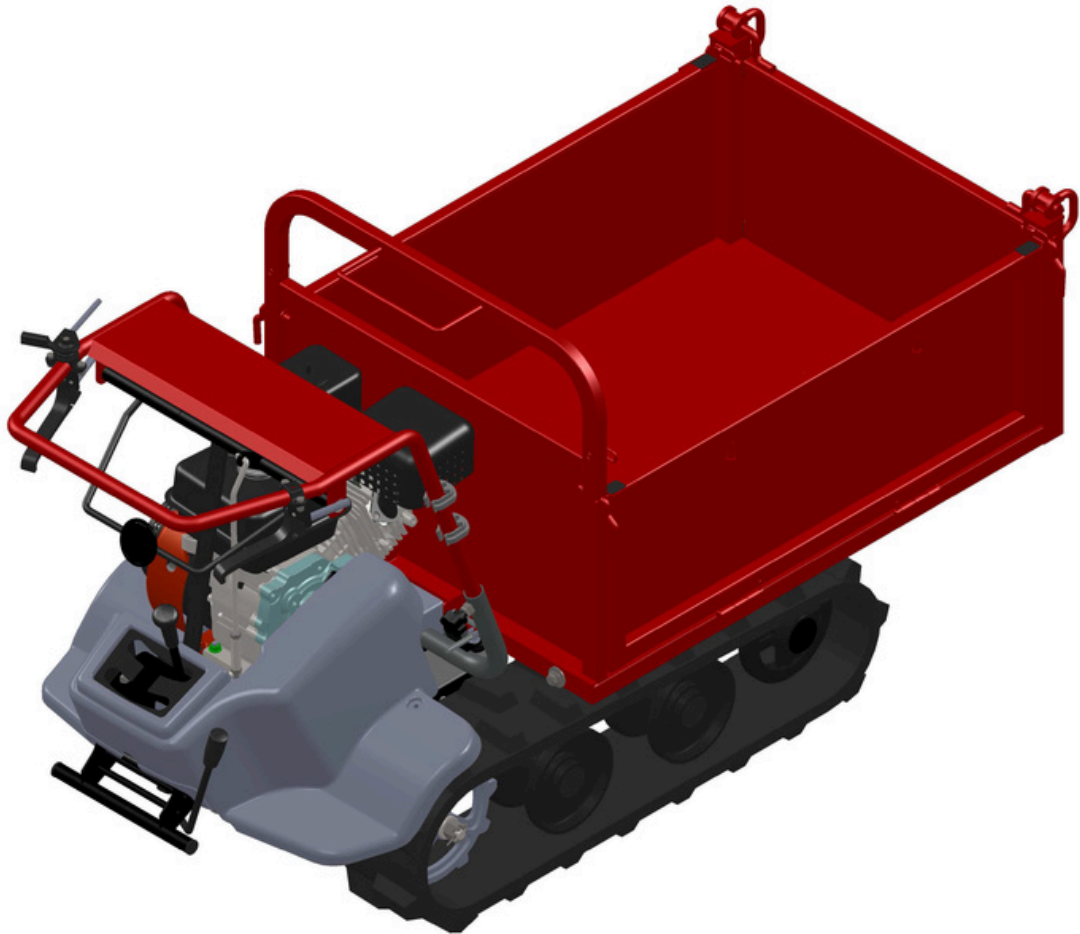


7B-320A /7B-320B Mini dumper



Operation Instructions



Warnings

Forbid to operate, maintain and check the machine before read and mater the instructions

Please safe-keep the instructions in order to operate, maintain and check the machine in time

About the instructions

Thanks for purchase from us.

In order that you can operate our machine more safe,the instructions contains method for operating ,maintain and checking.

Correctly operating method is on basis of reading and grasping.



Warnings

Forbid to operate, maintain and check the machine before read and mater the instructions

Please safe-keep the instructions in order to operate, maintain and check the machine in time

About the machine



Warnings

This machine exists potential dangers, you should operate maintain and check based on the instructions.

This machine is for fields convey, not for other ways.

Forbid to operate on such roads, national highways. If any accidents in such road ,our factory will not burden any responsibility.

Fobid to change the machine, in order to avoid any accidents, forbid to take off the proof cover.

About the warnings items in this instructions

The instructions define warnings to below parts based on danger level(or accidents level)

Please get understood for below warning items, and then operate the machine.

item	meaning
<i>dangers</i>	Very dangerous warning, without notice, may cause fatal accidents
<i>warnings</i>	potential dangerous warning, without notice, may cause fatal accidents
<i>cautions</i>	potential dangerous warning, without notice, may cause accidents or injury. Even will harm the machine.
<i>suggestions</i>	Attract one attention, or feedback your advice

about the operating purpose for the machine

The machine is for short-way convey. Forbid to use for other purpose or any changes

Or, can not get any guarantees.

Attached tools

No.	name	q'ty	notes
1	operating instructions for main set	1	
2	operating instructions for engine	1	
3	Wrench only for spark plug	1	
4	Dual-purpose screwdriver	1	
5	Open spanner 8-10	1	
6	Open spanner 12-14	1	
7	Open spanner 13-15	1	
8	Funnel	1	
9	Funnel gas pipe	1	

CONTENTS

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1. Safety affairs



Safety driving, safety operating

General safety precautions must comply with this record of driving, operation. Driving operation must be in accordance with the provisions of the articles of association of security matters, always remember to safe driving, safety operation.

1.1 Before driving instructions



The right to wear safety clothing, and wear the safety guard

Do not wear the leisure clothes like vests, shorts and sandals when operating.



Check before operation

Check carefully before start,any fault,need remove timely.



Fire forbidden

Fire away from fuel.

Futuremore,add the fuel after engine off.



Sitting forbidden

Sitting forbidden, also forbid sitting while driving.



Against drunk driving

Forbid anyone driving who is drunk or not in state. then forbid the one who is not suitable to drive and operate.

1.2 when driving instructions



Forbid to drive where in poor ventilation

Start and drive the engine, in good ventilation places, to avoid get poisoned by output gas.



Cautions on bevelled road, slow down at downhill

When at downhill, turn the sub-transmission bottom to low place, slow down to avoid any accidents via skidding or rollover. **Observe the safety speed**

Operating while confirm that it's safe all around, cautions for road conditions, to control the safety driving

Forbid the sudden starting, sudden accelerating, sudden sharp turning, sudden parking

Forbid sudden starting, sudden accelerating, sudden sharp turning, sudden parking, will cause driver to be hurt or let the machine to be skid, or roller over

Forbid the machine crossing the road or turning on bevelled level

No crossing at bevelled road, to avoid any skidding or rolling over, then also forbid turning around when bevelled level to avoid any reverse, skidding, and roller over.

Driving in danger, please obey the indicator

When in condition of blurring view, narrow, bevel or up and down roads, please obey indicator and prepare to restart once confirm it's safe.

1.3 loading cautions

forbid over loading

Forbid to load over the max capacity for this machine

correct to load the goods

In order to avoid placing uneven, let the machine roll over, please place them even and fasten with rope, moreover, should avoid the height to ensure the sight view

cautions for quantity restrictions

When crossing the wood bridge, please make sure the total quantity of machine, goods and operator lower than max bearing quantity. And cross within limited speed.

cautions for loading capacity at the bevelled level

At the degree 15-20 bevelled level, loading capacity should control within 150KG. when at 20-25, should bear nothing to drive. Forbid to drive while the level over 25 degrees. Forbid to shift while overloading or at bevelled level

forbid to operate the bucket while at bevelled level

Forbid to operate the bucket while at bevelled level, which will let the machine roll over. Lay the machine at the horizontal position if must take the step.

1.4 parking instructions

Forbid to park in danger area

Park at the stable roads, forbidden in danger area

Fasten the wheels when parking at bevelled level

Forbid to park in bevelled level, fasten the wheels if must

1.5 Checking instructions

Stop the engine while check and setup

Stop the engine while checking

Cautions for scald

Every parts and lubricating oil are in high temperature while stop the engine, easily can get scald. please maintain the machine while cool down.

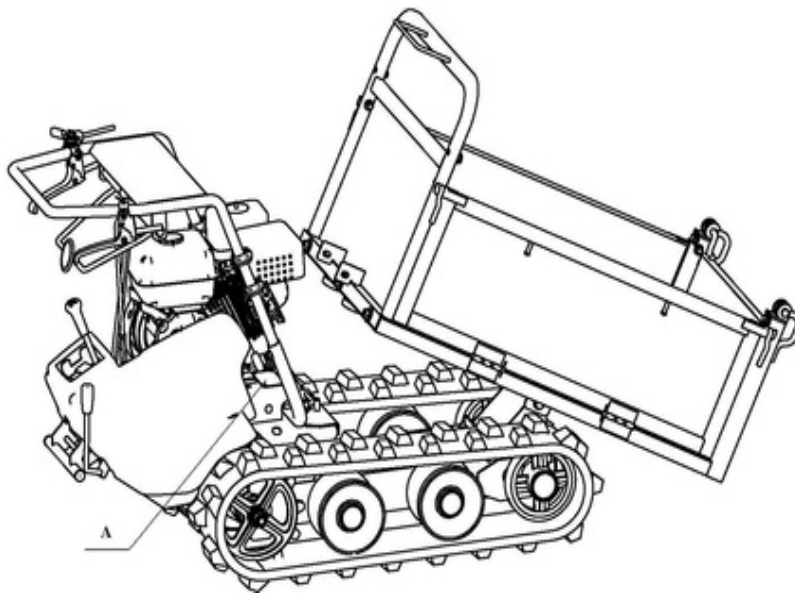
Fire forbidden

Fire forbidden while maintain the machine

2.About the nameplate information

Please check the information of invoice, manufacturing No. on nameplate and engine brand and model No. Engine name and model No, please refer the instructions.

nameplate position



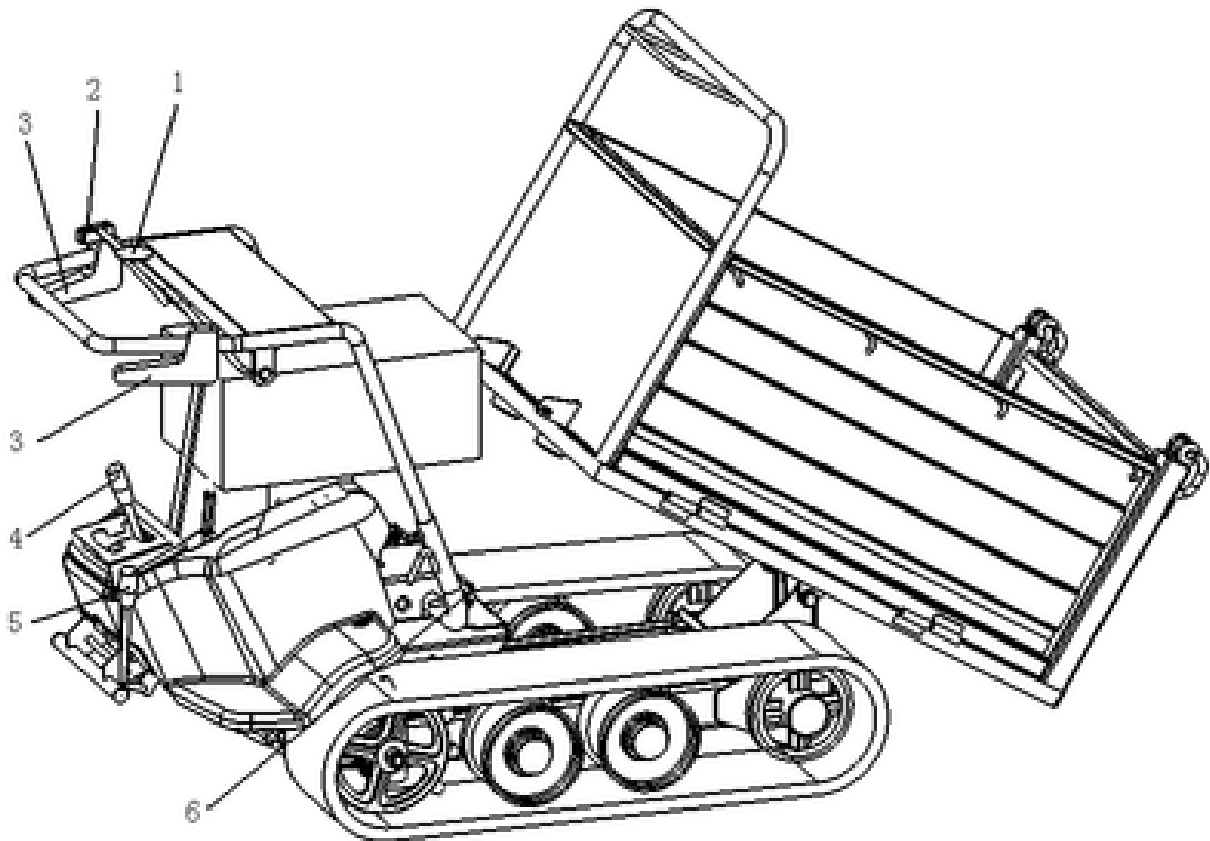
product nameplate



About the supplying period for spare parts

The spare parts for the machine will not supply until the machine stop making for 7 years.

3. Every spare part name and function



1 walking clutch lever.....control the machine to operate and stop

2 accelerating lever.....to control the rotary speed for the engine

3 turning clutch lever.....to control the machine for turning

4 gear lever.....to control the speed while forward or reverse

5 sub-gear leverto control the speed while walking

6 the fixed rod for bucket.....Fix the bucket, take out the rod when dumping, lift the bucket. Therefore, which can prevent the bucket fall down while working.

4. Driving and operating

4.1 Before driving preparations

4.1.1 Check before working

Checking before driving the machine, about checking tips (checking list)

4.1.2 Fuel checking and supplying

Warnings

fuel-adding should be away from fire

fuel-adding, should operate while the engine stops

Fuel-adding, should not pour out the oil level, cautions for oil leak. clean which pours out.

1. open the tank cap, check the oil level, please add if not enough
2. adding after open the cap
3. Put back the cap

suggestions

using fuel: Unleaded gasoline for automobile

oil capacity: 3.6L

4.2 Ignition method(refer to instructions)

1. make sure the clutch in stop position

cautions

At winter or dry and cold environment, please warm up before driving, will reduce the service for the machine

- 1.

warnings

Start the engine at ventilation area to avoid get poisoned

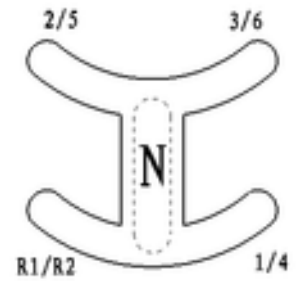
start the engine after confirm safety background

Make sure the clutch at the stop position before start the engine to avoid machine running to cause any accidents

- 1.
2. make sure the gearshift at neutral position
3. turn the fuel tap to the ON position
4. turn the throttle valve to the OFF position

Suggestions: no need this step when the engine is hot

1. turn the accelerating lever to the high position a little
2. turn the main switch to the ON position
3. pull the cable, start the engine
4. turn the accelerating lever to the lower position after running the engine
5. turn the throttle valve to the starting position
6. 1-2 minutes working without any burden to warm up the machine



suggestions

After you have the machine, the first week (about 40-50H) just for running, avoid any overloading

4.3 driving method

Warnings

do not close to the people around while driving
make sure the safety affairs around, roads/slopes level before driving t
in order to keep the speed.

Forbid sudden forward, sudden accelerating, sudden sharp turning, to
skidding, turning over.

at the beveled level, please turn the sub-gear lever to the LOW position
speed to forward, or it will make driver injured, or make the machine sk
over

Forbid to cross the road, will cause skidding or turning over

Forbid to turnaround at the beveled level, will easily cause machine re
skidding, or turning over

When in condition of blurring view, narrow, bevel or up and down roads
obey indicator and prepare to restart once confirm it's safe.

1. Make sure the safety affairs around the machine
2. Make sure the clutch at the stop position
3. Turn the gear lever and sub-gear lever to the neutral position

suggestions

About the walking speed for each gear lever, please refer the technical data

Turn the clutch forward to walking side slightly if gear lever can not move, then you can turn it again

1. Turn the accelerating lever forward to HIGH position, can speed up the output rotary speed.
2. turn the clutch to start position to start the machine
3. Turning left, operate the left clutch handle

4. Turning right, operate the right clutch handle

4.4 speed changing method

1. Confirm the machine in stop state, and can not change speed while overloading or at the bevelled level

Warnings

When changing the speed, should stop the machine
Changing the speed with right way, if not, will easily lead to stall
off.

- 1.
2. Make sure the gear lever and sub-gear lever at its proper position

suggestions

About walking position corresponding to different speed position, please refer the technical data

Turn the clutch forward to walking side slightly if gear lever can not move, then you can turn it again

4.5 parking method

1. Turn the accelerating lever forward LOW side, to slow down the machine

Warnings

Forbid sudden parking, will easily cause machine turn over
Stop the machine in flat area without any potential dangers
Forbid to park in beveled level, if necessary, should
fasten the wheels

- 1.
2. Turn the clutch lever forward PARKING position, to stop the machine
3. Turn the gear lever to N position
4. Turn the main swift to OFF position to stop the engine
5. Turn the fuel swift to OFF position

suggestions:

When the engine working under low speed, the spark plug can easily get carbon residue .Should remove them with high speed after long time in lower.

5. Maintain and repair

cautions

Not in time maintenance is the main cause for accident. In order keep good state, please check and maintain the machine in time

supply or change list

<i>item</i>	<i>period for supplying and changing</i>	<i>recommended products</i>	<i>capacity</i>
fuel	anytime	93 unleaded gasoline for automobile	3.6L
oil for engine	first time:20 H after :every 100 H	SAE10W-30	0.6L
oil for gear box	first time:50H after :every 500H	GL-4	1.5L

5.1 checking list

		TIEM	Aeriod		
			Work	Month	Year
walking apparatus	Belt	Any obvious flawless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Whether the degree of relaxation and tension appropriate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		tension nut is deformation, corrosion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	gear box	When walking, if there is a gear mechanism, noise, different heat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Gearbox spill the oil or not		<input type="radio"/>	<input type="radio"/>
	V type belt	V belt is worn or not		<input type="radio"/>	<input type="radio"/>
		The length of the belt is in the reference value		<input type="radio"/>	<input type="radio"/>
	traction clutch	Low idle state, whether there is abnormal sound		<input type="radio"/>	<input type="radio"/>
		After the clutch, no slip, can be carried out smoothly		<input type="radio"/>	<input type="radio"/>
	Brake	The brake apparatus is in normal state	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		When packing ,if it's can keep stopped in 25 degree bevelled		<input type="radio"/>	<input type="radio"/>

	<u>Steering clutch</u>	Make sure no abnormal noise when using	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		The operating rod free degree is in the proper position	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Check the Pull if any damage and connection is strong, pull thread each part whether there is rust		<input type="radio"/>	<input type="radio"/>
	The crawler driving wheel, tension pulley	If any deformation or abrasion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The shaft body state is normal or not		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mounting bolt, nut is loose, fall off or not		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Shaft surrounding leaks or not			<input type="radio"/>	<input type="radio"/>	
connecting rod	Any deformation or abrasion		<input type="radio"/>	<input type="radio"/>	
	connecting parts loosen or not,cotter pin is defective or not		<input type="radio"/>	<input type="radio"/>	
main frame、body and label	main frame and body	If any crackle or deformation		<input type="radio"/>	<input type="radio"/>
		Mounting bolt, nut is loose, fall off or not		<input type="radio"/>	<input type="radio"/>
	Packing area	Rolling system is active or not		<input type="radio"/>	<input type="radio"/>
		Any adnormal for gate system		<input type="radio"/>	<input type="radio"/>
		Indicating labels if any dirt and damage		<input type="radio"/>	<input type="radio"/>

5.2 Walking apparatus

Warnings

Stop the engine once maintain or repair

Each part in engine in high temperture after stop the engine,invoid any scald,please maintian after the engine exactly cool down.

5.3 Track check & adjustment

Warnings

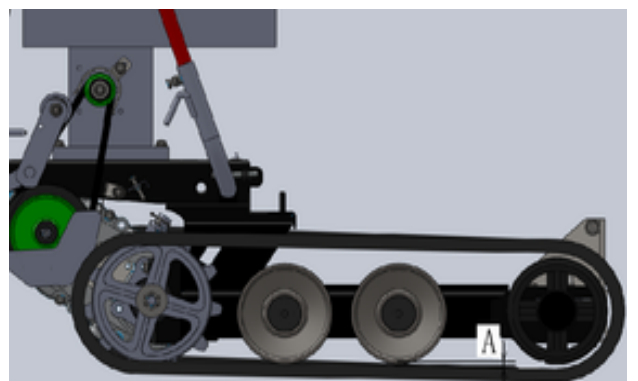
Fixed the jack when adjusting to avoid falling down

Cautions

Must use the belt in the appropriate tension range, to avoid shedding, shorten life etc.

5.3.1 checking

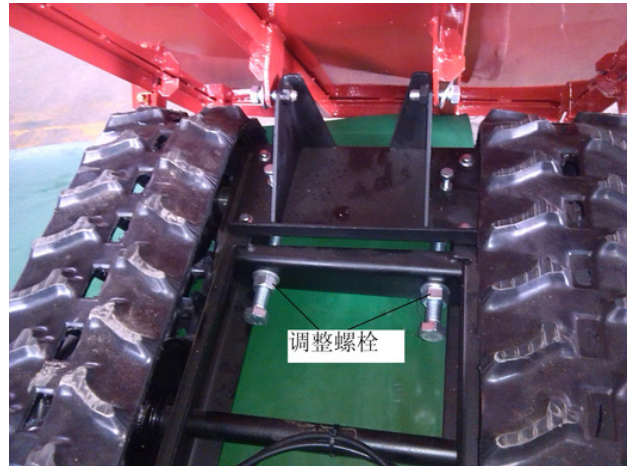
1.



1. Lift the machine to keep the same level with ground
2. Confirm there's 20mm clearance between track and bearing wheels, please adjust if any inappropriate.
3. Lay down the machine

5.3.2 Adjustment

1.



1. Lift the machine to the same level with ground
2. Loosen the nuts
3. Adjust the bolts to confirm the there's 20mm clearance between track and bearing wheels



- 1.
2. Tighten the nuts
3. Lay down the machine

5.4 Checking and adjust for V belt

cautions

V type belt slip, please adjust the belt tensioner pulley tensi otherwise it will shorten the service life

5.4.1 Checking

1. Take out the plastic cover
2. Check the V belt, please contact the sales if any damage
3. Put on the plastic cover

5.4.2 Adjustment

[1]

1. Turn the clutch forward the PARK position
2. Loosen the nuts
3. V type belt slippage, the clutch lever to adjust the running position, [] the position of the adjusting screw nut spring elongation range in 3-4 mm

[2]

1.The belt is not separated completely, tensioning position please V belt adjustment. Removed bolt belt wheel cover, belt tensioner [] in the parking position does not contact the V belt, do not rotate in [walk] and position. Then tighten the bolts

2.Tighten the nut

5.5 Checking and adjusting for brake apparatus

5.5.1 Checking

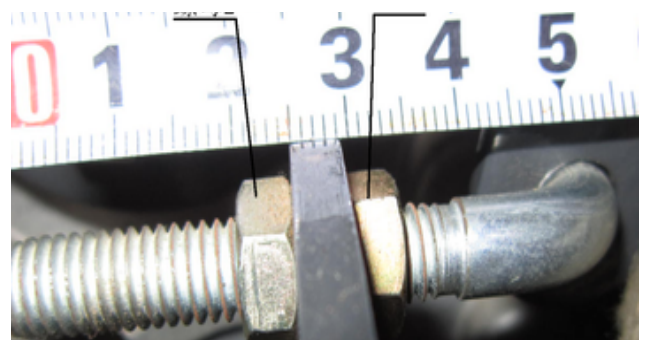
Warnings

Do running adjustment if any problem for brake apparatus

1.



1. Take off the plastic cover
2. Put the walking clutch rod to Stop the machine position
3. Make sure the spring length A is between 185-190mm, adjust if there is any inappropriate.
4. Put on the plastic cover



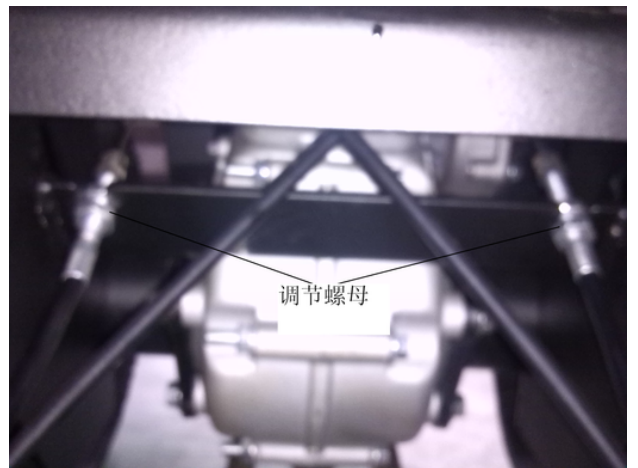
5.5.2 Adjustment

1. Take off plastic cover
2. Loosen the nut
3. Put clutch rod to Stop the machine position
4. Adjust nut 1 to make sure the spring length A is between 185-190mm.
5. Tighten the nut 1
6. Loosen the nut 2
7. Put walking clutch rod to Walking position, and adjust adjusting nut 2 to cancel brake condition
8. Tighten nut 2
9. Put on plastic cover

5.6 Turning clutch adjustment

1. Take the cargo container, and fix it with the supporting frame.
2. Adjust the adjusting nut, and make turning clutch handle to have 1-5mm empty space.
3. Put off the cargo container.

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●



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6. Troubleshooting

6.1 Walking apparatus

Caution

When this machine has problem, please stop using it and do some proper treatment

1. Put walking clutch rod to Walking position, and it still can not start the machine.

1.1 Check and see if the transmission gear shifting is at its appropriate position.

1.2 V type belt is too loose, and adjust V type belt

1.3 Brake is dead, and adjust brake to its best position.

6.2 Brake apparatus is not good

2.1 Brake adjustment is not good, and adjust it to its best position

2.2 Brake apparatus has water, brake it many times to dry it.

2.3 Overload, reduce the load.

6.3 Track fall off

3.1 Check if the track is broken

3.2 Adjust track tension pulley

6.4 Turning apparatus is not good

4.1 Check if the handle bar is good

4.2 Check if the handle cable is broken

4.3 Check if the turning separation arm and cable connection are good.

7. Technical data

Name and model			7B-320A/7B-320B	
Weight			Kg	156
Rated loading capacity			Kg	320
Dimension	Length		mm	1620
	Width		mm	600
	Height		mm	830
	Track length on ground		mm	650
	Track distance from the center		mm	410
	Cargo container bottom plate height		mm	295
Cargo container	Inner dimension	Length	mm	850
		Width	mm	570
		Height	mm	290
	dumping method			manual
	dumping angle		degree	60
Engine name			WM168F/P	

Engine	Model		Single cylinder, OHV, four stroke, and forced air cooling	
	Total displacement		ml	196
	Rated power		KW/rpm	3.6/3600
	Engine weight		Kg	18
	Starting mode		Recoil start	
	Fuel			93 gasoline
	Lowest fuel consumption rate		g/kWh	395
	Fuel tank capacity		L	3.6
	Oil capacity		L	0.6
	Ignition system		Transistor magnet type ignition	
	Spark plug model		F7 (R) TC	
Walking speed	Forward 1		Km/h	0.5
	Forward 2		Km/h	0.8
	Forward 3		Km/h	1.3
	Forward 4		Km/h	1.8
	Forward 5		Km/h	3.0

Walking performance			
	Forward 6	Km/h	4.9
	Backward 1	Km/h	0.6
	Backward 2	Km/h	2.3
	Minimum turning radius	m	1.15
	Climbing ability	degree	25
Brake style			Hub brake
Lubrication oil name			GL-4
Transmission oil capacity		L	1.5

