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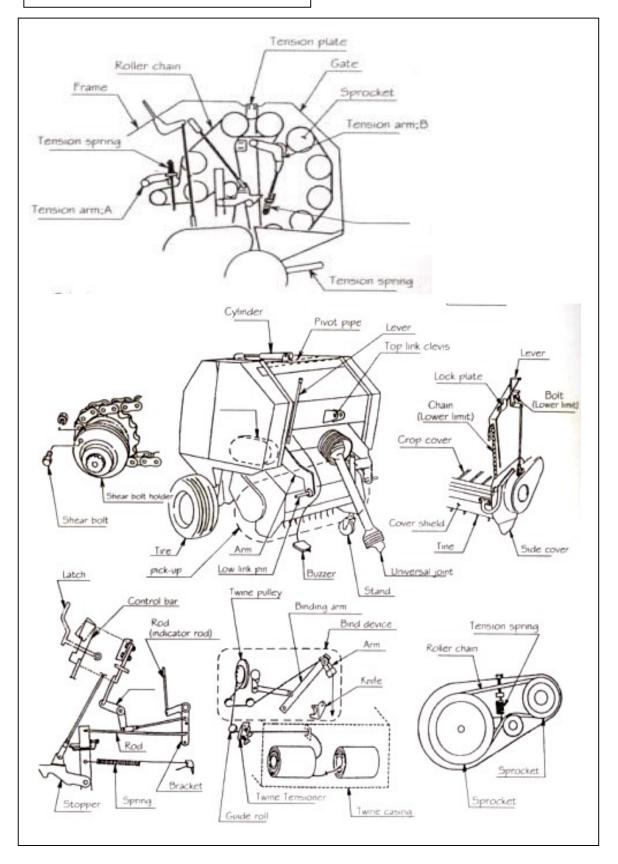
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6. Trouble shooting

1. Trouble shooting table

1 Attaching to a tractor

1 Name of parts and its function

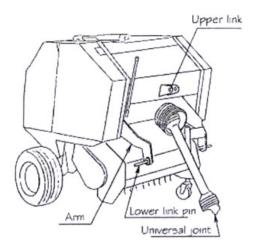






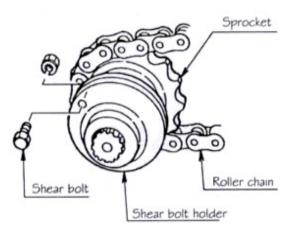
By adjusting the spring in different holes, adjust the tension of the pressure bar; make it press the net always.

1 Lower link pin and upper link Lower link pin and upper are connected with the tractor lower links and top link.



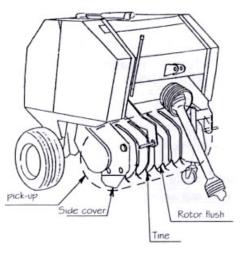
2. Shear bolt

shear bolt is sheared when overload affect to the machine for preventing from the damaged of the machine



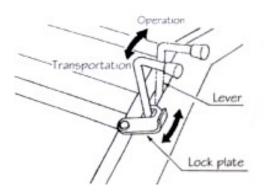
3. Pick up

Pick-up is operated to pick-up baling Material from the ground.



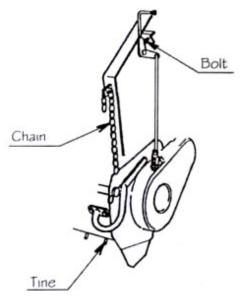
4. Lever and lock plate

pick-up is lifted and is hold by lock plate for transportation of the machine. Pick-up is lowered by releasing lock plate.



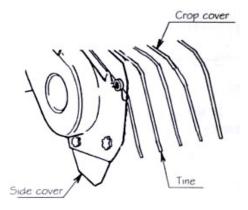
5. Chain and bolt(lower limit)

Chain and bolt limit the height of pick-up times from the ground.



6. Crop cover, Cover shield and side cover

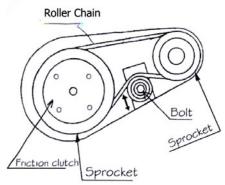
Crop cover helps to convey hay or straw smoothly to the chamber.



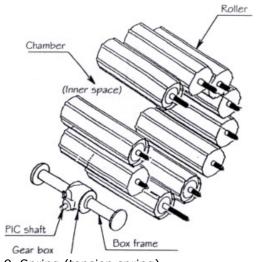
7. Roller chain and sprocket Roller chain transfer the power to

driver pick-up.

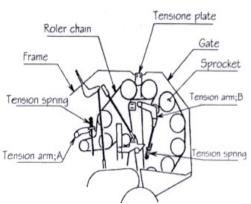
Friction clutch slips when over load affects to pick-up for preventing from damaged of pick-up



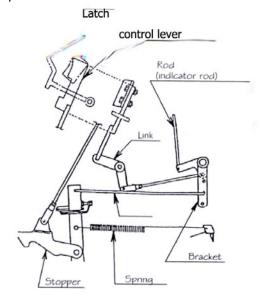
8 Chamber and roll
Chamber is formed by rolls.
rolls rotate themselves and rotate
baling material for making cylindrical
material inside of chamber.



Spring (tension spring)Spring gives proper tension to roller chain.

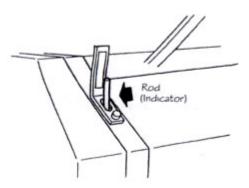


10. Rod and bracket Bale density can be adjusted by changing the rod position into hole.



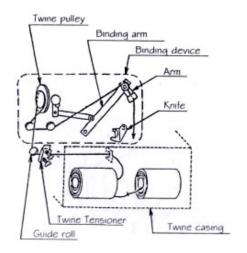
11. Rod (Indicator rod)

Rod shows to the operator the progress of making bale.



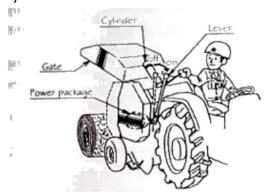
12. Binding device

Binding device winds twine on a finished bale.



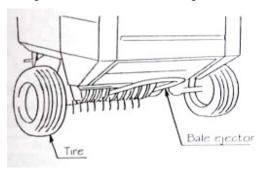
13. Hydraulic power package and lever

Hydraulic power package actuate hydraulic cylinder to open and to close gate for bale ejaculation.



14.Bale ejector

The bale ejector rolls the finished bale far enough from the machine to allow gate close.



2 Applicable tractor size

This machine is designed to perform by attaching to suitable size of the tractor.

If this machine is attached to unsuitable size of tractor, it will have a possibility of giving bad affection to durability or to operation.

> Application tractor HP RXYK0850 From 18 HP to 50 HP RXYK0870 From 30 HP to 50 HP

Never attach the machine smaller tractor than 18HP(RXYK0850) or 30HP(RXYK0870).

It will be a cause of serious accident lack of weight balance.

If the machine is attached to bigger tractor than 50HP, it will have a possibility to give damage to the machine.

3 Assemble

1. Package opening

Open the package and unite the parts from package wooden frame.

2.Details of attached parts

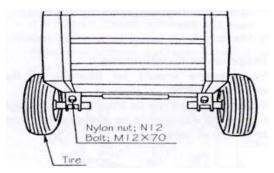
Make sure if all parts delivered in accordance with packing list.

3. Process of assembling

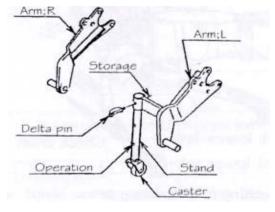
Refer to the mark numbers on nuts and bolts necessary for assembling in the packing list.

(1) Attach the tires on the machine and fix them by nylon nuts and bolts.

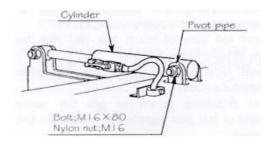
Adjust the tire tread not to trace to the tractor wheel tracks.



(2) Attach stand to arm;L



(3) Extend the rod of hydraulic cylinder and align the hole of barrel and the hole of pivot pipe. Then apply bolt.



(4) Refer to parts list to apply other parts to the machine.

4 Attaching to a tractor

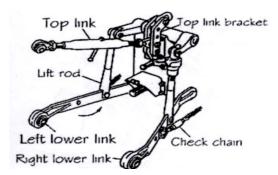
- Warning
- Bystanders must keep safely distance when the machine is attached to the tractor or detached from the tractor.
 - Caution
- Attach the machine to the tractor or detach the machine from the tractor on flat and solid ground.
- If the machine is attached to a light weight tractor, it has a possibility of getting unstable steering.

Attach the front weight on the tractor in case like this.

1. Preparation for attachment

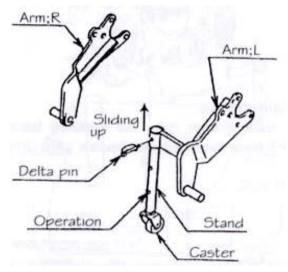
This machine should be attached to the standard 3P tractor.

If the machine can not be lifted up high enough, the pin of lift rod should be inserted into front side of hole of lower link.



- 2. Attaching to a standard 3P
- In accordance with following procedure.
- Start engine of the tractor and drive a tractor to backward until tips of lower link will be aligned.
 - Stop engine and apply parking brake.
- (2) Insert left side of lower link pin into the hole of right lower link pint.
 - Insert right side of lower link by same procedure above
- (3) Turn adjusting screw to get the same height of left and right lower links from the ground.

- (4) If the width of lower link is small, adjust the link of left side (look from backward) internal
- (5) Lift the 3P machine by 3P connection to let the 3P frame upright rise choose the position of main link pin then connect and fix.
- (6) Start engine of the tractor and operate the oil pressure handle to the machine then stop the engine.

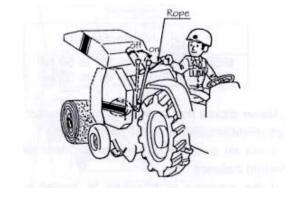


- (7) Align the center of PIC shaft and PTO shaft by check chains and then tighten check chains to protect the machine swing,
- 3. Attachment of power package operation rope

Caution in operation

 Connect operation rope to the tractor not to touch with universal joint and to have enough slackness not to stretch in turning.

The breaking end of rope is fixed inside of driver's cab(no effect to operation)



4. Attachment of buzzer

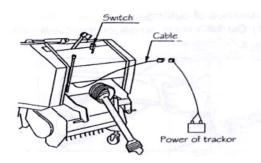
Caution in operation

 Adjust the length of electric cable to get enough slackness and not to stretch in turning.

Tie the surplus of electric cable with a string to the tractor.

Turn off the switch when the machine is not used.

- Attach the buzzer at suitable position for the operation.
- Connect with accessorial electric cable to power of tractor(12V).



5. Method of twine threading

- Warning
- Stop the tractor engine when twine is treaded.

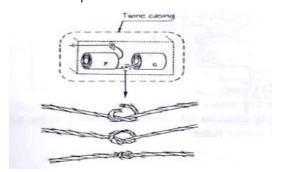
Caution in operation

Use only original twine.

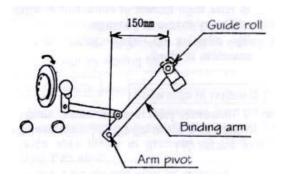
TG0800 (Jute 8500 feet)

TP0800 (Polypropylene 1100 feet)

- (1) Contain two twine spools in the twine casing.
- (2) Connect the end of rope G.Knot be made as small as possible.



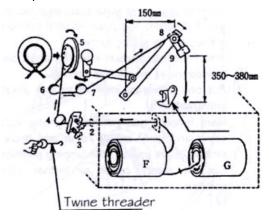
(3) Turn twine pulley to the direction of arrow until binding arm move from outside to inside and then stop turning at horizontal distance 150mm between tip of binding arm and pivot.



(4) Thread twine tip order from 1 to 9.

Use attached twine threader places where it is difficult thread twine.

Cut the end of twine by the length from 350mm to 380mm and hang it from binding arm tip.



5 Attachment of Universal joint

- Danger
- Never use universal joint with damaged safety cover or without safety cover.
- Inspect it if damage is found out on universal joint.
- Stop the tractor engine and disengage PTO clutch when universal joint is attached.
- Fix chains of safety cover to the tractor and stationery part of the machine not to rotate safety cover.

Caution

 If overlap length between inner and outer tube of universal joint is less than 100mm in extended position, it will be a cause of universal joint breakage.

If the space between inner and outer tube is less than 25mm in retracted positon, it will be a cause of damage.

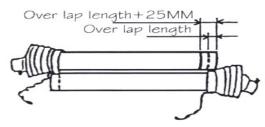
By pushing to each other when the machine is lifted.

Caution in operation

- If universal joint makes noise when the machine is lifted up by 3P,limit the height of tractor 3P.
- 1. Universal joint length check
- (1) Pull out other tube of universal joint from inner tube of universal joint.
- (2) Lift up the machine and stop the lifting at the closet distance PTO shaft and PIC shaft.
- (3) Push cramp pin of yoke and insert the yoke into PTO shaft and push on until cramp pin comes out by spring force.
 - Insert the other yoke into PIC shaft same procedure as mentioned above.
- (4) Put one universal joint on to one another universal joint.

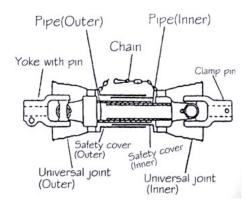
Mark lapping end position of outer safety cover and inner safety cover and mark at further 25mm inside from lapping position.

Cut off safety cover at further 25mm position.

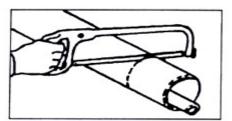


- (5) Lift the machine and stop lifting at the most separated position between PTO shaft and PIC shaft.
- (6) Put one safety cover on to one another cover.

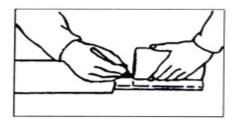
If lapping length is less than 100mm, replace it to longer universal joint.



- 2. Method of cutting
- Cut off excess length of inner and outer safety cover.

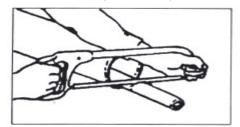


(2) Mark on inner and outer pipe the same length of cut off safety cover from the end of inner and outer tube.



(3) Before cutting off, put rag into between safety cover and pipe not to come into sawdust.

Cut off excess length of tube by metal saw.

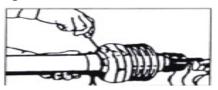


(4) File cut ends and clean the surface.

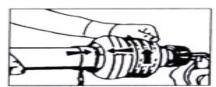
Apply grease on tube and insert inner tube into outer tube.

3 Method of outer safety cover removal

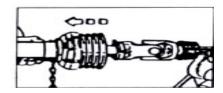
- (1) Disassemble procedure of cover
- 1 Take out fix screw



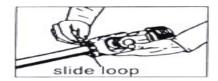
② Revolve the cover to the position of release.



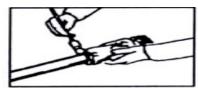
3 Pull out safety cover from tube.



4 Take out the slide loop.



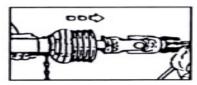
- (2) Assemble procedure of cover
- ①Apply oil to slide loop channel and tube inside.



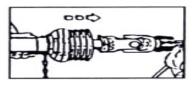
② Open the cut mouth of slide loop and limbed it to the channel of tube.



3 Fit the safety cover.



4 Screw the cover tightly



⑤ Fix the position with fix screw



4 . Connection of universal joint

(1) Connection to the machine

Push cramp pin of yoke and insert yoke into PIC shaft and push on until cramp pin comes out by spring force.

(2) Connection to the tractor Push cramp pin of yoke and insert the voke into PTO shaft and push on until

yoke into PTO shaft and push on until cramp pin comes out by spring force.

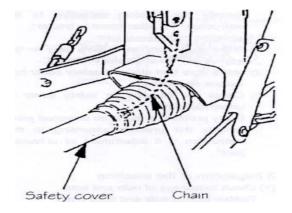
Caution:

After connection of universal joint, make sure that cramp pins of PTO side and PIC side stay firmly in grooves of PTO shaft and PIC shaft. If the pins do not stay in grooves firmly, it will be a cause of serious accident.

(3) Fix of safety cover chain

Fix safety cover chain on stationary part of tractor to prevent from rotation of safety cover.

Slacken off chain not to stretch it in the up and down movement of tractor 3P.



2 Inspection before operation

Following should be done before operation to stand long life the machine

1 Inspection before operation

1.Inspection of the tractor parts

Inspect the r\tractor parts in accordance with operation manual of the tractor.

2. Inspection of connecting parts

- (1)Inspection of 3P connecting parts
- 1)Make sure that locking pin is inserted into the hole of low link pin.
- 2)Make sure that locking pin is inserted into a hole of top link pin.
- 3)Make sure that check chains of the tractor are stretched firmly.
- 4) If any problem is found in connection, remedy the problem according to the instruction "1-4 Attachment to tractor".
- (2) Inspection of universal joint
- 1)Make sure that cramp pins stay in the groove of PTO shaft and PIC shaft.
- 2)Make sure that chain of safety cover has excess slackness.
- 3) Check the damage on safety cover of universal joint.
- 4)If any problem is found on universal joint, remedy the problem according to the instruction "1-5 Attachment of universal joint".

3 Inspection of the machine

- (1) Check looseness of nuts and bolts.
- Tighten loosen nuts and bolts firmly.
- (2) Check if the shear bolt is sheared or not.
- If it is sheared replace to new one referring sufficient. To the parts list.

Beforehand, prepare for replacement shear bolts.

- (3) Check it roller chain is properly stretched. Adjust it in accordance with the instruction "5-2-1 Adjustment of roller chain stretch".
- (4)Check the length of pick up tension if the length is improper, adjust the length in accordance with the instruction of "5-2-2 Pick-up V-belt

(5) Check the length of twine tensioner.

If the length is improper, adjust it in accordance with the instruction "5-2-3 Adjustment of twine tensioner".

(6)Check the sharpness of binding knife to cut

If it has a problem, solve the it in accordance with the instruction "5-2-5 Adjustment of binding knife".

(7)Check if twine is enough, twine is threaded properly and binding arm is in proper position.

If any problem is found, solve it in accordance with the instruction "1-4-4 Method of twine treading".

(8)Check damage of tine and rotor flush.

If it is damaged, replace it to new one by referring to parts list.

- (9)Check stuck hey or straw in the machine. Remove stuck crop from the machine.
- (10) Check application of oil and grease. If it is not applied properly lubricate in accordance with the instruction "2-3 Lubrication spots table".
- (11)Check it tier air pressure is sufficient.If it is insufficient, apply air until the pressure becomes $195kPa(2.0Kg/m^2)$

2 Inspection in tractor engine running

1.Inspection of the tractor hydraulic Lift up the machine by controlling lever of lift up and down for hydraulic control.. If the machine will not come down in lifting up position, hydraulic system has no trouble.if hydraulic system has any trouble, contact with tractor dealer for solvina problem.

2. Inspection of machine hydraulic system

(1) Inspection of machine hydraulic system for gate opening and closing

Warning

Bystanders must be away from the machine when gate is opened.

Warning

Bystanders must be away from the machine when gate is opened.

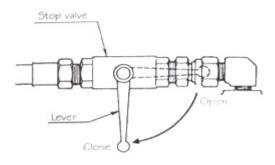
Lock gate by the stop valve when the machine is checked in the gate opening situation.

caution

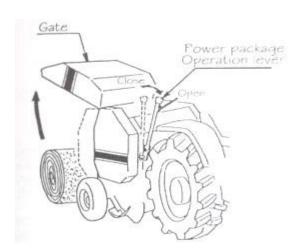
If the hydraulic hose is damaged or hydraulic fitting is loosen,it will be cause of injuring by leaking high pressured hydraulic oil or suddenly dropping of the machine.

Replace damaged hydraulic hose or fittings and tighten loosen fittings.

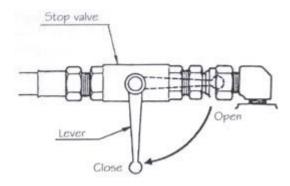
 Turn lever of stop valve for gate opening and closing to "Opening" position.



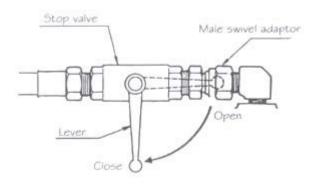
2) Start the tractor engine and engage PTO to rotate PTO shaft and then open gate by operating lever of power package.



 Turn lever of stop valve to "close"while pulling the lever of the power package at full opened gate position.



- If the gate does not come down, it has no trouble. If gate comes down, check oil leakage and repair or replace damaged part.
- 5) Close the gate by turning slowly lever of the stop valve to "Open" direction. If the air remains in the hose or cylinder, loosen male adapter and let the air out it. Tighten swivel adapter after releasing air.

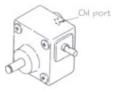


3 Lubrication spots table

- Apply fresh and clean oil and grease the machine.
- Apply grease to a grease nipple until old grease come out.
- 1) Gear box

2) Worm gearbox





3) Power package

4)Housing





5) Sprocket

6)Arm support

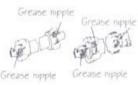


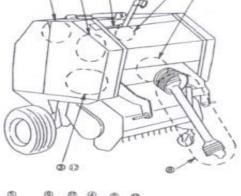


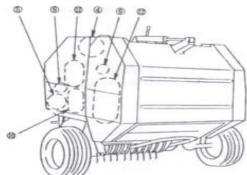
7)Crank bar

8)Universal joint









9)Tension arm pivot

10)Link pivot





11)Gate pivot

12)Roller chain





No.	Lubrication points	Point	Kind of lubrication	Changing time	Q'ty	Remarks
1	Gearbox	1	Gear oil ; SAE 90 API GL-5	After 100 hr or one season	500g	Discharge gearbox,cleaning before oiling
2	Worm gearbox		Gear oil; SAE 90 API GL-5;			
3	Power package	1	Gear oil; SAE 90 API GL-5;	Every 100 hr	1.7L	Gearbox tank
4	Housing	2	Grease; Number3	After operation	Proper Q'ty	Grease nipple
5	Sprocket	1	Grease; Number3	After operation	Proper Q'ty	Grease nipple
6	Arm support	1	Grease; Number3	After operation	Proper Q'ty	Grease nipple
7	Crank bar	2	Grease; Number3	After operation	Proper Q'ty	Grease nipple
8	Universal joint	-	Grease; Number3	After operation	Proper Q'ty	Grease nipple
9	Tension arm pivot	2	Oiling	After operation	Proper Q'ty	Grease nipple
10	Link pivot	4	Oiling	After operation	Proper Q'ty	
11	Gate pivot	2	Oiling	After operation	Proper Q'ty	
12	Roller chain	4	Grease application	After operation	Proper O'ty	

3 Operation method

1 Purpose of this machine

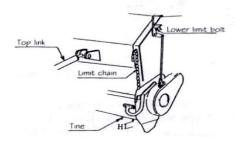
- 1. This machine is produced for baling grass, rice straw and straw. Never use except this purpose.
- (1) Bale for the hay which is less than 20% of moisture content.
- (2) Bale the grass for making wrapping silage which is between 50% and 60% of moisture content.
- Do not operate the machine after stopping rain of in muddy field. Operate the machine in well dried field.

2 Adjustment for operation

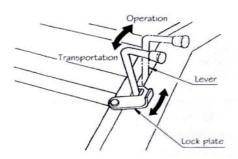
- 1. Adjustment of pick-up tine the height from the ground
- (1) Adjust pick-up tine height from the ground by limit chain and lower bolt.

Fine adjustment is done by top link pin of a tractor.

Baling material	Н
Cut straw	0 mm
Long straw or hay	20mm



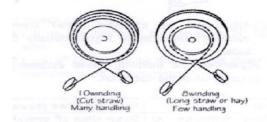
(2) Select operation position and transport
Position by moving the lever and lock plate.



2 Adjustment of twine winding number

Adjust the twine winding number according to baling condition and handling condition of bale.

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

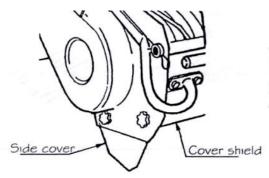


The winding number should be changed according to thickness of twine.

If the twine is thicker, the winding number must be more. Above table is the standard.

3. Adjustment of Cover shield and Side cover

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



4. Adjustment of the bale density

Caution

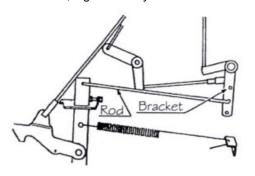
 High density of bale requires high tractor PTO horse power.

Adjust bale density according to the tractor size, the field condition and the baling material.

(1) Adjustment of the rod

When the rod is inserted into higher position of bracket hole, lower density of bales are made.

When the rod is inserted into lower position of bracket hole, higher density of bales are made.



(2) Adjustment by traveling speed lower traveling speed make higher density of bale.

Adjustment the traveling speed according to condition of the operation.

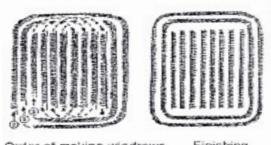
3 Operation method in field

1.Method of windrow making

Make windrow of the width from 70 cm to 80cm and the height from 30cm to 40 cm as

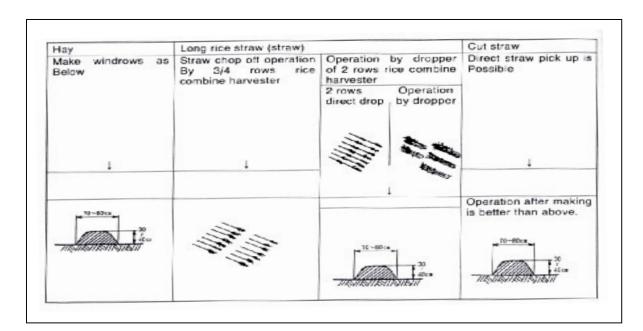
Uniformly as possible.

The windrows which are made for efficiency and smooth operation are recommended.



Order of making windrows

Finishing



1. Field operation

Warning

Bystanders must be away from the machine when pick-up is running. Stop the tractor engine when taking away Stuck baling material from the pick-up.

Never touch rotating rollers.

Stop the engine of the tractor when taking away stuck grass between rollers.

(1) Put on the switch of the buzzer and rotate PTO and then travel the machine by striding over a windrow.

Adjust PTO speed depending on baling material condition and the moisture content of it.

Baling material condition *	PTO speed
Moisture content	
Standard	540 rpm
Dried* short	350-450 rpm
Moist* stuck pick-up	540-600 rpm

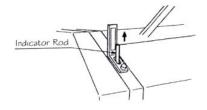
Normal operation speed is 3-5 km/hr.

Adjust the operation speed depending round on the field condition.

Caution in operation

- Do not stop PTO while twine is binding round on a bale
- (2) Quantity of the baling material inside of the chamber can know from the indicator.

The indicator rod rise up when a bale coming to complete.

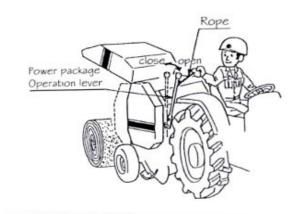


(3) When a bale reaches to complete, buzzer sounds and twine binds on a bale automatically.

Caution in operation

- If the twine binding will not start, forward about 1m.
- (4) When twine binding is finished, twine is cut and binding stops.

Pull the rope of power package while PTO is running and open the gate and then eject a bale.



warning

- Bystanders must be away from the machine when the gate is opened.
- Do not eject a bale at inclined field.
 Eject a bale always level field.
- (5) Return lever of power package after bale ejection to close gate and then start the operation.

4 transportation

- 1. Stop PTO of the tractor
- 2. Pull down the lever and lock it by lock plate.
- 3. Switch off the buzzer.
- 4. Lift up the machine by operating 3P lifting lever.
- 5. Lock 3P of the tractor not to come down the machine in the transportation.

4 Out of season for storage

Maintain the machine for keeping long life.

Never try to remove blocked material when the machine is running.

Disengage clutch of PTO drive, stop tractor engine and make sure all moveable parts stop.

1 Maintenance after operation

field.

- 1. Remove piled dust from the binding unit.
- 2. Remove baling material stuck material on the rolls
- 3. Remove dust from driving device in the side of the machine.
- Replace damaged or worm parts to new ones.
- 5. Inspect driving and connection parts in accordance with inspection spots table.
- 6. Lubricate in accordance with lubrication spots table.
- 7. Apply grease on PTO shaft, PIC shaft, power joint and other parts which are not painted to prevent from the rust.
- 8. When machine and tractor separate, column should be set down.
- 9. After machine and tractor separate, universal joint should be detached.

2 Detaching from tractor

- 1. Slid down stand and insert pin into the highest position of a hole.
- 2. Lower hydraulic control lever of a tractor until tires of the machine contact with the ground.
- 3. Stop the tractor engine and apply parking brake.
- 4. Detach power joint from the tractor PTO shaft.
- 5. Detach right side of lower link, left side of lower link and top link.

3 Storage in out of season

- 1. Clean every parts of the machine.
- 2. Inspect moving parts and connecting parts in accordance with inspection and maintenance points table.

If any damaged or worn parts are found, they must be replaced with new ones.

3. Apply grease or oil in accordance with lubrication points table.

Apply oil to rotating, pivoting parts and sliding parts such as clump pin of power joint.

Apply grease on PTO shaft, PIC shaft and spine holes of power joint yoke.

- 4. Paint or apply oil on damaged surface of parts to prevent from the rust.
- 5. Store the machine in well ventilating indoor.
- 6. If there is no choice but to keep the machine in out door, cove the machine with a plastic sheet.

5 Inspection and maintenance

Inspection and maintenance should be done regularly to obtain good condition.

Inspect and maintain each pads In accordance with inspection and maintenance table to Prevent from accident by poor maintenance.

Since tines, shear bolts, knives and twine are consuming pads, replace worn parts with new ones or replenish with new ones.

Warning

- Stop the tractor engine and disengage PTO when adjustment of twine binding device is done.
- Lock stop valve for fixing gate when inspection or adjustment is done at opening gate.

Caution

- Lock the hydraulic circuit of tractor when the machine is lifted up for maintenance or for inspection prevent from machine' S failing down.
- Inspection or maintenance should be done On solid g round or concrete.
 Never inspect or maintain on slant.
 uneven, or soft ground.
- Stop the tractor engine and make sure all machine parts stop when inspection or adjustment is done.

Hours	Items for checking	Remedy
After initial	Looseness of all nuts and bolts	Tightening
1 hour	Slackness of roller chains	Adjustment in accordance with "5-2-1
operation		Tension adjustment of roller chain"
Before	Cleaning up	Replacement
operation	Wear of pick up tines	Replacement
After	Wear of binding knife	Replacement/Replenishment
operation	Shear of shear bolt	Replenishment
(or before	Twine consumption	Replacement
operation)	Running out of battery cell for buzzer	(Layer•built cell battery 9V; 6F22)
	Tires air pressure	1 95kPa(2. 0kg/cm2)
	Looseness and loss of nuts, bolts and	Tightening and replenishment
	pins	Remedy in accordance with
	Abnormal noise or vibration in driving	trouble shooting table 6-1
	Breakage of power safety cover of	Replacement
	roller chain cover	
	Lubrication to rotating and moving	Lubrication in accordance 2—3
	parts	Lubrication points table
	Adjustment of each parts	Adjustment in accordance 5-2
		adjustment of each pads
Out of	Broken parts	Repair
season	Worn parts	Replacement with new one
	Cleaning up each parts	
	Damage of painting	Painting or applying oil
	Worn pivoting pads or pins	Replacement to new ones

transmitting the power smoothly.

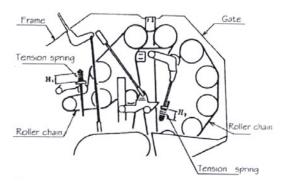
Since the roller chain is especially elongated by initial usage, adjust tension after initial usage.

(1)Adjustment of tension spring

Adjust tension of roller chain on frame on the frame and on gate by adjusting the length of the tension springs.

The length of spring is mentioned below. The length of the spring is printed in the which is stuck on the machine.

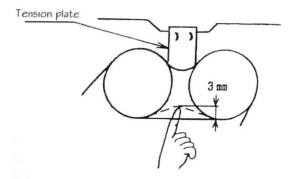
> H1=36mm H2=38mm



(2)Adjustment of tension plate

Adjust tension of roller chain between frame and gate by tension plate.

Proper roller chain tension gives 3mm deflection when roller chain is pushed by a finger.



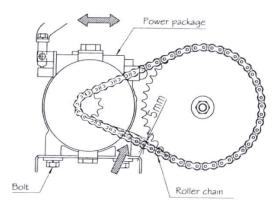
(3)Adjustment of power package

Tension for roller chain to drive the power package is adjusted by moving position of the power package.

Push middle part of chain between both

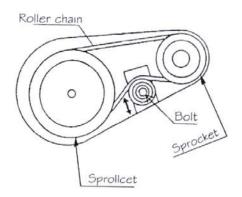
sprockets by finger.

Correct tension is approx. 5mm of deflection when the chain is pushed.



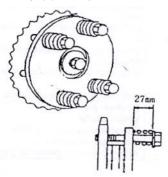
2.Adjustment of drive part for pick. up

(1)Loose bolt, revolve tension r0 II to adjust chain, after adjustment, fasten the bolt. The most suitable tension is 3mm pressed down at the center of the chain.



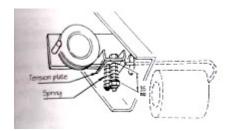
(2)Adjustment of sliding clutch

Springs(4) are adjusted to 27mm



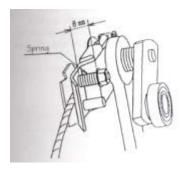
3. Adjustment of twine tension

Adjust spring length to 35mm



4. Adjustment of arm tension spring

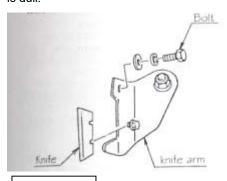
Adjust length of the spring at 8mm



5. Adjustment of binding knife

Remove the knife and attach it after reversing if the knife is dull.

Replace the knife to new one if reversed knife is dull.



Caution

Apply original replacement knife of the machine

6. Adjustment of the bale density detection link

(1) Adjust the clearance between stopper and collar on gate by bolt.

L1=1-2mm is proper.

(2) Remove the from fork end on from lower end of release rod and them pull the release rod to lower

Adjust the dimension between lower side of fork end slot and the hole of stopper as mentioned bellow in above situation.

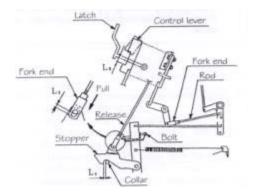
L2=2mm is proper.

(3) Adjust the dimension between latch and cutout of control bar as below.

L3=8mm is proper.

Adjust this dimension to L3=6mm.

If bale weight is too heavy(More than 25kg) because of too much moisture content.

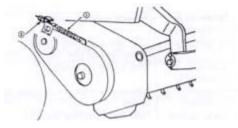


7. Adjustment of Pick-up suspension

Proper suspension springs length on both sides Of pick-up is L=48mm.

Adjust spring length according to field condition if the pick-up does not follow well the field unevenness.

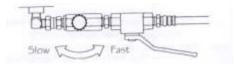
Both springs length should be the same after the adjustment.



8. Adjustment for closing speed of gate

Closing speed can be adjusted by turning of knob on the slow return valve.

Speed is decreased by turning it to right or is increased by turning it to left.



6 trouble shooting

Adjust the machine in accordance with trouble shooting table if it does not work well.

warning

- * stop the tractor engine and disengage PTO when adjustment is done.
- * lock gate by closing stop valve not to fall down when inspection or adjustment is done

1 trouble shooting table

* Pick up

Caution

- * lock the hydraulic circuit of tractor when the machine is lifted up for maintenance or inspection to prevent from machine's falling down
- * Inspection or maintenance should be done on solid ground or concrete.

Never inspect or maintain on slant, uneven, or soft ground.

* Stop the tractor engine, disengage PTO and make sure all moving parts stop when inspection or adjustment is done.

Ask to the dealer by informing followings if the cause of trouble and trouble shooting is not clear.

Fault	Possible cause	Remedy
* Abnormal	* Breakage of tine	* Tine replacement
noise is * Breakage of rotor flush		* Rotor flush replacement
made	* Winding of hay or twine	* Remove of winding material
	* Breakage of cam roller bearing	* Replacement of cam roller bearing
	* Insufficient V belt tension	*Adjustment in accordance with 5-2-2
* Material is	* Wrong pick-up setting	* Adjustment in accordance with 3-2-1
not picked	* Too fast traveling speed	* Reduction of traveling speed
up cleanly	* Breakage of tine	* Making windrow in accordance with 3-3-2
		*Shortening top link for obtaining forward declined machine position
*Baling	* Too fast PTO rotation	* Adjustment in accordance with 5-2-2
material is	* Obstruction by side cover and	* Replacement of broken V belt with new one
clogged	cover shield	* Adjustment in accordance with 3-2-1
between	* Too fast traveling speed	* Making windrow in accordance with 3-2-2
pick-up and	* Too wide and too high windrow	* Adjustment of cutting height for a mower
chamber.	* Too much declined pick-up	* Taking out side cover and shield cover
*Pick-up	* Wrong V belt tension adjustment	* Adjustment in accordance with 5-2-2
does not	* Breakage of V belt	* Replacement of broken V belt with new one
rotate	* Too much clearance between	
	pick-up tines and ground	* Adjustment in accordance with 3-2-1
	* Too wide and too high windrow	
	* Too much mowing height from	*Making windrow in accordance with 3-2-2
	ground	* Adjustment of cutting height for a mower
	* Obstruction by side cover and	
	shield cover	* Taking out side cover and shield cover

Pick-up

Fault	Possible cause	Remedy
* pick-up pushes long stem rice	*Matching of pick-up center and	* Picking-up by right side or
straw to forward	rice straw center in the pick-up	pick-up.
	operation.	(Turn up root of straw)

* Roller

Fault	Possible cause	Remedy
* Roller	* Wrapping material or mud	* Remove of wrapping
makes	on roller or clogging	material. mud or clogged
abnormal	material	material
noise	* Insufficient	* Application Of oil to roller
	lubrication	chain
	* Insufficient roller	* Adjustment in accordance
	chain tension	with5-2-1
	* Dent in roller	* Replacement dent roller with
		new one
* Material is	* Too fast PTO rotation	* Adjustment of PTO rotation
winding On	* Material clogging in	in accordance with3-3-2
roller	pick up	* Remedy in accordance
	* Dent in roller	with"pick-up" trouble shooting
		* Replacement dent roller with
		new one
*Heat	*Too high bale density	*Adjustment; n accordance with
generate in	*Insufficient	3-2-4 and 5-2-6
Roller chain	lubrication to roller	*Application grease to roller
	chain	chain
	*Insufficient roller	5-2-1

* Buzzer

Fault	Possible cause	Remedy
* Buzzer does not	* Switch off	* switch on
sound	* Running out of battery cell	* Replacement of battery cell
	* Wrong cable connection	* Correction of cable connection
	* Too much distance between switch	* Replacing broken cable with new one
	lever and binding arm	* Adjustment of switch location

* Binding

Fault	Possible cause	Remedy
*Binding does	* Binding is not set in correct initial	* Adjustment in according with 1-4-5.
not work when	position	* Lubrication
bale is finished	* Insufficient lubrication	* Adjustment in accordance with 5-2-3.
	* Wrong adjustment of tensioner	* Adjustment in accordance with 1-4-4.
	* Twine is coming off from twine pulley	* remove tangle and catch of twine
	* Twine is tangled or caught	* Supply of larger quantity of material
	* Lower density in bale left side	to left side of the machine
	* Binding arm does not rise up after	* Lubrication and adjustment of falling
	coming off latch.	speed by double nuts.
	* Twine tip does not come in chamber	* Adjust falling down speed of twine
		arm not to be ahead of twine falling
		* Remove obstruction and let twine tip
		into chamber.
* Binding device	* Binding is not set in correct initial	* Adjustment in accordance with 1-2-4.
work before	position	* Replacement of knife and adjustment
reaching to	* Longer leading twine length because	of leading twine length in accordance
setting density	of dull knife	with 1-4-4.
* Twine comes	* Fewer twine binding number	* Adjustment in accordance with 3-2-2
off from bale	* Twine tension is too loose	* Tighten nylon nuts of twine tension
* Twine is not		plate one or two turns
cut smoothly		

* Gate

Fault	Possible cause	Remedy
* Bale does	* Density too high density	* Adjustment in accordance with
not come out	* Too wide windrow	3-2-4
	* Declined field	* Making windrow in accordance
		with 3-3-1
		* Ejection of a bale in flat place
* Gate does	* Closing of stop valve	* Opening of stop valve
not open * Leakage or breakage of hydraulic		* Remedy in accordance with
	circuit	2-2-2-1
	* Wrong adjustment of locking	* Adjustment in accordance with
	hook	5-2-6
	* Disengagement of PTO	* Engage PTO and eject bale
	* Insufficient of power package oil	while PTO is running.
		* Application of Oil in accordance
		with 2-3.

* Shear bolt

Fault	Possible cause	Remedy
* Shear bolt is cut	* Too high PTO speed	* Operation in normal PTO speed
	* Clogging material in Pick-up	* Remedy in accordance with " pick-up"
	* Winding material on pick-up	clause of trouble shooting
	* Looseness of shear bolt	* Remedy in accordance with clause
		3-3-1

* Universal Joint

Fault	Possible cause	Remedy
* Abnormal noise	* Insufficient Lubrication	* Application grease to sliding pipes,
is made	* Too much sharp angle of universal	spiders and mounting part of safety cover
	joint	* Adjustment of tractor top link length,
		lower link stabilizer and lower link upper
		limit.

* Bale density detection link

Fault	Possible cause	Remedy
* Gate opens	* Stretching of power package	* Adjustment in accordance with
because of	operation rope	1-4-3
stopper's		* Attachment of power package
corning off		operation rope
from gate		
* Bale density	* Exceeding bale density operation	* Remedy in accordance with
is loose	because of not sounding buzzer	"Buzzer" in trouble shooing
	* Wrong dimension adjustment of	* Adjustment in accordance with
	bale density detection link	5-2-6
		* Application of bale density
		detection link

If you do not see the cause of a trouble or how to repair it, notify the following items to the supplier of the machine.

- 1. The name of machine
- 2. Model
- 3. Serial number
- 4. Details of trouble(explain fully)