

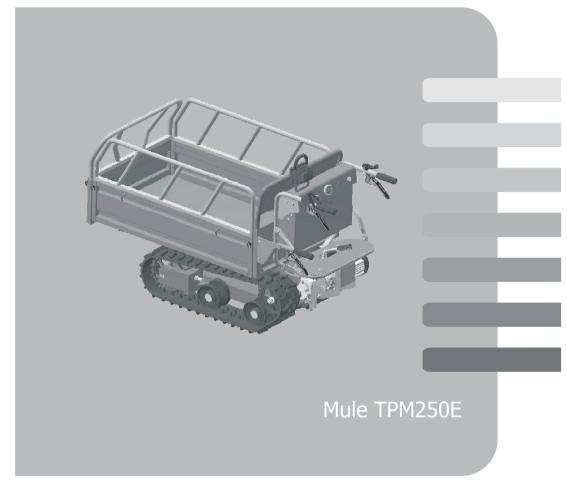
Mule TPM250E Electric Tracked Barrow



Operator's Manual

WARNING

- ▲Ensure you read and follow the instructions outlined in the manual to avoid potential danger/harm and to ensure proper operation and maintenance.
- ▲This product is designed to be used only for goods transportation other usage is not permitted.
- ▲ This product is not road legal and is forbidden for road use. The manufacturer shall not bear any responsibility for any accidents caused by unauthorised road use.
- ▲ Do not change/alter any parts of this machine. Always keep the cover on.
- ▲The manufacturer shall not bear any responsibility for any violation of the above terms which cause damage to the machine or harm/injury to any persons/animals/proprerty. Any violations of the above will also void any applicable warranty.



Thank you for buying our mini-transporter

- ♦ This operator manual covers operation and maintenance of the Mule TPM250E
- ♦ This operator manual is based on the latest technical information
- ♦ The manufacturer reserves the right to change the content of this operator manual without notice and bears no legal responsibility. This operator manual can not be copied without prior approval. This operator manual is part of product (including the Mule TPM250E), and should be transferred alongside the machine itself
- ♦ Sometimes the physical product is not exactly the same as in the operator manual. The detailed information contained is in accordance with the final product
- ♦ Executive standard: JB/T 10266-2013
- ♦ Engine certification serial number: X K06-002-00252

Safety Information

Please ensure you read this manual carefully before using your machine. This manual provides important information on the machine.

The safety information in this manual is designed to warn you of potential danger.

These will be marked with an exclamation mark and: DANGER, WARNING, ATTENTION

♦ Pay attention to the description of these warning signs.

! DANGER Will cause human injury or death if the manual is not followed.

! WARNING Will cause machine damage or human injury if the manual is not followed.

! ATTENTION Will cause machine damage or human injury if the manual is not followed.

Damage Protection

You will find other important information marked with ATTENTION

(ATTENTION:) Will cause machine damage or human injury if the manual is not followed.

Safety Protection



Following the manual to operate your machine as designed will allow you to do so as safely and reliably as possible. Read the manual carefully to avoid injury and/or damage to the machine.

Safety Checks

- Check all parts are present and ready before starting the machine
- Check all wiring for short circuits
- Ensure all oil/lubricants are to the correct level
- Turn the switch to minimum position before start running, when holding the clutch, turn the switch slowly to ideal position
- Do not allow people to stand in the operating area when the machine is running
- Release the clutch first before shifting. After the motor fully stopped,

the shift can be started

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 $[\]Diamond$ The photos included may vary from your physical machine as improvements are continually being made

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1. Safety Warning

♦1.Training

- 1) Read the manual carefully before use to ensure you know how to start and stop the machine
- 2) Children are not allowed to operate this machine
- 3) Keep the working area clear

◆2. Preparation

- 1) Clear the working area and remove any potential obstacles
- 2) Checking all circuitry and wiring
- 3) Slowly release the clutch and keep the speed switch set to the minimum position
- 4) Ensure you are wearing suitable clothing before using the machine do not wear loose clothing or jewelery
- 5) Do not change or alter any parts of the machine
- 6) Do not consume alcohol or drugs before use

◆3. Operation

- 1) Please keep track clear.
- 2) Adjust the speed switch slowly when machine starts to run.
- 3) Do not carry anyone on board.
- 4) Please keep clear of any obstacles.
- 5) If machine satrts to vibrate when running this should be stopped immediately.
- 6) Release the clutch before changing gear.
- 7) Relase the clutch, then adjust the speed to slowest posistion, then shut down engine and maker sure key is turned off.
- 8) Make sure the machine is securely turned off before carrying out any repair work or cleaning.
- 9) Do not use water to clean any innner parts of machine.

- 10) Please keep children away when using machine.
- 11) Do not over load the machine.
- 12) Stay at the slowest speed when on a slope.
- 13) Do not use the machine on any slippery surface, be careful of surroundings when machine is in reverse mode.
- 14) Do not turn on sloped ground.
- 15) Do not stop, accelerate, turn, or start the machine urgently.
- 16) Make sure there is no one around when using machine.
- 17) Ensure all instructions are followed when in use on uneven terrain or poor weather conditions
- 18) When loading, make sure to strap down down securely and is not blocking your vision.
- 19) The loading weight should be under 220KG when ground inclination is less than 15 degrees. The machine should be empty when ground inclination is more than 20 degrees. Do not turn or change gear when machine is on a slope ground.
- 20) Do not attempt to lift the material from machine when on a slope ground.
- 21) Do not stop the machine on a slope ground.

◆4.Storage and maintenance

- 1) Store the machine away securely and in a safe location.
- 2) Check the bolt torque settings before every use.
- 3) If the machine will be stored for a long period of time, keep the manual in safe place.
- 4) When assembling the machine, make sure to use the correct tools.

◆5. Safety Warning Sign













- 1. All of the warning signs/labels should be clear and easy for the user to see
- 2. If any warning signs/labels are missing or unclear, please contact the manufacturer to get a new one and replace them as per the below location.

◆6. Safety Warning Decal Location Indication

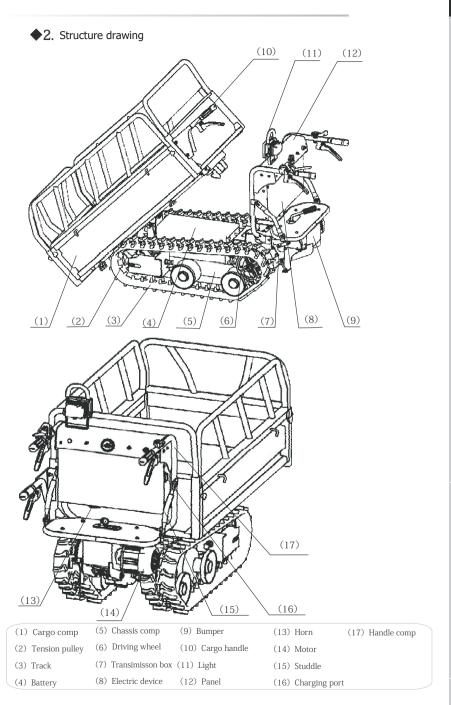


2. Main Parameter and Structure Drawing

◆1. Main parameter

		ITEM		Model
1	Ма	Machine model		Mule TPM250E
2	(Controller /		WM-KD26-001
		Model		Brushless DC motor
		Rated power	kW	0.8
	Motor	Max power	kW	2.4
3		Voltage	V	60
		Rated RPM	r/min	3200
4	Machi	Machine dimensions		1745* 770* 930
5	Packa	ging dimensions	mm	1110* 630* 490
6	Mach	ine weight	Kg	220
7	Transmission type			Motor-transmission case-track
8	Rated loading weight		Kg	220
9	Max loading weight		Kg	450
	10 Track	Model	mm	160 60 37
10		Central distance	mm	410
		Length	mm	640
11	Dista	nce to the ground	mm	130
12	Maximum working slope		degree	20
13	Chifting	Transmission box	/	High&low speed
	Shifting	motor	/	Forward & reverse
14	Brake		/	Arrester
15	Battery		/	lead-acid cell
16	Battery capacity		Ah	20
17	Charging type		/	external charging port(220V/500W)

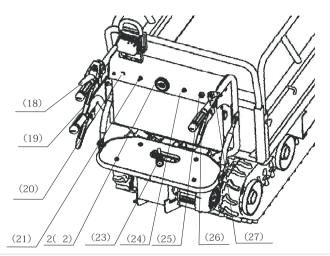
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^{*} The parameter may not accordance with the real product.



◆3. Controlling parts drawing



(18) Clutch handle

(22) LED batery indicator

(26) Right turning handle

(27) Speed switch.

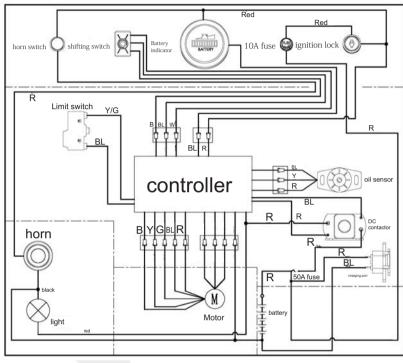
(19) Left turning handle(20) Horn switch

(23) speed shifting rod(24) 10 fuse

(21) Shifting switch

(25) Ignition lock

◆4. circuit diagram



WIRE COLOR

BL= Black R= Red B= Blue W= White Y= Yellow G= Green

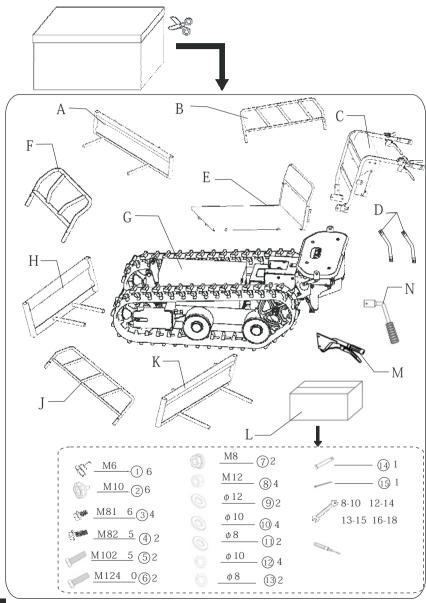
3. Range of application

This machine is suitable for mountains, and sloped land, for short distance transportation

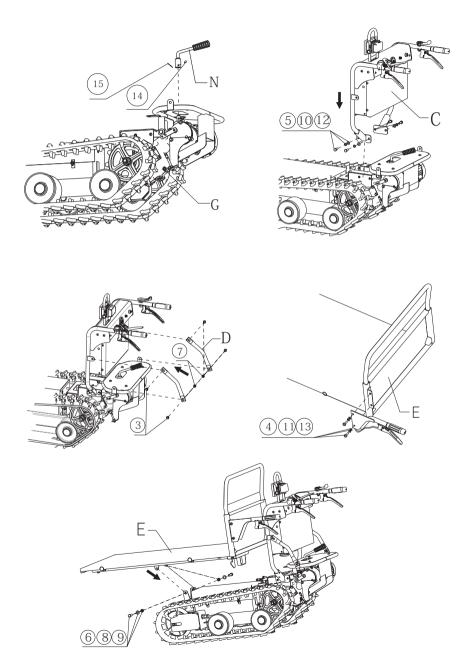
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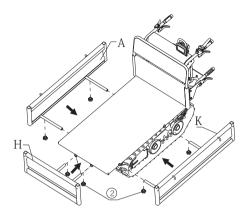
4. Assembling instruction

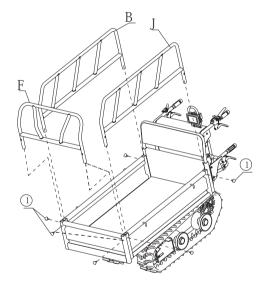
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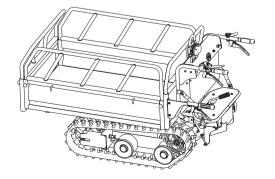


◆2. Assemble





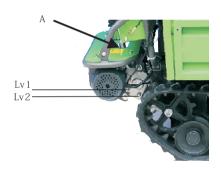




5. Operating instruction

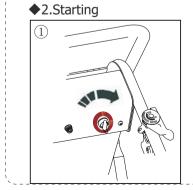
◆1. Checking and fueling

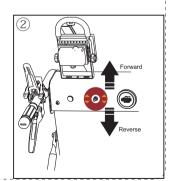
- 1.1 Make sure that all bolts are tightened securely. Also check that the electric wires are all intact and working correctly.
- 1.2 Make sure the brakes, turning handle, clutch handle, and the operation switch are all fully functional and working..
- 1.3 Check the gear lever, and keep this at low speed level.
- 1.4 Pour the engine oil via hole A for 2L, make sure the oil level is between Lv1 and Lv2. Please use 15W40 grade oil.

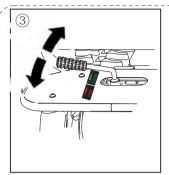


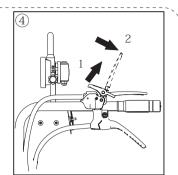


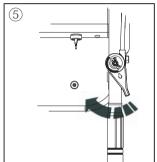
Check the oil level by unscrewing the drain bolt









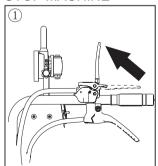


! ATTENTION

Please make sure around you is clear when starting the machine, high speed for reversing is absolutely not allowed

◆3.Operation

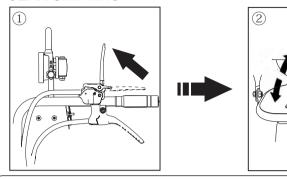
STOP MACHINE







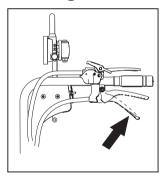
GEAR SHIFTING



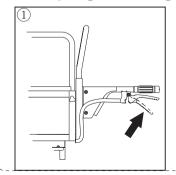


Gear changing is not allowed when the machine is running

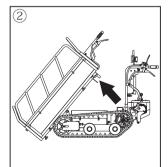
Turning



Dumping the cargo







6 Maintenance

◆1.Regular check

	-	Item		Period		
				Monthly	Yearly	
Walking device	Track	Any visual defect	0	0	0	
		Losseness is suitable	0	0	0	
		Any bolt is out of shaped	0	С	0	
	Tra ns mission box	Any gear dropping, strange noise, heat	0	O	Ō	
		Any oil leak		0	0	
	Electric	Any strange noise or heat from motor		0	0	
g d	device	Any wire broken		0	0	
ng	Brake	Any brake broken	0	0	0	
lki	Drake	Can the machine be stopped on 25° slope		0	0	
Va	T	No strange noise while running	0	0	0	
>	Turning clutch	Shifting rod is smoothly moved	0	0	0	
	Clutch	Any wire is unfasten or broken		0	0	
	Driving	Any visual defect	0	0	0	
	wheel and tensioning wheel	Any bolt is broken or loose	0	0	0	
		Shaft is not out of shaped	0	С	С	
		Any oil leak on shaft		С	0	
le	Chassis	Any crack or out of shaped		0	0	
lab	CHassis	Any bolt loosen or broken		0	0	
g0,	Cargo	Cargo dumping smoothly		0	0	
Čhásis, car go, lable		The door of cargo can be open and closed		0	0	
		Any crack or out of shaped		0	0	
		Any bolt loosen or broken		0	0	
	Lable	Any decal missing or damaged	0	0	0	

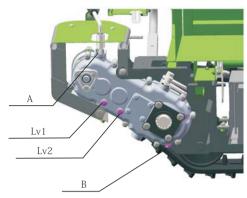
! WARNING

- ♦ Stop the machine and take out the key before any maintenance is carried out.
- ◆ The gear box and electric device should be repaired by an authorised dealer unless the user has proper equipment to do so.

! ATTENTION

Always use the original spare parts from the manufacturer

◆2. Replace the oil



Replace the oil whilst the gear box still has some heat, so that the old oil will be released smoothly.

- 1. Loosen the plug A and drain bolt B, and release the oil.
- 2. Put the drain bolt B, and tighten it.
- 3. Pour the recommend oil, loosen the drain bolt and check the oil level, make sure it is between Lv1 and Lv2.
- 4. Put the plug A(the capacity is 2L)

Trouble shooting

Problem	Cause	Trouble shooting
	Battery is low	Charging
	Motor is broken	Change the motor
	Fuse is broken	Changing the fuse
Can not	DV contactor is broken	Changing the DV contactor
walk	The shifting rod is not in its position	Move the shifting rod
	The brake is locking	Adjust the brake
	The limit switch is not on	Adjust the clutch cable
	The oil sensor is not back to position	Adjust the throttle cable
	Clutch cable is not well adjusted	Adjust the clutch cable
Brake	Water get in	Try brake repeatedly and make it dry
	Overloading	Reduce the loading
Track	Track broken	Change the belt
Hack	Track tension is not enough	Adjust the tensioning, wheel
	Turning handle is broken	Change the turning handle
Turning	Turning cable is broken	Change the turning cable
1 41 111118	Turning arm disconnect with the cable	Connect with the cable
	Walking speed is high	Lowing down the speed

8. Transfer and Storage

◆1. Transfer



- 1.Put the machine on flat surface and fasten the driving wheel. 2. Drive the track slowly.
- 3. Stop the machine according to the instructions, and use the rope to fasten the machine.

◆2.Storage



After you have finished using, the machine, this then should be stored in a good condition, to avoid rusting and aging.

Before storing the machine away, the machine has to be cleaned, and make sure to fasten all the parts. And regualar maintenace checks as per operator manual..

- 1. Clean the machine before storing away.
- 2. Release the oil in the gearbox.
- 3. Disassemble the wire, and wrap it with tape.
- 4. Use vaseline to smear the contact point of electric device
- 5. Recommend to use cover over machine when stored.

6

! WARNING

Do not use water to clean the panel or electric elements of the machine to avoid damaging the electrical elements of the machine.

9. Wearing Parts

	Code	Name
1	GB/T3452.1-2005	O Ring 65X2.65
2	GB/T3452.1-2005	O Ring 10.6X1.8
3	GB/T9877-2008	Oil Seal B15267
4	GB/T9877-2008	Oil Seal B25477
5	GB/T9877-2008	Oil Seal B30527
6	JB/T982-77	Gasket 10
7	JB/T982-77	Gasket 8
8	11.159.030.0001	Brake Board
9	11.120.074.2000	Oil Seal 305518
10	11.120.025.5000	Oil Seal FB17337
11	11.108.999.5000	Washer
12	11.101.005.0050	Clutch Handle
13	11.101.005.0101	Turning Clutch Handle
14	11.159.088.0110	Horn
15	11.159.087.1010	Light
16	11.159.089.0310	Board
17	11.159.087.0610	Bumper

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