WRAPPING MACHINE

Operator's Manual

MechMaxx

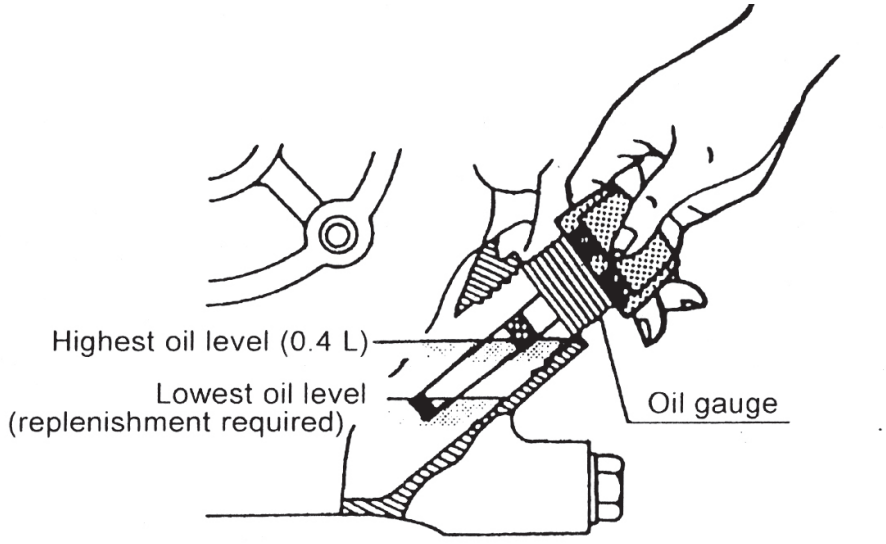
www.mechmaxx.com

BEFORE USING THE MACHINE FOR THE FIRST TIME

Before using the machine for the first time, carry out the following.

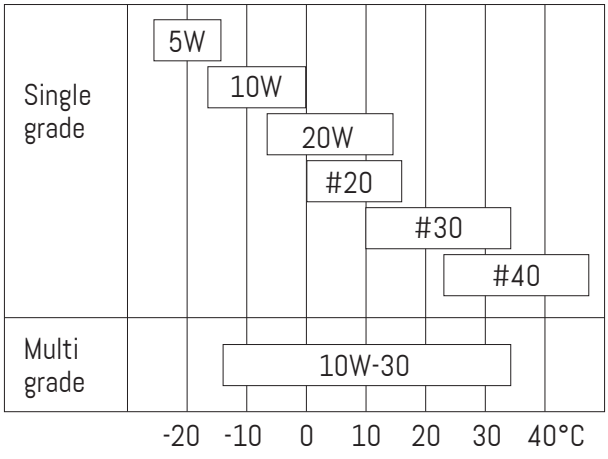
1. CHECK THE ENGINE OIL.

Check whether or not a specified quantity of engine oil exists. If it is too small, replenish the oil up filler port without screwing it, and measure. Add oil up to the top graduation line of the oil gauge. The oil capacity is about 0.4 liter.



As the oil, use the engine oil for motor vehicles with a viscosity corresponding to the outside air temperature shown in the following table.

Oil Viscosity Selection Standard



PRECAUTION

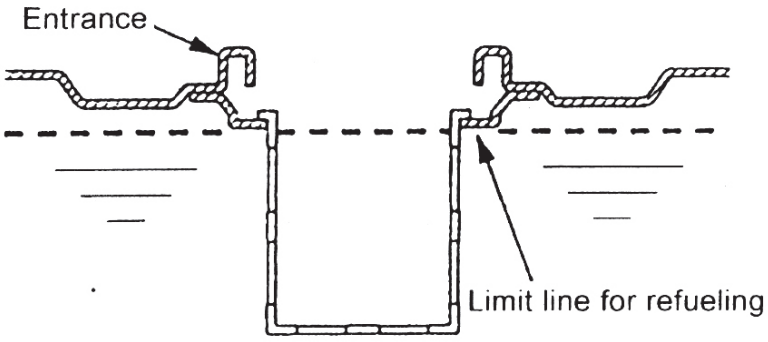
- If the engine oil declines in quality or quantity, a trouble of seizure can be caused. Use the oil with quality of class SC or higher.
- In the case where the outside air temperature is lower than-20°C or higher than 40°C, select the oil with a viscosity and quality suitable for the local condition.
- Note that if an oil of multi grade is used, the oil consumption tends to increase when the outside air temperature is high.

2. CHECK THE QUANTITY OF FUEL.

Use lead-free gasoline for motor vehicles as the fuel. The tank capacity is about 1.5 liters.

PRECAUTION

For refueling, do not fill up to the entrance of the fuel filler port, and keep the fuel level under the predetermined limit line for refueling. If too much fuel is added, the fuel can bleed from the fuel tank cap dangerously.



For refueling, be sure to use the fuel filter screen installed in the fuel filler port.

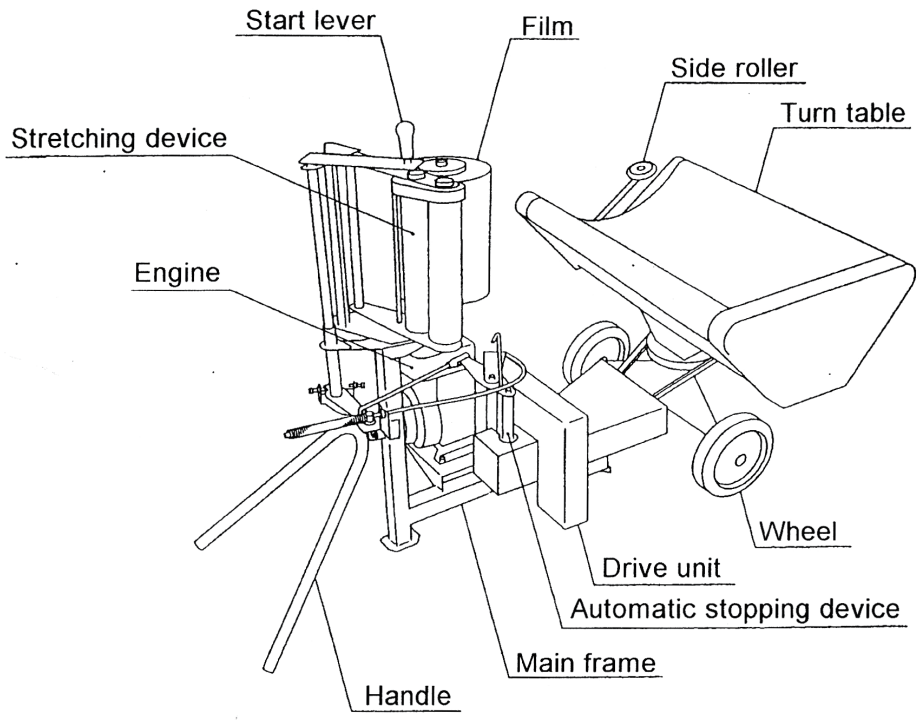
- **If fire is brought close to the fuel filler port, a fire may break out. Never allow fire to approach it. During refueling, stop the engine.**
- **Entering a wrong fuel is dangerous.Conform once more whether or not the fuel is right.**
- **If you refuel the engine with a cigarette in your mouth or under a bare light bulb, the fuel may be ignited to burn you. Do not refuel with fire nearby.**
- **If you refuel while the engine is still hot, the fuel may be ignited to burn you. Do not refuel while the engine is still hot.**
- **After completion of refueling, firmly close the fuel cap, and perfectly wipe away the spilling fuel.Otherwise, a fire accident can be caused.**

TABLE OF CONTENTS

INSTALLATION

Correctly install for safe operation.

1. NAMES AND FUNCTIONS OF RESPECTIVE PARTS



1. Main frame

The main frame supports the engine, drive unit, automatic stopping device, turn table and stretching device.

2. Handle and wheels

The handle and wheels support the machine and can be used to move it.

3. Drive unit

The drive unit decelerates the rotation from the engine, and the belt clutch tension is used to transmit the rotation to or to isolate the rotation from the turn table.

4. Automatic stopping device

This device automatically stops the film winding around the bale.

5. Turn table

The turn table has a bale mounted on it and turns it for wrapping it.

6. Side roller

This roller keeps the bale in position, while the bale is wrapped.

7. Stretching device

This device is loaded with a film and stretches the film from the roller driven by the force pulling out the film.

8. Start lever

This lever is used to turn on or off the rotation of the turn table.

2. APPLICABLE ENGINE

The machine is designed to exhibit its performance when an adequate engine is mounted on it. The engine of the machine has the following specification.

Engine horse power	Maximum 2.0 PS/4,200 rpm
	Continuous rating1.4 PS/3,600 rpm
Electromotor	Continuous rating 1.1Kw
	Continuous speed 2800rpm

3.PARTS TO BE ASSEMBLED

1.Unpacking

Remove the parts out of the packing frame.

2.List of parts to be assembled

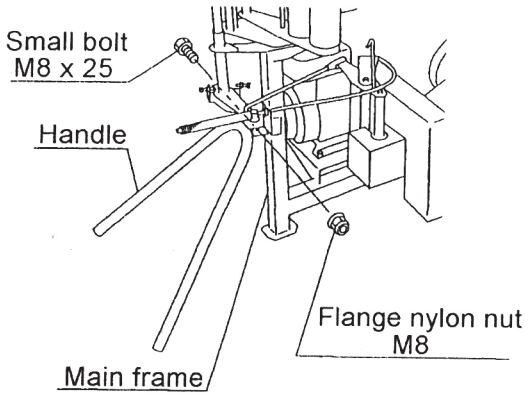
Confirm whether or not all the necessary parts are provided based on the packing list contained in the package.

3.Assembling procedure

With regard to the bolts and nuts necessary for assembling the respective parts, see the symbols stated in the packing list.

(1)Assembling of handle

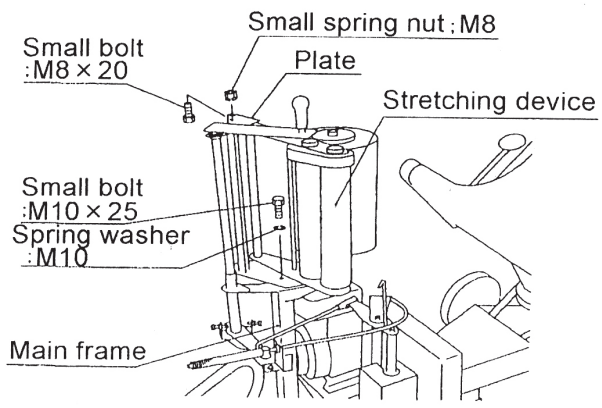
Assemble the handle on the front side of the main frame of the machine



PRECAUTION

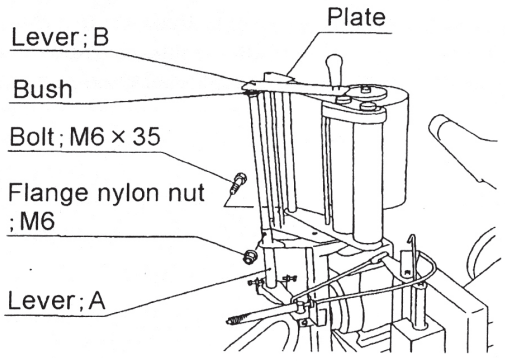
- When assembling, adjust the tightening of the bolt and the flange nylon nut to ensure that the handle can be easily moved vertically.

(2) Assembling of stretching device Assemble the stretching device above on the front side of the main frame of the machine, and insert a bush into the hole at the tip of the plate from above.



(3) Assembling of start lever

After assembling the stretching device as described in the above 3-3-(2), insert a lever B into the bush portion at the top of the stretching device, and insert the bush into a bottom lever A, fixing using a bolt and a flange nylon nut.



PRECAUTION

- It should be noted that if the bolt and the flange nylon nut are tightened extremely, the pipes of the levers A and B may be deformed.

4.INSTALLATION AND MOVEMENT

1. INSTALLATION

- **If the machine is installed on a slop, rugged ground, weak ground, etc., the machine remains unstable, and it can happen that the machine begins to move suddenly to cause an unexpected accident.**
- **Fasten the wheels on a flat and hard ground place, and firmly fix the machine body.**

2. MOVEMENT

- **If the machine is moved at a high speed on a slope, rugged ground or along a sharp curve, it can happen that the machine falls down on its side or tumbles down accidentally. Move slowly.**
- **If the machine is moved on a shoulder of a road with an inclining side or side ditch, it can happen that the machine tumbles down accidentally.Do not move on a shoulder.**
- **If it is attempted to move the machine across a large level difference, it can happen that the machine falls down on its side to injure any person working nearby. Use a footboard.**
- **If a person rides on the machine, it can happen that the machine falls to injure him/her. Furthermore, if the machine is moved with any thing placed on it, it can happen that the thing drops or that the machine falls down on its side to injure the persons working nearby.Do not allow any person or thing to be placed on the machine.**

PRECAUTION

- In the case where the machine is mounted on the load carrying platform of a truck and fastened using a rope or the like, do not wind the rope around the turn table for fixing it. The machine may be broken.

INSPECTION BEFORE START OF OPERATION

Be sure to inspect the machine before start of operation to ensure that the machine can be used for a long period of time without any problem.

- **If the inspection before start of operation is neglected, it can happen that the machine is poorly adjusted and broken or that any person working nearby is injured accidentally. Before start of operation, inspect the machine based on the instruction manual.**

1. INSPECTION BEFORE OPERATION

1. Inspection of respective parts of engine

Inspect the respective parts of the engine based on the instruction manual of the engine.

2. Inspection of machine proper

(1) Check whether or not the bolts and nuts of respective parts are loose or whether or not pins come .

Especially check the following parts carefully.

Symbol (1): Bolt and nut for attaching the handle

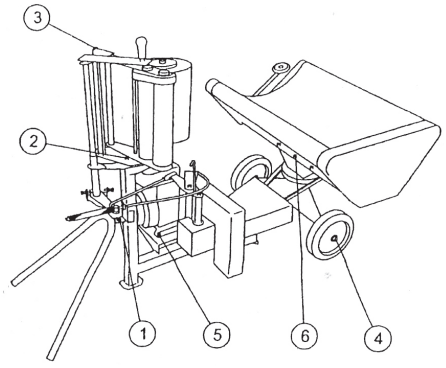
Symbol (2): Lower bolt and nut for attaching the stretching device

Symbol (3): Upper bolt and nut for attaching the stretching device

Symbol (4): Cotter pins for attaching the wheels

Symbol (5): Bolts and nuts for attaching the engine

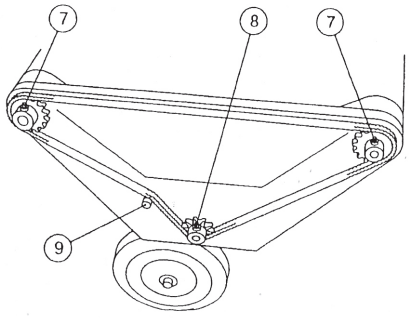
Symbol (6): Bolts and nuts for attaching the turn table



Symbol (7): Bolts and nuts for-attaching sprockets 35-20T

Symbol (8): Bolt and nut for attaching sprocket 35-13T

Symbol (9): Chain tension bolt and nut



(2) Check whether the chain tension is too tight or too loose.

(3) Check whether the oil and grease at respective parts is sufficient.If any oil or grease is insufficient, apply the oil or grease based on the explanation of "2-3 List of oiling and greasing points."

2. INSPECTION AT START OF ENGINE

- **Before starting the engine, confirm that the start lever is set at "OFF position."If the engine is started with the start lever set at "ON position," the turn table will rotate to injure any person working nearby.**
- **If the engine is started indoors as in a house, the exhaust gas may cause poisoning. Open windows and door for sufficient ventilation.**

- **Before starting the engine, let the persons working nearby know it and confirm safety.**

1. Inspection at start of engine

(1) Confirm that the start lever is set at "OFF position."

(2) Start the engine, and confirm whether or not the engine is normal.For handling of the engine, read the instruction manual for the engine contained in the package.

(3) Operate the start lever, to rotate the machine, and confirm whether or not any abnormal sound or abnormal vibration occurs.

(4) If any trouble is found, correct the trouble based on the "6-1 List of trouble corrections."

2. Inspection at start of engine.

(1) Confirm that the start lever is set at "OFF position."

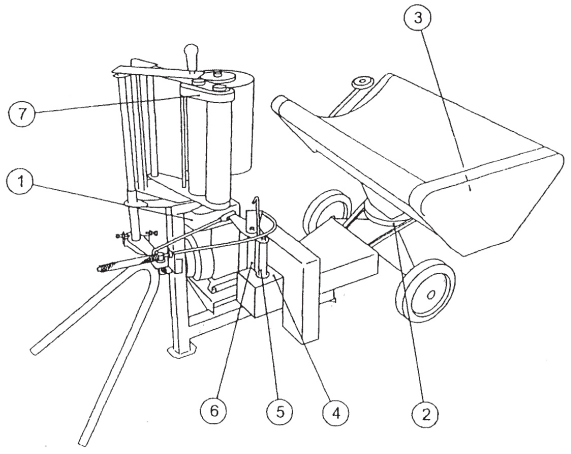
(2) Start the electromotor, and confirm whether or not the engine is normal.

(3) Operate the start lever, to rotate the machine, and confirm whether or not any abnormal sound or abnormal vibration occurs.

(4) If any trouble is found, correct the trouble based on the "6-1 List of trouble corrections."

3. LIST OF OILING AND GREASING POINTS

- The oil used for lubrication or coating must be clean.
- When greasing, do it till the new grease is forced out after the old grease has been forced out.
- The machine is filled with oil and grease sufficiently when it is delivered. However, confirm them before use.



No.	Lubrication point	Point	Kind of lubrication	Change period	Remarks
1	Engine	1	Engine oil for motor vehicles		About 0.4 liter
2	Gear (turn table)	1	Grease coating	Every 30 working hours	
3	Drive chain (turn table)	1	Oil	After use	
4	Drive chain (automatic stopping device)	1	Oil	After use	
5	Slide arm screw (automatic stopping device)	1	Oil	After use	
6	Slide arm shaft face (automatic stopping device)	1	Oil	After use	
7	Gear (stretching device)	1	Grease coating	Every 30 working hours	
	Bearings and other sliding portions		Grease or oil	After use	

*1. For the detail of oiling to the engine (No. 1), see the instruction manual for the engine contained in the package.

*2. If the slide arm shaft face (automatic stopping device) (No. 6) is coated with a grease with a high viscosity, the movement of the slide arm becomes poor.

HOW TO OPERATE

1. PURPOSE OF MACHINE

1. This machine is used to stretch and wind a film around a cylindrical bale for sealing it, to prepare bale silage for livestock farming.Do not use the machine for any other application

2. To prepare silage of good quality, do not operate the machine in the case where the grass contains much water due to rainfall or dense fog, or on a muddy field or highly humid field.Wrap the grass with an adequate water content on a well dry field as soon as possible after baling.

For preparing wrapped silage with good

1. Adjust the water content of grass to 50 to 60%.If the water content is too large or too small, ideal lactic acid fermentation cannot take place. Especially during rainfall or dense fog, do not operate the machine since the water content is too large.

2. Preparation of well-shaped bales

Make well-shaped highly dense bales.

3. Sealing immediately after baling

If the sealing is delayed, the temperature inside the bale rises to grow putrefying bacteria and to thermally denature proteins, thereby lowering the digestibility, not allowing silage with good quality to be prepared.

4. Use a wrapping film with stable quality.

A film likely to greatly change in nature in response to the change of air temperature may be poor in the accuracy of sealing.

Preserve the film in a cool place free from direct sunshine, to avoid the deterioration during preservation. Do not preserve the film for a long period of time.

5. If the film used for sealing is damaged to have a hole, be sure to repair it.

If a film is damaged or holed by mistake, be sure to repair it.

If an ordinary tape is used for repairing, it may peel due to water content, solar heat or the like.

6. Reliable preservation

As the place for preserving the silage, select a well drained place and cover the silage with a net, or spray chemicals, or take any other necessary measure for protecting the silage from the damage caused by birds, rodents, insects, etc.

It is ideal to stack the wrapped bales vertically in two or three stages, for maintaining the sealing accuracy and saving the preserving space.

The number of stages must be such that the stacked bales do not fall but remain stable and safe.

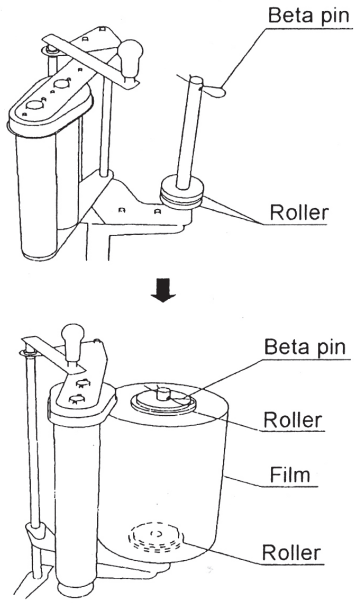
7. All the unsealed bales should be consumed for feeding within the day.

If silage is exposed to air, secondary fermentation occurs to promote deterioration.

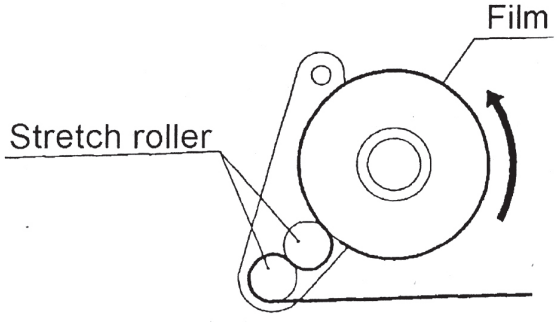
2. ADJUSTMENT FOR OPERATION

1. Film loading

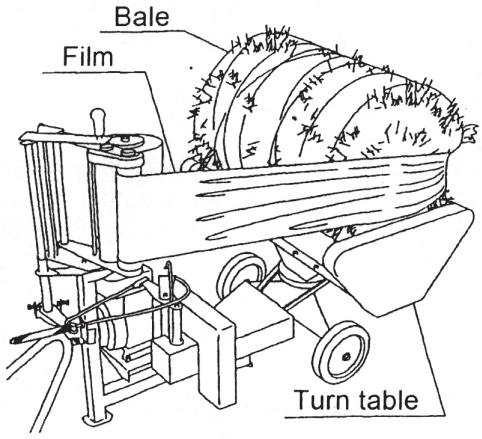
(1) Remove the beta pin and rollers of the stretching device portion, and set a film. Then, insert a roller into the cylindrical hole at the top of the film, and fix using the beta pin.



(2) Insert the film in such a manner that the winding direction observed from above corresponds to counterclockwise direction.



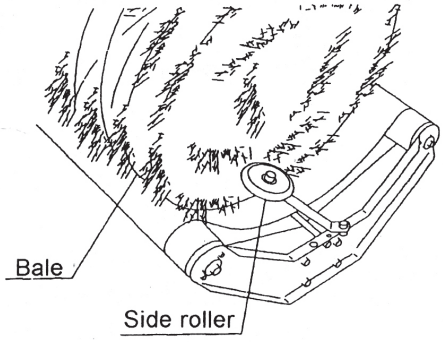
(3) Pull out the film, and pass it through as illustrated, fastening it with the twine on the bale side.



2. Adjustment of side roller

(1) Place the bale to be wrapped, on the turn table alongside the side plate on the drive side (drive chain side).

(2) Adjust the side roller for adaptation to the width of the bale, and fix using a bolt and a nut.



PRECAUTION

- When adjusting the side roller, keep a spacing of about 30 to about 50 mm between the end face of the bale and the side roller.
- After completion of adjustment, firmly tighten the bolt and the nut.

3. WORKING PROCEDURE

The machine is portable and can be moved. It can be used even near a livestock yarn on a field.

PRECAUTION

- Do not handle a bale of more than 30 kg on this machine. Furthermore, do not throw the bale onto the turn table. Otherwise the machine may be damaged.

⚠
- **If you touch the turn table or the like during operation or rotation, you may be injured.Do not allow persons working nearby to approach the machine.**
- **If an irregularly shaped bale or light-weight bale is going to be wrapped, it may be swung away to injure any person working nearby. Do not wrap such a bale.**
- **If the machine is used indoors as in a house, the exhaust gas may cause poisoning.Open windows and door for sufficient ventilation.**

⚠
- **If you open any cover during operation or rotation, you may be caught by the rotating portion and injured. Do not open any cover during operation or rotation.**
- **If you touch the film or stretch roller while the film is wound, you may be caught and injured. Do not touch the film or stretch roller during operation.**
- **If you adjust the machine or remove any deposited matter without stopping the engine, a third person may carelessly and suddenly drive the machine, to cause an unexpected accident.Stop the engine and confirm that rotating portion and moving portions are stationary, before you do such a thing.**

1. NUMBER OF TURNS OF FILM

(1) Adjust the number of turns of film, depending on the situation.For preserving the bale silage for a long period of time or for preparing bale silage with good quality, wind the film in four or more layers.

Bale diameter 460 to 500 mm	
50% lapping one-turn winding (two-layer winding)	50% lapping two-turn winding (four-layer winding)
	

(2) Adjustment of film winding

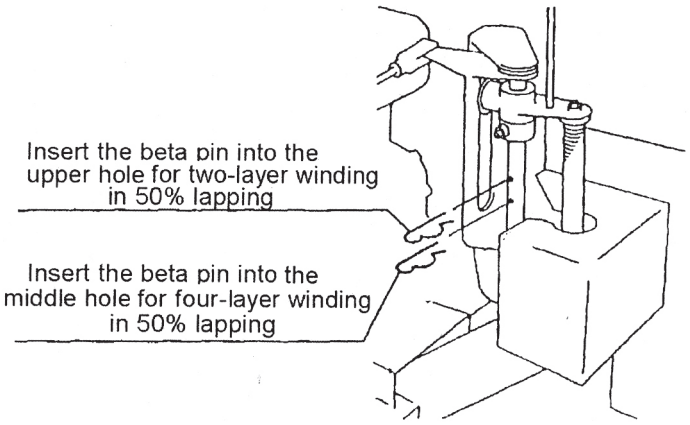
The film winding can be adjusted to two-layer winding or four-layer winding in 50% lapping.Adjust as follows:

① For two-layer winding in 50% lapping

Insert the beta pin into the "upper hole" of slide arm shaft portion of automatic stopping device.

② For four-layer winding in 50% lapping

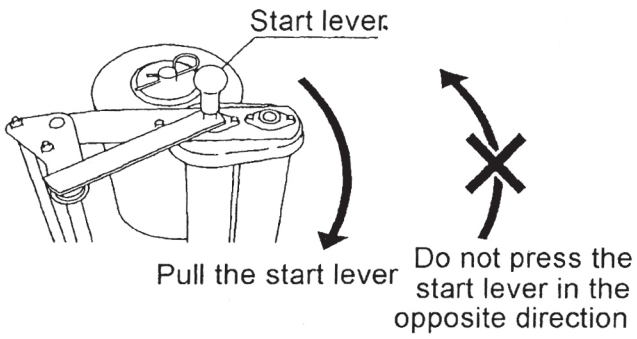
Insert the beta pin into the "lower hole" of slide arm shaft portion of automatic stopping device.



2. METHOD FOR STARTING THE MACHINE

(1) Pull the start lever toward the ↓ mark side.

The turn table will revolve, and the slide arm portion of the automatic stopping device will decline to the position adjusted for film winding.

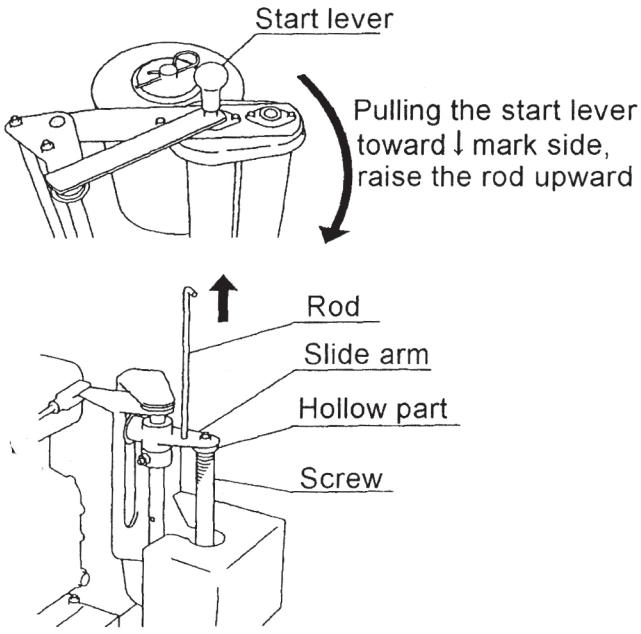


PRECAUTION

- Do not press the start lever toward the ↑ x mark side. Any damage or trouble will be caused.
- Positively pull the start lever till the slide arm portion of the automatic stopping device completely declines to the position adjusted for film winding.Unless the start lever is puled sufficiently, the film cannot be accurately wound.

(2) For stopping the operation during winding work, take the following procedure.

① While pulling the start lever toward the ↓ mark side, raise the rod on the slide arm portion of the automatic stopping device upward, for disengaging the hollow part of the slide arm portion from the screw



3. ROTATING SPEED OF TURN TABLE

The rotating speed of the turn table is 40 rpm when the engine control lever is set at the high speed position (rabbit mark).

Set the engine control lever in a range from the high speed (rabbit mark) to the low speed (turtle mark) for adaptation to the shape and weight of the bale.

PRECAUTION

- If an irregularly shaped bale or light-weight bale is going to be wrapped, it may be swung away to injure any person working nearby.Lower the rotating speed for wrapping such a bale.

4. WORKING METHOD

Work in the following sequence.

(1) Load a bale on the turn table.

(2) Draw the film and fasten it with the twine on the bale side.

(3) Pull the start lever, to start wrapping.

(4) The turn table automatically stops rotation.

(5) Cut the film and dispose of the cut end of the film on the bale side.

(6) Unload and carry the wrapped bale.

PRECAUTION

- Do not handle a bale of more than 30 kg on this machine.Furthermore, do not throw the bale onto the turn table.Otherwise the machine may be damaged.
- In the case where the winding is considered to be insufficient in view of the condition of the bale, lightly pull the start lever (to such an extent that the slide arm does not fall) and wind the film by 2 or 3 turns in a state of half-engaged clutch.

AFTER COMPLETION OF OPERATION

Be sure to take care of the machine to ensure that the machine can be used for a long period of time.

- **If you, for example, remove any material deposited on the rotating portion or any moving portion without turning off the power, you may be caught in the machine and injured.Stop the engine and confirm that the rotating portion and moving portions are stationary, before you doing so.**
- **If you neglect the inspection after completion of operation, the machine may be left improperly adjusted or left with a broken part or the like, and when the machine is used next time, any trouble can occur or you may be injured. After completion of work, be sure to inspect based on the instruction manual.**

CARE AFTER COMPLETION OF OPERATION

1. Perfectly remove the grass and the like adhering to the machine.

2. Check whether bolts, nuts and pins are loose or come off.Furthermore, confirm whether any part is broken. If any non-conformance is found, retighten the bolt concerned or exchange the part concerned as the case may be.

PRECAUTION

- For washing the machine, do not pour water on the engine.

FOR STORING THE MACHINE FOR A LONG PERIOD OF TIME

1. Clean the respective parts of the machine.

2. Exchange every worn part and every broken part.

3. Add oil and grease based on the list of oiling and greasing points.Apply oil or grease to the rotating portion and sliding portions of pivots.

4. Touch up damaged coatings or apply oil to them for preventing the generation of rust.

5. Store the machine in a well ventilated indoor space.

INSPECTION AND MAINTENANCE

Carry out inspection and maintenance periodically so that the machine can be used smoothly without any problem.

To prevent any accident caused by poor maintenance of the machine, inspect and maintain the respective parts based on the "Inspection and maintenance table," so that the machine can be used in the best condition with peace of mind.

- **If any trouble occurring in the machine is left as it is, breakage or injury may be caused. Correct troubles based on the instruction manual.**
- **If you carry out inspection or maintenance without stopping the engine, a third person may carelessly and suddenly drive the machine, to cause an unexpected accident.Stop the engine and confirm that the rotating portion and moving portions are stationary, before you carry out inspection or maintenance**
- **If you work without installing any cover removed for correcting a trouble, inspection or maintenance, you may be caught in the rotating portion or moving portion and injured. Install the once removed cover.**

INSPECTION AND MAINTENANCE TABLE

Timing	Inspection items	Correction
Before use of new part	• Whether or not respective bolts, nuts and pins are loose or come off • Whether or not respective parts are lubricated • Whether or not the rotating portion and drive system make any abnormal sound	• Retighten or install new ones. • If any oil or grease is insufficient based on "2-3 List of oiling and greasing points," supply it accordingly. • Correct based on "6-1 Trouble corrections."
Before operation	• Clean the machine • Whether or not respective bolts, nuts and pins are loose or come off • Whether or not the rotating portion and drive system make any abnormal sound • Whether or not the rotating portion and moving portions are lubricated, oiled, or greased • How is the drive belt tensioned, or isn't it broken? • How is the chain tensioned, or isn't it broken?	• Retighten or install new parts. • Correct based on "6-1 Trouble corrections." • Correct based on ,"2-3 List of oiling and greasing points." • Adjust or exchange • Adjust or exchange.
After operation	• Whether or not any portion is broken • Clean respective parts • Whether or not coatings are damaged • Whether or not pivots, pins and the like are worn	• Repair • Paint or coat with oil. • Exchange the part concerned..

ADJUSTMENT OF RESPECTIVE PARTS

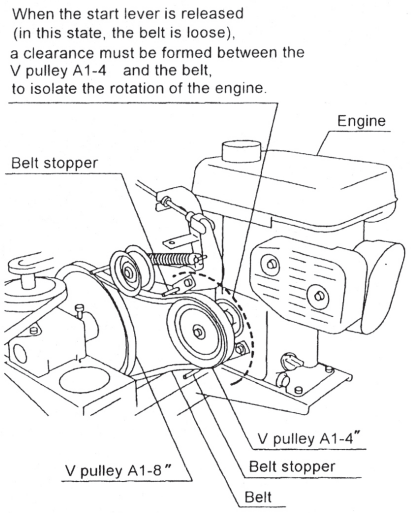
1. Adjustment of belt clutch tension on engine side

(1) Pull the start lever, and move and fix the engine while the automatic stopping device is set at ON position (in this state, the belt is tensioned).

(2) Adjust to ensure that the clearance between the belt stopper and the belt becomes from 0.5 to1.0 mm.

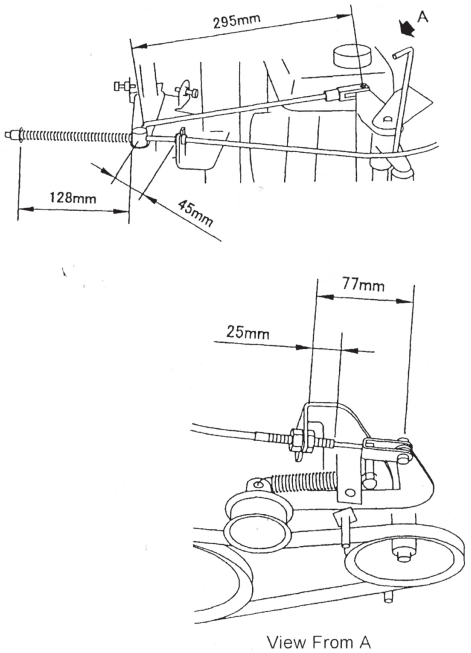
If the belt stopper and the belt contact each other, noise and heat generation will be caused.

(3) Release the start lever (in this state, the belt is loose), and confirm that a clearance is formed between the V pulley A1-4" on the engine side and the belt, to isolate the rotation of the engine. In the case where the rotation of the engine is not isolated, loosen the engine attaching bolts, and move the engine toward the V pulley A1-8" side by 3 to 5 mm, for re-adjustment and confirmation.



2. Adjustment relating to start lever

With the automatic stopping device kept in OFF state, adjust as illustrated below, and pull and release the start lever, to confirm that the rotation is transmitted or isolated.



View From A

TROUBLE CORRECTIONS

If the machine should not work smoothly, correct in reference to the list of trouble corrections.

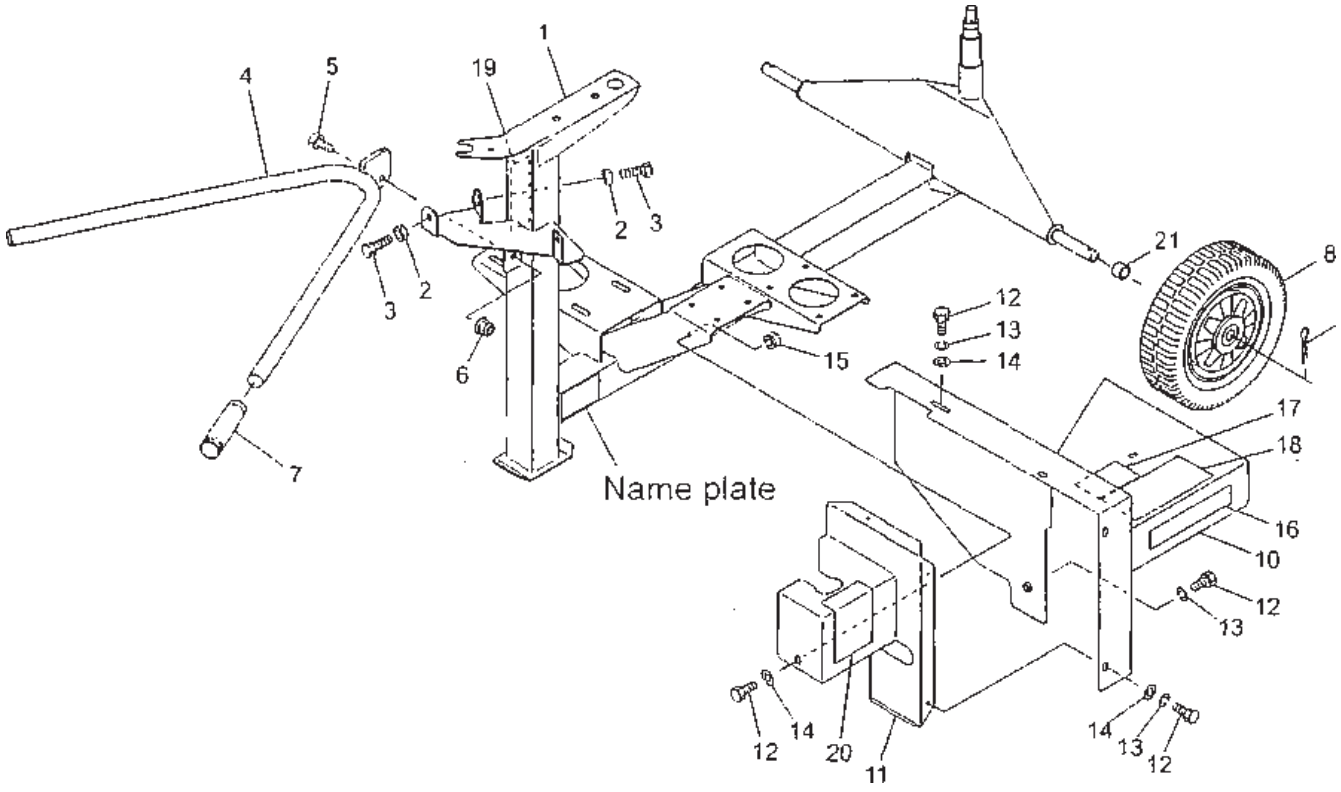
- **If the machine has any trouble and is left as it is, breakage or injury may be caused.Correct based on the instruction manual.**
- **If you carry out corrective work without stopping the engine, a third person may carelessly and suddenly drive the machine, to cause an unexpected accident.Stop the engine and confirm that the rotating portion and moving portions are stationary, before you carry out corrective work.**
- **If you work without installing any cover removed for correction of any trouble, inspection or maintenance, you may be caught in the rotating portion or moving portion and injured. Install the once removed cover.**

LIST OF TROUBLE CORRECTIONS

	Problem	Cause	Correction
Rotating portion	Abnormal sound or abnormal vibration	The installation of the machine body is unstable.	• Install on flat, smooth and hard ground. • Fasten the wheels to fix the machine body.
		Since the shape of the bale is wrong, the machine body is shaken.	• Make a well-shaped highly dense bale. • Lower the rotating speed.
		Since the chain is loose, the sprocket turns idly without being correctly engaged with the chain.	• Adjust the chain tension.
		Since the shape of the bale is wrong, the bale does not rotate, and the sprocket turns idly without being correctly engaged with the chain.	• Make a well-shaped highly dense bale.
	Bale does not rotate.	The shape of the bale is wrong or the density of the bale is low.	• Make a well-shaped highly dense bale.
		The adjustment of the side roller is wrong.	• Readjust for adaptation to the width of the bale.
	The twine and grass are wound around.	The shape of the bale is wrong or the density of the bale is low.	• Make a well-shaped highly dense bale.
		The twine wound around the bale is unwound.	• Dispose of the twine to ensure that it cannot e unwound. • Change the loading direction to ensure that the bale is rotated in the direction not allowing the twine to be unwound

	Problem	Cause	Correction
Stretching portion	Film tension is insufficient.	The film is loaded wrongly or passed through wrongly.	• Adjust based on "3-2 Film loading."
	As soon as the rotation starts, the film is disengaged from the bale.	The fastening between the twine on the bale side and the end of the film is wrong.	• Firmly fasten lest the film should be disengaged from the bale.
Driving portion	The belt slips.	Belt tension is wrong.	• Adjust the tension.
	The turn table does not rotate.	Belt tension is wrong.	• Adjust the tension. • Adjust based on "5-2-1 Adjustment of belt clutch tension on engine side."
	The turn table does not stop.	Belt tension is wrong.	• Adjust the tension. • Adjust based on "5-2-1 Adjustment of belt clutch tension on engine side."
	Before the set number of turns is reached, the automatic stopping device is actuated to stop the rotation.	The slide arm portion does not completely decline to the set position.	• The start lever is pulled insufficiently. Pull the start lever till the slide arm portion completely declines.
	The movement of the slide arm portion is not smooth.	Dust or the like is deposited on the slide arm shaft face.	• Remove dust or the like, and apply oil.
		Since the slide arm shaft face is coated with grease, the movement is not smooth.	• Remove dust and grease, and apply oil. Twine comes off of the bale.

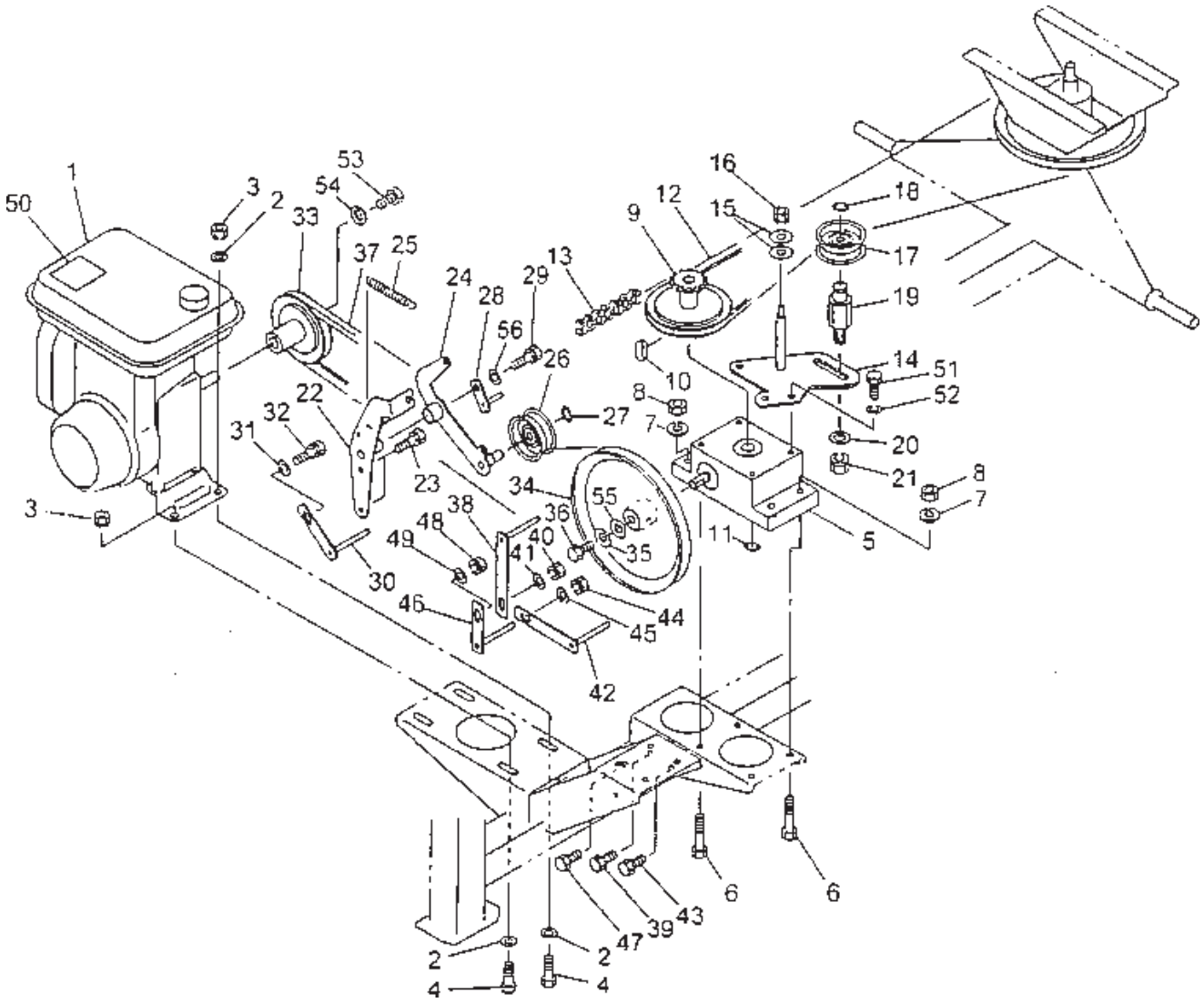
PARTS DIAGRAM



PARTS LIST

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	7002180004	Frame CP		1
2	NSZ08	Nut	M8 (8)	2
3	BSZ08035	Bolt	M8x35 (8.8)	2
4	1297700004	Handle CP		1
5	BSZ08025	Bolt	M8x25 (8.8)	1
6	NNF08	Fianqe nylon nut	M8	1
7	1297730000	Grip	cp22.2	2
8	7005080000	Tire	cp224><44.5	2
	700520000M	Sheath		2
9	PC040025	Split pin	4x25	2
10	1298770007	Cover CP		1
11	1298830007	Cover CP		1
12	BZ06016	Bolt	_M6X16(3.8]	6
13	WS06	Sprinq washer	M6	5
14	WRA06	Washer	M6	5
15	NP06	Spring nut	M6	1
16				1
17	7020110000	Label ; I		1
18	7020160000	Label ; 6		1
19	7020130000	Label ; 3		1
20	7020150000	Label ; 5		1

PARTS DIAGRAM

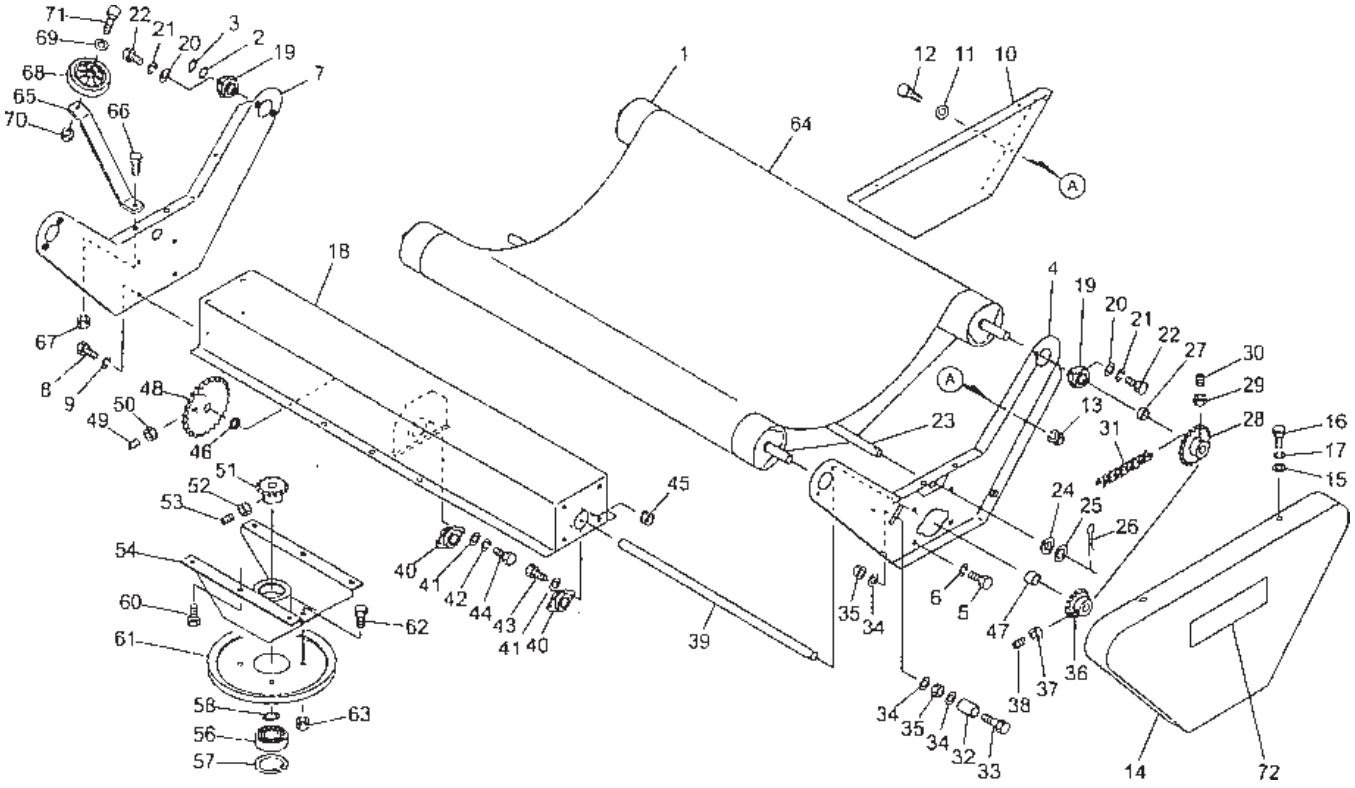


PARTS LIST

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	R1438050000	Engine (EH0920)		1
2	080414100M	Washer	#8	6
3	NSP08	Spring nut	M8 (4)	4
4	BSZ08025	Bolt	M8x25 (8.8)	4
5	7001400000	Worm gear reducer	WPWK04O25-B	1
6	BSZ08030	Bolt	M8x3(8.8)	4
7	WSA08	Spring washer	M8	4
9	700144000M	V-pulley Sprocket CP	4.5,,-14T	1
10	KFC0505030	Key	5x5x30	1
11	DC016	Snap ring	#16	1
12	VA057	V-belt	A-57	1
13	LA35058	Roller chain	35x58L	1
14	700151000M	Bracket CP		1
	BSPZ06020	$prinq nut	M6x20	4
15	028833200M	Washer	#6	2
16	NP06	Spring nut	M6	1
17	000034100M	Tension pulley		1
18	DC012	Snap ring	#12	1
19	700629000M	Shaft		1
20	044098500M	Washer	#10	1
21	NSP10	Spring nut	M10	1
22	129848000M	Tension base CP		1
23	BSPZ08016	Bolt with spring washer	M8><16	2
24	129851000M	Tension arm CP		1
25	077412000M	Spring	#H	1
26	000034100M	Tension pulley		1
27	DC012	Snap ring	#12	1
28	700194000M	Belt stopper CP	#20	1
29	BSZ08016	Bolt with spring washer	M8 x 16	1

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
	044097200M	Washer	M8	1
30	700179000M	Belt stopper CP	#50	1
31	044097200M	Washer	#8	1
32	BSPZ08016	Bolt with spring washer	M8x16(8.8)	1
33	700627000M	V-pulley CP	A1-4”	1
34	700628000M	V- pulley CP	A1-8"	1
35	700183000M	Washer	M5	1
36	WS05	Spring washer	M5	1
37	BA05016	Bolt	M5 x 16(8.8)	1
	VA038	V-belt	A-38	1
38	700219000M	Belt stopper CP	#105	1
39	BSZ08020	Bolt	M8x20	1
40	NSP08	Spring nut	M8 (4)	1
41	044097200M	Washer	#8	1
42	700181000M	Belt stopper CP	#85	1
43	BSZ08020	Bolt	M8x20 (8.8)	1
44	NSP08	Spring nut	M8 (4)	1
45	044097200M	Washer	#8	1
46	700179000M	Belt stopper CP	#50	1
47	BSZ08020	Bolt	M8x20 (8.8)	1
48	NSP08	Spring nut	M8 (4)	1
49	044097200M	Washer	#8	1
50	7020120000	Label ; 2		1

PARTS DIAGRAM



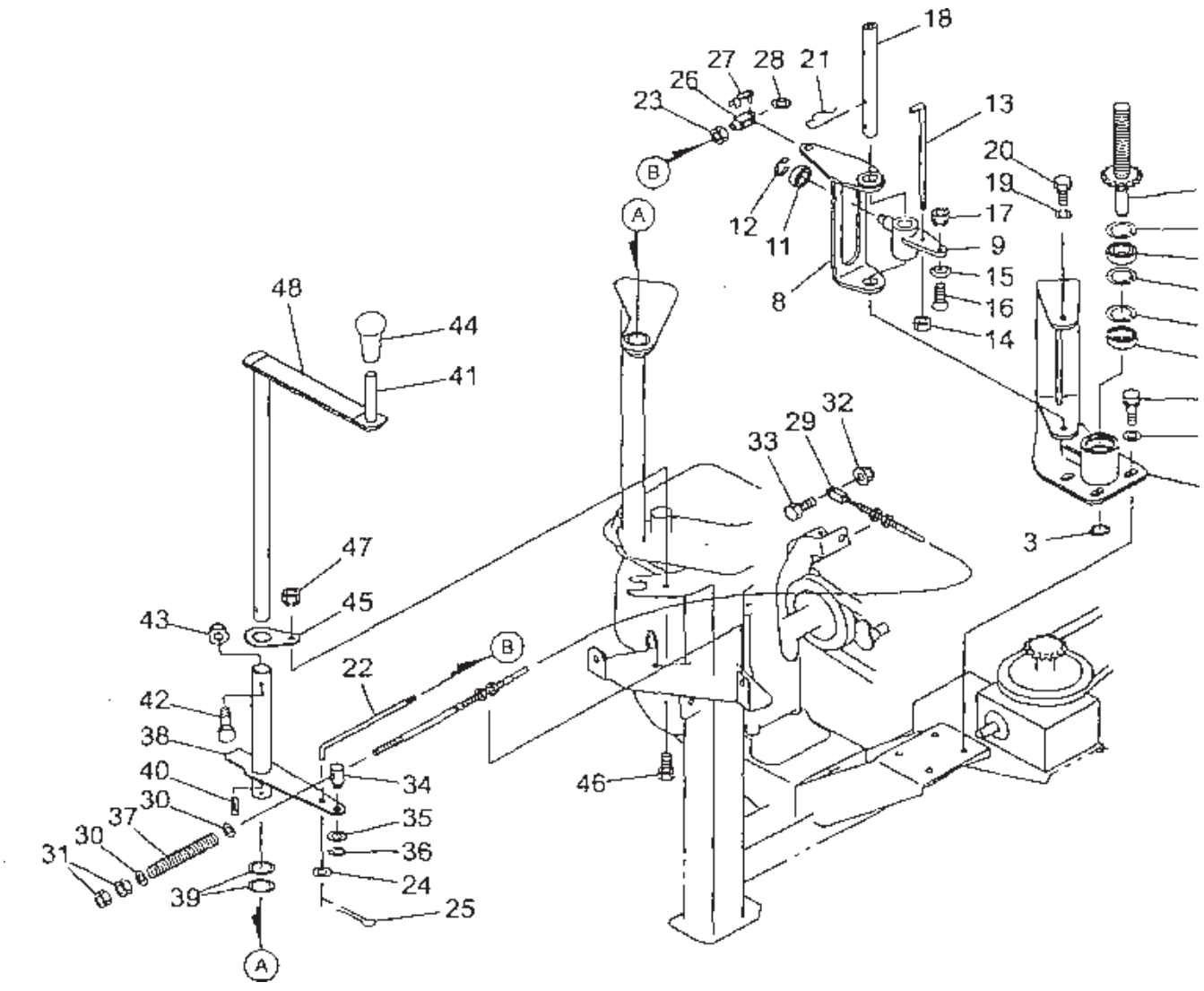
PARTS LIST

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	1297760007	Roller CP		2
2	130191000M	Washer	16.5x1.0	2
3	DC015	Snap ring	#15	2
4	1987810007	Side board CP (left)		
5	BSZ08016	Bolt	M8x16(8.8)	4
6	WSA08	Spring washer		4
7	1297820007	Side board CP (right)		1
8	BSZ08016	Bolt	M8x16(8.8)	4
9	WSA08	Spring washer	M8	4
10	1302050007	Cover CP		1
11	WRA06	Washer	M6	2
12	BZ06016	Bolt	M6x16(8.8)	2
13	NP06	Spring nut	M6	2
14	1297830007	Cover CP		1
15	WRA06	Washer	M6	4
16	BZ06016	Bolt	M6x16(8.8)	4
17	WS06	Spring washer	M6	4
18	1297850007	Frame CP		1
19	1297910000	Bearing		4
20	WRA06	Washer	M6	8
21	WS06	Spring washer	M6	8
22	BZ06016	Bolt	M6x16(8.8)	8
23	129793000M	Collar	10x840	1
24	1297940000	Bush		2
25	WRA14	Washer	M14	2
26	PC032020	Split pin	3.2x20	2
27	129795000M	Collar	16x11	2
28	129941000M	Sprocket	35-20T	2
29	NZ06	Nut	M6 (8)	4

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
30	TRT06020	Set screw	M6x20 (10.9)	4
31	LA35135	Roller chain	35 x 135L	1
32	129796000M	Collar	1021	1
33	BSZ08045	Bolt	M8x45 (8.8)	1
34	044097200M	Washer	#8	3
35	NSZ08	Nut	M8 (8)	2
36	700776000M	Sprocket	35-13T	1
37	NZ06	Nut	M6 (8)	2
38	TRT06020	Set screw	M6x20 (10.9)	2
39	129798000M	Shaft		1
40	1297910000	Bearing		2
41	WRA06	Washer	M6	4
42	WS06	Spring washer	M6	2
43	BZ06016	Bolt	M6x16(8.8)	2
44	BZ06016	Bolt	M6x16(8.8)	2
45	NP06	Spring nut	M6	2
46	129807000M	Collar	16x4	1
47	129808000M	Collar	16x19	1
48	129799000M	Sprocket	40-23T	1
49	NZ06	Nut	M6 (8)	2
50	TRT06020	Set screw	M6x20(10.9)	2
51	129800000M	Sprocket	40-13T	1
52	NZ06	Nut	M6 (8)	2
53	TRT06020	Set screw	M6x20 (10.9)	2
54	1298010007	Boss CP		1
55	J6005LLU	Bearing	#6005-2RS	1
56	J6204LLU	Bearing	#S204-2RS	1
57	DHC047	Snap ring	#47	3
58	DC020	Snap ring	#20	1
60	BSPZ08016	Bolt with spring washer	M8x16	6

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
61	129804000M	V-pulley	A1-8"	1
62	BSZ08016	Bolt	M8x16	4
63	NSP08	Spring nut	M8 (4)	4
64	1298060000	Belt		1
65	130174000M	Angle		1
66	BSZ08025	Bolt	M8x25	1
67	NSP08	Spring nut	M8(4)	1
68	7005590000	Wheel	90xΦ7	1
69	028833200M	Washer	#6	1
70	NZ06	Nut	M6 (8)	1
71	BZ06055	Bolt	M6x55 (8.8)	1

PARTS DIAGRAM

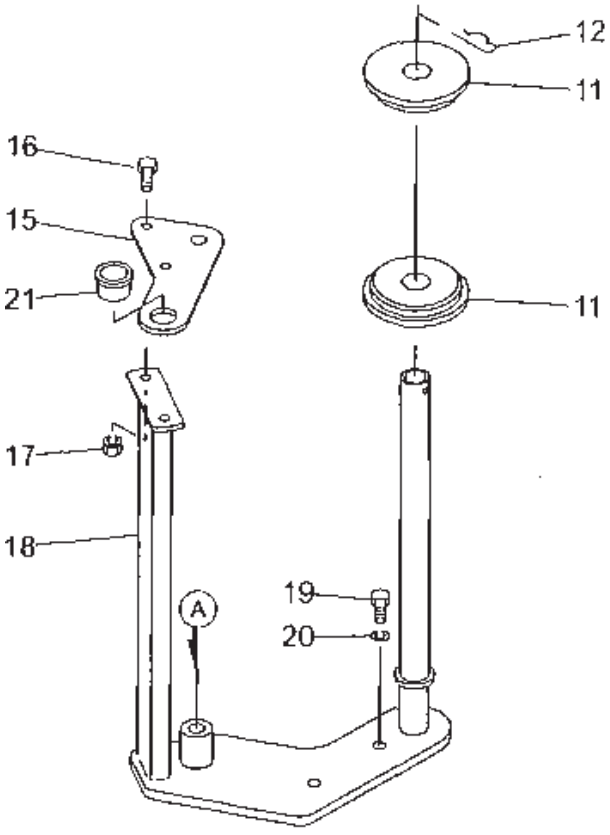


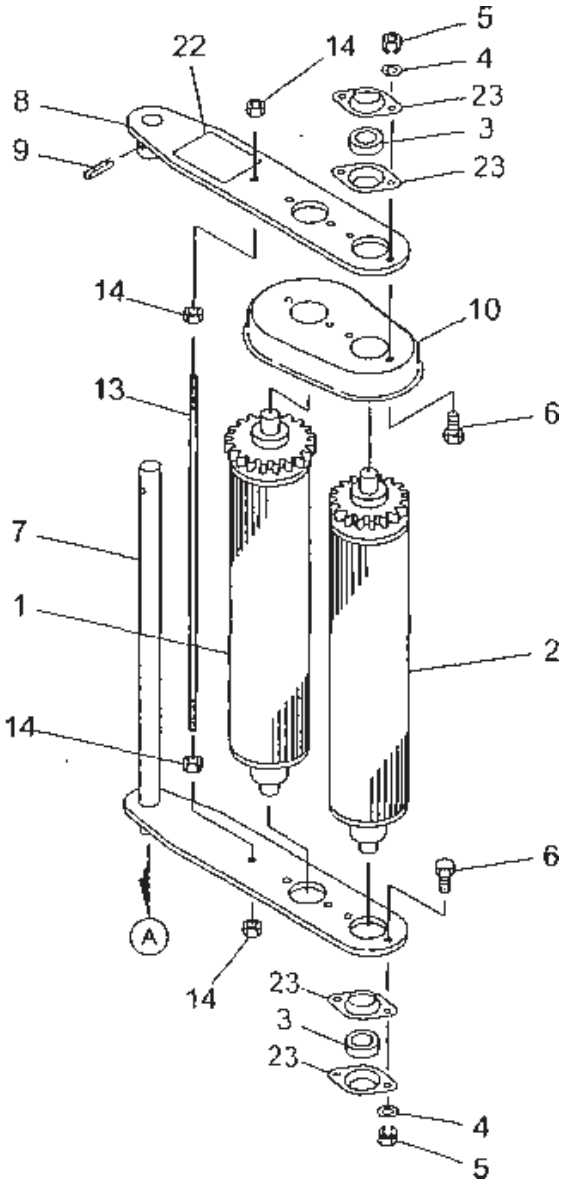
PARTS LIST

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	700299000M	Shaft CP	35-14T	
2	J6202LLUDC015	Bearing	#6202-2RS	2
3	DC015	Srap ring	#15	
4	129893000M	Bracket CP		1
5	DHC035	Washer	#35	3
6	044097200M	Washer	#8	4
7	BSPZ08020	Bolt with spring washer	M8x20	4
8	129899000M	Bracket CP		1
9	700515000M	Arm CP		1
11	J6000LLU	Bearing	#6000-2RS	1
12	DE008	Snap ring	#8	1
13	129906000M	Bar		1
14	NZ06	Nut	M6 (8)	1
15	129907000M	Top		1
16	BJ06020	Flat head bolt	Hexagon socket, M6><20 (10.9)	1
17	NP06	Spring nut	M6	1
18	700292000M	Shaft	M6	1
19	WS06	Spring washer	M6	2
20	BZ06016	Bolt	M6x16(8.8)	2
21	000078200M	Snap pin	16^2.3	1
22	10511000M	Rod CP		1
23	NSZ08	Nut	M8 (8)	1
24	044097200M	Washer	#8	1
25	PC032016	Split pin	3.2x16	1
26	079424000M	Fork end	8x32	1
27	079425000M	Pin	8x32	1
28	044097200M	Washer	#8	1
29	1299100100	Wire	02.5	1
30	044097200M	Washer	#8	2

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
31	NSZ08	Nut	M8 (8)	2
32	NNF06	Flange nylon nut	M6	1
33	BZ06020	Bolt	6x20(8.8)	1
34	129911000M	Pin		1
35	WRA10	Spring washer	M10	1
36	DE008	Snap ring	#8	1
37	129912000M	Spring		1
38	700297000M	Lever CP (A)		1
39	129888000M	Washer		2
40	PS050032	Spring pin	5x32	2
41	700296000M	Lever CP (B)		1
42	BZ06035	Bolt	M6x35 (8.8)	1
43	NNF06	Flange nylon nut	M6	1
44	1299160000	Grip	#12	1
45	129921000M	Plate		1
46	BZ06016	Bolt	M6x16(8.8)	1
47	NP06	Spring nut	M6	1
48	7020170000	Label； 7		1

PARTS DIAGRAM





PARTS LIST

No.	PARTS NO.	PARTS NAME	REMARKS	QTY
1	7006200000	Stretch roller CP	28T	1
2	7006240000	Stretch roller CP	19T	1
3	700668000M	Bi-flange		8
	JCS202LLU	Bearing		4
4	WRA06	Washer	M6	8
5	NP06	Spring nut	M6	8
6	BZ06020	Bolt	M6x20 (8.8)	8
7	700616000M	Frame CP (A)		1
8	700618000M	Frame CP (B)		1
9	PS060025	Spring pin	6x25	1
10	7006150007	Cover		1
11	1298360000	Roller		2
12	000088100M	Snap pin	19x3	1
13	129837000M	Shaft		1
14	NZ06	Nut	M6 (8)	4
15	129838000M	Plate		1
16	BSZ08020	Bolt	M8 x 20 (8.8)	2
17	NSP08	Spring nut	M8 (4)	2
18	1298390007	Frame CP (C)		1
19	BSZ10025	Bolt	M10x25 (8.8)	2
20	WSA10	Spring washer	M10	2
21	7006670000	Bush		1
22	7020140000	Label ; 4		1

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