

MANUAL OF TL ROTARY TILLER



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 messages on the implement and shown in your manual. Observe the rules of safety and common sense!

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY WARNING MESSAGES. 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 and **WARNING** safety signs are located near the specific hazard.

CAUTION safety signs list general precautions. The safety-alert symbol is also used in this manual to call attention to safety messages.

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 any person other than yourself, is loaned 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 mechanical means or product design.
4. All operators of this 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 equipped with a Rollover Protection System (ROPS) and a seat belt that is used. Always stop the tractor, set brake, shut off 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.

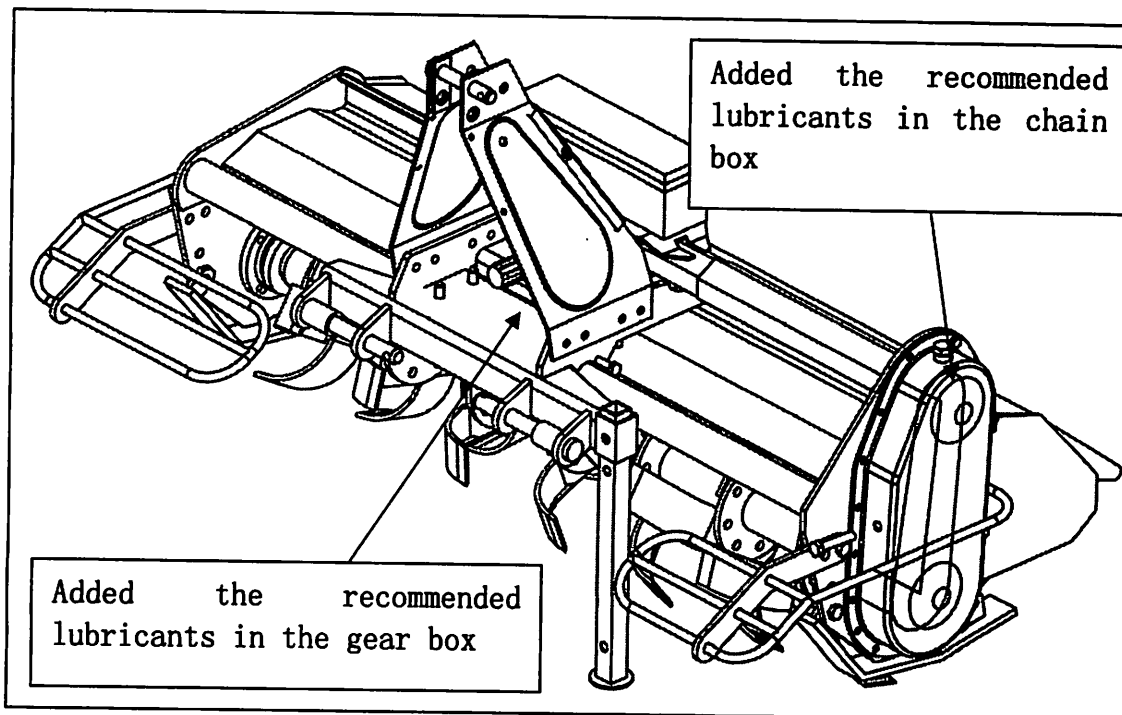
Please remember it is important that you read and heed the safety signs on the rotary tiller, and the safety rules set forth. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. The safe use of this machine is 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 are authorized to do so. Stop the engine, lower all equipment, lock the brakes, and remove the ignition key before dis-mounting from the tractor.
- Never stand between tractor and implement while tractor is being backed to hitch. Loose fitting clothing should not be worn, to avoid catching 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 the 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 the proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.

Table of recommended lubricants

		AGIP	ESSO	IP	SHELL
	Gearbox and side transmission oil	BLASIA 460	GEAR OIL EP320	OIL 460	OIL 460
	Grease	GRMU3	E. P. 3	GR3	R3



WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

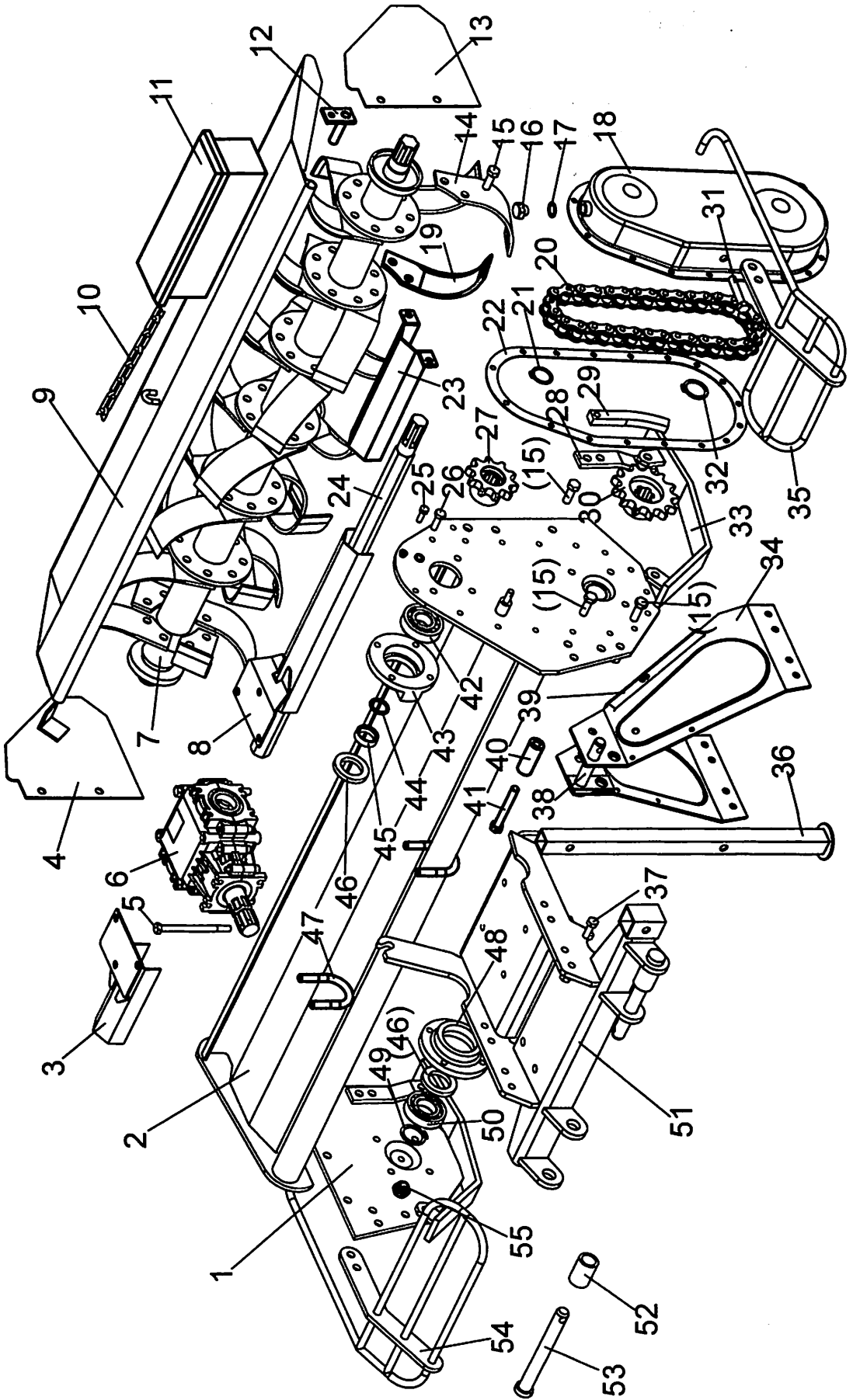
1. PART NUMBER
2. PART DESCRIPTION
3. MODEL NUMBER
4. NAME OF ITEM

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 stabilizer 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 maneuvering 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 into 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

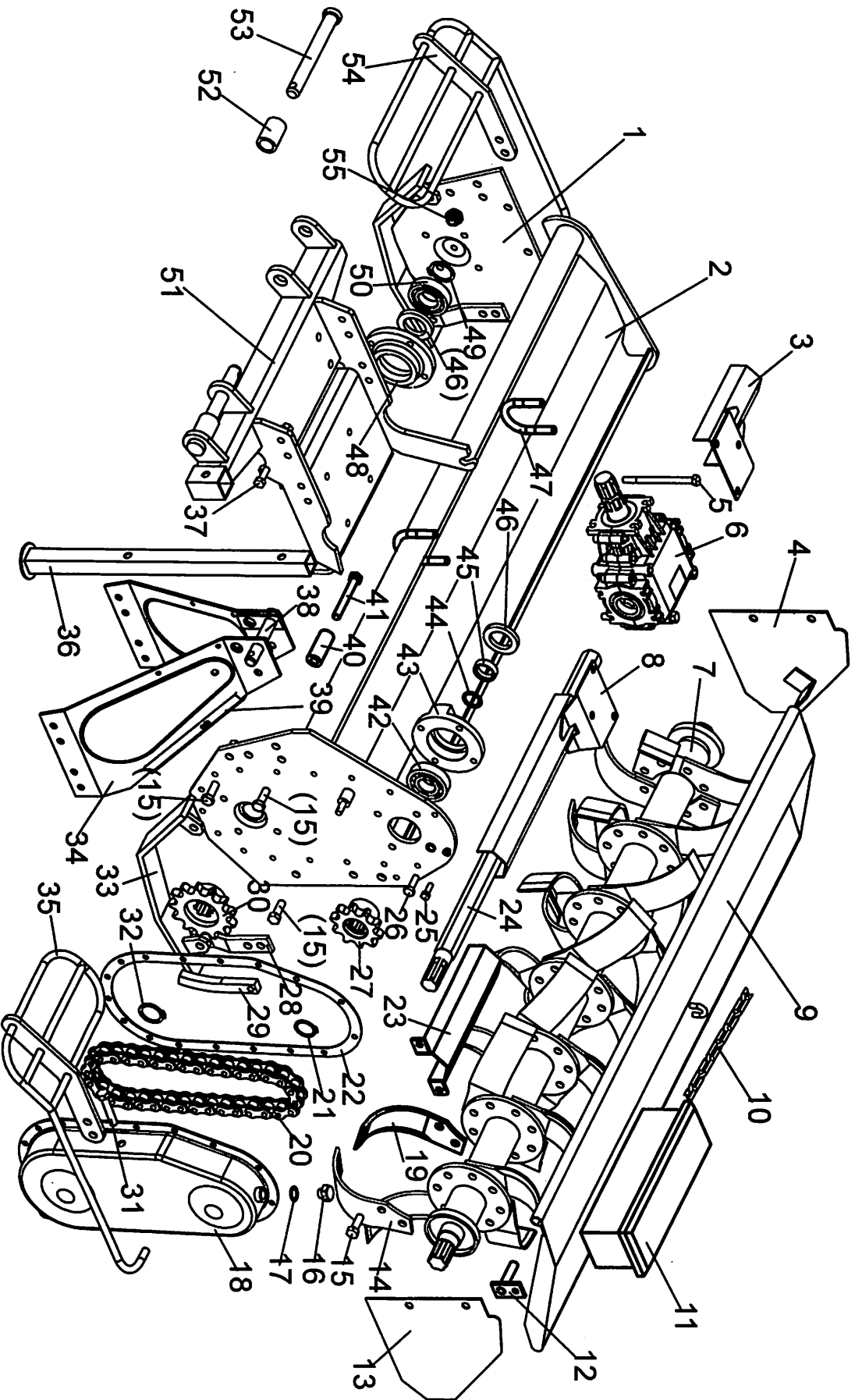
Rotary Tiller Assembly



Rotary Tiller Assembly

NO.	Part NO.	Name & Specifications	Quantity	Remark
1	1GQ-125.11.102	Right supporting plate	1	
2	1GQ-125.11.021	Rotary Tiller case weldment	1	
3	1GQ-125.11.015	Transmission shaft cover (R)	1	
4	1GQ-125.11.154	Protecting plate (R)	1	
5	1GQ-125.11.103	Bolt M10×135	4	
6	XH41100101	Gear box Assembly	1	
7	TL125-90A	Shaft for blade	1	
8	1GQ-125.11.016	Transmission shaft cover (一)	1	
9	1GQ-125.11.020	Rear protecting plate weldment	1	
10		Chains (16 nodes)	1	
11	1GQ-125.11.026	Plastic tool box	1	
12	1GQ-125.11.014	Fixing pole weldment	2	
13	1GQ-125.11.153	Protecting plate (L)	1	
14	1GQ.11.127	Blade (R)	14	
15	GB5783-86	Bolt M12×35	58	
16	CBW-00.112	Oil plug	2	
17	CBW-00.103	Plain washer	2	
18	1GQ-125.11.018	Chain box	1	
19	1GQ.11.128	Blade (L)	14	
20	1GQ-125.11.017	Transmission Chains 16Ax17	1	
21	GB894.1-86	Circlip 30	1	
22	1GQ-125.11.125	Wood gasket	1	
23	1GQ-125.11.023	Transmission shaft cover (二)	1	
24	1GQ-125.11.107	Transmission shaft	1	
25	GB5783-86	Bolt M8×25	17	

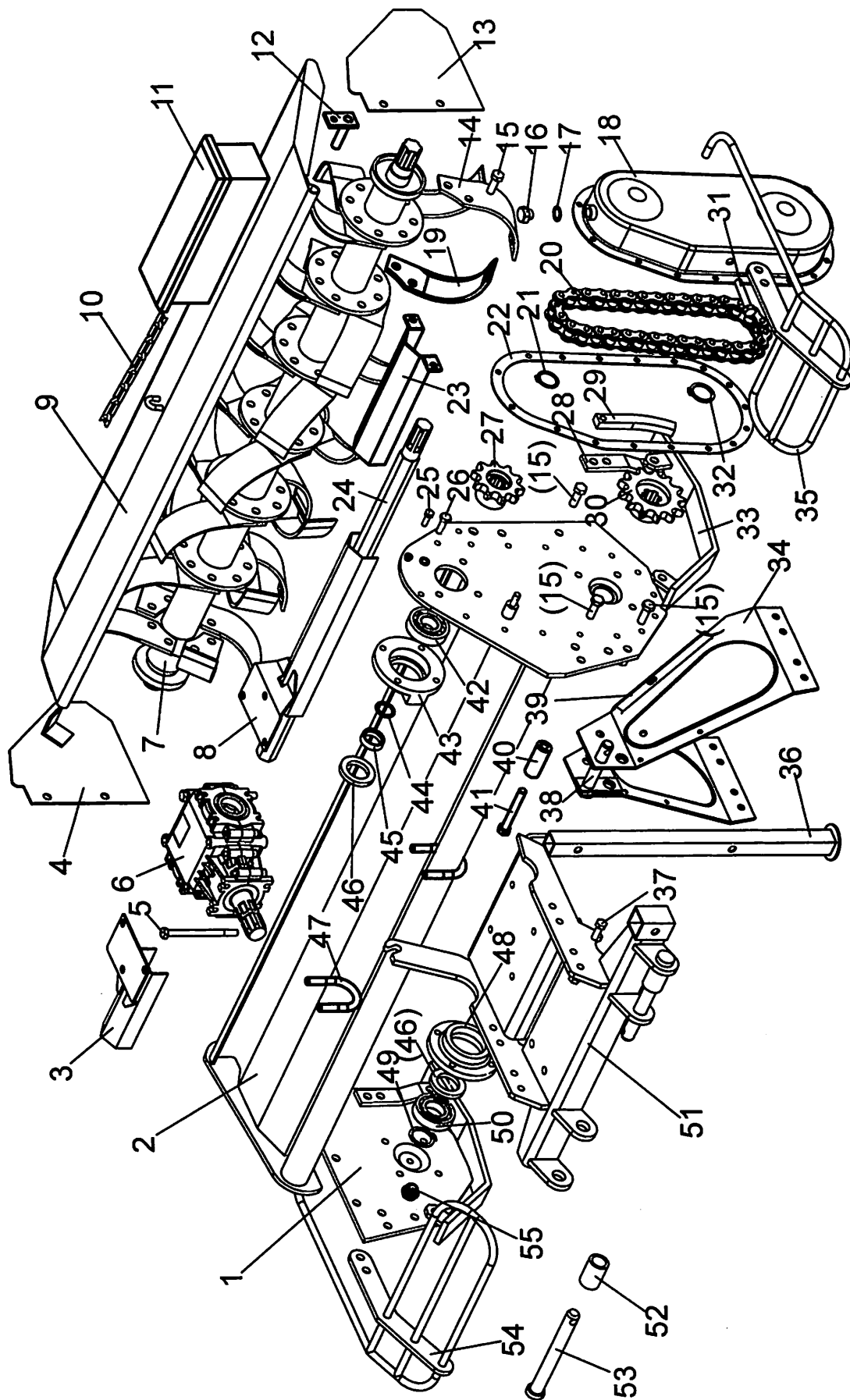
Rotary Tiller Assembly



Rotary Tiller Assembly

NO.	Part NO.	Name & Specifications	Quantity	Remark
26	GB 5783-86	Bolt M10×30	12	
27	1GQ-125.11.123	Drive chain wheel	1	
28	1GQ-125.11.152	Adjusting plate	2	
29	1GQ-125.11.126	Adjusting lath	1	
30	1GQ-125.11.124	Driven chain wheel	1	
31	GB5783-86	Bolt M14×65	1	
32	GB894.1-86	Circlip 34	1	
33	1GQ-125.11.019	Track plate weldment	2	
34	1GQ-125.11.011	Lift plate weldment	1	
35	1GQ-125.11.024	Protecting handrail weldment(LH)	1	
36	1GQ-125.11.022	The brace weldment	1	
37	GB 5783-86	Bolt M10×30	8	
38	EF100.00.019	Pin shaft weldment	1	
39	1GQ-125.11.110	Protecting plate	1	
40	1GQ-125.11.158	Sleeve	1	
41	GB5783-86	Bolt M12×80	1	
42	GB/T 276-94	Bearing 6306	1	
43	1GQ-125.11.109	Bearing seat	1	
44	GB 3451.1 - 82	O-ring 28x2.65	1	
45	1GQ-125.11.108	Transmission shaft sleeve	1	
46	GB9877.1-88	Seal ring FB 40x62x8	3	
47	1GQ-125.11.101	U bolt	2	
48	1GQ-125.11.104	Bearing seat	1	
49	GB894.1-86	Circlip 35	1	
50	GB/T 276-94	Bearing 6207	1	

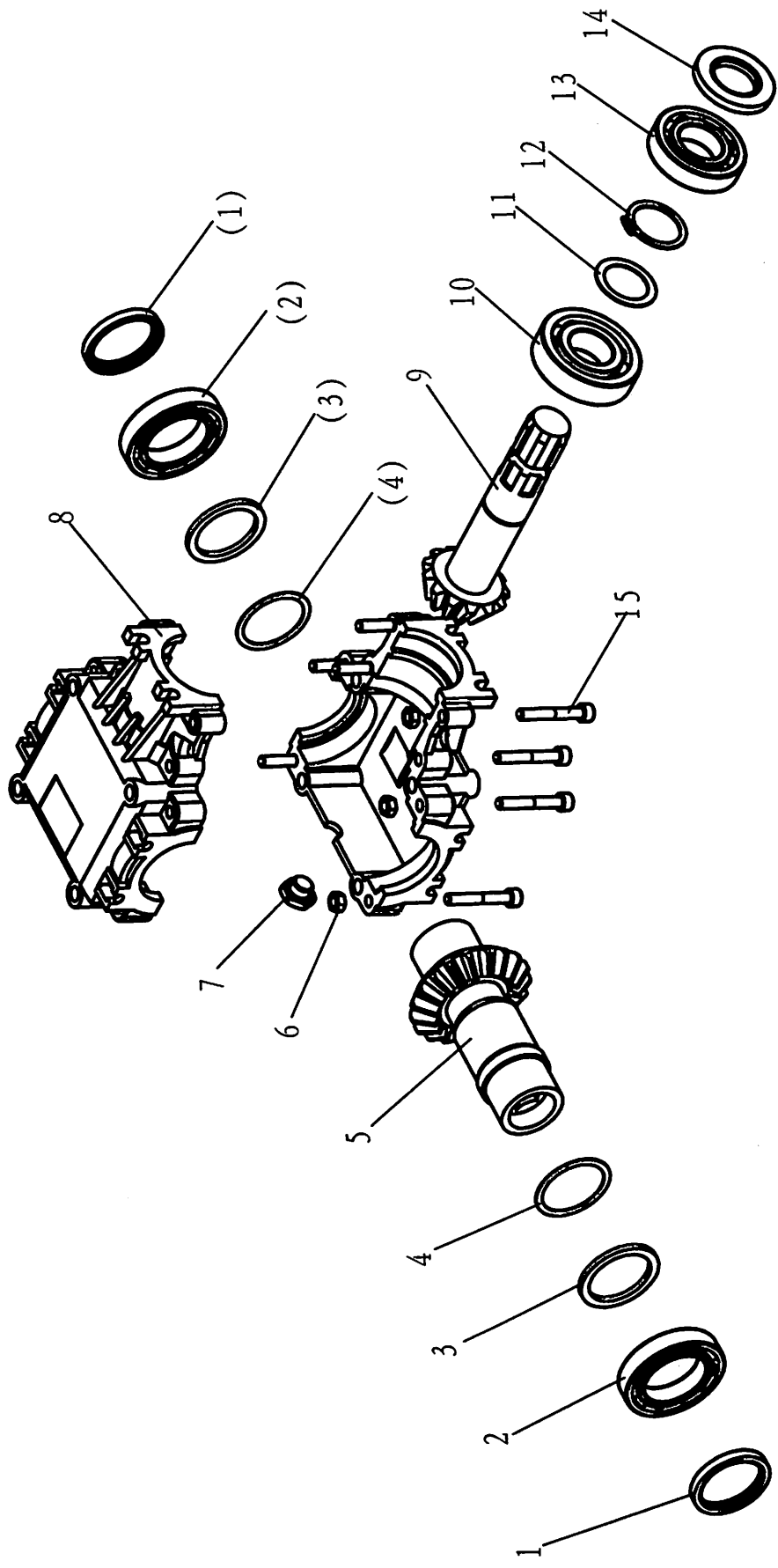
Rotary Tiller Assembly



Rotary Tiller Assembly

NO.	Part NO.	Name & Specifications	Quantity	Remark
51	1GQ-125.11.012	Gear box supporting	1	
52	EF100.00.106	Pin sleeve	1	
53	EF100.00.139	Lift pin shaft	1	
54	1GQ-125.11.025	Protecting handrail weldment(RH)	1	
55	GB11152-89	Grease nipple M10x1	1	

Gear box Assembly



Gear Box Assembly

NO.	Part NO.	Name & Specifications	Quantity	Remark
1	00556263	Oil seal	2	
2	00557126	Bearing	2	
3	41100102	Gasket	2	
4	41100106	Adjusting gasket	2	
5	41100105	Gear shaft	1	
6	00553498	Nut	8	
7	00552899	Oil plug (with O ring)	1	
8	41100108	Gear box case	2	
9	41100109	Gear shaft	1	
10	00557180	Bearing	1	
11	41100107	Adjusting gasket	1	
12	00555204	Circlip for shaft	1	
13	00557150	Bearing	1	
14	00556105	Oil seal	1	
15	00552506	Hex.head bolt	8	

