



OPERATIONS & PARTS MANUAL

FOR MODELS:

- BE-FTL125
- BE-FTL135
- BE-FTL150

PURCHASE DATE	MODEL NO.	SERIAL NUMBER
DEALER		

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SAFETY WARNINGS

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START

Read the safety message on the implement and shown in your manual.
Observe the rules of safety and common sense.

CAREFULLY READ EACH WARNING MESSAGE THAT FOLLOWS. FAILURE TO UNDERSTAND AND OBEY A SAFETY WARNING, OR RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN INJURY OR DEATH TO YOU OR OTHERS AROUND YOU. THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE OPERATING AREA OF THE ROTARY TILLER.

UNDERSTAND SIGNAL WORDS

DANGER & WARNING safety signs are located near the specific hazard.
CAUTION safety signs list general precautions.

IMPORTANT SAFETY INFORMATION

Working with unfamiliar equipment can lead to careless injuries. Read this manual and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines.

It is the implement owner's responsibility, if this machine is used by an person other than yourself is loaded or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.
3. The use of this equipment is subject to certain hazards which cannot be protected against by the mechanical means or product design.
4. All operators of the equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders twenty-five feet (25') from an operating rotary tiller. Only properly trained people should operate this machine. It is recommended the tractor be quipped with a Rollover Protection System (ROPS) and a seat belt that is used. Always stop the tractor, set brake, shut o_ the tractor engine and remove the tractor key, and lower implement to the ground before dismounting tractor. Never leave equipment unattended with the tractor running.

Please remember it is important that you read and heed the safety signs on the rotary tiller, and the safety rules set forth. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. The safe use of this machine is strictly up to you, the operator.

SAFETY PRECAUTIONS

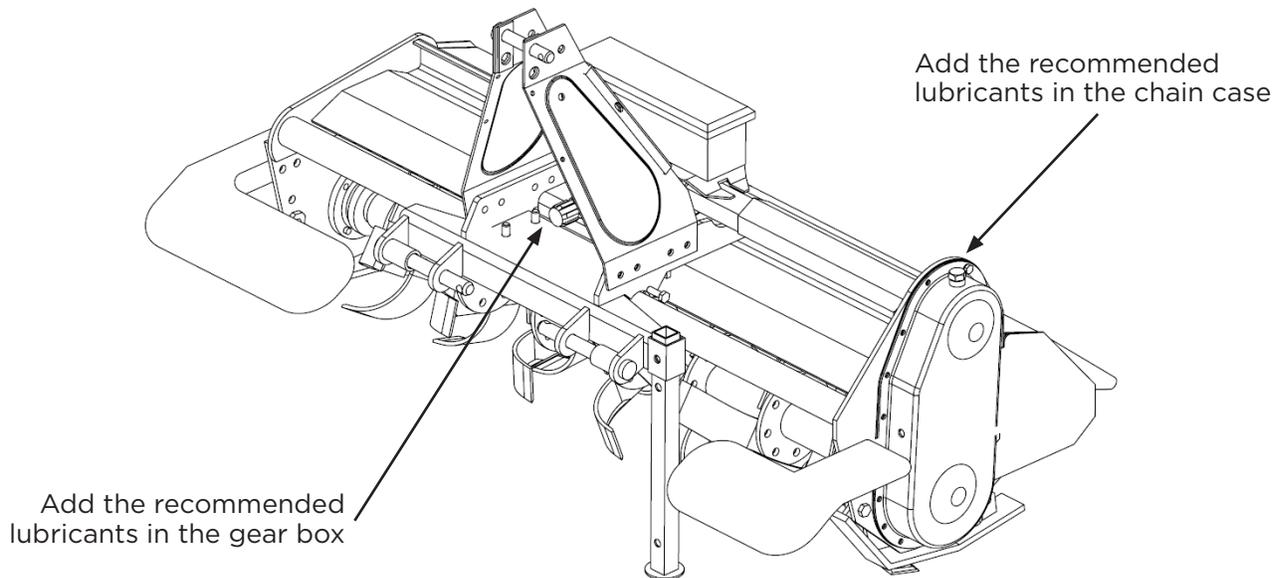
MOST ACCIDENTS OCCUR BECAUSE OF NEGLIGENCE OR CARELESSNESS. AVOID NEEDLESS ACCIDENTS BY FOLLOWING ALL OF THE SAFETY PRECAUTIONS LISTED BELOW.

- Machinery should be operated only by those who are responsible and authorized to do so. Stop the engine, lower all equipment, lock the brakes and remove the ignition key before dis-mounting form the tractor.
- Never stand between tractor and implement while tractor is being backed to hitch. Loose fitting clothing should not be worn, to avoid on various parts.
- Detach implement in area where children normally do not play.
- When performing adjustments or maintenance on an implement, first lower it to the ground or block it securely at a workable height. Only a qualified operator should be permitted on tractor when in operation;

no riders allowed. Make certain everyone is in the clear before starting tractor or raising or lowering equipment. Operate the tractor and implement only while seated in the driver's seat. Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.

- A heavy load can cause instability of the tractor.
- Use extreme care during road travel. Slow down on turns and watch out for bumps. Tractor may need front counter-weights to counter-balance the weight of the implement.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to edge of ditches or creeks.
- Do not transport implement on public roads without reflectors and slow-moving vehicle emblem in daylight and with approved warning lights at night and other periods of poor visibility.
- Due to the width of some implements, use extra caution on highways, farm roads and when approaching gates.
- Always be sure the implement is in proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.

		AGIP	ESSO	IP	SHELL
	Gearbox & side transmission oil	BLASIA 460	GEAR OIL EP320	OIL 460	OIL 460
	Grease	GRU3	E.P.3	GR3	R3



INFORMATION

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

1. PART NUMBER
2. PART DESCRIPTION
3. MODEL NUMBER & SERIAL NUMBER
4. NAME OF ITEM

SAFETY INFORMATION

- All equipment is potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes potential hazards and follows reasonable safety practices.
- When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintaining, repairing, removal or moving the implement, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.
- Personal protection equipment including safety glasses, safety shoes and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal or moving the rotary tiller.
- Always use two people to handle heavy, unwieldy components during assembly, installation, removal or moving the rotary tiller.
- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal or moving the implement.
- Never place yourself between the tractor and implement while implement is in operation.
- Do not work under a raised implement unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the implement in place.
- A heavy load can cause instability of the tractor. Use extreme care during travel. Slow down on turns and watch out for bumps. The tractor may need front counter-weights to counter-balance the weight of the implement.
- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
- Do not allow others to ride on the tractor with an operator. Riders are subject to injury such as being struck by foreign objects or being thrown off. Riders obstruct the operator's view resulting in unsafe operation. Never allow anyone to ride on the implement!
- Before you operate the rotary tiller, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.
- Do not allow anyone who is not familiar with the safety rules and operation instructions to use this rotary tiller. Never allow children to operate or be around equipment.
- Use stabilize bars, adjustable sway chains or sway blocks on your tractor lift arms to keep the rotary tiller from swinging side to side. Adjust as tightly as practical for best performance.
- Keep alert and watch the front as well as the rear when working with the implement.
- When manufacturing close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the implement.
- Do not operate close to ditches or creeks. Slow down when operating over rough ground.
- Always be sure the implement is in the fully raised position when in transport.
- When adjusting the assembly, be sure that your feet are never under the rotary tiller.
- Use extreme caution when backfilling deep holes or trenches.
- Be careful to avoid catching the rotary tiller on stumps or other immovable objects.
- Use care when working on slopes.
- Avoid excessive speed during operation.
- Make adjustments only when the implement is attached to the tractor.
- Do not use the rotary tiller in a reverse position, use extra care. Do not ram rotary tiller piles of dirt. Tractor lift arms and the rotary tiller are not built to take high impact loads in this position. Ramming backwards can also dislodge operator from seat and/or tractor controls, resulting in possible serious injury or death.

- Always ease the tractor into the load. It may be necessary to reposition and take “bite” on the material to move it safely.
- Watch for and avoid hidden obstructions, i.e., buried pipes, rocks, concrete piers, uneven concrete slabs, stumps, etc., when operating.

Tractor Requirements And Preparation

The rotary tiller will fit most category 1 tractors equipped with a standard 3-point hitch. The pins need to be installed to the inside or outside of the 3-point frame, depending on the tractor.

The Rotary Tiller is an economy tiller for use on Category 1 tractors up to 25 horsepower in size. For use on larger tractors, extra is required and it is strongly suggested that purchasing a heavier rotary tiller considered.

1. Check the tractor’s 3-point hydraulic lift system.
2. It should operate up and down smoothly and hold its position when set.
3. Refer to your tractor owner’s manual or dealer for any adjustments necessary to put the 3-point hydraulic lift system in good working order.
4. I&T shop manuals will list most specifications and adjustments instructions - available from most farm equipment dealers.
5. Tractor should be equipped with stabilizer bars, adjustable sway chains, or sway blocks to keep the implement from swinging side to side.
6. Smaller size tractors may need front counter weights to counter-balance the weight of the implement.
7. It is recommended that the tractor be equipped with a Rollover Protection System (ROPS) and a seat belt that is used.

ASSEMBLY & MOUNTING

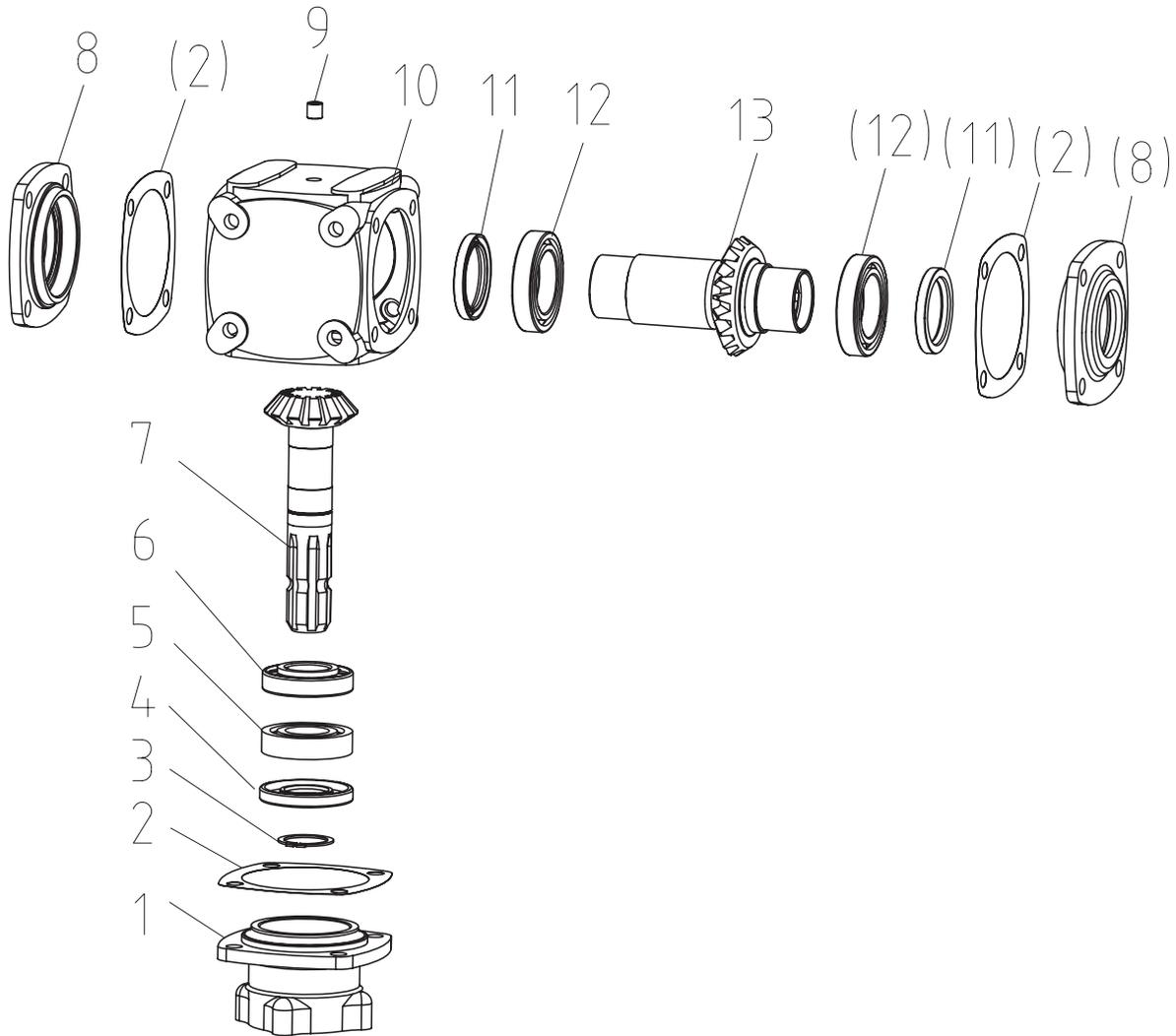
1. Attach the upper 3-point A-frame members, to the 3-point hitch lugs, with hardware as indicated.
2. DO NOT tighten hardware.
3. Align the A-frame top link and lower holes in order to allow your hitch pins to pass through them.
4. A-frame should be positioned square to the frame when tightening hardware.
5. Attach rotary tiller hitch frame to tractor 3-point hitch using a 3A lynch (Cat 1) top link pin and lynch pins.
6. Your Rear Mounted tiller is now assembled and mounted on your tractor. It is ready to go to work for you.

NOTE: Always use the tractor anti-sway bars, blocks or chains to prevent tiller side-sway.

CAUTION

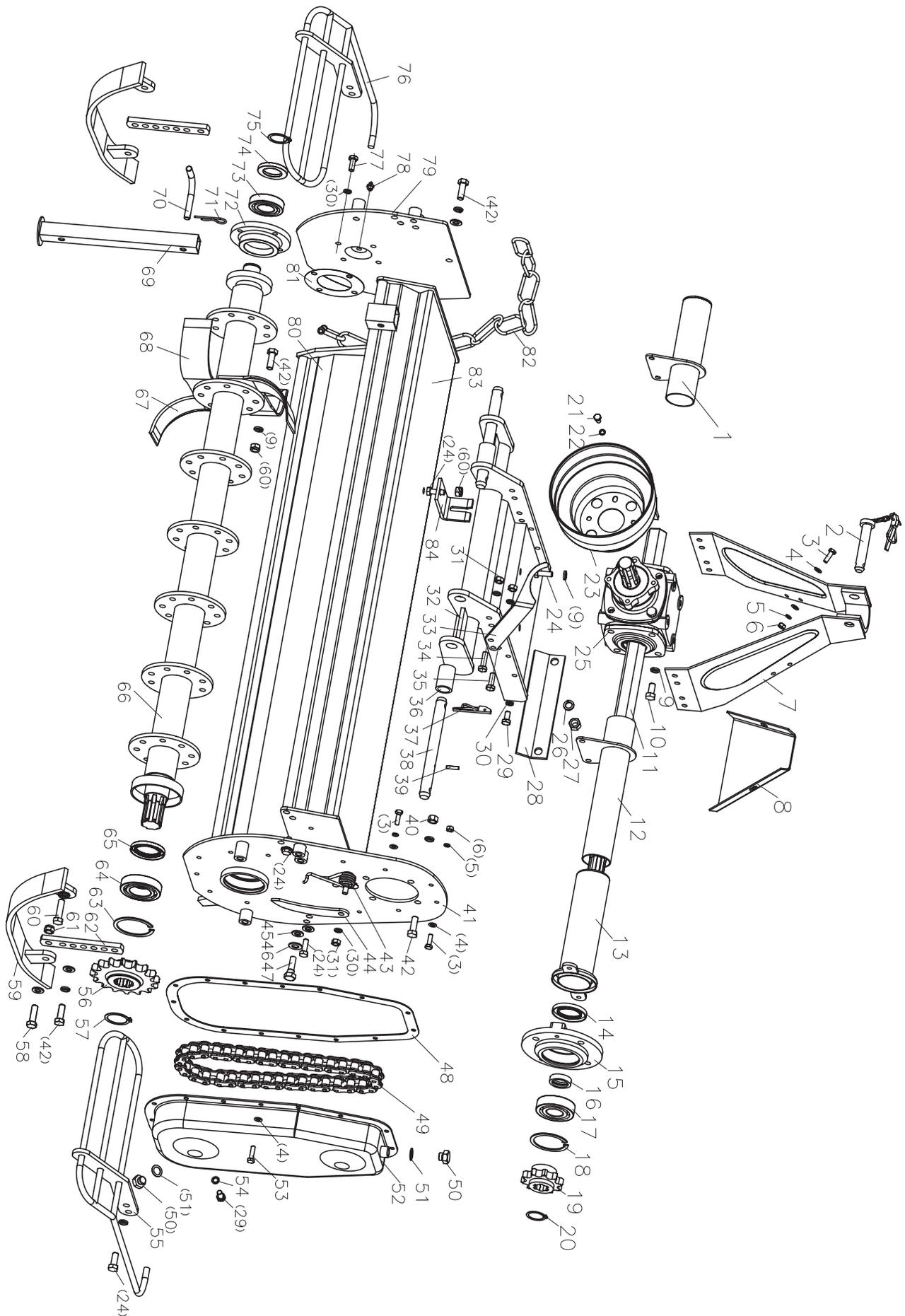
Be sure your tractor is in good condition. Read all the safety precautions and make sure all tractor operators are familiar with the safety rules of operation.

GEARBOX EXPLODED VIEW & PARTS LIST



REF.	PART NUMBER	DESCRIPTION	QTY
1	FTL.125.102	Bearing Seat For Input Shaft	1
2	FTL.125.106	Paper Washer for Rear - Cover	1
3	GB 894.1-86	Cir Clip 35	1
4	GB/T9877.1-1988	Oil Seal FB35x72x8	1
5	GB/T 276-94	Bearing 6207	1
6	GB/T 297-94	Bearing 30207	1
7	FTL.125.107	Input Shaft	1
8	FTL.125.103	Bearing Seat	2
9	ZBT 32001.3-87	Oil Plug ZG3/8-19"	1
10	FTL.125.101	Gear Box Case	1
11	GB /T9877.1-1988	Oil Seal FB35x7 2x8	2
12	GB/T 276-94	Bearing 6010	2
13	FTL.125.108	Output Shaft	1

TILLER EXPLODED VIEW & PARTS LIST



REF	PART NUMBER	DESCRIPTION	QTY
1	FTL.125.018	Shaft Protection Pipe (R)	1
2	EF100.00.019	Suspense Pin	1
3	GB 5783-86	Bolt M8x25	17
4	GB 97.1-85	Plain Washer 8	23
5	GB 93-87	Spring Washer 8	23
6	GB6170-86	Nut M8	17
7	1GQ-125.11.011	Side Suspense Weldment	1
8	FTL.125.111	Rear Suspense Protection Plate	1
9	GB 93-87	Spring Washer 12	93
10	GB 5783-86	Bolt M12x25	12
11	FTL.125.130	Drive Shaft	1
12	FTL.125.019	Shaft Protection Pipe (L)	1
13	FTL.125.020	Main Protection Pipe	1
14	GB13871-92	Oil Seal FB45x72x8	1
15	MZ105.128	Bearing Seat	1
16	MZ105.124	Oil Seal Sleeve	1
17	GB/T 276-94	Bearing 6307	1
18	GB893.1-86	Cir Clip 80	1
19	MZ105.127	Drive Chain Wheel	1
20	GB894.1-86	Cir Clip 32	1
21	GB5783-86	Bolt M8x16	5
22	GB 93-87	Spring Washer 8	23
23	FM120.00.401	PTO Shaft Cover	1
24	GB 5783-86	Bolt M12x30	9
25	FTL.125.011	Gear Box Assembly	1
26	GB 93-87	Spring Washer 14	2
27	GB 6170-86	Nut M14	2
28	FTL.125.112	Deck Fixing Plate	1
29	GB 5783-86	Bolt M10x20	5
30	GB 93-87	Spring Washer 10	17
31	GB 6170-86	Nut M10	9
32	FTL.125.012	Gear Box Supporting Plate	1
33	1GQR-105.101	Hook	1
34	GB 5783-86	Bolt M10x35	2
35	GB 5783-86	Bolt M10x30	6
36	EF100.00.106	Pin Sleeve	2
37	200.56.011	Combined Lock Pin	2
38	FTL.125.124	Suspense Pin Shaft	2
39	GB 879-86	Elastic Cylindrical Pin 6x30	2
40	GB 6170-86	Nut M12	4
41	FTL.125.025	Left Supporting Plate Weldment	1
42	GB 5783-86	Bolt M12x35	68

REF	PART NUMBER	DESCRIPTION	QTY
43	FTL.125.133	Adjusting Lath Spring	1
44	FTL.125.134	Adjusting Lath	1
45	GB 97.1-85	Plain Washer 12	8
46	GB 97.1-85	Plain Washer 14	2
47	FTL.125.136	Bolt	2
48	FTL.125.139	Wood Gasket	1
49	FTL.125.013	Transmission Chains 16Ax17	1
50	CBW-00.112	Oil Plug M16x1.5x15	2
51	CBW-00.103	Combined Oil Seal 16	2
52	FTL.125.026	Cover Weldment of Chain Box	1
53	GB 5783-86	Bolt M8x30	2
54		Combined Oil Seal 10	1
55	GQ-125.11.024	Protecting Handrail Weldment (LH)	1
56	FTL.125.140	Driven Chain Wheel	1
57	GB894.1-86	Cir Clip 42	1
58	GB 5783-86	Bolt M12x40	2
59	FTL.125.021	Active Plate	2
60	GB 5783-86	Bolt M12x45	2
61	GB 889-86	Lock Nut M12	60
62	FTL.125.135	Adjusting Plate	2
63	GB893.1-86	Cir Clip 85	1
64	GB/T 276-94	Bearing 6209	1
65	GB13871-92	Oil Seal FB50x72x8	1
66	FTL.125.024	Shaft for Blade	1
67	1GQ.11.127	Blade (R)	14
68	1GQ.11.128	Blade (L)	14
69	FTL.125.016	Support	1
70	RB-00.101	The Brace Pin	1
71	ZL-25.104	R Pin	1
72	1GQ-125.11.104	Bearing Seat	1
73	GB/T 276-94	Bearing 6207	1
74	GB13871-92	Oil Seal FB40x62x8	1
75	GB894.1-86	Cir Clip 35	1
76	1GQ-125.11.025	Protecting Handrail Weldment (RH)	1
77	GB 5783-86	Bolt M10x25	4
78	GB1152-89	Grease Nipple M10x1	1
79	FTL.125.015	Right Support Plate Weldment	1
80	FTL.125.022	Rear Protecting Plate Weldment	1
81	1GQ-125.11.105	Bearing Seat Gasket	3
82	FTL.125.154	Chain 6x300mm	1
83	FTL.125.017	Deck	1
84	FTL.125.153	Chain Fixing Bracket	1



BRABEREQ.COM
WGSALES@BRABEREQ.COM

PHONE: 604-850-7770
FAX: 604-850-7774
TOLL FREE PHONE: 1-877-588-3311
TOLL FREE FAX: 1-800-665-7334