIVELY.

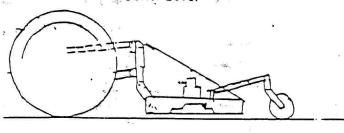
Cutter 100 Low In Rear



INCORRECT

EXCESSIVE WEAR AND TEAR ON ON TAILWHEEL, REAR SKIRT DRAGGING CAUSING BALLING UP PROBLEMS. BLADE TOO HIGH ON SIDES CAUSING SKIP PING AND UNEVEN CUTTING

Culter Lovel



CORRECT

BLADE CUTTING EVENLY WITH GRASS BEING SPREAD EVENLY.

## STARTING FOR THE FIRST TIME

- IF EVERYTHING IS IN PLACE, AND THE ROTARY CUTTER IS PROPERLY CONNECTED TO THE TRACTOR, START THE TRACTOR, AND RAISE THE ROTARY CUTTER SLOWLY, WATCHING THE PTO SHAFT, RAISE AND LOWER THE ROTARY CUTTER UNTIL YOU HAVE POSITIONED THE PTO SHAFT TO THE SHORTEST TELESCOPING POINT. THIS POSITION WILL CHECK THE PTO SHAFT TO MAKE IT IS NOT TOO LONG. WITH THE SHAFT POSITIONED AT IT'S SHORTEST LENGTH, THE TWO TELESCOPING SHAFTS SHOULD LACK TWO(2) INCHES MEETING. NOW, CHECK THE PTO SHAFT TO BE SURE THE PTO SHAFT IS NOT TOO SHORT. POSITION THE ROTARY CUTTER SO THAT THE PTO SHAFT WILL BE AT IT'S LONGEST POSITION. AT THIS POSITION, THE TWO TELESCOPING SHAFTS SHOULD ENGAGE AT LEAST SIX (6) INCHES. BE SURE THE PTO CLEARS THE FRONT OF THE CUTTER DECK, WHEN CUTTER IS RAISED. IF IT DOES NOT CLEAR, RE-ADJUST THE TOP-LINK ON YOUR TRACTOR, TO CORRECT THIS PROBLEM. YOU MAY WANT TO SET THE STOP ON YOUR HYGRAULIC CONTROL LEVER, SO THAT THE CUTTER WILL NOT ACCIDENTLY BE RAISED TOO HIGH. NOW, ENGAGE THE PTO, SLOWLY, LET THE ROTARY CUTTER RUN SLOWLY FOR SEVERAL SECONDS AND GRADUALLY INCREASE THROTTLE TO OPERATING SPEED. WATCH CAREFULLY FOR SIGNS OF EXCESSIVE VIBRATION, OR UNUSUAL MOISES. IF ANY ARE NOTICED, DISENGAGE PTO, CUT OFF TRACTOR IMMEDIATELY, WAIT FOR COMPLETE STOP OF ALL MOVING PARTS, AND INVESTIGATE CAUSE. A NEW GEAR BOX MAY BE NOISY AT FIRST, BUT USUALLY A FEW HOURS USE WILL MESH THE GEARS, AND CREATE A QUIETER, SMOOTHER OPERATION.
- 2. WE SUGGESTED THAT YOU GET THE FEEL OF YOUR ROTARY CUTTER ON OPEN FAMILIAR GROUND. REMEMBER THAT THE CENTRIFUGAL FORCE OF THE ROTARY BLADES AND CARRIER CAN KEEP PUSHING YOU FORWARD, EVEN AFTER YOU HAVE DISENGAGED YOUR CLUTCH, UNLESS YOUR TRACTOR IS EQUIPPED WITH LIVE PTO OR AN OVER-RUNNER. THEREFORE, APPROACH OBSTACLES WITH CAUTION.
  - \*\*\* IF IT IS DETERMINED THAT THE PTO SHAFT IS EITHER TOO LONG OR TOO SHORT, FOR YOUR TRACTOR, SEE YOUR DEALER FOR CORRECT SHAFT LENGHTS. THIS IS NOT A FREQUENT PROBLEM, HOWEVER, THE CORRECT SHAFT LENGTH SHOULD BE CHECKED TO AVOID DAMAGE TO THE PTO SHAFT, OR OTHER COMPONENTS.

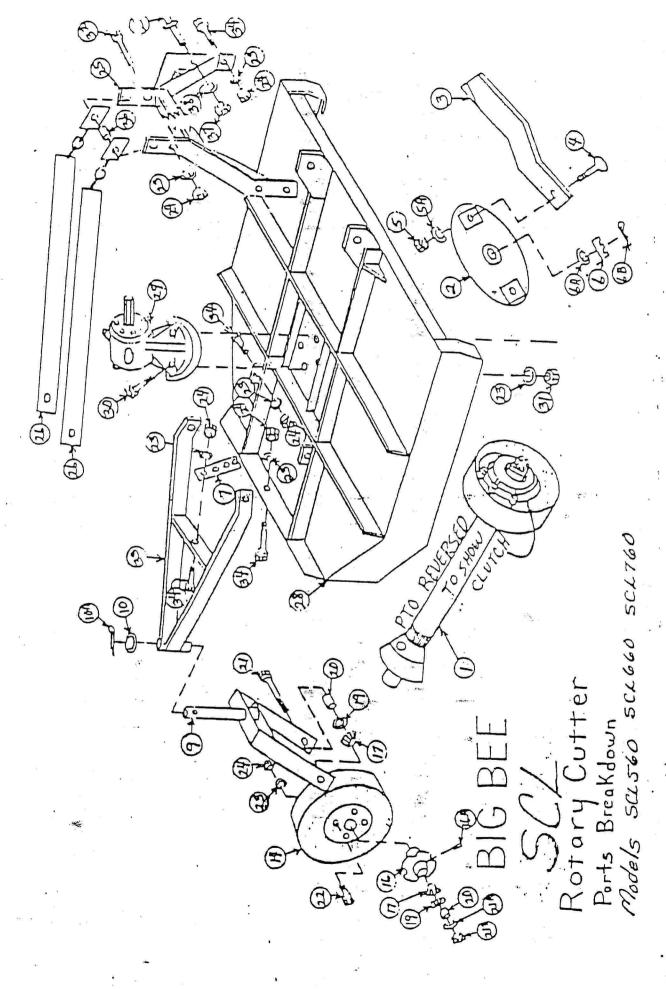
#### ASSEMBLY AND SET-UP INSTRUCTIONS

- A. SET UP A-FRAME AND POSITION HITCH PINS IN PROPER POSITION. BE SURE TO USE LOCK WASHERS AND TIGHTEN BOLTS SECURELY, ATTACHD FLEX CHAIN BRACE TO A-FRAME THE FASTEN CHAIN END ON TAIL WHEEL ADJUSTMENT BRACKET.
- B. REMOVE THE SNAP RING FROM IN-PUT SHAFT ON GEAR BOX, ATTACH THE PTO SHAFT AND INSTALL SHEAR BOLT. BE SURE TO REPLACE THE SNAP RING TO GEAR BOX IN-PUT SHAFT. THE SNAP RING WILL HOLD THE PTO SHAFT IN PLACE IF THE SHEAR BOLT IS SHEARED.
- C. CHECK ALL BOLTS INCLUDING GEAR BOX MOUNTING BOLTS, BLADE BOLTS AND BLADE CARRIER BOLT.
- D. ADJUST THE TAIL WHEEL BRACKET TO LEVEL THE ROTARY CUTTER OR OBTAIN DESIRED CUTTING POSITION.
- E. LUBRICATE GEAR BOX, TAIL WHEEL HUB, TAIL WHEEL SPINDLE, PTO U-JOINTS.
- F. ATTACH ROTARY CUTTER TO THE TRACTOR.

## -SAFETY PRECAUTIONS

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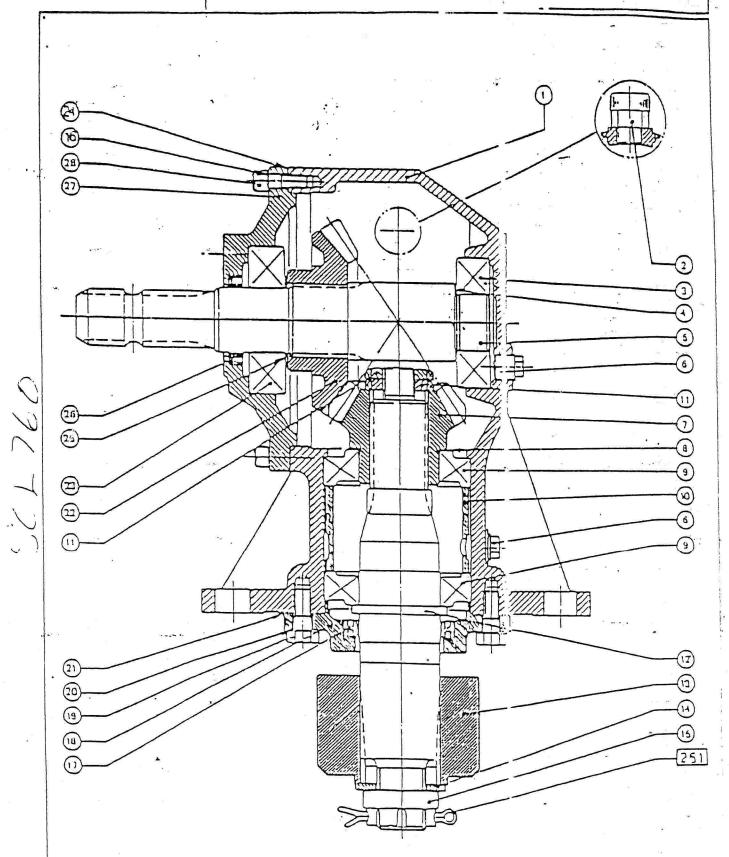
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NO#	PART NO#	DESCRIPTION	,	YTITMAUQ
1 2 2	817M11318 7621 7636-5	PTO ASSEMBLY BLADE CARRIER BLADE		1 1 2
3	7636-6	BLADE ; ···		2 2
3	7636-7 7632	BLADE BLADE BOLT		2
5	633	NUT, BLADE BOLT	7A3	2
5A	HW633A	LOCK WASHER, BLADE BOLT		2
6	7634	NUT, BLADE CARRIER	7	- 2
6A	HW7634A	LOCK WASHER, BLADE CARRIER NUT		1
6B	HW634B	HAIR PIN. BLADE CARRIER NUT.	*	1
7	7643	ADJUSTER. TAIL WHEEL BRACKET		1
9	7646	FORK, TAIL WHEEL HOLDER WASHER, TAIL WHEEL FORK		<u>.</u>
10 10A	7647 HW648	HAIR PIN, TAIL WHEEL FORK		i
14	655	TIRE AND RIM, TAIL WHEEL	e.	ī
16	658	HUB, ROUND CAST WITH RACES		1
16A	HW1012	GREASE ZERK		1
17	659	BEARINGS, ROUND CAST HUB		2
18	660	RACE, ROUND CAST HUB	<u> </u>	2
19	661	SEAL, ROUND CAST HUB	. A	2
20	662	SPACER, ROUND CAST HUB		2
21	663	AXLE, TAIL WHEEL	-3 .	1
21A	663A	WASHER, TAIL WHEEL AXLE		
21B 22	663B HW1056	5/8" NC X 1"	=	4
23	HW1057	5/8" LOCK WASHER		9
24	HW1058	5/8" NC HEX NUT		9
25	7677	A-FRAME WELDED ASSEMBLY	ì	. 1
26	7695	CHAIN BRACE	NI 5	2
27	7628	CAT. 2 DRAW PIN		2
28	7684-5	MAIN BODY MAIN BODY	2	1
28	7684-6 7684-7	MAIN BODY		ī
28 29	7617	GEAR BOX	a	. 1
30	HW7682A	3/4" X 2 1/4" SAE		4
31.	HW7683A	3/4" SAE NUT		4
32 ·	HW6884	5/8" X 4 1/2" NC HEX BOLT		1
33*	7642	YOKE, TAIL WHEEL		1
34	HW6883	5/8" X 2" NC HEX BOLT		. J
36	7640	BUSHING, A FRAME LOCK WASHER, DRAW PIN		3 1 2 2
37 30	EEEWH	NUT SAE, DRAW PIN		2
38	HW334	HUI ORE, DIGIN LIN		_

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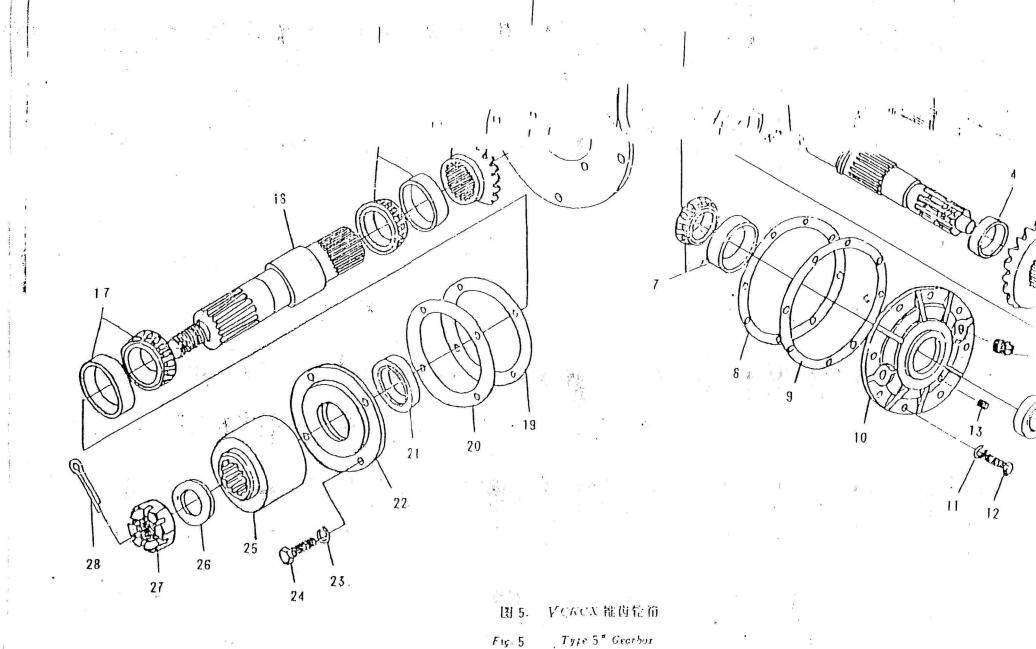
LF-17A



## DESCRIPTION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		CASING OIL FILLER PLUG BEARING 6307 SHIM 35,3X43 SHAFT 3/8" PLUG 3/8" GAS BEVEL PINION Z14 SHIM 50,3X70,3 BEARING 30210 SPACER LOCKNUT M30X1,5 H7 SHAFT BUSH BOLT WASHER 31X56X4 CASTLE NUT M30X2 SCHNORR WASHER 8,4X13X1,2 DOUBLE LIP SEAL 50X68X10 COVER HEX BOLT M10X25 8,8 SCHNORR WASHER 10,5X16X1,5 GASKET CROWNWHEEL Z21 BEARING 6308 GASKET SHIM 40,3X51,5 OIL SEAL 40X56X8 COVER
26	٠	OIL SEAL 40X56X8
28		HEX BOLT M8X22
251		COTTER PIN B6X60

LF17A 116 200.00



4 ()

BEARING CCHE.LM6030+9 CUP LM 503CI= CAP SCREW 3/5 × 16 × 1.1/ PLUG X EI x .. 2/1 /A3835 4 X 2 713663001 1211 079213-78 ONNI USA, IN 551053 1/2' SO HO PIPE PLUG 368 362 1/8' SQ.HO. PIPE 141 RETAINING RING NO. BELRING CONE 0.15 CUTPUT GEAR LOCKWASHER LOCKVYSHER 0.3 BEARING CUP OUTPUT SHAF 0 INPUT SHAFT CLSKET 0.15 DESCRIPTION INDUT CELR GASKET 0.3 INPUT CLP BEARING HOUSING 1.0. 726 GASKET GASKET CASKET GASKET CUTPUT RIVET SEAL 2.15-35 7.5R 17:R K. R 27. PLRT NO. 19TY 17) Œ .060004 020008 \$1006C 000051 020005 060005 1.0000 130022 10001 070140 **350008** 2 < 0001 140017 115002 070144 3701 + 3 0731+2 030040 050015 130003 070145 200003 030C¢1 350313 050012 040135 910010 5-5112 C 7014 113-11-21 20 ď m 9 CET BUDYS BIELED ! 11日の11日日日 3 31/35' <u>®</u>R (9) (E) (1)(2)(11)(01) 3 -12  $\binom{61}{2}$ 

CAP SCREW 3/8 x 10 1/2'50'50'FIPE PLU G15KET 0.1 G15KET 0.15 SILVED INSO RETAINING RING BEARING CUP LAIGO BEARING CONE LUE CAP SCREW. 1/2" X 3:0: たいり エマのそうかい 1/8' SQ. HJ. PIPE INPUT SHEET INPUT GEAR 19 0.15 LOCKVASHER LOCK W. 25.15 R BEARING CUP. 0.3 0 OUTPUT SHAF DESCRIPTION INPUT CIP OUTPUT GASKET GASKET GASKET HOUSING RIVET 5521 7.RC-515PTO といい VAR V:R H = 1. 8-12-85 В 060004 000061 090055 050006 240001 140017 110002 020005 900020 070125 130002 021010 130003 670144 070143 140000 10001 050003 070112 010019 PART 40. 070141 6500050 030038 050015 050012 010059 040135 511040 0 S 0 3 31/32' 是過程由一 (53) (a) (1)(2)(b) (b) (e) HH 0-- 1. S <u>1</u>=

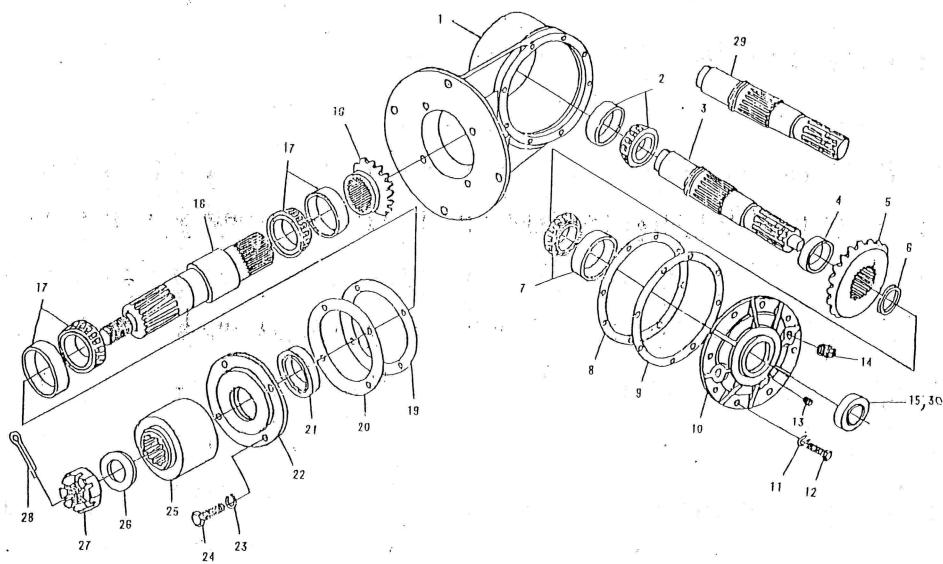


图 4. NCKCX 推齿轮筒

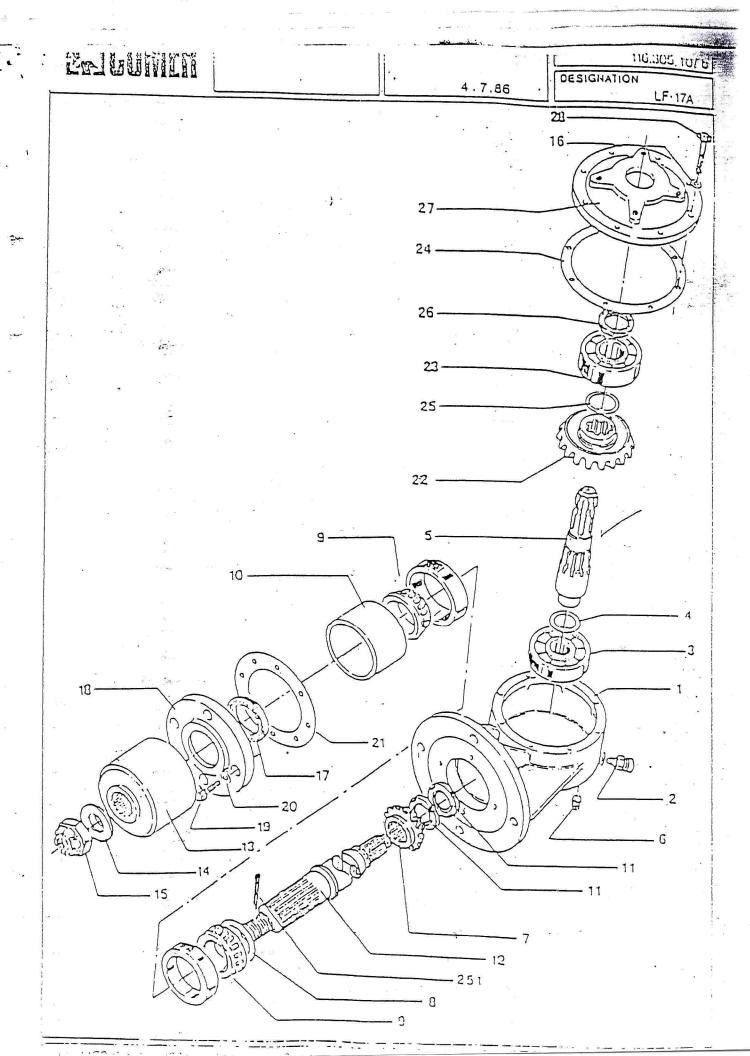
Fig. 4 Type 4 " Gembox

## SCL 560 & SCL 660

REF. NO.	P.ª	ART NO.	PART NAME	QTY.
4	nest :	00E	GEARBOX ASSEMBLY	1
1	a.º	Ole	HOUSING	. 1
`2		A L	BEARING 7207E	1
. 3.		05E	INPUT SHAFT (TYPE OLD)	1
4 .		20	SPACER -	1
5		09D	INPUT GEAR	1
6		21	SPACER	1
7		* .å * :2%	BEARING 7209E	1
8		10	GASKET 0.25	VAR.
9	Ŀ	101	GASKET 0.5	VAR.
10	- **	06	INPUT CAP	1,-
11			LOCK WASHER 10	8
12	**		CAP SCREW M 10x32	8
13		16	1/8 SQ. HD. PIPE PLUG	1.
14	2445	17	1/2 SQ. HD. PIPE PLUG	
15	,	* * * * * * * * * * * * * * * * * * *	SEAL SD 40x62x12 (TYPE OLD)	1
16		04D-2	OUTPUT GEAR	<u>.</u> i .
17	= 261		BEARING 7210E	2
18		04B-1	OUTPUT SHAFT	1 -
19	e erc	11	GASKET 0.25	VAR.
20 .		. 111	GASKET 0.5	VAR.
21		y sign	* SEAL SD 50x70x12	1.
22		14	OUTPUT CAP	1
. 23**.		1 414	LOCK WASHER 12	4
24			CAP SCREW MI 2x35	4

## SCL 560 & SCL 660

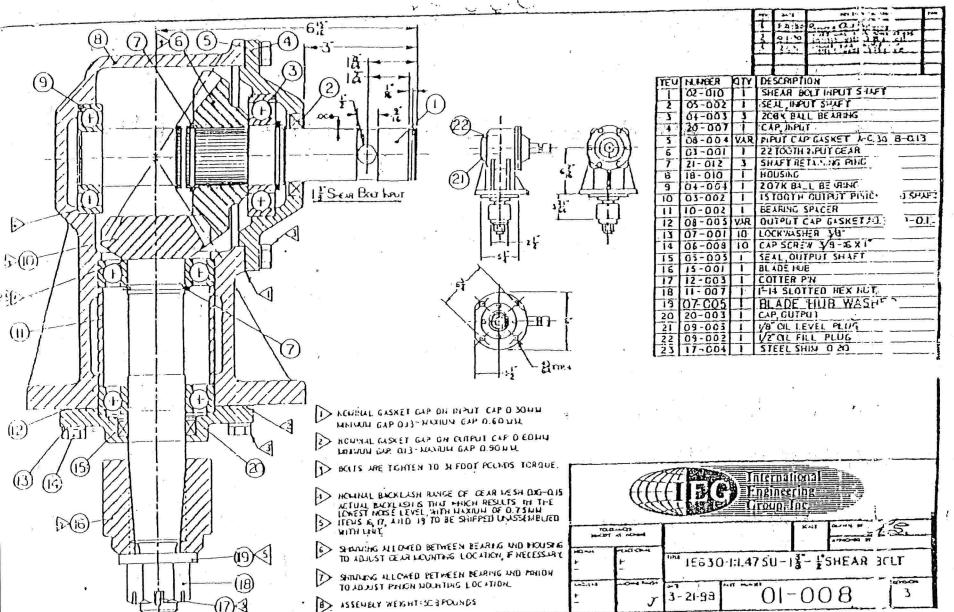
RE	F. NO.	. 1/1	PART NO.	PART NAME	QTY.
est gar	25		13	 BLADE HUB	1
	26		12	 FLAT WASHER	1
· ·	2-7		18	HEX NUT	1 -
	28			COTTER PIN 5x45	1
	29	ž	OSF	INPUT SHAFT (TYPE NEW)	1 .
	30			SEAL SD 35x62x12 (TYPE NEW)	Ĩ.



## SCL 560 OR SCL 660

20S:		DRAWG.NO.	370	DESCRIPITION	* * * * * *	4	QTY.
	Ę,		3	X =		,	
1	v	0.116.0303.02		CASING	. 2	. 8	
2	ect 2	8.6.7.00161	™inder 5¥on		3/8G	·	- <u>1</u> -
3	8	8.0.1.00049		BEARING 6307	,, 50		1
4		-0.259.7500.00		SHIM 35,3x48	¥	*	1
5		0.116.2002.00®	ź.	SHAET 1 3/8		v ***	4
6		8.6.5.00006		PLUG 3/8 GAS		i k	2
7		0.116.6204.00	2	PINION Z14 M5,7	к	4 V*	2
8		0.712.7500.00	•	SHIM 50,3x70,3	*	∞ <sub>e</sub>	1 .
9		8.0.9.00469		BEARING 30210	Ski -		1 2 ~.
10		0.116.7102.01		SPACER			1
. 11		8.2.5.00548	u.		17		2
12		0.116.3201.00		SHAFT		=	1
13		0.116.7103.01	w	BUSH	12. No.	= and a	1
14		8.3.2.00764	ie .	BOLT WASHER 31x56x4		SERVINGS SERVINGS	1
15		8.2.2.00555		CASTLE NUT M30x2	6	\$*	1
16 .		8.3.7.00140	* .	SPRING WASHER 8	3,4x13x1.2	₩.	8
17		8.7.2.00545		and the second s	0x68x10		1
18		0.116.1701.04	46 1 2.	COVER	4	<u>In</u>	1
19		8.1.1.00061		BOLT M10x25 8,8	e =		4
20		8.3.7.00324	•	SPRING WASHER 10, 5	x16x1,5	e	4
21		0.116.7203.00		GASKET		š	1
22		0.132.6004.00	a dia	GEAR Z21 M5,7		states	1
23		8.0.1.00050		BEARING 6308		4	1
24		0.116.7202.00		GASKET		***	1
25		0.244.7500.00	× 5	SHIM 40,3x51.5			1
26		8.7.3.00044		OIL SEAL 40x56x8	13		1
27	÷ .	0.116.1301.01		CÖVER		****	1
28		9.1.1.00041		BOLT M8x22 8,8	•		8
29		8.4.7.00146		COTTER PIN B6x60	c .	. <b>(9</b> )	1





NUMBER OF STATE OF THE CONTING THE COUTPUT GEAR IS 0,50MM (.020"). THIS GAP WILL VARY TO INSURE THE QUIETEST MOUNTING LOCATION, BUT IN NO CASE WILL THIS GAP EVER EXCEED 0.86MM (.031"), OR BE LESS THAN 0 MM (0").

FINIAL ADJUSTMENT OF THE BEARINGS ROLLING TORQUE CAM NOT BE HADE UNTIL AFTER ALL KOJUSTMENTS OF THE IMPUT AND OUTPUT GEAR HAVE BEEN HADE. ONCE THESE GEARS ARE IM THE CORRECT LOCATION, THEN TIGHTEN BEARING ADJUSTING NUT /11-003 TIGHT ENCUGH TO INSURE THAT ALL PARTS OF THE SHAFT. AND BEARING ASSEMBLY ARE FULLY SEATED, THEN LOOSEN THE BEARING ADJUSTING NUT UNTIL A ROLLING TORQUE OF 1.15 TO 1.38 N.H (0.83 TO 1.0 FC. Lbs.) IS REACHED. THEN BEND 1 OF THE LOCKING TABS OF LOCKMASHER 707-DO4 INTO THE LOCKING SLOTS OF ADJUSTING NUT /11-003.

HOMINAL GASKET GAP OF OUTPUT CAP TO HOUSING IS 0.50 MM (.020"), THIS GAP WILL VARY TO INSURE THAT BEARINGS #04-011 AND SPACER #10-003 ARE HELD TIGHT AGAINST THE SHOULDER OF HOUSING #18-001 BY THE OUTPUT CAP #20-002, IN NO CASE WILL THE GASKET GAP EVER EXCEED 1.10 MM (.043"), OR BE LESS THAN 0.10 PM (.004").

TIGHTEN CAP SCREAS 106-002 TO A TORQUE OF 101.7 H.H (75 TO 79 Ft. Lbs.).

INPUT SHAFT GEAR ADJUSTING SHIMS: THERE ARE A TOTAL OF 1.0 MM (.040") OF SHIMS FOR THE ADJUSTING OF THIS GEAR. HORMALLY THESE SHIMS ARE PLACED EQUALLY ON THE FRONT AND REAR LOCATION OF THE GEAR, 0.50 MM (.020") FRONT AND REAR. THE SHIMS MAY BE ACVED IN ANY AMOUNT FROM THE FRONT TO THE REAR, CR FROM THE REAR TO THE FRONT, TO ACHIEVE THE QUIETEST MOUNTING LOCATION FOR THIS GEAR, IN NO CASE WILL THERE EVER BE MORE OR LESS THAN 1.0 MM (.040") OF SHIMS, AND THESE SHIMS ARE NEVER USED FOR THE ADJUSTMENT OF THE INPUT SHAFT BEARINGS.

E- THE HOMINAL BLACKLASH OF GEAR MESH IS 0.24 MM (.010"), THIS BACKLASH WILL VARY THE QUIETEST MOUTHING LOCATION, BUT IN NO CASE WILL IT EVER EXCEED 0.56 MM (.022").

HOMINAL GASKET GAP OF THE INPUT CAP ON STANDARD ROTATION ASSEMBLIES IS 0.80 PM (.033"). THIS GAP WILL NOT EXCEED 1.3G MM (.051") OR BE LESS THAN 0.5G MM (.020"). ON REVERSED ROTATION ASSEMBLIES THE NOMINAL GAP IS 0.70 MM (.028"), AND WILL NEVER EXCEED 1.30 MM (.051"). OR BE LESS THAN 0.10 MM (.004"). THE COPRECT AMOUNT OF GASKETS IS THAT WHICH WILL RESULT IN A MAXIMUM PRELOAD OF 0.15 MM (.066") GR A MAXIMUM CLEARANCE OF 0.10 MM (.004") ON THE IMPUT SHAFT BEARINGS.

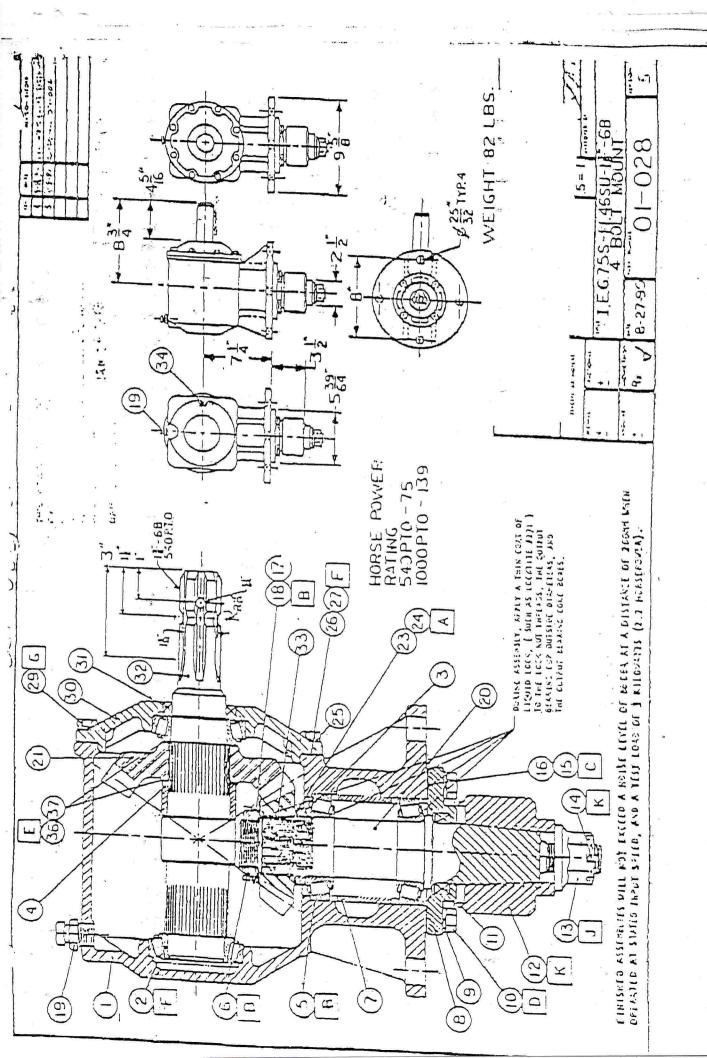
- TIGHTEN CAP SCREWS 1 06-003 TO A TORQUE OF 42.0 TO 46.1 H,H (31 TO 34 FT. Lbs.)
- FINISHED ASSEMBLIES WILL BE CHECKED FOR LEAKAGE BY PRESSURIZING THEN TO 0,703 Kg./cm (10 PSI). HAXIMUM ALLOWABLE LOSS RATE OF PRESSURE IN 30 SECONDS IS 0.05 Kg/cm (.71PSI)
- BLADE HUB HUT 111-008 TO BE INSTALLED ON SHAFT 102-004 TO PROTECT THREADS IN SHIPHENT.
- BLADE HUS / 15-002 AND COTTER PIN / 12-003 WILL BE SHIPED SEPARATE FROM THE GEAR BOX ASSEMBLY. THESE PARTS WILL BE SHIPPED IN A BUX THAT IS PART OF THE FINISHED GEAR BOX SHIPPING SKID. THIS BOX WILL CONTAIN THE SAME HUMBER OF PARTS AS THERE ARE FINISHED ASSEMBLISE PER SKID.

7	DET.	ושינא דאגץ	A QTY.	DESCRIPTION
	1	18-001		HOUSTHG
- 8	2	04-017	- 2	BEARING ASSEMBLY
		10-016	-[-1-	GEAR HOUNTING SPACER
	-{	21-001	1	LETAINING AING
	5	0(-01)	1 2	LEARING ASSEMBLY
	6	11-003	1	EEARING ADJUSTING HUT
- 1	7	10-003	- I	CUTPUT BEARING SPACER
- 1	É	20-002	- 1	CUTPUT CAP
	9	07-002	. 4	F 12 LOCKYASHER
- 1	10	06-002	4	112 x 1.75 x 38 CAT SCRIV
)	11	05-008	1	CUTPUT SHAFT OIL SEAL
1	12	15-002	1	1 172" BLADE HUB
1	11	11-008	1	10-14 FLANCED HEX HUT
	if	12-003		COTTER PIH
-	15	08-001	VAR.	CUTPUT CAP GASKET 0.10
i	16	08-002	VAR.	CUTPUT CAP GASKET 0,25
	17	27.00.		FIRT WASHER \$42
	ib	07-004		PEARING NUT LOCKWASHER
	19	800-60	i	FRESSURE RELIEF FILL PLUG
- 1	20	02-004		STO. 75 OUTPUT SHAFT
- 7	21	03-009	1	INPOT GEAR 19 TOOTH
	22			1.8
- 1	23	17-002	VAR.	GEAR ADJUSTING SHIH 0.30.
- 1	2	17-003	VAR.	CEAR ADJUSTING SHIH 0,50
- 1	25	07-001	8	\$10 LOCKLASHER
- 1	26	08-006	VAR.	INPUT CAP GASKET 0.10
- 1	27	08-007	VAR.	INPUT CAP GASKET 0.25
- 1	28			
	29	06-003	8	HIO x 1.5 x 30 CAP SCREV
	30	20-001	1	INPUT CAP
	31	05-007		INPUT SHAFT DIL SEAL I
	32	02-001		INPUT SHAFT
- 1	33	03-008		IS TOOTH OUTPUT GEAR
JE.	36	09-005	. 1	1/8" OIL LEVEL PLUG
	35			
	35 36	17-002	VAR.	GEAR ADJUSTING SHIH 0,30
	37.	17-003	VAR	DEAR ADJUSTING SHIH D.50
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	l	and	1	Group Inc.
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- -A- NOMINAL SHIN GAP FOR MOUNTING THE OUTFUT GEAR IS 0.5GMM (.070"). THIS GAP VILL VARY TO INSURE THE QUIETEST HOUNTING LOCATION. BUT IN NO CASE WILL THIS GAP EVER EXCEED 0.86°M (.031"). OR BE LESS THAN O MM (6").
- FINIAL ADJUSTMENT OF THE BEARINGS ROLLING TORQUE CAN NOT BE MADE UNTIL AFTER ALL ADJUSTMENTS OF THE INPUT AND OUTPUT GEAR HAVE BEEN MADE, CHIEF THESE GEARS ARE IN THE CORRECT LOCATION, THEN TIGHTEN BEARING ADJUSTING HUT FILODS TICHT ENGIGH TO INSURE THAT ALL FARTS OF THE SHAFT AND BEARING ASSEMBLY ARE FULLY STATED, THEN LOOSEN THE BEARING ADJUSTING NUT UNTIL A ROLLING TORQUE OF 1.15 TO 1.38 N.H (0.83 TO 1.0 Ft. Ubs.) IS REACHED. THEN BEND I OF THE LOCKING TABS OF LOCKYASHER FOR-OWN THIS THE LOCKING SLOTS OF ADJUSTING NUT FILODS.
- TO INSURE THAT BEASINGS TO 4-DIT AND SPACER FID-DOS ARE HELD TIGHT AGAINST THE SHOULDER OF HOUSING FI8-DOS BY THE OUTPUT CAP F20-DDZ, IN NO CASE WILL THE GASKET GAREYER EXCERN 1.10 HM (.043"), OR BE LESS THAN 0.10 KM (.004").
- -D- TIGHTEN CAP SCREWS 106-002 TO A TORQUE OF 101.7 N.H (75 TO 79 Ft. Lbs.).
- -E=, IMPUT SHAFT GEAR ADJUSTING SHIMS: THERE ARE A TOTAL OF 1.0 HA (,040'') OF SHIMS FOR THE ACUMULT OF THE GEAR. HEAMALLY THESE SHIMS HAR PLACED EQUALLY OF THE FRONT END THAT AND REAR LOCATION OF THE GEAR, 0.50 HA (,000'') FRONT AND REAR. THE SHIMS HAY BE HIVED HAVE AN ACHTEVE HEAMALT FROM THE FRONT TO THE REAR, OR FROM THE REAR OF THE FRONT, TO ACHTEVE THE QUITTEST HOUNTING LOCATION FOR THIS GEAR. IN NO CASE WILL THERE EVER BE HORE OR LOSS THAN 1.0 HA (,040'') OF SHIMS, AND THESE SHIMS ARE HEVER USED FORCE. THE ADJUSTMENT OF THE INPUT SHAFT BEARINGS.
- FOR THE QUIETEST HOUST PLACKLASH OF GEAR HESH IS 0.24 MM (.010"), THIS BACKLASH WILL VARY & FOR THE QUIETEST HOUST PLACKLASH WILL, BUT, HUT CASE WILL IT EVER EXCELD 0.56 MM (.022")
- -F- HONINAL GASKET GAP OF THE INPUT CAP ON STANDARD ROTATION ASSEMBLIES 18 0.80 HM (.033"). THIS CAP WILL HOT EXCECT 1.30 HM (.051") ON BE LESS THAN 0.50 HM (.070"). ON REVERSED ROTATION ASSEMBLIES THE HONINAL GAP 18 0.70 HM (.080"), AND WILL HEVER EXCLED 1.30 HM (.051"), OR BE LESS THAN 0.10 HM (.094"). THE CORRECT ANOUNT OF GASKETS 13 THAT WHICH WILL RESULT IN A HANIMAM PRILORD OF 0.15 HM (.005") OR A MAXIMUM CLEARANCE OF 0.10 HM (.004") ON THE INFUT SHAFT BEACHES.
- -5- TICHTEN CAP SCREWS / 06-003 TO A TORQUE OF 42.0 TO 46.1 H,H (1) TO 34 FT. LES.)
- \*# FINISHED ASSEMBLIES WILL BE CHECKED FOR LEAKAGE BY PRESSURIZING THEM TO 0.703 Kg./cm (10 PS1). KEXIMUM ALLOWASEE LOSS RATE OF PRESSURE IN 30 SECONDS IS 0.05 kg/ca (.71PS1)
- -J- BLADE HUB HUT 111-008 TO BE INSTALLED OF SHAFT FOR-DON TO PROTECT THREADS IN SHIPMENT.
- -K- ELADE HUB / 15-002 AND COTTER PIR & 12-003 WILL BE SHIPED SEPARATE FROM THE CENT BOX ASSCRIBLY. THISE PARTS WILL BE SHIPPED IN A BOX THAT IS PART OF THE FINISHED GRAN BOX SHIPPING SKID, THIS BOX WILL CONTAIN TO SAME NUMBER OF POURS AS THERE ARE FINISHED ASSCRIBLISE PER SKID.

	g.			
	DET.	PART BUFFER	QIY.	DESCRIPTION
	1-i	18-001	i i	*HOUSIFG
	7	C4-C17	2,	BEANING ASSESSELY
	3	10-016	1	GEAR BEURT INCUSPACER
	- <del>[</del>	10-001	1	SFALEN
	5	04-211	1	PEARING ASSEMBLY
	6-	11.003	1	TEH SALLSULCA SALEASE
- 4	· 7	10-001	1	OUTPUT BLASING SPACEA
9	- <del>-</del> 6	20-6-52	i i	CULLUI LAP
	9	07-C-01	4	# 12 LOCIVASHER
	18	76-502	4	H17 x 1.75 x 38 CAP SCACV
- 1	ii	05-009	i	DUTPUT SALT DIL SLAL
- 1	12	15-CO2	î	2 1/2" BLASE PUB
1	13	17-558	1	111-11 LIVACED HEX HOL
-	111	12-003	1	COTICA FIN
- 1	15	CB-C21	1'4A.	DUTTEUT CAP GALIET D. 10
- 1	if	05-001	VAR.	CHIENT CAN CASLET D. 33
1	11	07-005	i	TLAT WASHER
	16	07-001	1	BEARING HUT LOUINASHER
-1	19-	- 09-208	-i-	PRESSURE RELIEF FILL FLUG
`	10-1	07-034	1	SID. 75 OUTPUT SHAFT
. 1	11 1	01-6-69	1	INPUT CLAR IS TOOLH
1	21		+	
١.	23	17-652	YAR.	CLAR ADJUSTING SHIM C. JO
1	24	17-001	VAN.	GEAR ADJUSTING SPIN 0,50
1	25	07-001	8	112 15: NASHIA
ł	76-	09-006	YAA.	1411 [AF GASALT 0,10
1	27	08-007	FAY.	INFUT CAP CASKET 0,25
1	79	النشطان		
1	19	05-553	-8	MID x 1.5 x 12 CAF SCALY
1	10	20-001	1	THEOT CAP
1	jΠ	05.001	1	HELT SHALL OIL SLAL
1	12	01-002	i	TUPUT SHAFT
1	ĵį	03-008	7	11 TO 2 11 11 11 11 11 11 11 11 11 11 11 11 1
	34	09:555		TIPE DIL LEVEL TELE
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1	36	17-602	YA7.	01.0 Hill SHITELES AND
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1	I.E.G	755-116	ESII-	312 -	•
R.	827-90	0	1-02	28	
		1.E.G	1.E.G 755-114	1.E.G 755-11.4ESU-1	1 E.G 755-1146511-18-69

## PROCEDURE FOR REMOVING BLADES FROM BIG BEE ROTARY CUTTERS

THERE ARE TWO(2) WAYS TO REMOVE BLADES FROM THE BIG BEE ROTARY CUTTERS FOR REPLACEMENT AND/OR SHARPENTING. ONE PROCEDURE IS ACCOMPLISHED BY CUTTING A HOLE IN THE TOP DECK OF THE ROTARY CUTTER EITHER DIRECTLY BEHIND OR IN FRONT OF THE GEARBOX. THE PREFERRED POSITION WOULD BE IN THE FRONT BUT EITHER PLACE IS PERMISSIBLE. TO FIND THE PROPER LOCATION FOR HOLE PLACEMENT, MEASURE SEVEN(7) INCHES FROM THE CENTER OF THE GEARBOX. THIS POINT WILL BE THE CENTER OF THE HOLE TO BE DRILLED. THE LOCATION OF THIS HOLE WILL ALSO BE APPROXIMATELY TWO(2) INCHES FROM THE GEARBOX MOUNTING PLATE. THE HOLE YOU CUT (DRILL) SHOULD BE AT LEAST THREE(3) INCHES IN DIAMETER. THIS HOLE WILL ALLOW YOU TO UTILIZE A SOCKET FOR FAST AND EASY REMOVAL OF THE BLADES FROM THE STUMP JUMPER.

THE SECOND METHOD OF REMOVAL IS BY TAKING THE KEY AND CASTLE NUT OFF OF THE GEARBOX OUTPUT SHAFT. THIS ALLOWS YOU TO REMOVE THE COMPLETE STUMP JUMPER. ALTERNATING BLOWS TO THE HEAD OF THE BLADE BOLTS ALLOWS YOU TO "WALK" THE ENTIRE JUMPER FROM THE SHAFT. WHEN REMOVAL OF THE JUMPER IS COMPLETED YOU NEED ONLY TO REMOVE THE BLADES FROM THE JUMPER TO SHARPEN OR REPLACE.

CAUTION: ALWAYS BE SURE TO WEAR PROTECTIVE EYE GEAR TO AVOID INJURY WHILE

CUTTING OR HAMMERING

CAUTION: BE SURE BLADES ARE NOT IN MOTION BEFORE ATTEMPTING TO REMOVE BLADES

FROM MACHINE.

#### GENERAL MAINTENANCE

- 1. CHECK OIL LEVEL IN GEAR BOX PERIODICALLY, KEEP LEVEL UP TO CHECK PLUG. USE SAE 90 OR SAE 140 TRANSMISSION OIL: USE CAUTION NOT TO OVER FILL.
- 2. LUBRICATE UNIVERSAL JOINT ON PTO SHAFT EVERY FEW HOURS OF USE. KEEP PTO SHAFT FREE OF DIRT AND FOREIGN MATERIALS SO THAT IT WILL TELESCOPE FREELY TO AVOID DAMAGE TO YOUR TRACTOR OR ROTARY CUTTER.
- 3. LUBRICATE TAIL WHEEL.
- 4. KEEP BLADES SHARP. WHEN REPLACING WORN BLADES, BE SURE TO REPLACE IN PAIRS TO MAINTAIN ROTARY BALANCE.
- 5. KEEP ALL BOLTS TIGHTENED PROPERLY.

\*

#### WARRANTY

WE WARRANTY EACH NEW BIG BEE ROTARY CUTTER AGAINST DEFECT IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF 90 DAYS OR A REASONABLE PERIOD OF TIME DEPENDANT UPON THE TYPE OF USE OF THE MACHINE.

IN THE EVENT IT IS NECESSARY TO REPLACE OR REPAIR AND PART(S) DURING THE WARRANTY PERIOD GO TO YOUR DEALER WITH THE DEFECTIVE PART(S) AND HE WILL ASSIST YOU IN SECURING THE NEEDED REPLACEMENT, OR RETURN THE DEFECTIVE PART(S) TO

DHE
WARRANTY DIVISION
P.O. BOX 140
GOLDEN ROAD
RED BAY, AL. 35582

NEITHER MANUFACTURER OR THE DEALER SHALL BE HELD RESPONSIBLE FOR LOSS OF USE OF THE MACHINE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

IN ORDER FOR YOUR BIG BEE ROTARY CUTTER TO BE COVERED BY OUR WARRANTY POLICY, THE EQUIPMENT REGISTRATION FORM ON THE BACK COVER MUST BE COMPLETED AND RETURNED WITHIN 10 (TEN) DAYS AFTER THE PURCHASE DATE.

THE WARRANTY POLICY IS NOT EFFECTIVE UNLESS THE EQUIPMENT REGISTRATION IS RECORDED IN OUR OFFICE.

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LOATING THE CAP FOR HOUNTING THE OUTFUT GEAR IS D. SOMM (. 070"). THIS CAP WILL LARY TO THIS THE QUIETESY HOUNTING LOCATION, BUT IN SO CASE WILL THIS CAP EVER EVECTO 0.80-4 (.031"). OR BE LESS THAN D MM (6").

FIGURE ADJUSTMENT OF THE BEARINGS ROLLING TORQUE CAN NOT BE MADE UNTIL AFTER ALL RESIDENCES OF THE SHORT OF THE SEAS ARE THE SECOND TO THE THE SEAS ARE THE CORRECT LOCATION, THEN TIGHTEN BEARING ADJUSTING HUT (1)-003 TICHT ENCACE TO THE CORRECT LOCATION, THEN THE SHARING ASSEMBLY ARE FULLY STATED, THEN LOCATED THE STATED THE SHARING ASSEMBLY ARE FULLY STATED THEN LOCATED THE SEART AND BEARING ASSEMBLY ARE FULLY STATED THEN LOCATED THE SEART TO 1.36 H. H. GOOD THE SEART TH

HARD THE STATE CASKET GAP OF GUTPUT CAP TO HOUSING IS 0.50 HM (.020"). THIS GAP WILL VARY OF THE SHOP OF THE GASKET GAP OF THE SHOP OF THE GASKET GAP OF THE CHILL THE GASKET GAP OF THE CHILL CHILL CHILL CHILL FAR FAG OF THE CHILL CHILL CHILL CHILL CHILL FAR OF THE CHILL CHILL CHILL FAR OF THE CHILL CHILL CHILL CHILL FAR OF THE CHILL CHILL CHILL CHILL FAR OF THE CHILL CH

TIGHTEN CAP SCREVS 106-001 TO A TOTGUE OF 101.7 N.K (75 TO 79 Ft. Lbs.).

THE ACCUSTING OF THIS CEAR. NOTALLY THESE SHINS ARE PLACED EQUALLY ON THE FRONT CASE ACCUSTING OF THIS CEAR. NOTALLY THESE SHINS ARE PLACED EQUALLY ON THE FRONT CASE REAR LOCATION OF THE GEAR, 0.50 MM (.020") FRONT AND REAR. THE SHINS MAY BE MILED IN ANY AMOUNT FROM THE FRONT TO THE REAR, OR FROM THE REAR TO THE FRONT, TO ACCUSE THE QUIETEST MOUNTING LOCATION FOR THIS CEAR, IN NO CASE WILL THERE EVER BE MICHED ALLESS THAN TO MM (.040") OF SHIMS, AND THESE SHIMS ARE NEVER USED FORCATE ACCUSED TO THE INFUT SHAFT BEARINGS.

THE NOTICE BLACKLASH OF GEAR MESH IS 0.24 HM ("GIO"), THIS EACKLASH WILL VARY & YNAME AND AND THE BOLD OF THE STATE OF THE

CAN ALL CAPERET CAP OF THE INPUT CAP ON STANDARD RESTAURCH ASSEMBLIES IS 0.80 KM (0.33°). THIS CAP WILL NOT EXCEED 1.30 KM (0.51°) OR BE 1855 THAN 0.50 KM (0.020°). REVEASED RETAINED ASSEMBLIES THE NOMINAL CAP. IS 0.70 KM (0.08°), AND WILL NEVER CEED 1.30 KM (0.051°), OR BE 1855 THAN 0.10 KM (0.04°). THE CORRECT ANOUNT OF SELECT IN THAT WHICH WILL RESULT IN A KANIMUM PRELICAD OF 0.15 KM (0.065°) OR A CHICLE CEEELANCE OF 0.10 KM (0.04°) ON THE INPUT SHAFT BEARINGS.

(n th (29 523213 / 06-30) TO A TORQUE OF 42.0 TO 46.1 N.H (1) TO 34 FT, Lbs.)

SHED ASSERBLIES WILL BE CHECKED FOR LEAKAGE BY PRESSURIZING THEM TO 0.703 Kg./cm PSI). REXIMUM ALLOWABLE LOSS RATE OF PRESSURE IN 30 SECONDS IS 0.05 Kg/cm (.71781)

OF HUB BUT 111-008 TO BE INSTALLED OF SHAFT FOR-DON TO PROTECT THREADS IN SHIPMENT.

JE HUB 1 15-063 AND COTTER PIN 1 12-03] WILL BE SHIPED SEPARATE FROM THE GEAS BOX EMBLY, THISE PARTS WILL BE SHIPPED IN A BOX THAT IS PART OF THE FINISHED GEAR BOX PARTS SHID, THIS BOX WILL CONTAIN , I SAME HUMBER OF A LIS AS THERE ARE FINISHED PAULSE PER SKID.

	DET	. FART NUMBE	R GTY	. DESCRIPTION
	1	18-001	1	241 SCCH
	2	04-017	2	EEANING ASSEMBLY
	_ 3	10-016	1	GEAR HEUNTING SPACER
	T	10-001	1	SPALER
	5	01-211	1	ECARING ASSCHOLY
	8	11-003	Ti	BEARING ADJUSTING HOT
	1_7	10-60]	. 1	OUTPUT ECARING SPACEA
	B	20-6-01		CUTPUT CAP
	9	07-002	4	\$ 12 LOCKWASHER
	10	06-602	1	H12 x 1.75 x 38 CAP SCREW
	11	05-008	1	LOUTPUT SHAFT DIL STAL
	11	15-002	1	2 1/2" BLASE HUB
	13	11-008	1	1"-11 FLANCED HEX HUT
ï	11	12-003	1	COTTER PIN
	15	100-80	VAR.	OUTFUT CAP GALVET 0,10
	16	02-002	YAR.	OUTENT CAP CASLET 0.25"
	17	67-601	1	FLAY WESHER
	16	07-004	1 1	BEARING HIT LOCKLASHER
	19	09-008		PRESSURE RELIEF FILL PLUS
	20	07-004	1	\$10, 75 OUTENT SHAFT
.	11	03-009	1	IMPOT GEAR 19 TOOTH
-	21			
٠,	23	17-002	VAR.	GEAR ADJUSTING SHIM 0.30
1	24	17-003	VAA.	GEAR ADJUSTING SHIH D.50
J	25	07-001	8	BID LOCAVASHEAD
1		08-066	NAY.	INFIT CAP CASKET 0,10
1	27 19	08-007	YAN.	INPUT CAP CASKET 0,25
	7.7			
	19	05-033	B	HID X 1.5 x 12 CAP SCREY
	30	20-001	1	THPUT CAP
	31	05.60)	1	THEUT SHAFT OIL SEAL
	12	02-002	1	IMPUT SHAFT
	33	03-008	3	11 TOOTH GUTPUT GEAR
	14	05-005		1/8" DIL LEVEL PLUG
1	}			
1-	6	17-632	VAR.	OF O HINE CHIEGIGA AND
L	7	17-003	VAR	GEAR ADJUSTING SHIM 0.50
1		v/i	74	
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## OWNER REGISTRATION

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