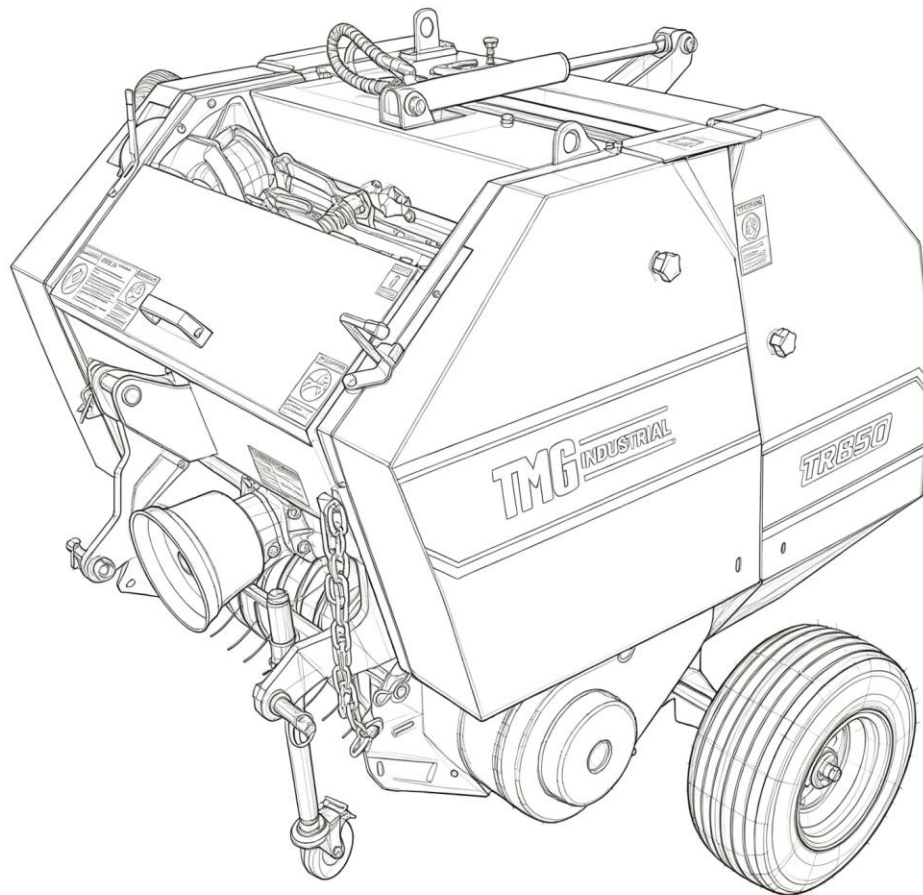


20"X27" Twine Bind Round Baler



⚠ WARNING



- Please read and understand the product manual completely before assembly
- Check against the parts list to make sure all parts are received
- Wear proper safety goggles or other protective gears while in assembly
- Do not return the product to dealer. They are not equipped to handle your requests.

Missing parts or have questions on assembly?

CA/US: 1-877-761-2819 or email: cs@tmgindustrial.com

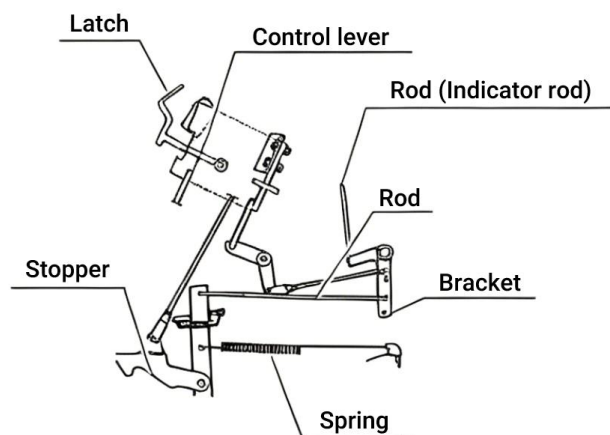
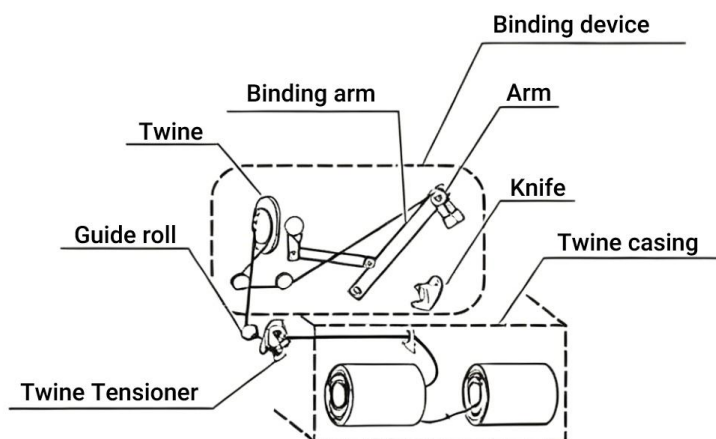
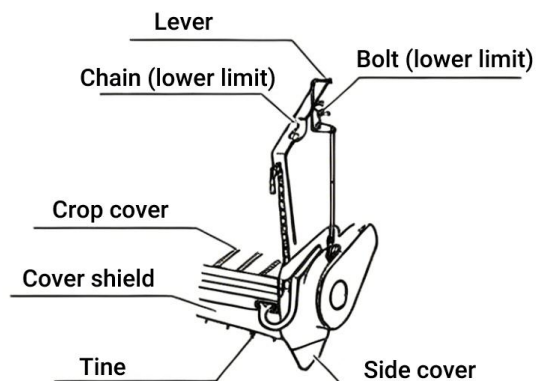
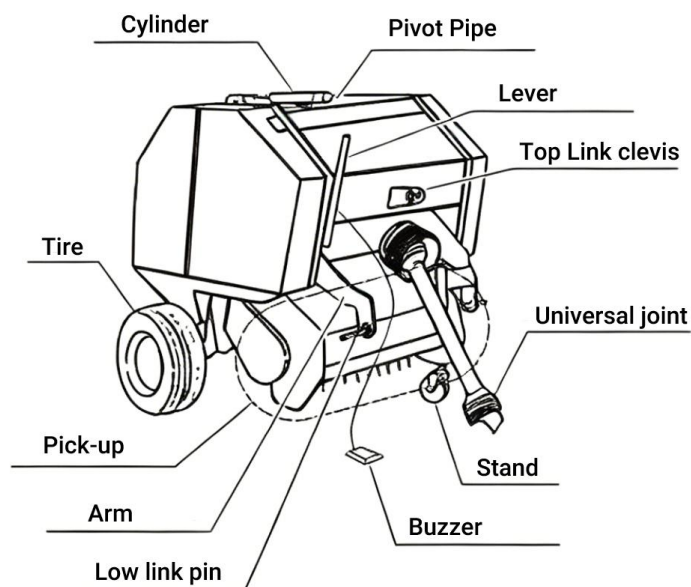
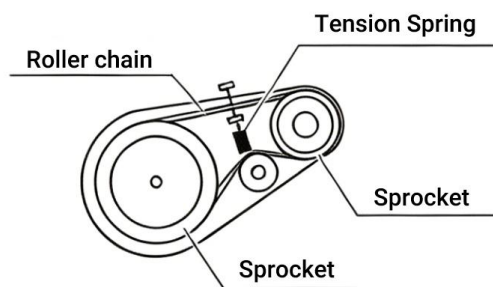
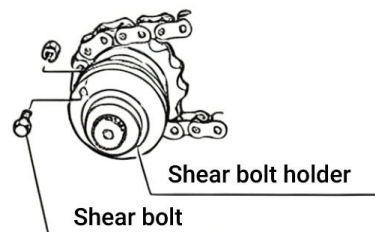
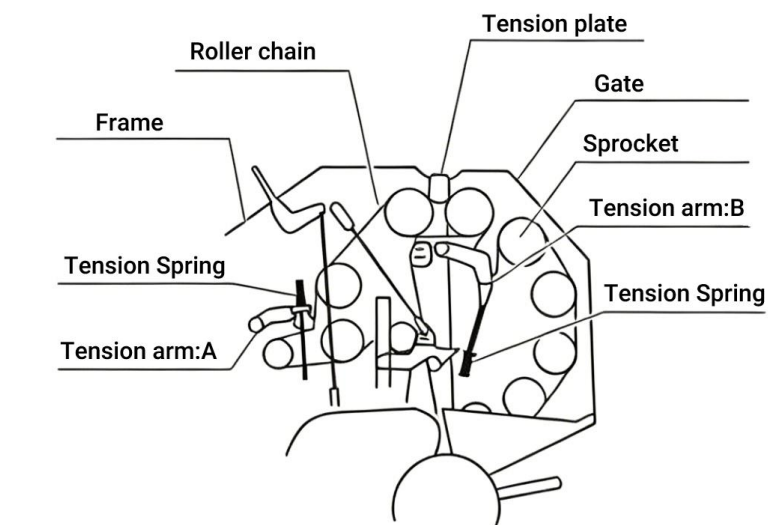
AU: 1-800-870-844 or email: cs@tmgindustrial.com.au

Table of Contents

1.Attaching to a Tractor	3
1.1 Component Identification	3
2.Assemble.....	7
2.1 Unpacking.....	7
2.2 Parts Verification	7
2.3 Assembly Procedure	7
2.4 Tire Removal.....	8
3.Attaching to a Tractor	8
3.1 Universal Joint Installation	11
4.Pre-Operation Inspection	14
4.1 Pre-Operation Checks	14
4.2 Inspection with Tractor Engine Running	14
5.Lubrication Points Chart.....	16
6.Operating Instructions	18
6.1 Intended Use.....	18
6.2 Operating Adjustments	18
7.Off-Season Storage Maintenance.....	21
7.1 Post-Operation Maintenance.....	21
7.2 Unhitching from the Tractor	21
7.3 Off-Season Storage Instructions	21
8.Inspection and Maintenance	22
8.1 Component Adjustments.....	23
9.Troubleshooting.....	26
Troubleshooting table.....	26
10.Parts List	30

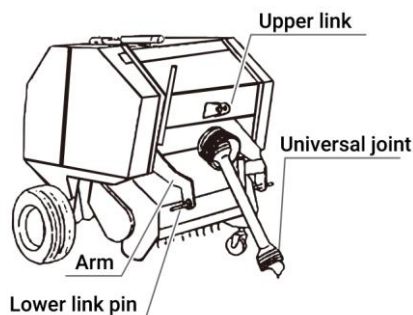
1.Attaching to a Tractor

1.1 Component Identification



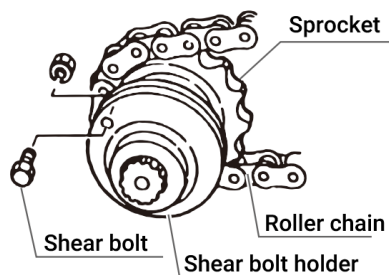
Lower Link Pin and Top Link

Lower and upper link pins connect to the tractor's lower links and top link.



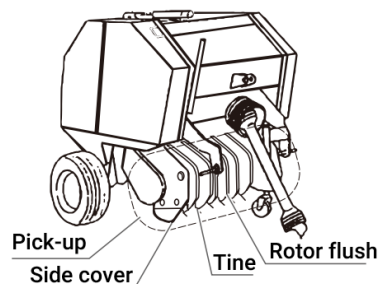
Shear Bolt

The shear bolt breaks when the machine is overloaded, protecting equipment from damage.



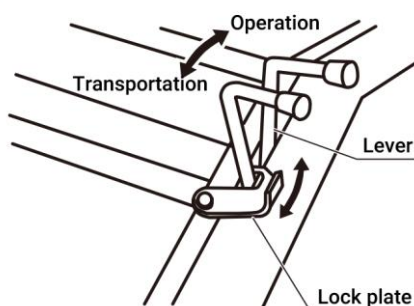
Pick Up Assembly

The pick-up assembly gathers baling material from the ground.



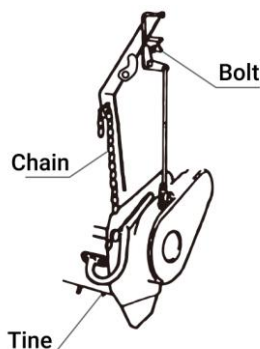
Lever and Lock Plate

The pick-up assembly is raised and secured by the lock plate for machine transport. Release the lock plate to lower the pick-up.



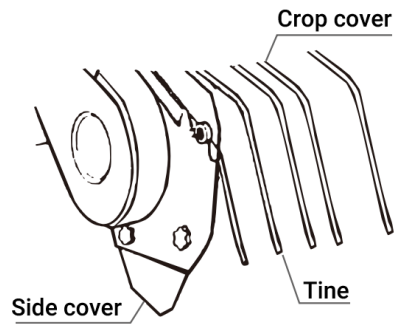
Chain and Bolt (Lower Limit)

This chain and bolt assembly adjusts the pick-up height above the ground.



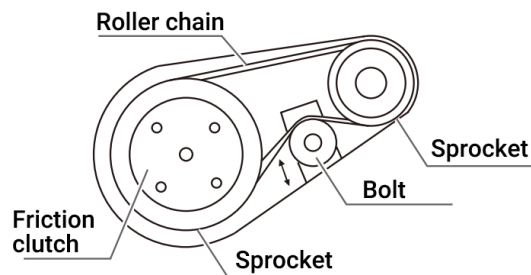
Crop Cover, Cover Shield and Side Cover

The crop cover guides hay and straw smoothly into the bale chamber.



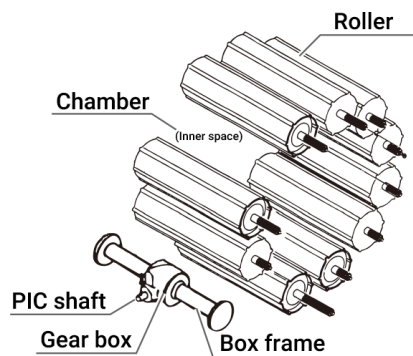
Roller Chain and Sprocket

The roller chain transmits power to drive the pick-up assembly. The friction clutch slips during overload to protect the pick-up from damage.



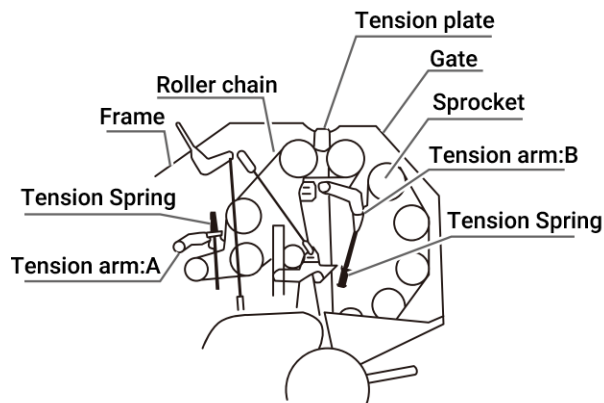
Bale Chamber and Rolls

The bale chamber is enclosed by rolls. The rolls rotate to form crop material into cylindrical bales inside the chamber.



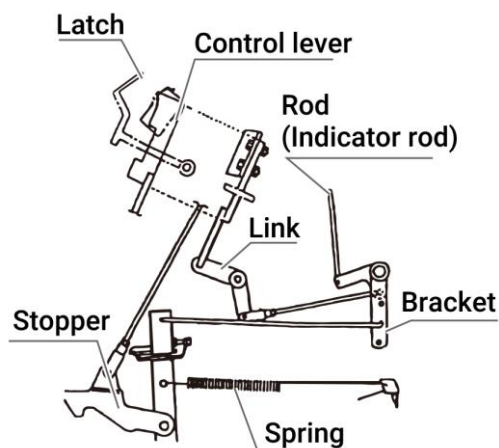
Spring (Tension Spring)

This tension spring maintains proper tension on the roller chain.



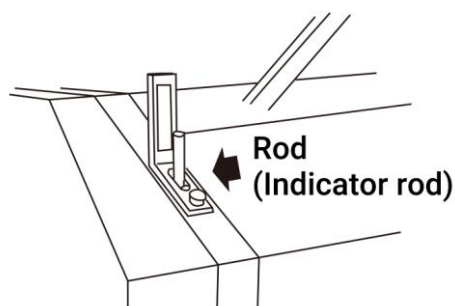
Rod and Bracket

Adjust bale density by repositioning the rod in the bracket holes.



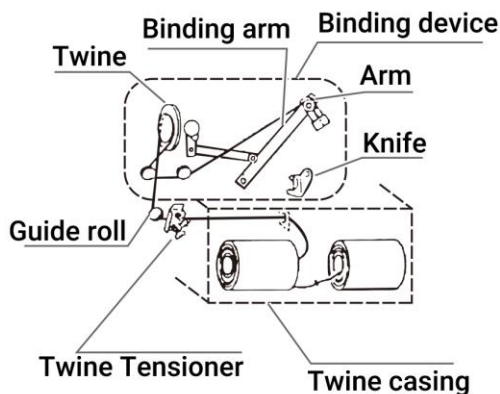
Rod (Indicator Rod)

The indicator rod shows the operator the bale formation progress.



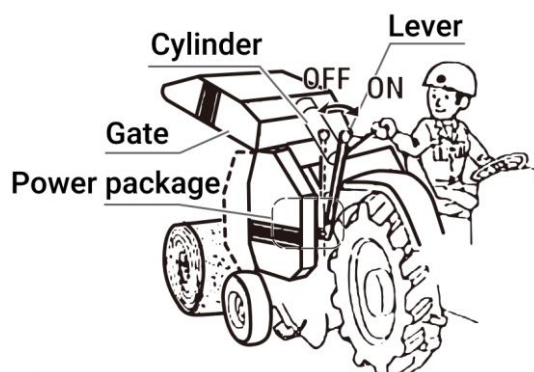
Binding Device

The binding device wraps twine around completed bales.



Hydraulic Power Unit and Lever

The hydraulic power unit actuates the hydraulic cylinder to open and close the gate for bale discharge.



Applicable Tractor Size

This machine is engineered for use with properly sized tractors. Mismatched tractor sizes will negatively impact the baler's durability and operation.

Applicable Tractor Horsepower
15 HP to 50 HP

Do not mount this baler on tractors rated below 15 HP. Tractors under 25 HP must be fitted with front ballast. The baler weighs over 881.8 lb, and insufficient front weight may cause the tractor to tip, resulting in severe accidents due to poor weight balance.

Using this baler on tractors rated above 50 HP may cause equipment damage.

2.Assemble

2.1 Unpacking

Remove all components from the metal shipping crate.

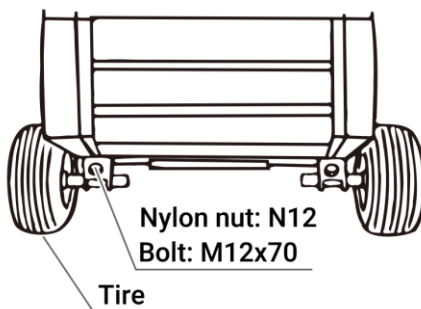
2.2 Parts Verification

Verify that all supplied components match the packing list.

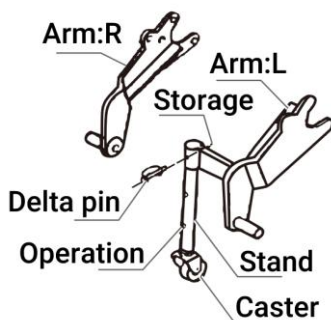
2.3 Assembly Procedure

Use the part numbers listed in the packing list for reference when installing nuts and bolts.

- (1) Mount the tires to the machine and secure them with nylon lock nuts and bolts. Adjust tire spacing to avoid overlapping with tractor wheel tracks.

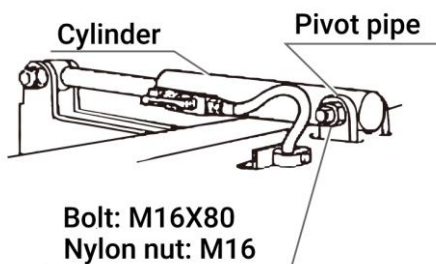


- (2) Install the support stand to the Left Arm (Arm: L).



- (3) Extend the hydraulic cylinder rod, then align the cylinder barrel holes with the pivot pipe holes.

Insert and fasten the bolts.

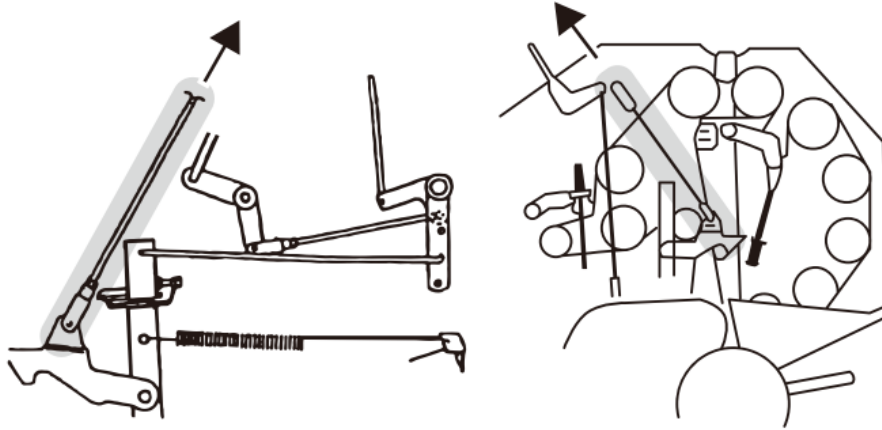


- (4) Install all remaining components per the parts list.

2.4 Tire Removal

Two methods are available to remove tires from the baler.

- (1) Mount the baler to the tractor and connect all wiring. Press the switch to open the baler tailgate; the tires will roll free.
If the tires do not roll out, engage the stop valve to secure the tailgate, then remove the tires manually.
- (2) This method requires three people. Position two personnel on the left and right sides of the baler to lift the rod (see reference photo). A third person stands at the tailgate and lifts it upward. The tires will roll off the baler.
If the tires do not roll out, engage the stop valve to secure the tailgate, then remove the tires manually.



3. Attaching to a Tractor



WARNING

Maintain a safe distance while mounting or dismounting this machine to/from the tractor.



WARNING

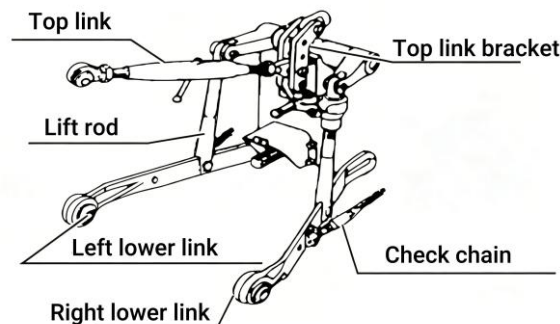
Perform all mounting and dismounting work on firm, level ground.

When used with a lightweight tractor, steering may become unstable. Install front ballast on the tractor before use.

1. Preparation for Attachment

This baler is designed for use with a standard 3-Point Hitch (3PH) tractor.

If the machine cannot be raised to sufficient height, insert the lift rod pin into the forward hole on the lower link.

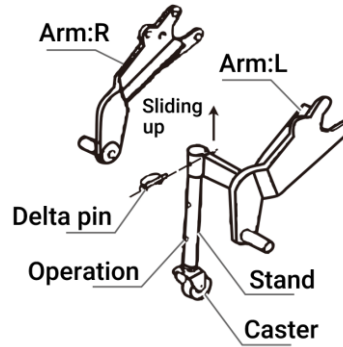


2. Standard 3-Point Hitch Attachment Procedure.

Follow the steps below to mount the unit to a standard 3-Point Hitch.

- (1) Start the tractor engine and back the tractor up until the lower link ends are aligned. Shut off the engine and engage the parking brake.

- (2) Insert the left lower link pin into the right lower link hole. Install the right lower link pin using the same method.
- (3) Turn the adjusting screws to set the left and right lower links to an equal height above the ground.
- (4) If the lower link spacing is too narrow, adjust the left link inward (viewed from the rear of the tractor).
- (5) Raise the machine via the 3-Point Hitch to set the main frame upright. Select the correct position for the main link pin, then install and secure the pin.
- (6) Start the tractor engine, actuate the hydraulic controls for the machine, then shut off the engine.
- (7) Use the check chains to align the PIC shaft and PTO shaft centers. Tighten the check chains to prevent excessive machine movement.



3. Power Unit Control Rope Installation



CAUTION

Route the control rope so it does not contact the universal joint. Maintain sufficient slack to prevent tension during turns.

Secure the rope's terminal end inside the tractor cab (this will not affect normal operation).



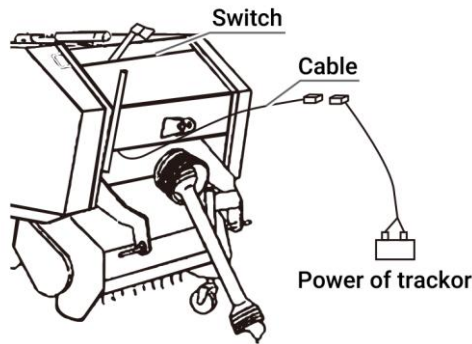
4. Buzzer Installation



CAUTION

Adjust the electrical cable length to leave adequate slack and avoid tension during turns. Secure excess cable to the tractor with fasteners. Turn off the switch when the machine is not in use.

- (1) Mount the buzzer at a convenient operating position.
- (2) Connect the auxiliary wiring to the tractor's 12V power supply.



5. Twine Threading Procedure



WARNING

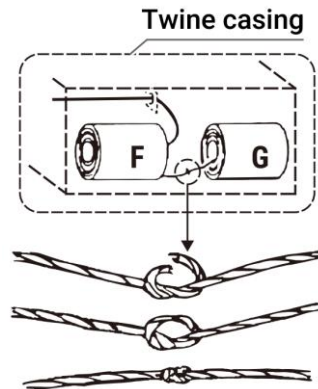
Shut off the tractor engine before threading twine.



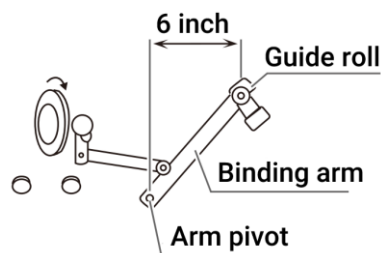
CAUTION

Only use factory-specified twine.:TG0800 (Jute, 8500 ft), TP0800 (Polypropylene, 1100 ft).

- (1) Place two twine spools inside the twine housing.
- (2) Join ends F and G, and tie the smallest possible knot.

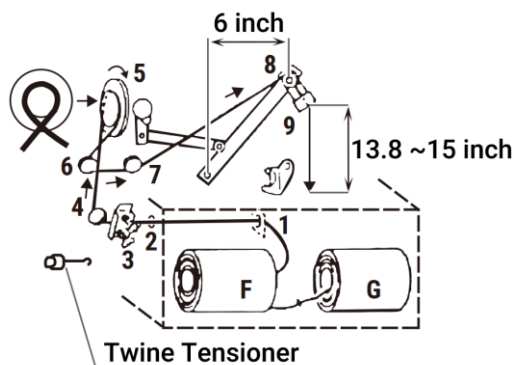


- (3) Rotate the twine pulley in the direction of the arrow until the binding arm moves inward. Stop when the horizontal distance between the binding arm tip and pivot measures 6 inches.



- (4) Route the twine end sequentially through positions 1 through 9.

Use the supplied twine threader for hard-to-reach areas. Cut the twine end to a length of 13.8 to 15 inches, then hang it onto the binding arm tip.



3.1 Universal Joint Installation

DANGER

Do not use a universal joint with a damaged or missing safety guard.

Inspect the universal joint for damage prior to use.

Shut off the tractor engine and disengage the PTO clutch before installing the universal joint.

Secure the safety guard chains to the tractor and stationary machine components to prevent the guard from rotating.

CAUTION

When fully extended, if the overlap between the universal joint's inner and outer tubes is less than 4 inches, the joint may break.

When fully retracted, if the gap between the inner and outer tubes is less than 1 inch, component damage will occur.

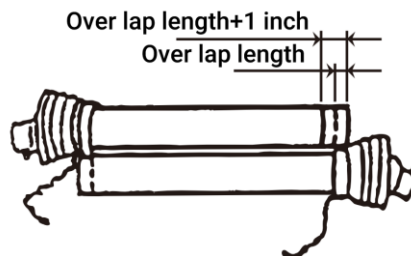
The tubes will press against each other when the machine is raised. Always maintain proper universal joint overlap.

CAUTION

If the universal joint produces noise when the machine is raised by the 3-Point Hitch, adjust the 3-Point lower links.

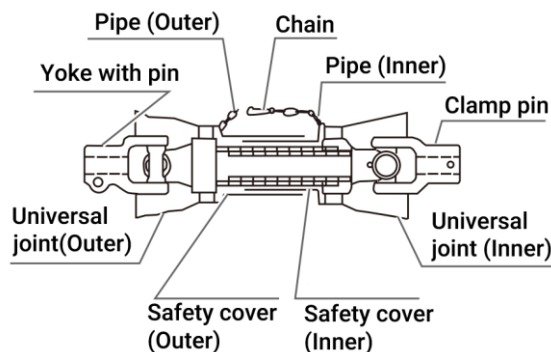
1. Universal Joint Length Inspection

- (1) Slide the outer universal joint tube away from the inner tube.
- (2) Raise the machine and stop when the PTO shaft and PIC shaft are at their closest position.
- (3) Press the yoke retaining pin, then insert the yoke onto the PTO shaft. Push until the retaining pin springs fully into place. Install the second yoke onto the PIC shaft using the same method.
- (4) Nest the two sections of the universal joint together. Mark the overlap line of the outer and inner safety guards, then make a second mark 1 inch inward from this line. Trim the safety guard at the 1-inch mark.



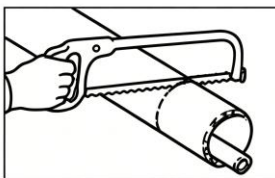
- (5) Raise the machine and stop when the PTO shaft and PIC shaft are at their farthest position.
- (6) Align the two safety guard sections. If the total overlap measures less than 4 inches, replace the universal joint with a longer unit.

If the overlap length is less than 4 inches, replace the universal joint with a longer unit.

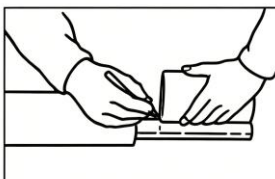


2. Method of cutting

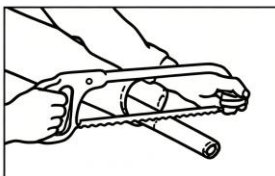
- (1) Trim the excess length from both the inner and outer safety shields.



- (2) Mark the identical cut length on the inner and outer tubes, measuring inward from the tube ends.



- (3) Before cutting, place rags between the safety shield and the tube to block metal shavings from entering the assembly. Cut the excess tube section using a hacksaw.

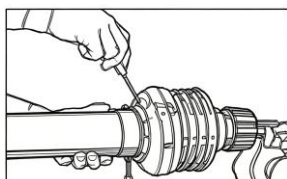


- (4) Deburr and smooth all cut edges, then wipe clean all surfaces. Apply grease to the tubes before sliding the inner tube into the outer tube.

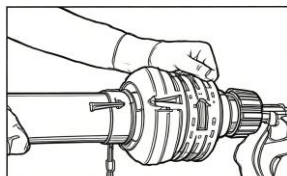
3. Method of outer safety cover removal

- (1) Disassemble procedure of cover

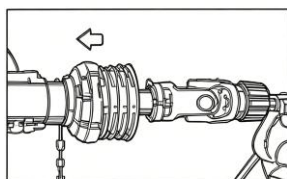
- A. Take out fix screw



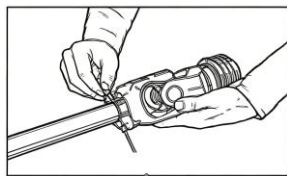
- B. Revolve the cover to the position of release



- C. Pull out safe cover from tube

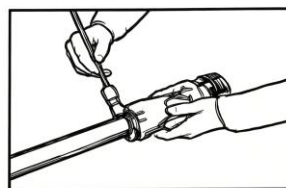


- D. Take out the slide loop

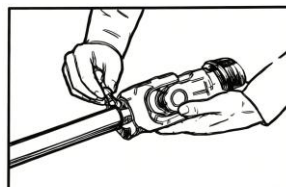


- (2) Assemble procedure of cover

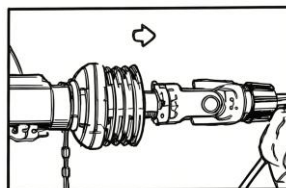
- A. Apply oil to slide loop channel and tube inside



- B. Open the cut mouth of slide loop and imbed it to the channel of tube

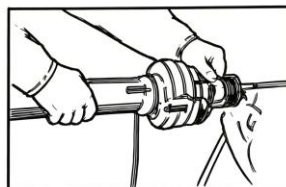


- C. Fit the safety cover



- D. Screw the cover tightly

- E. Fix the position with fix screw



4. Universal Joint Connection

- (1) Connection to the Machine

Press the yoke retaining pin, then slide the yoke onto the PIC shaft. Continue pushing until the retaining pin springs fully into the locked position.

- (2) Connection to the Tractor

Press the yoke retaining pin, then slide the yoke onto the PTO shaft. Continue pushing until the retaining pin springs fully into the locked position.

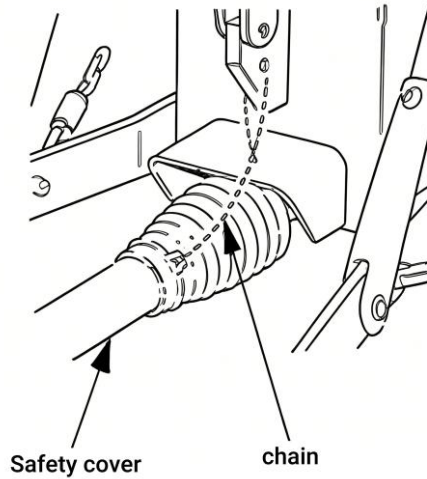


CAUTION

After installing the universal joint, verify that the retaining pins on both the PTO and PIC sides are fully seated in their respective shaft grooves. Loose pins can result in serious injury.

(3) Safety Guard Chain Installation

Secure the safety guard chain to a stationary component on the tractor to stop the guard from rotating. Leave adequate chain slack to avoid tension during 3-Point Hitch vertical movement.



4.Pre-Operation Inspection

Complete the following inspections prior to operation to extend the service life of the machine.

4.1 Pre-Operation Checks

1. Tractor Components

Inspect all tractor components per the tractor's operator manual.

2. Connection Components

(1) 3-Point Hitch Connections

- 1) Confirm locking pins are fully installed in the lower link pin holes.
- 2) Confirm locking pins are fully installed in the top link pin holes.
- 3) Ensure the tractor check chains are properly tensioned.
- 4) If any connection issues are found, resolve them following the Tractor Attachment instructions.

(2) Universal Joint

- 1) Verify retaining pins are seated securely in the PTO and PIC shaft grooves.
- 2) Ensure the safety guard chain has adequate slack.
- 3) Inspect the universal joint safety guard for damage.
- 4) If any universal joint issues are found, perform repairs per the Universal Joint Installation instructions.

3. Machine Components

- (1) Check all nuts and bolts for looseness. Tighten any loose fasteners securely.
- (2) Inspect the shear bolt for shearing. If damaged, replace it with a new bolt by referencing the parts list. Keep spare shear bolts on hand for replacement.
- (3) Verify the roller chain has proper tension. Adjust it following the instructions on Page 23-Roller Chain Tension Adjustment.
- (4) Check pick-up belt tension. Adjust as needed per the instructions on Page 23-Pick-Up V-Belt Tension.
- (5) Verify tension spring dimensions are correct. Adjust the spring length per the instructions on Page 24-Twine Tensioner Adjustment if required.
- (6) Check the cutting edge of the twine knife. Sharpen or replace the knife per the instructions on Page 24-Binding Knife Adjustment if it fails to cut properly.
- (7) Confirm there is sufficient twine, the twine is correctly threaded, and the binding arm is positioned properly. Correct any issues following the instructions on Page 10-Twine Threading Procedure.
- (8) Inspect tines and rotor guards for damage. Replace any damaged parts using the parts list as a reference.
- (9) Check for hay or straw buildup inside the machine. Remove all trapped crop material.
- (10) Verify all oil and grease fittings are properly lubricated. Re-lubricate components per the instructions on Page 15-Lubrication Points Chart if needed.
- (11) Check tire air pressure. Inflate tires to 195 kPa (2.0 kg/cm²) if pressure is low

4.2 Inspection with Tractor Engine Running

1. Tractor Hydraulic System Check

Raise and lower the machine using the hydraulic lift controls.

If the machine remains fully raised and does not drift down, the tractor hydraulics are functioning properly. If a malfunction occurs, contact your tractor dealer for service.

2. Machine Hydraulic System Check

- (1) Gate Opening & Closing Hydraulic Test.



WARNING

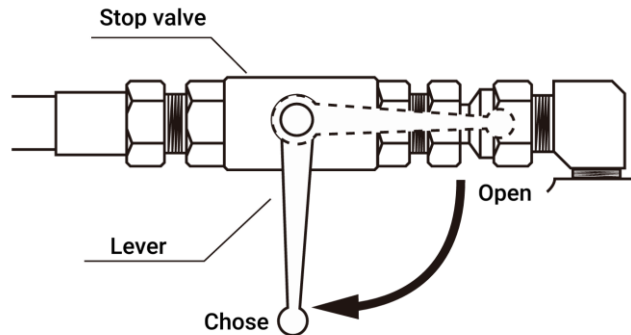
Keep all bystanders clear while the gate is open. Use the stop valve to lock the gate open during inspection.



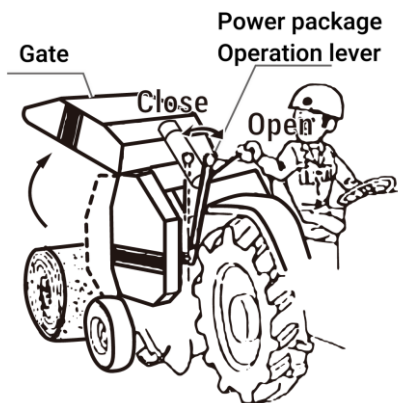
CAUTION

Damaged hydraulic hoses or loose fittings can lead to high-pressure oil leaks and sudden gate drop, which may cause personal injury. Replace damaged hoses and retighten all loose fittings immediately.

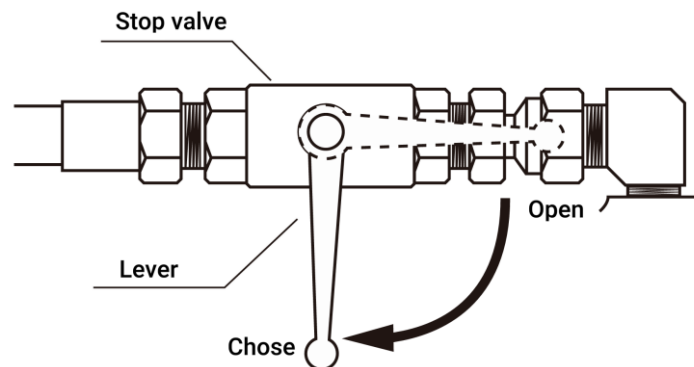
- 1) Turn the gate stop valve lever to the Open position.



- 2) Start the tractor engine, engage the PTO, and operate the power unit lever to open the gate.

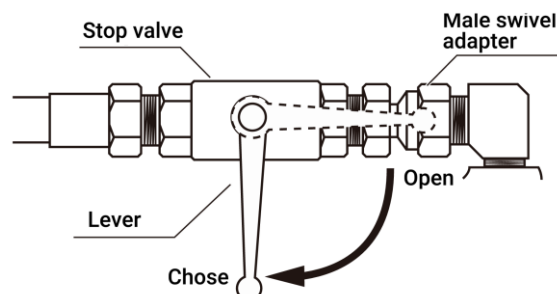


- 3) With the gate fully open, turn the stop valve lever to the Closed position while holding the power unit lever.



- 4) If the gate stays open, the system is normal. If the gate drifts downward, inspect for oil leaks and repair or replace faulty components.

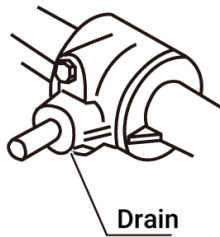
- 5) Slowly turn the stop valve lever toward the Open direction to close the gate. If air is trapped in hoses or the cylinder, loosen the male adapter to bleed air out. Retighten the swivel adapter once all air is removed.



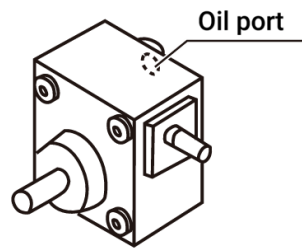
5.Lubrication Points Chart

Use only clean, fresh oil and grease for all lubrication work. When greasing fittings, continue pumping grease until old grease extrudes from the fitting.

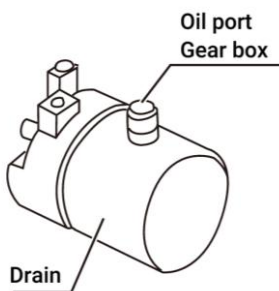
1) Gear box



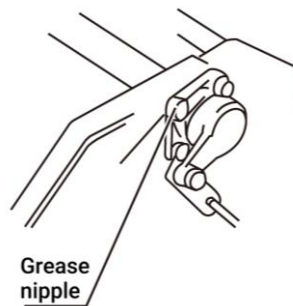
2) Worm gearbox



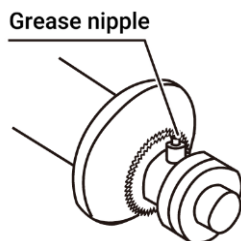
3) Power package



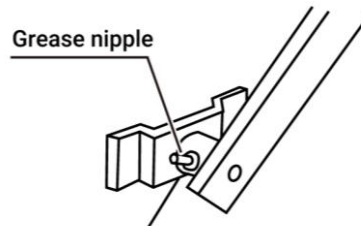
4) Housing



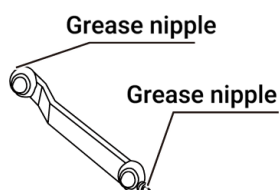
5) Sprocket



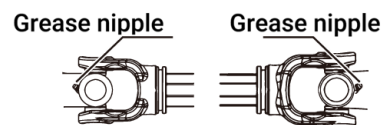
6) Arm support



7)Crank bar



8) Universal joint



9)Tension arm pivot



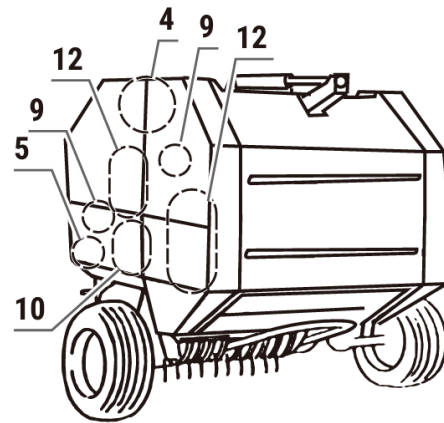
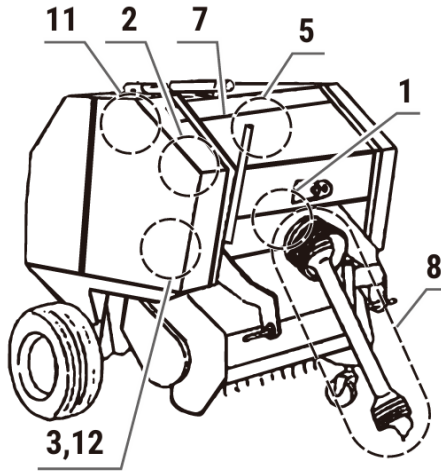
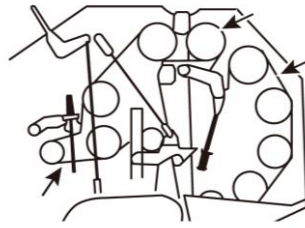
10) Link pivot



11) Gate pivot



12) Roller chain



No.	Lubrication Points	Points	Lubricant Type	Service Interval	Quantity	Remarks
1	Gearbox	1	Gear Oil, SAE 90 API GL-5	After 100 hours or one season	500 g	Drain and clean the gearbox prior to refilling oil
2	Worm Gearbox		Gear Oil, SAE 90 API GL-5			
3	Hydraulic Power Unit	1	Gear Oil, SAE 90 API GL-5	Every 100 hours	1.7 L	Gearbox reservoir
4	Housing	2	No. 3 Grease	After each use	As required	Grease fitting
5	Sprocket	1	No. 3 Grease	After each use	As required	Grease fitting
6	Arm Support	1	No. 3 Grease	After each use	As required	Grease fitting
7	Crank Bar	2	No. 3 Grease	After each use	As required	Grease fitting
8	Universal Joint		No. 3 Grease	After each use	As required	Grease fitting
9	Tension Arm Pivot	2	Oil	After each use	As required	Grease fitting
10	Link Pivot	4	Oil	After each use	As required	
11	Gate Pivot	2	Oil	After each use	As required	
12	Roller Chain	4	Grease	After each use	As required	

6.Operating Instructions

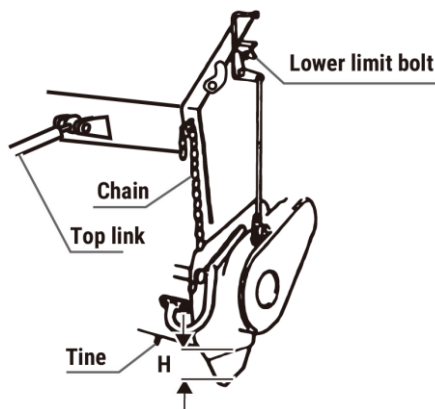
6.1 Intended Use

1. This machine is designed exclusively for baling grass and rice straw. Do not use it for any other applications.
 - (1) Baling hay with a moisture content below 20%.
 - (2) Baling grass for wrapped silage with a moisture content between 50% and 60%.
2. Do not operate the machine on muddy ground immediately after rain. Only use the equipment on fully dry fields.

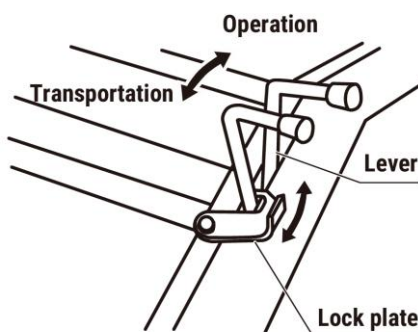
6.2 Operating Adjustments

1. Pick-Up Tine Ground Height

- (1) Set the pick-up tine height using the limit chain and lower limit bolt. Make fine adjustments with the tractor's top link.



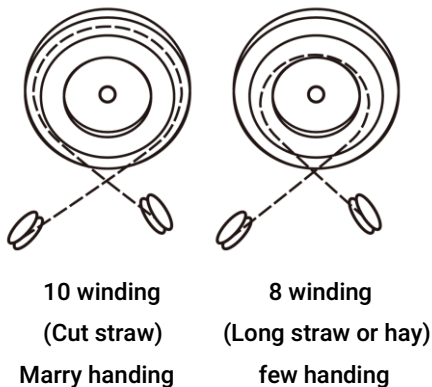
- (2) Use the lever and lock plate to switch between operating position and transport position.



2. Twine Wrap Count Adjustment

Adjust the number of twine wraps based on crop conditions and bale handling requirements.

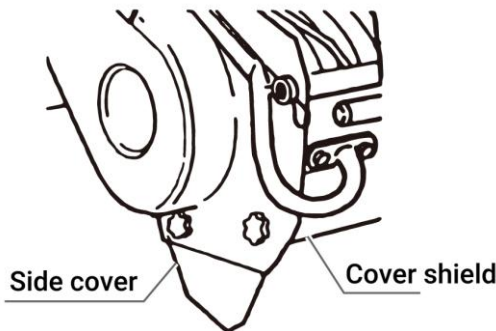
Winding number	Crop	Handling	Twine pulley
10	Cut straw Dried	Many	Big dia. Pulley
	↓	↓	
	↑	↑	
8	Straw Hay Long straw	Few	Small dia. pulley



Adjust the wrap count according to twine thickness. Use more wraps for thicker twine. Refer to the table above for standard settings.

3. Cover Shield and Side Cover Adjustment

Crop	Cover shield/ side cover
Cut straw	Attachment
Hay, Long straw	Removal



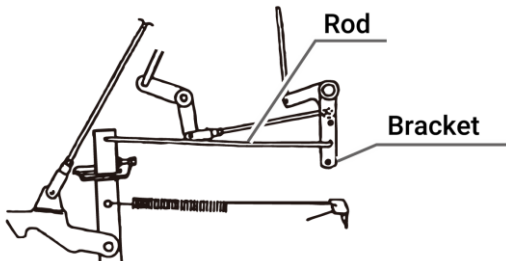
4. Bale Density Adjustment

CAUTION

Producing high-density bales requires greater tractor PTO horsepower. Set the bale density based on tractor capacity, field conditions and crop material.

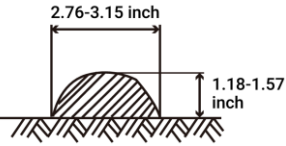
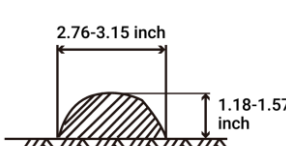
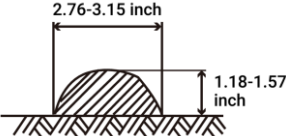
(1) Rod Adjustment

Insert the rod into the upper bracket holes for lower bale density. Insert the rod into the lower bracket holes for higher bale density.



(2) Travel Speed Adjustment

Lower travel speed results in higher bale density. Adjust travel speed to suit operating conditions. Reduce bale density if the chains become hot during operation.

Hay	Long rice straw (straw)		Cut straw
Windrow hay or grass into a continuous uniform swath as shown in the reference diagram below	Straw is chopped and discharged by a 3/4-row rice combine harvester	Straw can be collected with a 2-row rice combine harvester or gathered from pre-tied straw bundles	
		2 rows direct drop	Operation by bundle
	Pickup the straws on the ground directly		It will be more efficient to make straws in a line
			

1. Field Operation

WARNING

Keep all bystanders clear of the machine while the pick-up is rotating.

Shut off the tractor engine before clearing trapped crop material from the pick-up. Do not touch rotating rollers. Always stop the tractor engine when removing grass jammed between rollers.

(1) Turn on the buzzer and engage the PTO, then drive the tractor forward. Adjust the PTO speed according to crop type and moisture level.

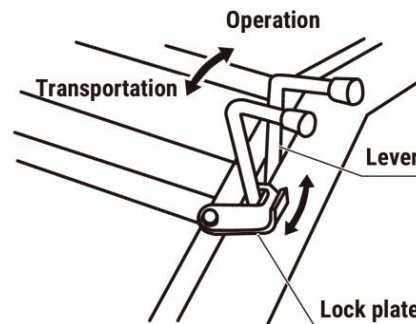
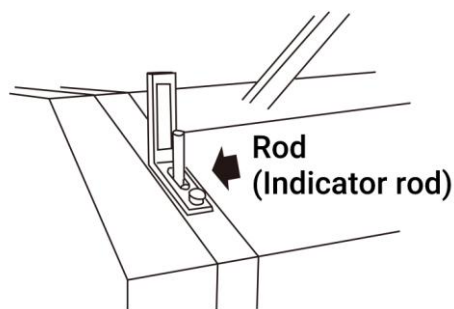
Crop Condition & Moisture Content	PTO speed
Standard crop	540 rmp
Dry, short straw/hay	350-450 rpm
Moist crop prone to pick-up jams	540-600 rpm

Normal forward operating speed ranges from 3–5 km/h. Adjust travel speed to match field conditions.

CAUTION

Do not disengage the PTO while twine is wrapping a bale.

(2) The indicator shows the volume of crop material inside the bale chamber. The indicator rod rises as the bale nears completion. Move the machine to transport position afterward.



(3) When the bale is fully formed, the buzzer will sound and twine will wrap the bale automatically.

CAUTION

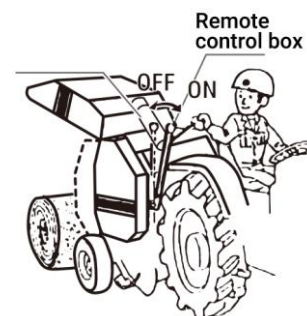
If the twine wrapping cycle fails to start, move forward approximately 1 meter.

(4) Once twine wrapping finishes, the twine cutter activates and wrapping ceases. Press the release button to eject the completed bale.

WARNING

Keep all bystanders clear of the machine while the gate opens. Never eject bales on sloped ground; only discharge bales on level ground.

(5) Release the remote control button to close the gate, then resume baling operations.



Transportation

1. Disengage the tractor PTO.
2. Lower the operating lever and secure it with the lock plate.
3. Turn off the buzzer.
4. Raise the machine fully using the tractor's 3-Point Hitch lift lever.
5. Engage the tractor's 3-Point Hitch transport lock to prevent the machine from dropping during transport.

7. Off-Season Storage Maintenance

Complete the following maintenance work to extend the machine's service life.

CAUTION

Do not clear jammed crop material while the machine is running. Disengage the PTO clutch, shut off the tractor engine, and confirm all moving components have fully stopped before servicing.

7.1 Post-Operation Maintenance

1. Clear all crop residue from the pick-up while in the field.
2. Wipe accumulated dust off the twine binding assembly.
3. Remove any crop material jammed on the rollers.
4. Clean dust from the drive components located on the side of the machine.
5. Replace all damaged or worn components with new spare parts.
6. Inspect all drive and connection components following the inspection points chart.
7. Perform full lubrication per the lubrication points chart.
8. Coat the PTO shaft, PIC shaft, universal joint and all unpainted metal surfaces with grease to prevent rust formation.
9. Lower the support stand before disconnecting the machine from the tractor.
10. Remove the universal joint once the machine is unhitched from the tractor.
11. Disconnect the bale counter battery and power off the counter after finishing work.

7.2 Unhitching from the Tractor

1. Slide down the support stand and insert the locking pin into the uppermost mounting hole.
2. Lower the tractor hydraulic lift lever until the machine's tires rest fully on the ground.
3. Shut off the tractor engine and engage the parking brake.
4. Disconnect the universal joint from the tractor PTO shaft.
5. Detach the right lower link, left lower link and top link connections.

7.3 Off-Season Storage Instructions

1. Thoroughly clean every component of the machine.
2. Inspect all moving and connecting parts by referencing the inspection and maintenance points chart. Replace any damaged or worn parts with new replacements.
3. Complete all lubrication tasks following the lubrication points chart. Apply oil to rotating, pivot and sliding parts including the universal joint lock pins. Coat the PTO shaft, PIC shaft and spline bores of the universal joint yokes with grease.
4. Touch up scratched metal surfaces with paint or apply protective oil to inhibit rust.
5. Store the machine indoors in a well-ventilated area.
6. If outdoor storage is unavoidable, fully cover the unit with a waterproof plastic tarp.
7. Remove the battery from the bale counter for separate storage.

8. Inspection and Maintenance

Perform regular inspection and maintenance to keep the machine in optimal working condition.

Complete all inspection and maintenance items listed in the inspection and maintenance points chart to avoid accidents caused by inadequate servicing.

Tines, shear bolts, cutting knives and baler twine are consumable parts. Replace worn components or restock supplies as needed.

WARNING

Shut off the tractor engine and disengage the PTO before adjusting the twine wrapping assembly.

Engage the gate stop valve to lock the gate open when performing inspection or adjustment work with the gate raised.

CAUTION

Engage the tractor's hydraulic lock circuit whenever the machine is raised for maintenance or inspection to prevent unexpected machine drop.

Only carry out inspection and maintenance on firm, level concrete ground.

Do not service the machine on sloped, uneven or soft ground.

Shut off the tractor engine and verify all machine moving parts have completely stopped before starting any inspection or maintenance work.

Service Interval	Inspection Items	Corrective Action / Specification
After the first 1 hour of operation	1. All nuts and bolts for looseness 2. Roller chain slack	1. Tighten all fasteners 2. Adjust chain tension per Page 23 – Roller Chain Tension Adjustment
Before each operation After each operation	1. Clear all crop residue from the machine 2. Pick-up tine wear 3. Binding knife wear 4. Shear bolt breakage 5. Remaining twine stock 6. Low bale counter battery power 7. Tire inflation pressure 8. Loose or missing nuts, bolts and locking pins 9. Abnormal drive noise or vibration 10. Damaged universal joint safety guard or roller chain guard 11. Lubrication of all rotating and moving components 12. General component adjustments	1. Complete cleaning 2. Replace worn tines 3. Replace worn binding knives 4. Replace broken shear bolts 5. Restock twine as required 6. Replace battery (1 × AA 1.5 V cell) 7. Inflate tires to 195 kPa (2.0 kg/cm²) 8. Tighten loose fasteners and install missing pins/bolts 9. Troubleshoot per Page 26-Troubleshooting Chart 10. Replace damaged safety guards 11. Lubricate all points per Page 15-Lubrication Points Chart 12. Adjust components per Page 23-Component Adjustments
Off-season storage	1. Cracked / broken components 2. Worn parts 3. Full machine cleaning 4. Chipped or scratched paint surfaces 5. Worn pivot bushings and pins	1. Repair damaged components 2. Replace all worn parts with new spares 3. Thoroughly clean every machine component 4. Touch up paint damage or apply anti-rust protective oil 5. Replace worn pivot pins and bushings with new ones

8.1 Component Adjustments

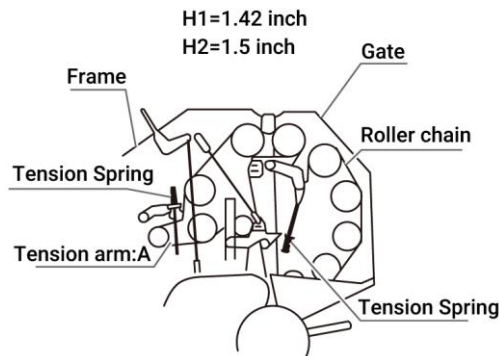
1. Roller Chain Tension Adjustment

Roller chains gradually stretch with prolonged operation. Proper chain tension must be maintained to ensure smooth power transmission.

Chains stretch significantly during initial break-in operation, so tension adjustment is required after the first use.

(1) Tension Spring Adjustment

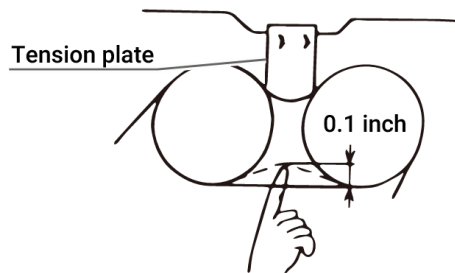
Adjust the tension springs to set the tension for the frame and gate roller chains. Refer to the specifications below for the correct spring length.



(2) Tension Plate Adjustment

Use the tension plate to fine-tune the roller chain running between the main frame and gate.

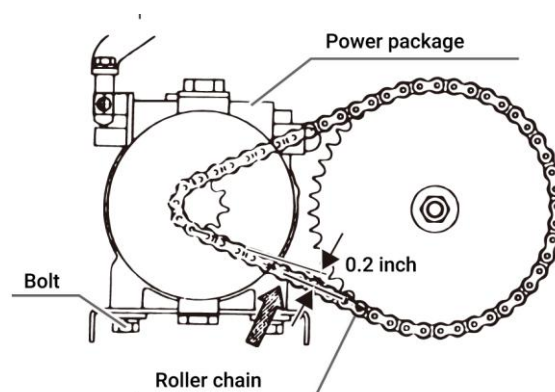
Correct tension yields 0.1 inch of deflection when pressing the chain midspan with one finger.



(3) Hydraulic Power Unit Chain Adjustment

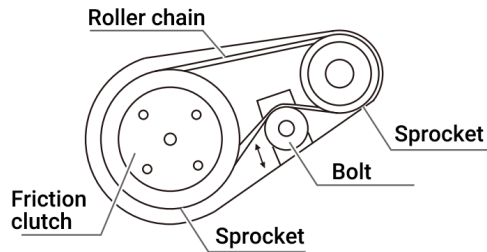
The roller chain driving the hydraulic power unit is adjusted by repositioning the power unit assembly. Press the middle section of chain between the two sprockets with a finger.

The proper tension creates approximately 0.2 inch of chain deflection under finger pressure.



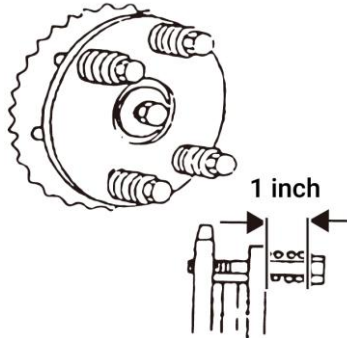
2. Pick-Up Drive Chain Adjustment

(1) Loosen the mounting bolt, rotate the tensioner pulley to adjust chain tension, then retighten the bolt once adjustment is complete. The correct tension produces 0.1 inch of deflection when pressing down on the midpoint of the chain.



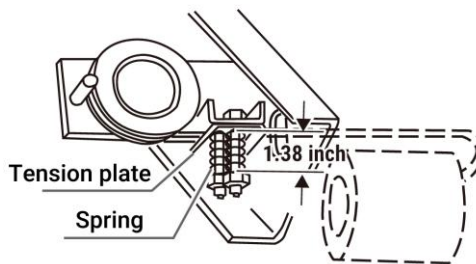
(2) Sliding Clutch Adjustment

Set the four clutch springs to a length of 1 inch.



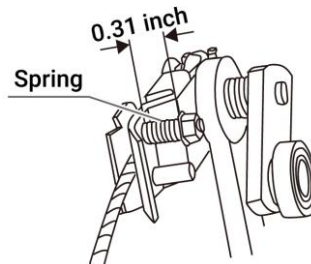
3. Twine Tension Adjustment

Adjust the tension spring length to 1.38 inches.



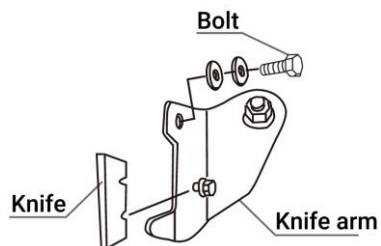
4. Arm Tension Spring Adjustment

Set the spring length to 0.31 inches.



5. Binding Knife Adjustment

Remove the knife and flip it to use the alternate cutting edge if the current edge becomes dull. If both sides of the knife are worn dull, replace the knife with a new one.





CAUTION

Only use genuine factory replacement knives specified for this machine.

6. Bale Density Sensing Link Adjustment

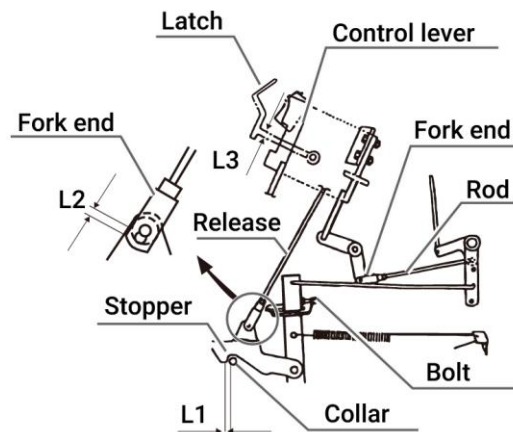
(1) Use the adjustment bolt to set the gap between the gate stopper and collar. The correct clearance range is $L1 = 0.04-0.08$ inches.

(2) Remove the pin from the indicator rod, pull the rod downward, and align the fork slot hole with the hook hole by repositioning the fork end. With the rod held in this lowered position, adjust the distance from the bottom edge of the fork end slot to the stopper hole to the specified dimension below. The standard setting is $L2 = 0.08$ inches.

(3) Adjust the gap between the latch and the cutout on the control bar to the dimension listed below.

Standard setting: $L3 = 0.3$ inches.

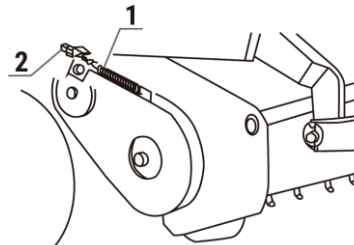
If bales become excessively heavy (over 55.2 lb) due to high crop moisture, reset this gap to $L3 = 0.23$ inches.



7. Pick-Up Suspension Adjustment

The standard length for both pick-up suspension springs is $L = 1.9$ inches.

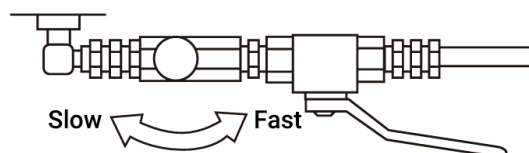
If the pick-up fails to follow uneven ground contours properly, adjust the spring length to suit field conditions. After adjustment, ensure both springs are set to identical lengths.



8. Gate Closing Speed Adjustment

Turn the rotary knob on the hydraulic control valve to regulate gate closing speed.

Turn the knob clockwise to slow the closing speed; turn it counterclockwise to speed the closing speed.



9. Troubleshooting

Refer to the troubleshooting chart to adjust the machine if abnormal operation occurs.

WARNING

Shut off the tractor engine and disengage the PTO before performing any adjustments.

Engage the gate stop valve to lock the gate and prevent it from dropping during inspection or adjustment work.

CAUTION

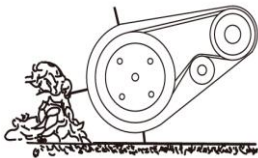
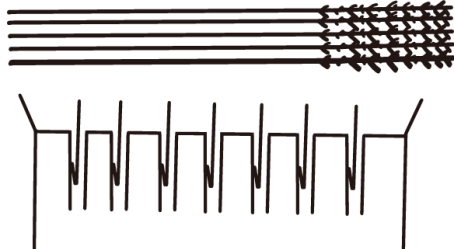
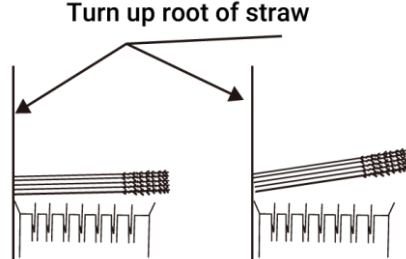
Activate the tractor's hydraulic lock circuit when the machine is raised for maintenance or inspection to stop the machine from falling unexpectedly.

All inspection and maintenance work must only be carried out on firm, level concrete ground. Do not service the machine on sloped, uneven or soft ground.

Shut off the tractor engine, disengage the PTO, and confirm all moving components have fully stopped before starting any inspection or adjustment.

If you cannot identify the fault root cause or resolve the issue via troubleshooting, contact your authorized dealer and provide the details listed below.

Troubleshooting table

Fault Phenomenon	Possible Cause	Remedy
Abnormal operating noise	1. Broken pick-up tine 2. Broken rotor flange 3. Hay or twine wrapped around rotating parts 4. Damaged guide track roller bearing	1. Replace the pick-up tine 2. Replace the rotor flange 3. Remove wrapped crop material and twine 4. Replace the cam roller bearing
Incomplete crop pickup	1. Incorrect pick-up height setting 2. Excessive tractor travel speed 3. Worn or broken pick-up tines	1. Adjust the ground clearance of the pick-up 2. Reduce operating travel speed 3. Replace damaged pick-up tines* Shorten the tractor top link to tilt the machine forward properly
Crop material clogged between pick-up and bale chamber	1. Excessive PTO rotating speed 2. Blockage caused by side cover and cover shield 3. Overly fast tractor travel speed 4. Excessive forward tilt of the pick-up	1. Adjust the PTO speed to the rated range 2. Remove the side cover and cover shield to clear blockages 3. Reduce tractor operating speed 4. Lift and reset the pick-up position, and readjust chain tension
Pick-up fails to rotate	1. Broken shear bolt 2. Loose or detached drive chain 3. Blockage between side plate and plate cover	1. Replace the damaged shear bolt 2. Adjust chain tension or replace the faulty chain 3. Remove the side plate and plate cover to eliminate foreign blockages
pick-up pushes long stem rice straw to forward 	Match the width of the straws to the width of pickup assay 	Picking-up straws from right side of pick-up assay Turn up root of straw 

Roller

Fault Phenomenon	Possible Cause	Remedy
Roller emits abnormal noise	1. Straw or mud stuck on / clogging the roller 2. Lack of lubrication 3. Roller chain tension too loose 4. Dented roller surface	1. Clear wrapped straw, mud and clogged debris 2. Lubricate the roller chain 3. Readjust roller chain tension 4. Replace the dented roller with a new unit
Crop material wraps around the roller	1. Excessively high PTO speed 2. Crop jam inside the pick-up assembly 3. Dented roller surface	1. Adjust PTO operating speed to standard range 2. Resolve per pick-up related troubleshooting items 3. Replace the dented roller with a new unit
Roller chain overheats	* Overly high bale density setting * Insufficient grease lubrication on roller chain * Improper roller chain tension	* Reduce the bale density setting * Apply grease to the roller chain fully * Readjust roller chain tension to specification

Buzzer

Fault Phenomenon	Possible Cause	Remedy
Buzzer fails to activate	1. Buzzer power switch turned off 2. Loose or disconnected wiring 3. Incorrect cable routing/connection 4. Excessive gap between switch lever and twine binding arm	1. Turn the buzzer switch ON 2. Inspect and reconnect wiring to the tractor 3. Realign and correct all cable connections; replace damaged cables if needed 4. Readjust the mounting position of the limit switch

Binding

Fault Phenomenon	Possible Cause	Remedy
Twine wrapping does not activate once the bale is fully formed	1. Twine not threaded to the correct starting position 2. Lack of lubrication on binding components 3. Improper tension spring setting for twine 4. Twine slipped off the pulley 5. Twine tangled or snagged 6. Insufficient crop volume on the left side of the bale 7. Binding arm fails to lift upward 8. Twine end cannot feed into the wrapping chamber	1. Readjust the twine threading following instructions on Page 10 2. Lubricate all binding moving parts 3. Reset the twine tension spring to specification 4. Inspect pulleys and re-seat the twine 5. Clear all tangled and snagged twine 6. Feed more crop material to the left side of the pick-up assembly 7. Lubricate the binding arm and adjust its descent speed using the double lock nuts 8. Slow the descent speed of the twine arm to prevent it from dropping ahead of the twine end; clear obstructions to guide the twine tip into the wrapping chamber

Fault Phenomenon	Possible Cause	Remedy
Twine wrapping cycle triggers before the bale reaches the preset density	1. Binding assembly not returned to the correct home position 2. Dull cutting knife creates excessive leftover leading twine	1. Reset the binding arm to its initial position 2. Replace the worn knife and adjust the length of the leading twine per Page 10 instructions
Twine slips off the finished bale; twine does not cut cleanly	1. Insufficient twine wrapping laps around the bale 2. Twine tension set too loose	1. Increase the number of twine wrapping laps 2. Tighten the nylon adjustment nuts by 1 or 2 full rotations

Gate

Fault Phenomenon	Possible Cause	Remedy
* Bale fails to eject	1. Excessively high bale density setting 2. Excessively wide field furrows/ridges 3. Operating on sloped ground	1. Reduce the bale density setting 2. Adjust travel path to avoid wide ridges 3. Only eject bales on level ground
* Gate cannot open	1. Gate stop valve fully closed 2. Hydraulic hose leakage or rupture 3. Lock hook misadjusted 4. PTO disengaged during ejection 5. Low hydraulic oil level in the hydraulic power unit	1. Open the gate stop valve 2. Repair or replace damaged hoses; bleed air from the hydraulic system before reuse 3. Readjust the lock hook position 4. Keep the PTO engaged and rotate the PTO shaft to discharge the bale 5. Top up hydraulic oil in the hydraulic power unit

Shear bolt

Fault Phenomenon	Possible Cause	Remedy
* Shear bolt shears off repeatedly	1. Operating at excessive PTO speed 2. Straw jammed between rollers 3. Foreign obstructions inside the pick-up assembly 4. Windrow of crop material overly wide 5. Loose shear bolt mounting	1. Operate the machine at the specified standard PTO speed 2. Shut down the machine and clear all jammed straw from rollers 3. Shut down the machine and remove obstructions from the pick-up assembly 4. Adjust working path to narrow the overly wide crop windrow 5. Fully tighten the shear bolt

Universal joint

Fault Phenomenon	Possible Cause	Remedy
* Abnormal operating noise	1. Lack of lubrication 2. Universal joint operating at an excessively steep angle	1. Apply grease to sliding tubes, cross spider assemblies and safety cover mounting points 2. Adjust the length of the tractor top link, lower link stabilizers and lower link upper limit stops to correct the joint angle

Bale density detection link

Fault Phenomenon	Possible Cause	Remedy
* Low, loose bale density	1. The buzzer fails to alert the operator, causing over-compression or incorrect density operation 2. Incorrect dimension setting for the bale density sensing mechanism	1. Troubleshoot and fix the buzzer following the corresponding buzzer fault section in this chart 2. Readjust the bale density sensing assembly to the specified standard dimensions

If you cannot identify the root cause of a fault or resolve the issue via the troubleshooting procedures, contact your equipment supplier and provide the information listed below:

1. Machine name;
2. Model number;
3. Machine serial number;
4. Full detailed description of the fault phenomenon.

10.Parts List

How to Order Replacement Parts

When placing a spare parts order, provide all the information below:

- A. Machine name
- B. Model designation
- C. Part name (refer to the spare parts catalog)
- D. Part number (refer to the spare parts catalog)
- E. Required quantity

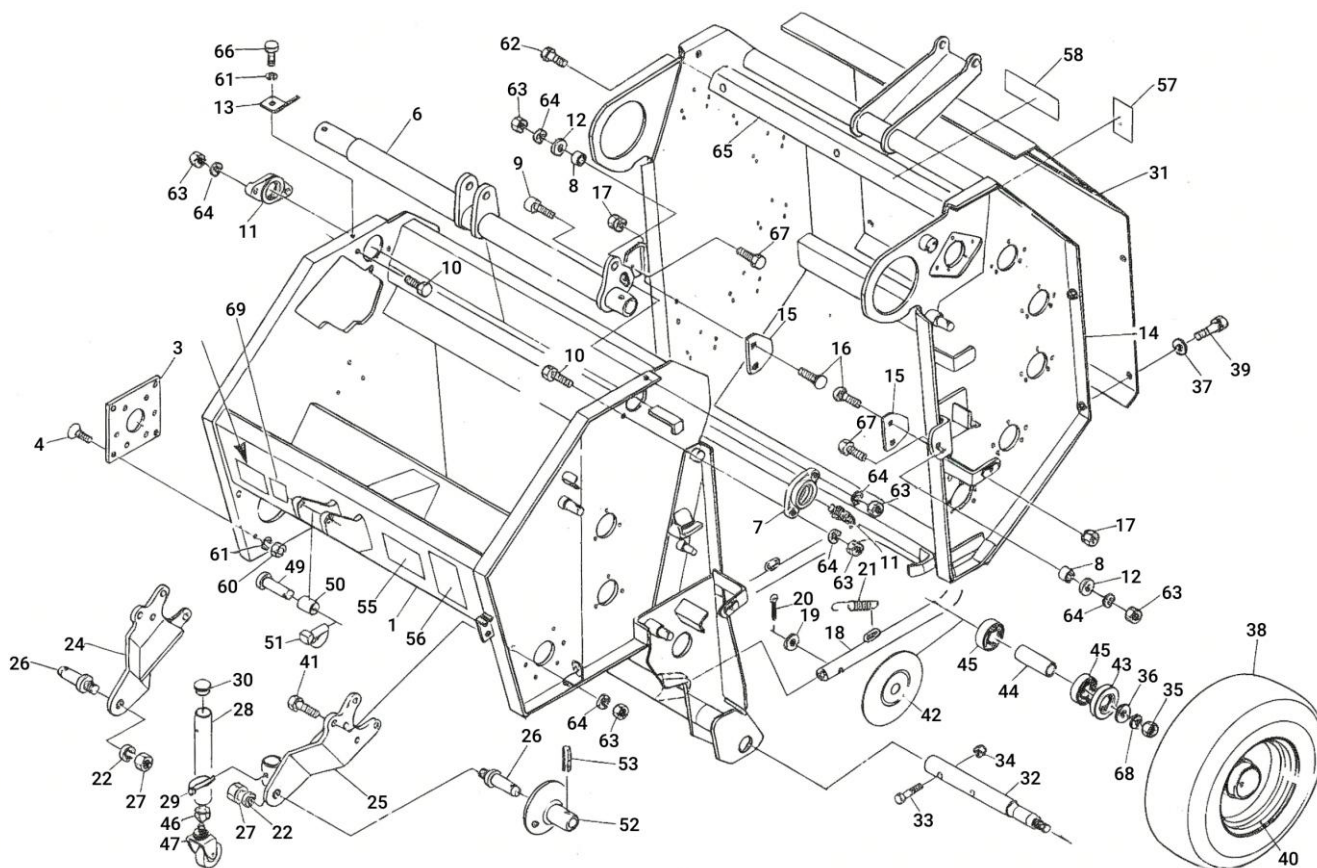
Spare Parts Supply Period

Spare parts for this machine will be available for purchase for 9 years after the production of this model is discontinued.

Please note that delivery lead times may be longer for custom or special components even within this supply period.

As a general rule, spare parts supply will cease once the 9-year period expires. If you submit a parts request after this timeframe, we will quote the applicable delivery lead time and cost for any remaining available components upon inquiry.

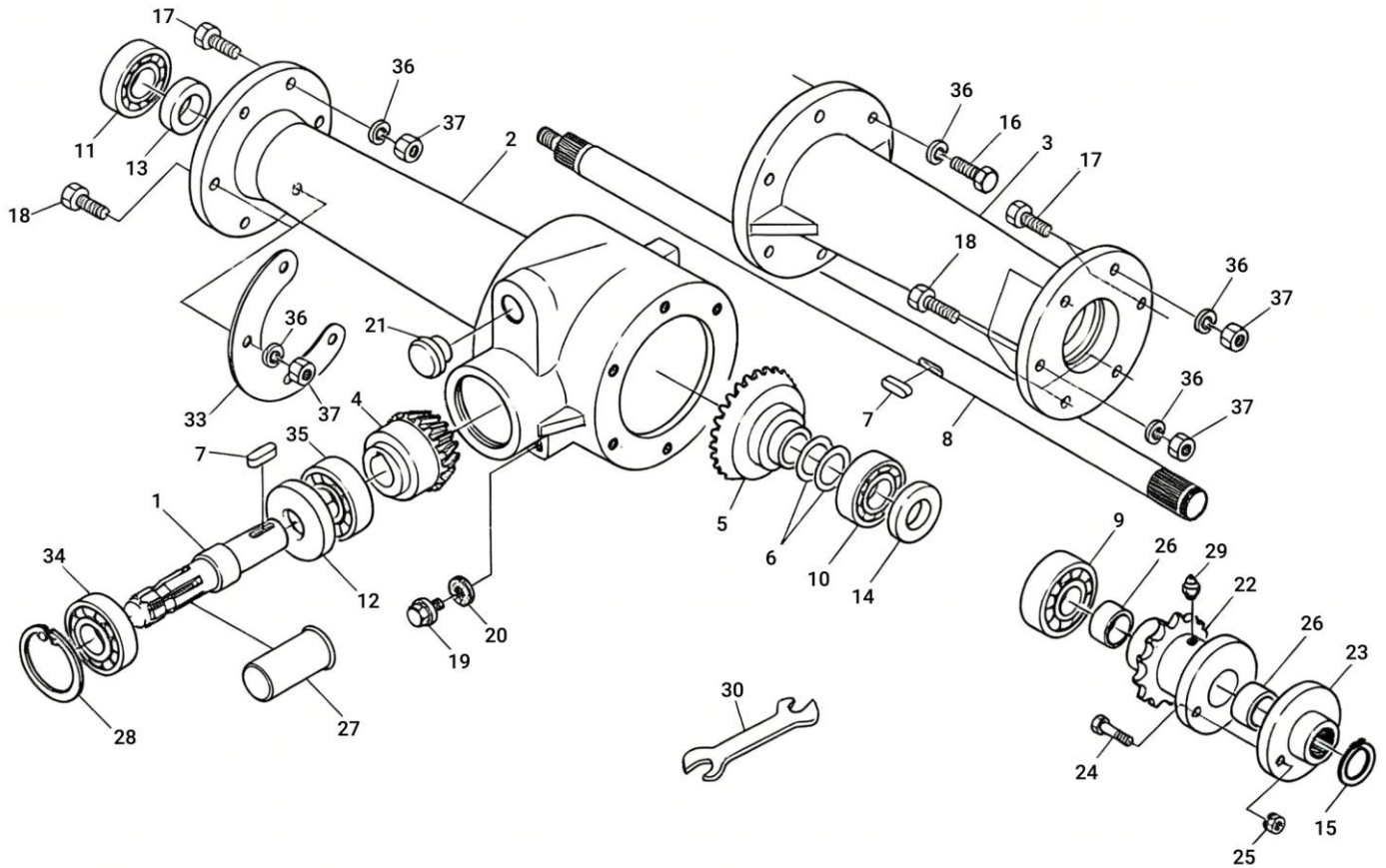
Diagram A frame assy



Part No.	Description	Qty
1	Front frame CP	1
3	Connecting plate	1
4	Bolt M10×25 (8.8)	4
6	Pivot pipe CP	1
7	Top cover	2
8	Sleeve	2
9	Hexagon Socket Head	1
10	Bolt M12×30(8.8)	3

Part No.	Description	Qty
11	Grease nipple ONB6 M6×1	2
12	washer 12.5×3.2	2
13	Hanging plate	1
14	Rear frame CP	1
15	Steel plate	2
16	Square neck bolt	4
17	Nut M8 (8.8)	4
18	Ejector rod CP	1
19	Washer 10	1
20	Split pin 3.2×16	1
21	Extension spring A	2
22	Spring washer 22	2
24	Connecting arm CP: R	1
25	Connecting arm CP: L	1
26	Connection pin	2
27	Hexagon bolt	2
28	Supporting rod CP; 450A	1
29	Bayonet pin 9	1
30	Cover	1
31	Rear cover	1
32	Wheel axis	2
33	Bolt (8.8)	2
34	Nylon locking nut M12	2
35	Hex nut	2
36	Washer 14	4
37	Flat washer 8	9
38	Tire 5.70/5.00-8	2
39	Bolt M8×16 (8.8)	9
40	Hub	2
41	Bolt M12×55 (8.8)	2
42	Cover	2
43	Cove r	2
44	Bush	2
45	Bearing 6205-2RS	4
46	Hex nut	2
47	Caster:100	1
49	Topper Connecting pin	1
51	Battle pin:9	1
55	Warning sticker	1
56	Warning sticker	1
57	Warning sticker	1
58	Sticker: factory name	1
60	Hexagon nut M10 (8.8)	4
61	Spring washer 10	5
62	Bolt M8×25 (8.8)	2
63	Hexagon nut M12	8
64	Spring washer 12	8
65	Bracket CP	1
66	Hexagon bolt M10×25 (8,8)	1
67	Hexagon bolt M12×50 (8.8)	2
68	Spring Washer 14	2
69	Sticker: RPM	1

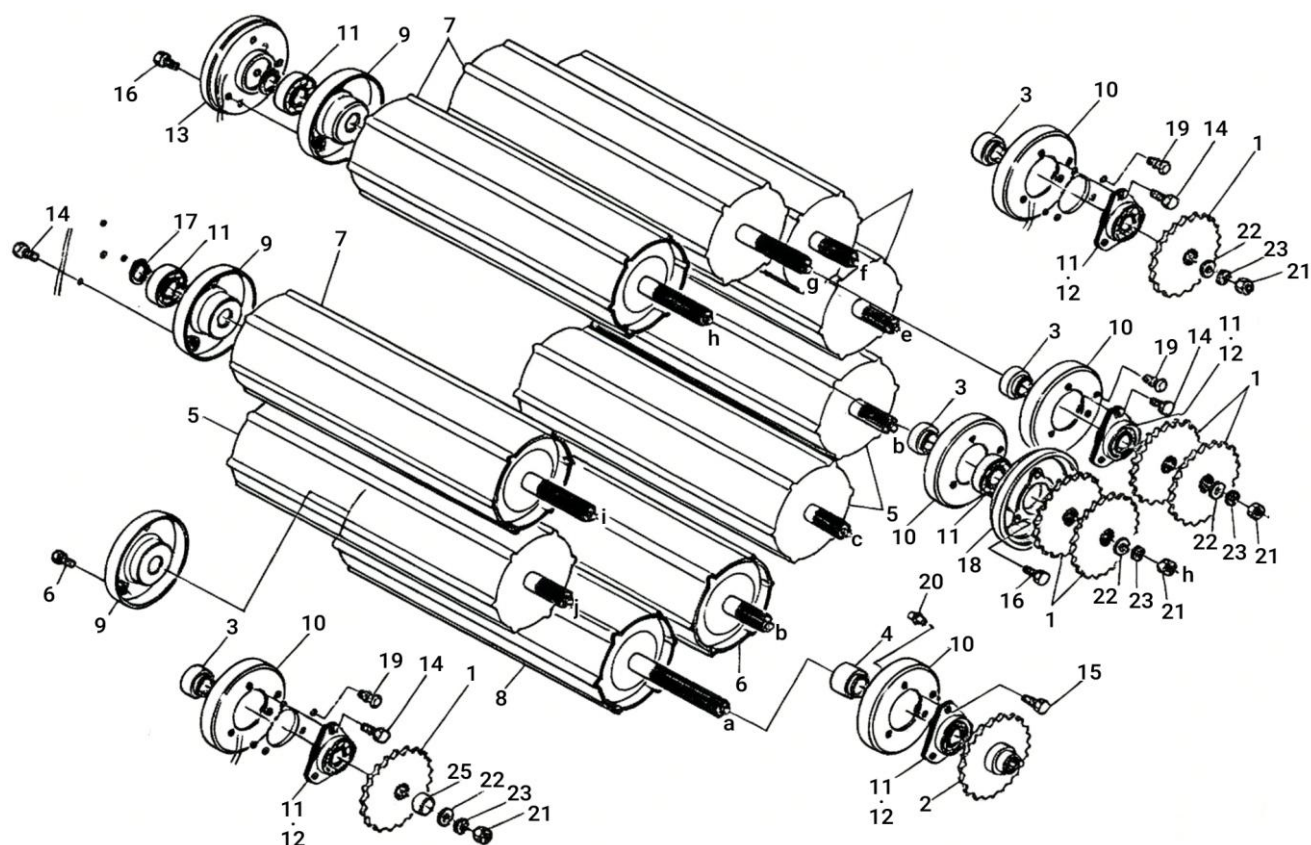
Diagram B gearbox assy



Part No.	Description	Qty
1	Input shaft	1
2	Gear box	1
3	Gear case	1
4	Bevel gear 12T	1
5	Bevel gear 22T	1
6	Shim	2
7	Flat key 7×7×25(A Type)	2
8	Shaft	1
9	Bearing 6305-2RS	1
10	Bearing 6305	1
11	Bearing 6304-2RS	1
12	Oil seal D40×62×10	1
13	Oil seal D25×45×7	1
14	Oil seal D25×52×8	1
15	Shaft retaining ring 25	1
16	Bolt M10X25 (8.8)	6
17	Bolt M10×35 (8.8)	4
18	Bolt M10×50 (8.8)	8
19	Screw plug: M10	1
20	Screw Plug washer: 10	1
21	Plug	1

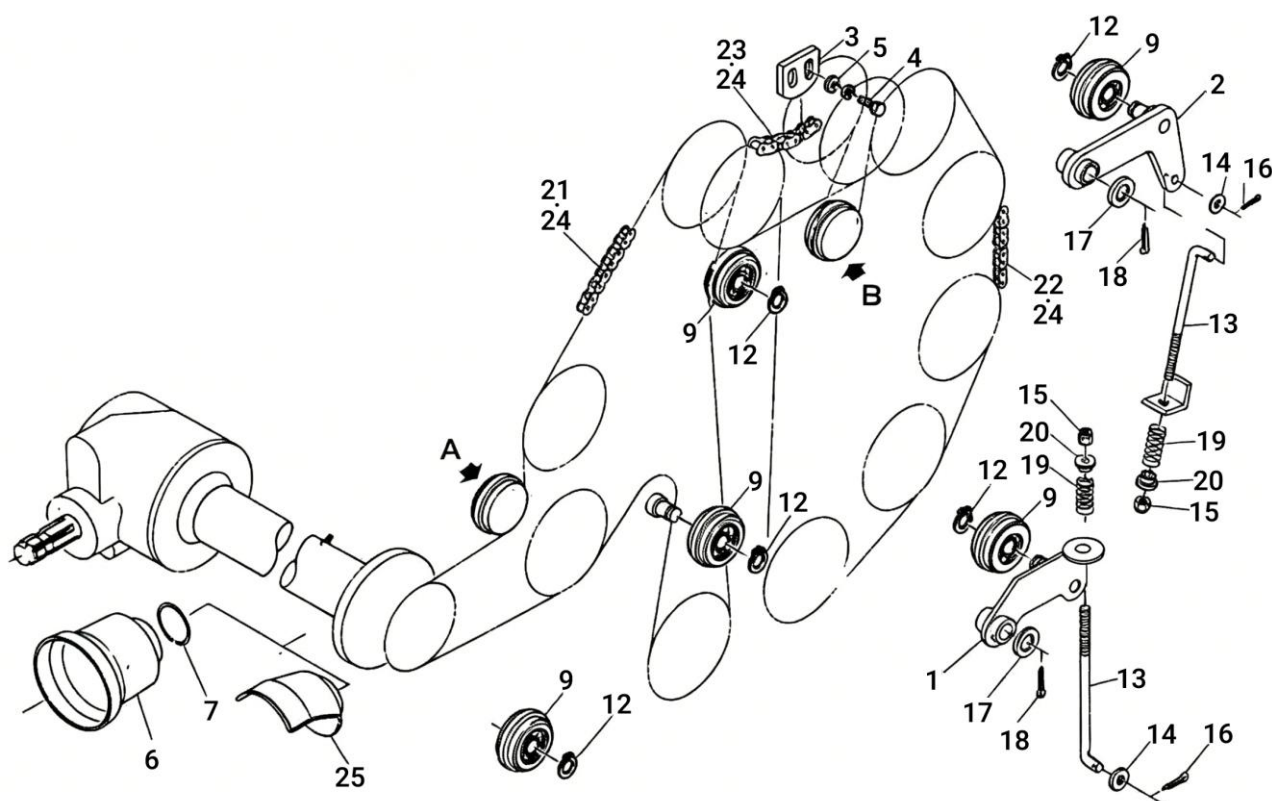
Part No.	Description	Qty
22	Sprocket CP: 16T	1
23	Flange	1
24	Shear bolt M6×30	11
25	Nut M6	11
26	Bush	2
27	Shaft sleeve PIC: 35	1
28	Retaining washer 62	1
29	Grease nipple ONA M6×1	1
33	Steel plate: 4.5	1
34	Bearing 6007-2RS	1
35	Bearing 6206	1
36	Spring washer 10	18
37	Nut M10 (8.8)	12

Diagram C roller assy



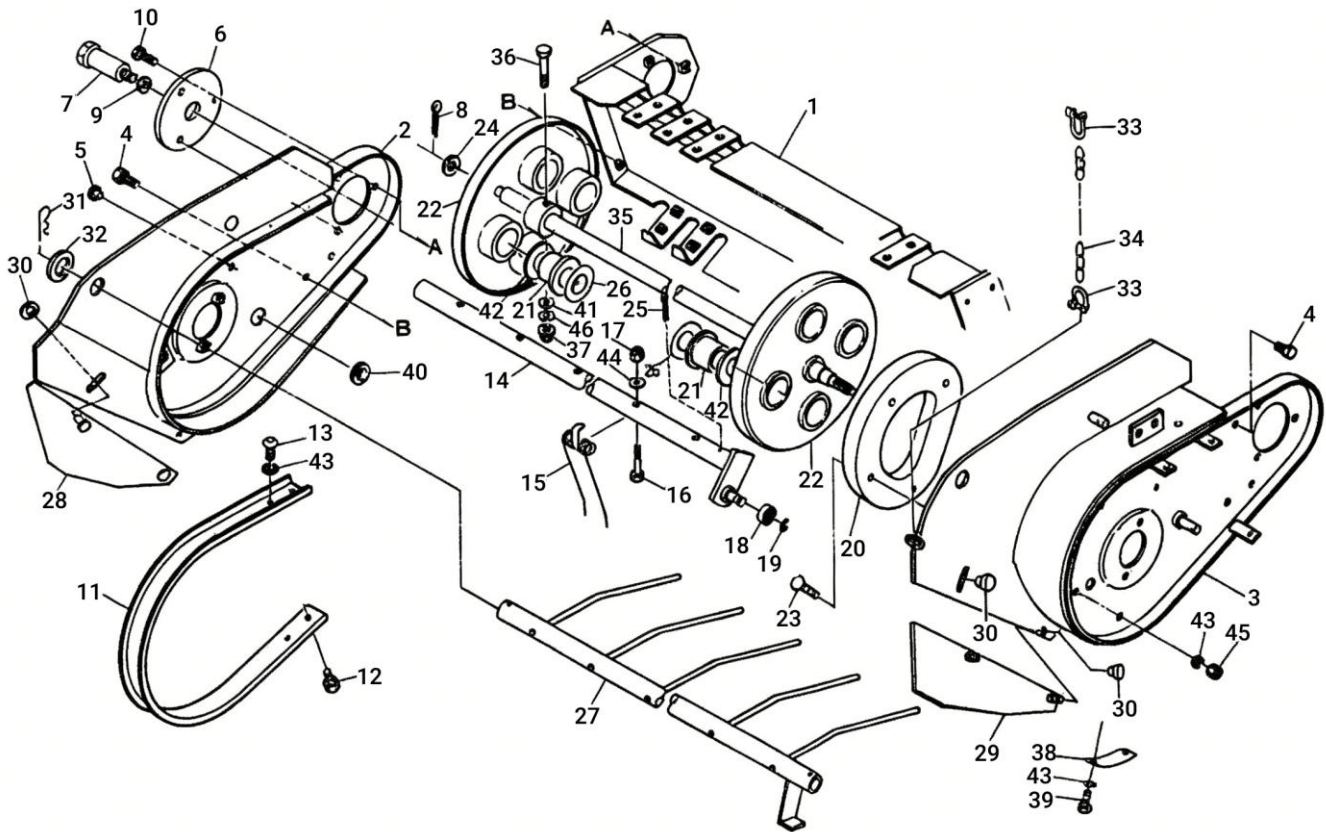
Part No.	Description	Qty
1	Sprocket: 22T	11
	Shim: 25.5X0.6	10
2	Sprocket :22T	1
3	Bush: A	9
4	Bush: B	1
5	Roller CP: 1	5
6	Roller CP: 2	1
7	Roller CP: 3	3
8	Roller CP: 4	1
9	Flange CP	10
10	Flange CP	10
11	Spherical ball bearings CS205-2RS	20
12	Bearing seat	18
13	Cover plate	1
14	Bolt M8×20 (8.8)	48
15	Bolt M8×25 (8.8)	3
16	Bolt M8×30 (8.8)	9
17	Shaft retaining ring 25	10
18	Cover plate	1
19	Rivet: 6×6	18
20	Rivet :6×10 rivet	2
21	Nut M12	9
22	Washer: ø13×4.5	9
23	Spring washer 12	9
25	Bush	1

Diagram D chain transmission assy



Part No.	Description	Qty
1	Pulley bracket CP: A	1
2	Pulley bracket CP: B	1
3	Tension plate	1
4	Spring washer, bolt M8×25 (8.8)	2
5	Washer 8	2
6	Shaft 650	1
7	Steel wire retaining ring: S	1
9	Pulley CP	6
12	Shaft retaining ring 17	5
13	Pull rod YK0850	2
	Pull rod YK0870	2
14	Flat washer 10	2
15	Nylon locking nut M 10	2
16	Split pin 3.2×16	2
17	Washer 21×1.5	2
18	Split pin 3.2×32	2
19	Spring	2
20	Spring seat	2
21	Chain 50SH-144-1 YK0850	1
	Chain 50SH-168-1 YK0870	1
22	Chain 50SH-126-1 YK0850	1
	Chain 50SH-146-1 YK0870	1
23	Chain 10A-42×1	1
24	Chain joint 50SH	3

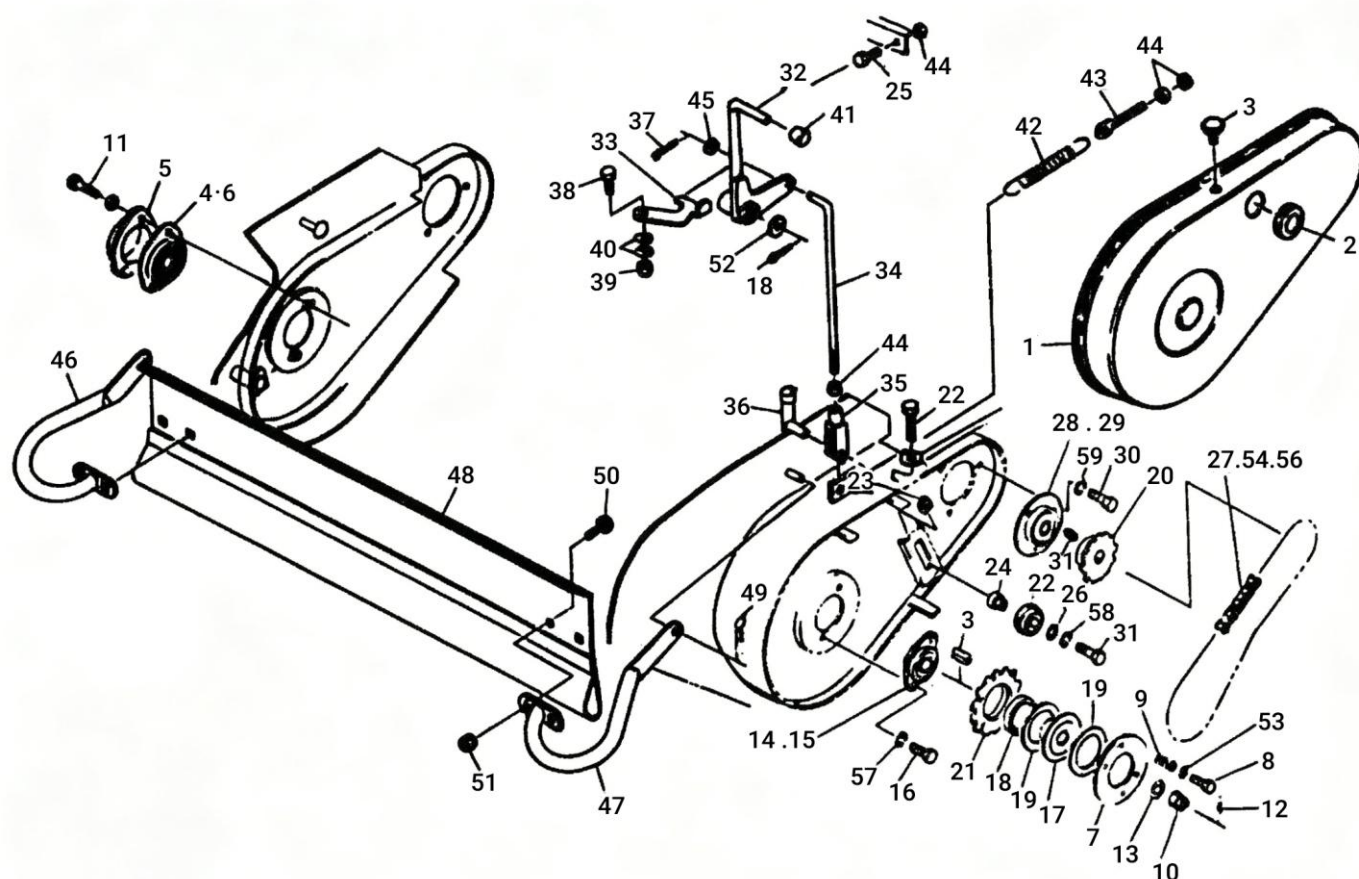
Diagram E picking up assy



Part No.	Description	Qty
1	Picking-up Assy bracket CP	1
2	Picking-up Assy bracket CP: R	1
3	Picking-up Assy bracket CP: L	1
4	Bolt M8×20 (8.8)	5
5	Cover: 9	5
6	Steel plate	1
7	Axis	1
8	Split pin 5×36	1
9	Spring washer 14	1
10	Bolt M8×25 (8.8)	3
11	Protecting spring teeth	11
12	Bolt M8×20 (8.8)	22
13	Hexagon Socket flat Head Screw: M8×20(10.9)	22
14	Teeth rod CP	4
15	Spring	24
16	Bolt M8×55 (8.8)	24
17	Nylon locking nut M8	24
18	Bearing 6201-2 RS (35×12×10)	4
19	Shaft retaining ring 12	4
20	Leading track	1
21	Nylon sleeve	8
22	Racket CP	2

Part No.	Description	Qty
23	Hex Socket Countersunk head screw M8x20(12.9)	4
24	Shim	2
25	Split pin 5×56	8
26	Washer 35×1.2	12
27	Spring teeth assy CP	1
28	Side cover shield (Optional)CP: R	1
29	Side cover shield (optional)CP: L	1
30	Plum nut(optional) M8	4
31	B Pin 19×3	2
32	Washer	3
33	D Shackle;6-1/4	2
34	Rectangle welding chain 4×23P×32	1
35	Axis	1
36	Bolt M10×70 (10.9)	2
37	Nylon locking nut M10	2
38	Plate	1
39	Bolt M8×12 (8.8)	2
40	Cover	1
41	Washer 10	2
42	Washer 43×3.5	8
43	Spring washer 8	28
44	Washer 8	24
45	Nut M8 (8.8)	4
46	Spring washer 10	2

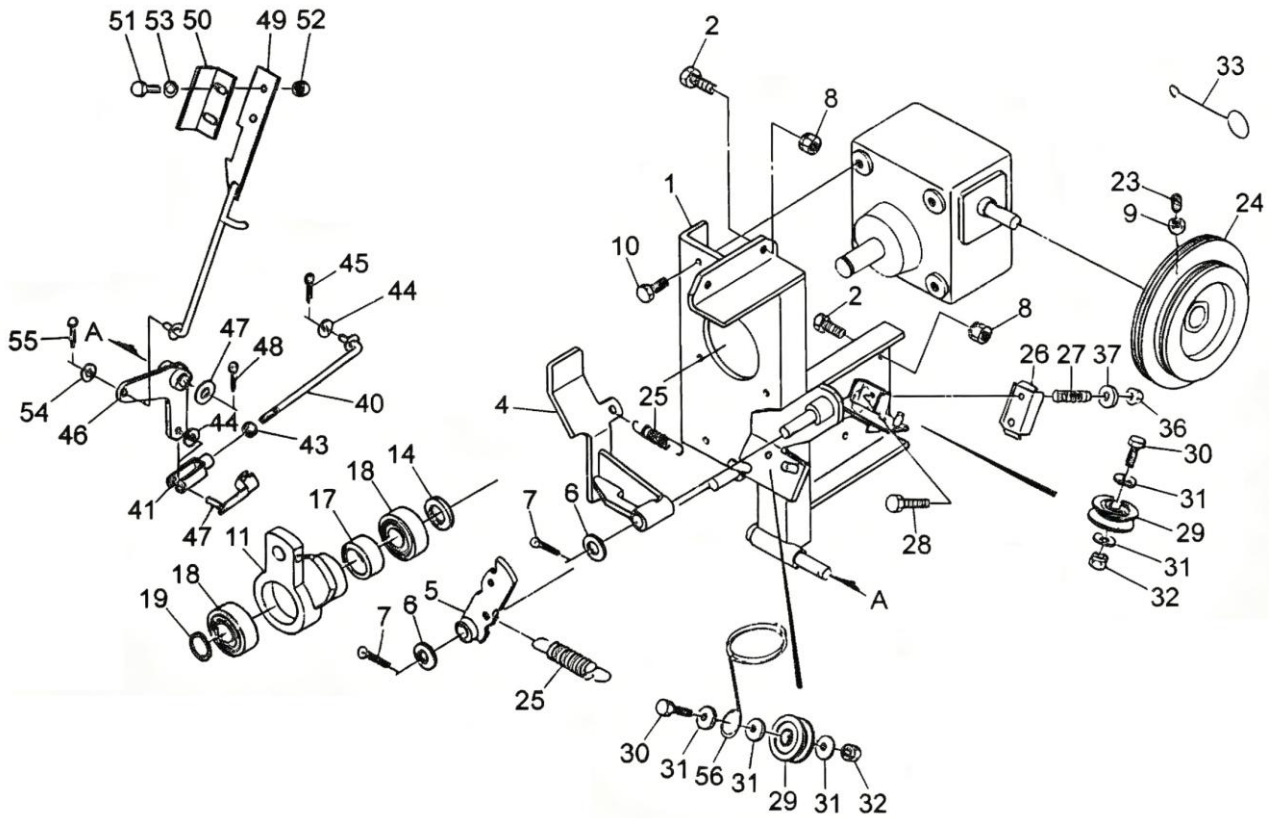
Diagram F picking up sprocket assy



Part No.	Description	Qty
1	Sprocket cover CP	1
2	Dust cover	1
3	Plum-shaped bolt M8×14	3
4	Bearing CS204-2RS	1
5	Bearing cover	1
6	Bearing seat PFL204	1
7	Tension disc	1
8	Bolt M10×65 (8.8)	4
9	Spring	4
10	Slotted nut M20×1.5	1
11	Bolt M8×25 (8.8)	2
12	Split pin 4×25	1
13	Washer: 20	1
14	Bearing seat PFL205	2
15	Spherical ball bearings CS205-2RS	1
16	Bolt M10X20 (8.8)	2
17	Friction disc	1
18	Bush	1
19	Friction washer	2
20	Sprocket: RS50×18T	1
21	Sprocket: RS50×32T	1
22	Pulley CP	1
23	Square nut	1

Part No.	Description	Qty
24	Bush	1
25	Bolt M10x40 (8.8)	1
26	Washer 12	1
27	Chain10A-59x1	1
28	Bearing seat PF206	2
29	Bearing CS206-2RS	1
30	Bolt M10x20 (8.8)	3
31	Bolt M12x45 (8.8)	1
32	Up-down Rod CP	1
33	Brake plate	1
34	Pull rod RXYK0850	1
35	Fork: 10x40	1
36	Pin: 10x40	1
37	Split pin 3.2x16	1
38	Bolt M10x30(8.8)	1
39	Nylon locking nut M10	1
40	Disc washer 10	2
41	Handle sleeve 12	1
42	Extension spring: H	2
43	Adjustable screw: M10	2
44	Nut M10 (8.8)	6
45	Flat washer 10	1
48	Shield (optional)	1
49	9 Pin(optional) 8x1.6	2
50	Square neck bolt M8x15	4
51	Nut(optional) M8	4
52	Washer 21x1.5	1
53	Washer 10	4
54	Joint 10A	1
56	Coupling part 10A	1
57	Spring washer 10	2
58	Spring washer12	2
59	Spring washer 10	3
	Nut: M12	1
	Washer: 25x35x1.2	1
	Shim: 25.5x0.6	1
	Split pin: 3.2x3.2	1
	Washer: 13x4.5	1

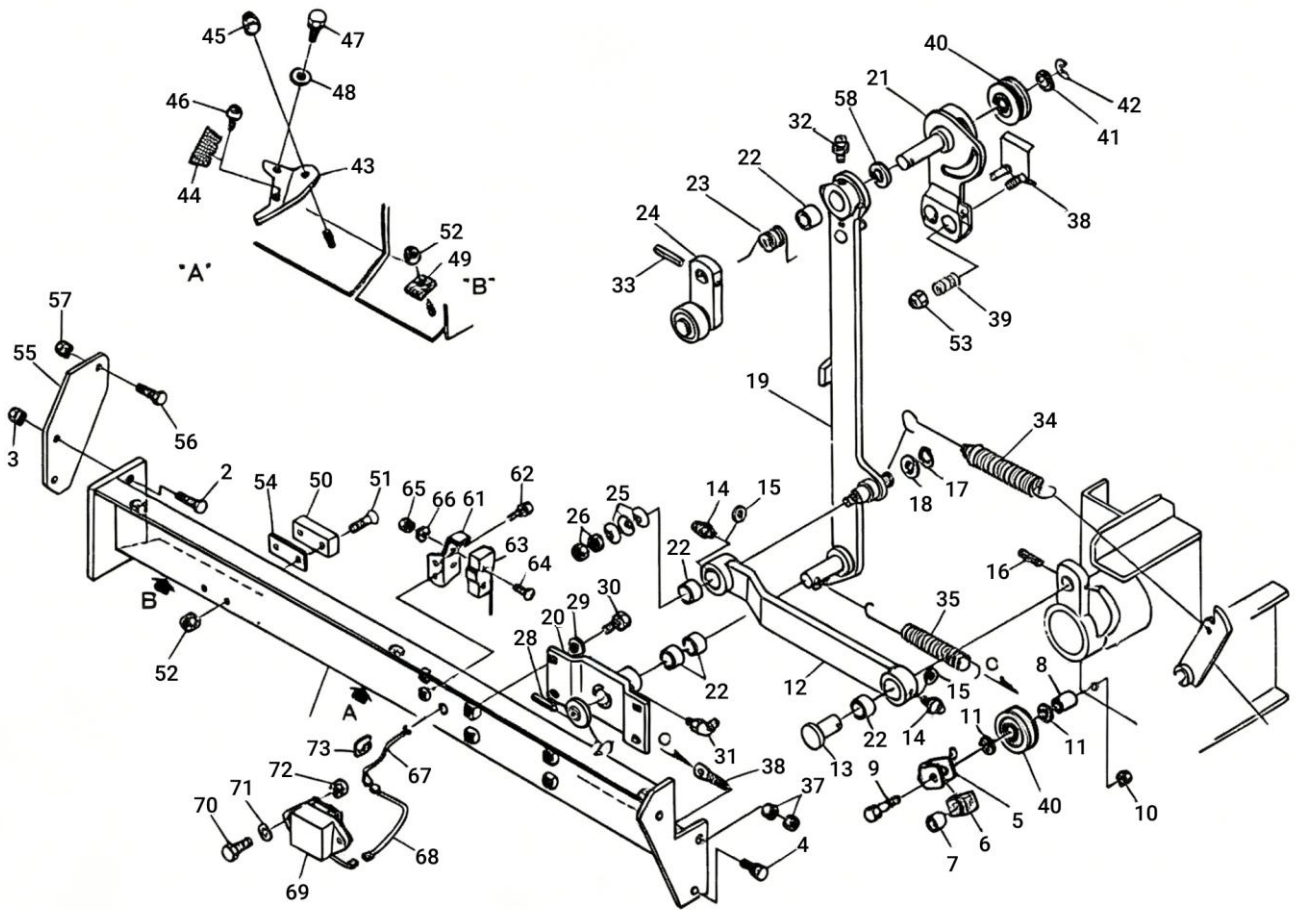
Diagram G twine binding bracket assy



Part No.	Description	Qty
1	Twine clip plate CP: 1	1
2	Bolt M8×20 (8.8)	6
4	Pressure plate CP	1
5	Tension plate CP	1
6	Washer 12	2
7	Split pin 3.2×16	2
8	Nut M8	6
9	Nut M8	1
10	Bolt M8×20	4
11	Cam	1
14	Retaining ring 25	1
17	Single-direction Rolling bearing HK2520(25x32x20)	1
18	Bearing 6005-2RS (25x47x12)	2
19	Shaft spring retaining ring 25	1
23	Hexagon socket set screw M8×20	1
24	Twine pulley YK0850	1
25	Pull spring	2
26	Slot plate	1
27	Compression spring	2
28	Bolt M6×50	2
29	Pulley CP	2
30	Bolt M8×30 (8.8)	2
31	Flat washer 8	5
32	Nut M8	2
33	Twine hook	1

Part No.	Description	Qty
36	Nylon locking nut M6	2
37	Flat washer 6	2
40	Adjustable lever CP	1
41	Fork 8×32	1
42	Pin 8×30	1
43	Nut M8	1
44	Washer 8	2
45	Split pin 3.2×16	1
46	Fork rod CP	1
47	Flat washer 12	1
48	Split pin 3.2x16	1
49	Spring rod CP	1
50	Pressure pad	1
51	Bolt M6×20	2
52	Nut M6	2
53	Flat washer 6	2
54	Flat washer 8	1
55	Split pin 3.2×16	1
56	Twine ring	1

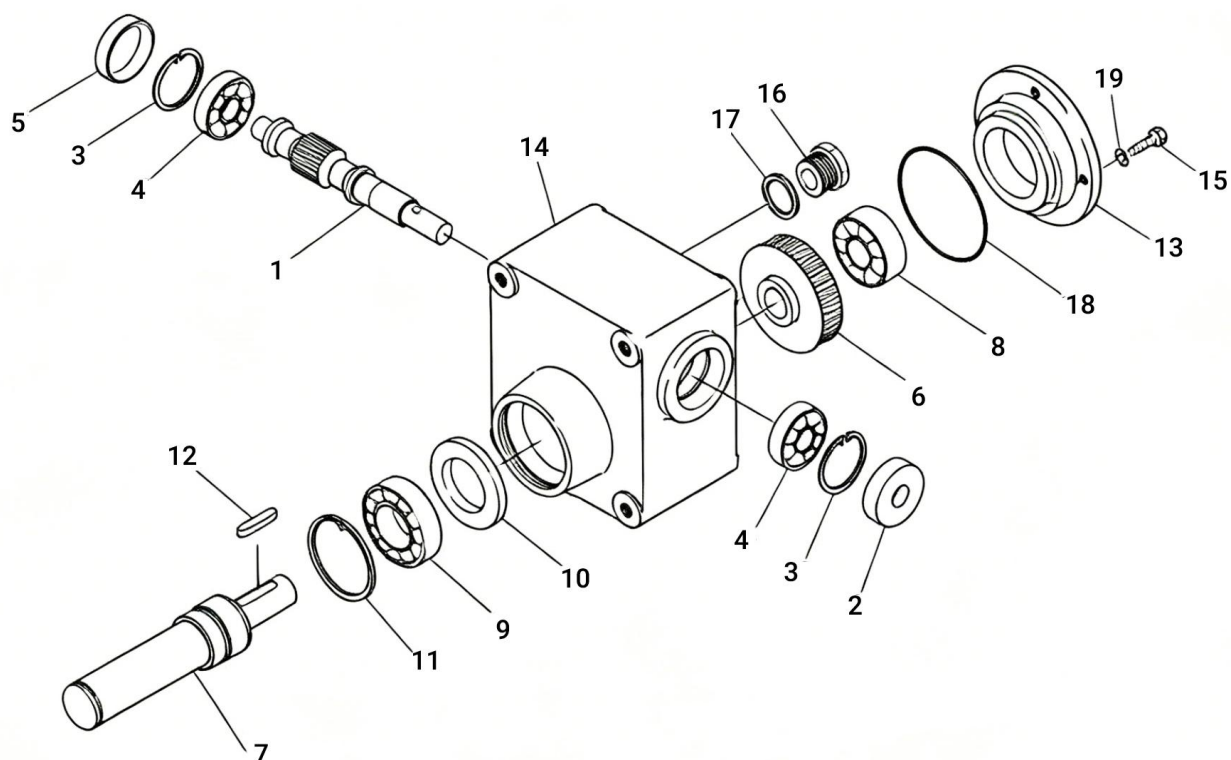
Diagram H twine binding support assy



Part No.	Description	Qty
1	Support rod CP: 2	1
2	Bolt M8×20 (8.8)	2
3	Nut M8	2
4	Bolt M8×20 (8.8)	2
5	Rubber racket CP	1
6	Rubber washer	1
7	Bush	1
8	Sleeve	1
9	Bolt M8×80 (8.8)	1
10	Nut M8 (8.8)	1
11	Spring washer 8	2
12	Swing arm CP	1
13	Cylindrical pin	1
14	Grease nipple AM6×1	2
15	Flat washer 6	2
16	Spring cylindrical pin 6×36	1
17	Shaft spring retaining ring 15	1
18	Washer 17×1.5	1
19	Support rod CP: 1	1
20	Bracket	1
21	Support rod	1
22	Nylon sleeve	5

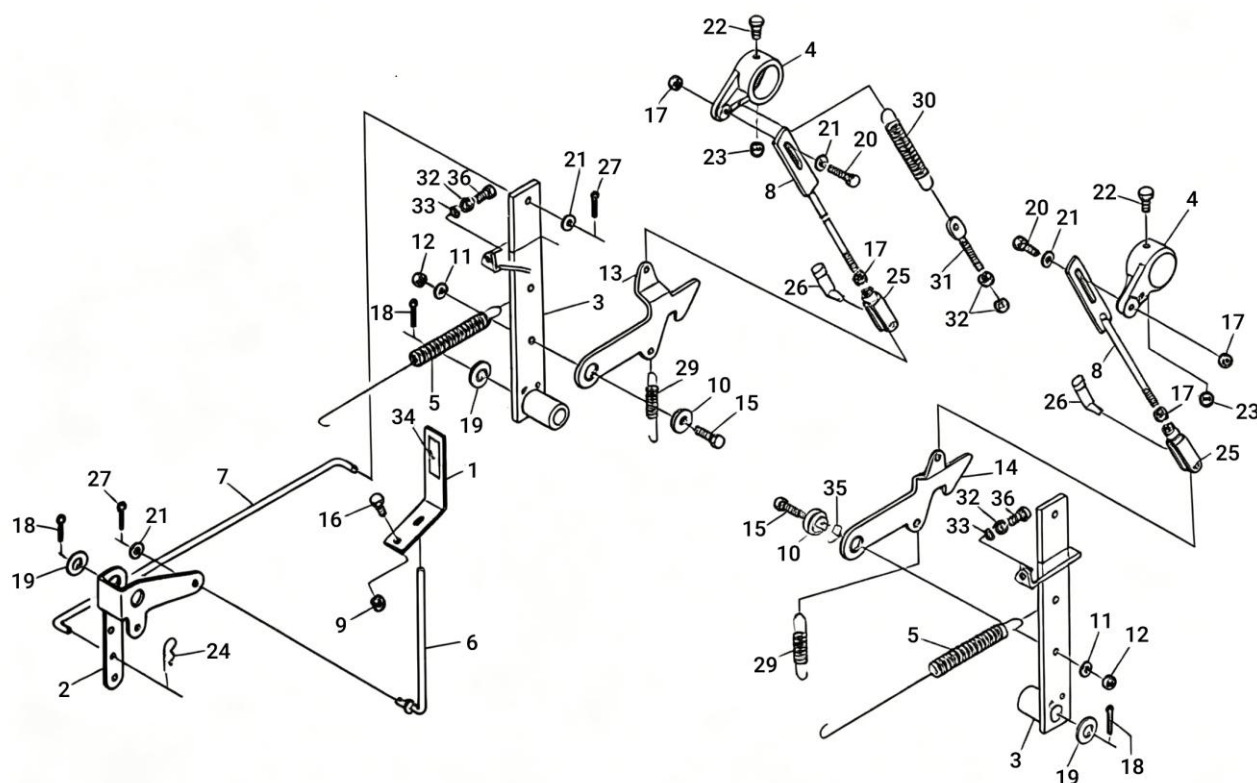
Part No.	Description	Qty
23	Torsion spring	1
24	Pulley bracket CP: 3	1
25	Spring disc washer	3
26	Nut M8 (8.8)	2
27	Flat washer 17×1.5	1
28	Spring cylindrical pin 5×32	1
29	Flat washer 8	4
30	Bolt M8×20 (8.8)	4
31	Grease nipple ONA6 M6×1	1
32	Grease nipple ONA6 M6×1	1
33	Spring cylindrical pin 6×36	1
34	Extension spring: H	1
35	Extension spring: H	1
36	Screw: M8	1
37	Nut M8 (8.8)	2
38	Slot pressure pad	1
39	Compression spring: A	1
40	Pulley CP	2
41	Flat washer 8	1
42	Opening retaining ring 5	1
43	Knife bracket	1
44	Knife	1
45	Nylon locking nut M8	1
46	Self-tapping screw M3×6	1
47	Bolt M8×20 (8.8)	1
48	Washer 8	1
49	Rubber washer	1
50	Nylon washer	1
51	Cross Countersunk head screw M8×35 (10.9)	2
52	Nylon locking nut M8	3
53	Nylon locking nut M6	1
54	Plate	1
55	Plate YK0850	1
56	Bolt M8X16 (8.8) YK0850	1
57	Nut M8(8.8) YK0850	1
58	Flat washer 16	1
61	Buzzer switch racket	1
62	Bolt M8×20 (8.8)	2
63	Switch	1
64	Cross crew M4×30	2
65	Nut M4 (8.8)	2
66	Flat washer: 4	2

Diagram J reducer assy



Part No.	Description	Qty
1	Worm	1
2	Lip seal FB15×35×8	1
3	Holes Circlips 35	2
4	Bearing 6202	2
5	Sealing cover KRCA3507	1
6	Worm gear	1
7	Worm-wheel shaft	1
8	Bearing 6203	1
9	Ball bearing 6005-2RS	1
10	Oil seal FB30×50×7	1
11	Retaining ring 47	1
12	Flat key 5×5×25 (A Type)	1
13	Cover	1
14	Case	1
15	Bolt M6×16 (8.8)	4
16	Oil port bolt	1
17	Rubber washer	1
18	O-rubber seal G-60	1
19	Spring washer 6	4

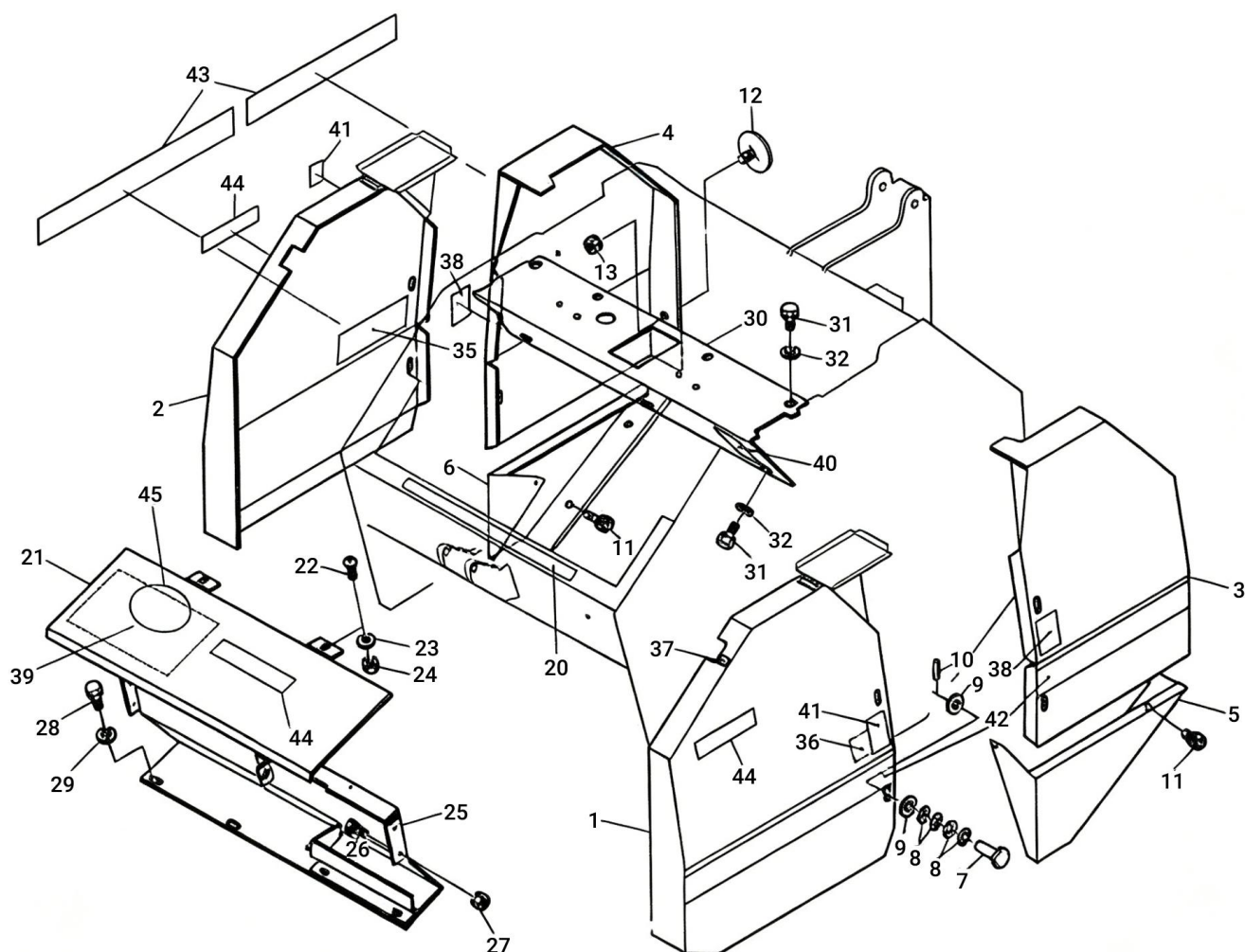
Diagram K topper frame rod



Part No.	Description	Qty
1	Indicator board	1
2	Fork plate	1
3	Connecting plate	2
4	Topper cover	2
5	Extension spring	2
6	Indicator rod	1
7	Pull rod	1
8	Connecting rod	2
9	Nut M8	1
10	Shaft sleeve	2
11	Spring washer 10	2
12	nut 10	2
13	Hook: R	1
14	Hook: L	1
15	Bolt M10×35 (8.8)	2
16	Bolt M10×20 (8.8)	1
17	Nut M8 (8)	4
18	Split pin 3.2×32	3
19	Washer 21×1.5	3
20	Bolt M8×25 (8.8)	2
21	Washer 8	4
22	Bolt M8×75 (8.8)	2
23	Nylon locking nut M8	2
24	B-pin 8×1.6	1
25	Connecting yoke: 8×32	2
26	Connecting pin: 8×32	2

Part No.	Description	Qty
27	Split pin 3.2×16	2
29	Extension Spring 2.3x18x68	2
30	Extension Spring H	1
31	Pull rod: M10	1
32	Nut M10 (8)	4
33	Washer 10	2
34	Sticker	1
35	Adjusting shim ø10.5×0.27	2
36	Bolt M10×35 (8.8)	2

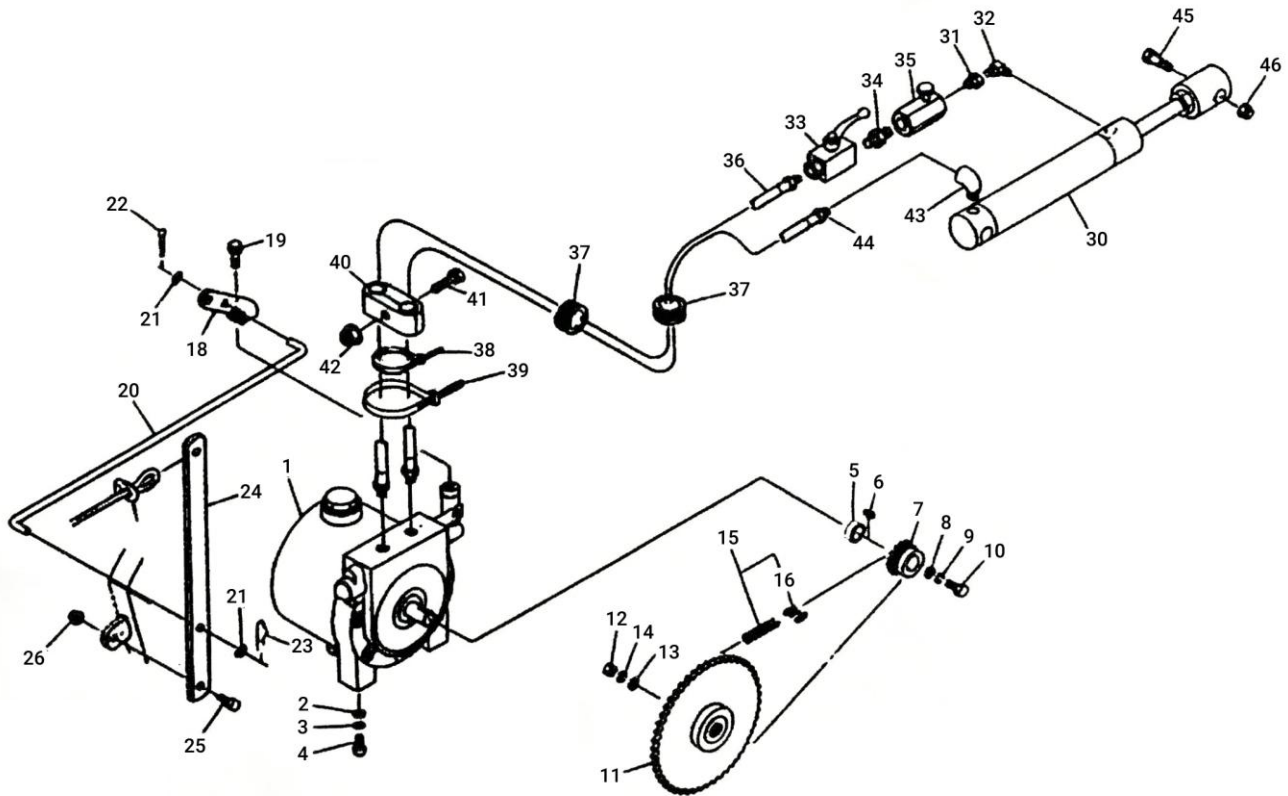
Diagram L cover



Part No.	Description	Qty
1	Front cover housing CP: L	1
2	Front cover housing CP: R	1
3	Rear cover housing CP: L	1
4	Rear cover housing CP: R	1
5	Cover housing CP: L	1
6	Cover housing CP	1
7	Star handle: 50	8
8	Disc spring washer	32
9	Flat washer 8	16
10	Spring cylindrical pin 4×16	8
11	Bolt M8×16 (8.8)	4
12	Reflector: R-80CI	2
13	Nut M5	2
20	Magnet	1
21	Gate CP	1
22	Cross head screw M6×12	2
23	Washer 6	2
24	Nut M6	2
25	CoverboxCPYK0850	1
26	Bolt M8×20 (8.8)	4
27	Nut M8	4

Part No.	Description	Qty
28	Bolt M8×20 (8.8)	4
29	Flat washer 8	4
30	Cover housing: CP YK0850	1
31	bolt M8×20 (8.8)	8
32	Flat washer8	8
35	Sticker	1
36	Sticker	1
37	Sticker	1
38	Warning sticker	2
39	Sticker	1
40	Warning sticker	1
41	Warning sticker	2
42	Warning sticker: 850L YK0850	1
43	Warning sticker: 850RYK0850	1
44	Name of manufacturer	3
45	Sticker	1
46	Sticker	1

Diagram M hydraulic pump assy



Part No.	Description	Qty
1	Hydraulic pump station 95R	1
2	Washer 10	2
3	Spring washer 10	2
4	Bolt M10×25 (8,8)	2
5	Check sleeve	1
6	Flat key5×5×20 (B type)	1
7	Small pulley 9T	1
8	Washer 6	1
9	Spring washer 6	1
10	Bolt M6×16 (8,8)	1
11	Large pulley 43T	1
12	Nut M12 (8.8)	1
13	Washer: 13×4.5	1
14	Spring washer 12	1
15	Chain08A-56×1	1
16	Chain joint 08A	1
18	Connecting board	1
19	Bolt M8×16 (8.8)	1
20	Connecting rod	1
21	Washer 8	2
22	Split pin 3.2×16	1
23	B-pin 8×1.6	1
24	Plate	1
25	Bolt M8×25 (8.8)	1

Part No.	Description	Qty
26	Nylon locking nut M8	1
27	Nylon rope 6×3500	1
30	Cylinder CSH35×210×375	1
31	Conical female and male outside coupler G1/4×R1/4	1
32	90°conical male inside coupler G1/4×R1/4	1
33	Control volve Rc1/4	1
34	male coupler R1/4	1
35	Single-direction throttle valve Rc1/4	1
36	Rubber hose G1/4×1000	2
37	Bush: ø35	2
38	Plastic hoop 2.5×100	3
39	Plastic hoop 4.8×251	2
43	90°conical male inside coupler 1/4×R1/4	4
44	90°female coupler G1/4	2
45	bolt M16×80 (8.8)	2
46	Nylon locking nut M6	2

WARRANTY INFORMATION:

Please refer to our website for detailed warranty conditions and coverage.
For the most up-to-date and comprehensive warranty information, visit www.tmgindustrial.com