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DEAR CUSTOMER!

«Mechanica» company expresses its' gratitude for choosing our TINGER-DOG towing vehicle. TINGER-DOG towing vehicle is defined by high off-road characteristics, compact and convenient construction, exploitation serviceability, reliable and tested engine. The present exploitation manual (manual further) familiarizes You with construction and exploitation features of Your towing vehicle. Complying with the exploitation requirements helps You to exploit the given vehicle long and with pleasure.

All information contained in the Manual corresponds to the state of products at the date of approving the document for printing. The manufacturer reserves the right to modify the design without a prior notice or any obligations on its part. If a difference is found between this manual and your towing vehicle, please contact your TINGER representative for the relevant information.

Assigned lifetime of the towing vehicle, provided that al the exploitation and technical service requirements were followed, specified in the Manual is 5 years.

2. SAFETY INFORMATION

Present manual includes the important information about safety rules and towing vehicle's exploitation. Selling the towing vehicle give the exploitation manual to next owner, because it has the important information that every user has to know.

Please, get familiar with the given Manual in advance, before begin exploit the towing vehicle.

! WARNING

Not complying the WARNINGS, including in this manual might cause to serious injure or towing vehicle damage.

- Forbidden to drive the towing vehicle not familiarizing with the given Manual.
- Forbidden to drive the towing vehicle by children up to 16 years old and persons that are not able to drive safely.

- Persons are under the alcohol and drug effects are prohibited to drive the towing vehicle.
- Forbidden to use the towing vehicle without protection equipment and devices on it.
- Forbidden to exploit the technical failed towing vehicle.
- Forbidden any kind of exploitation of the towing vehicle on public roads.
- Forbidden to exploit the towing vehicle in closed premises.
- Stay caution about the spinning sprockets of the shaft, CVT pulley and chain.
- Stop the towing vehicle at the safe range from people and animals.
- Make sure the fasteners on sprockets and shafts are tightened in advance, before exploitation beginning.
- Do not start the engine with the folded handlebar.
- Do not fold the handlebar while the engine works.
- Make sure the acceleration lever has free motion and not locked in advance before start the engine.
- Check the handbrake serviceability.
- In case of any towing vehicle steering control serviceability failure, You should stop, detect and solve the failure.
- Driving the towing vehicle, use gloves.
- Use an earphones for decreasing the effect of the harmful loudness coming from the towing vehicle.

3. TOWING VEHICLE PURPOSE

Towing vehicle is auxiliary technical means of small mechanization, steering by walking nearby operator, and designed for cargo towing in catcher-sled or wheeled trailer.

To exploit the towing vehicle at warm seasons, demount the plastic cover and take actions to avoid engine overheating.

The towing vehicle is not designed to be exploited on all roads, sand grounds, in water.

4. TOWING VEHICLE TECHNICAL CHARACTERISTICS

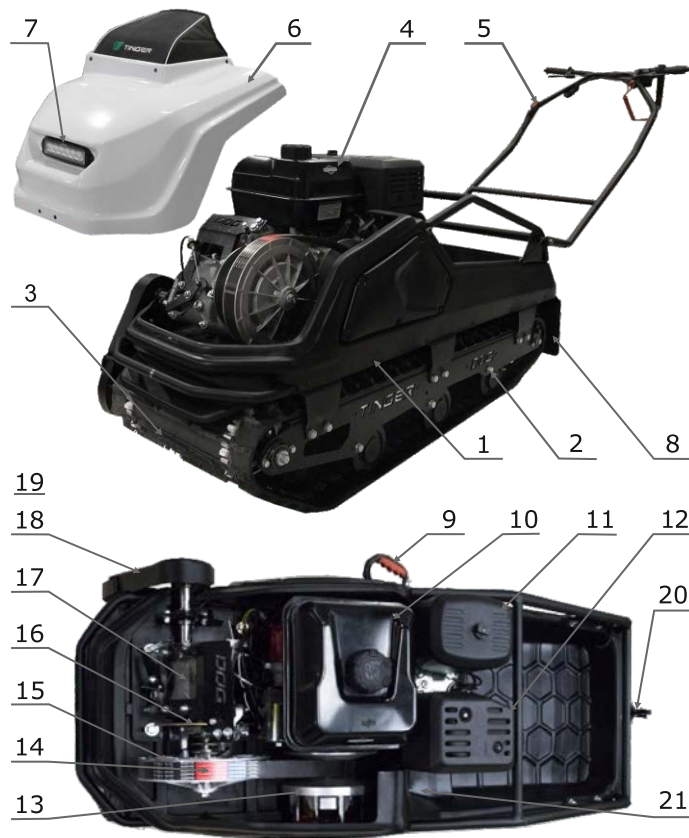
Parameter	Design	Base model			Kit	
		Base equipment	STANDART equipment	PRO equipment	STANDART equipment	PRO equipment
Length with folded handlebar/ full length, mm		1470/2450		1520/2500		
Width, mm		600 (660)				
Height, mm		830				
Weight, kg		120	145	155	120/145/155	
Engine model		Lifan 190F	Lifan 190FD/ Briggs & Stratton XR2100	Briggs & Stratton XR2100	-	-
Engine volume, cm ³		420			-	-
Max power, h.p.		15	15/13.5	13.5	-	-
Max torsional moment, Nm		252	25/28.5	28.5	-	-
Fuel tank volume, liters		5.2	5.2/6.6	6.6	-	-
Fuel		Non-ethylene petrol with octane number not less 92			-	-
Start		Manual	Electrical starter/manual		*	*
CVT		V-belt, Safari				
CVT belt size, mm		33x14x1120				
Brake		Disc	Disc with fixator			
Reverse		No	No	Yes	No	yes
Drive unit		Front, chain drive				
Suspension		Spring-roller				
Track size (length x width, mm)		2828x500				
Transporting cargo weight on towing vehicle/sled, kg		50/200				
Hitch equipment (trailer coupling)		Yes				

5. TOWING VEHICLE DESCRIPTION

5.1 MAIN ELEMENTS

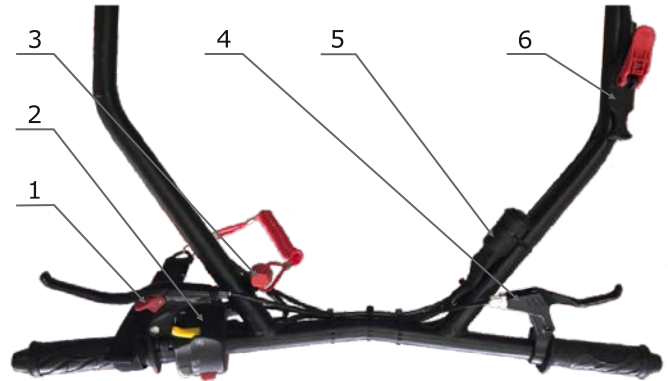
1. Frame with plastic housing
2. Roller-spring suspension
3. Track
4. Engine
5. Handlebar
6. Bonnet
7. Headlight
8. Mudguard
9. Manual starter handle
10. Fuel tank
11. Air filter
12. Exhaust pipe
13. Drive CVT
14. CVT belt
15. Driven CVT
16. Disk brake
17. Reverse-reducer*
18. Drive chain
19. Chain protection cover
20. Hitch equipment (trailer coupling)
21. Accumulator battery

* - contains in PRO equipment



5.2 CONTROL UNITS

1. **Brake lever** is placed at the handlebar on the left. Defined to block the towing vehicle during starting. Recommend to use only for smooth braking during movement.



! WARNING

Brake exploitation for emergency stop during movement is unsafe!

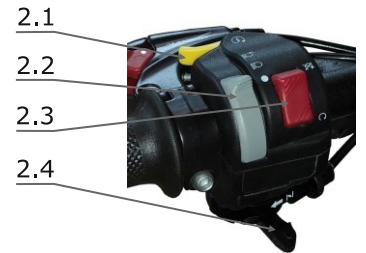
2. **Handlebar switch** is placed at the left part of the handlebar. Designed to control start and stop the engine operations, switch on and off the headlight and power socket.

2.1 **Electrical starter switch button.** Pressing the button, the electrical starter works and the engine can be started.

! WARNING

Do not hold the button over 10 seconds during start!

2.2 **Headlight switcher.** In first switcher position (from Yourself) - the headlight on. In the second switcher position (from Yourself) the headlight and power socket works. During the on-Yourself switcher position- the headlight and power socket are off. Use the headlight and power socket only during the engine works.



2.3 **Ignition switch.** During On Yourself position- the ignition is on and the engine might be started. During From Yourself position- the ignition is off and the engine is not able to be started.

2.4 **Choke lever.** Is designed to close and open the air choke during engine start.

3. **Emergency engine switcher** is placed on the left part of the handlebar. Switcher-off is consist of the button and safety pin. Towing vehicle operator must drive the vehicle with always on hand-worn or waist belt attached safety pin or button. If during the ride, the driver loses control and leave the towing vehicle, the safety pin flies away from the button and stop the engine.

4. **Acceleration lever** is placed on the right part of the handlebar. Designed to maintain required revs of the working engine and to regulate the towing vehicle movement speed. Clenching the lever, revs increase and the towing vehicle start moving. Releasing the lever, it returns to the original position, revs decrease and the towing vehicle slows down.

5. **12V power socket** is placed at the right part of the handlebar. Designed to connect electrical devices to the working 12V voltage, 40 wattage. Close the power socket by the protection cap if it is not using. Exploit the power socket only during the engine works.

6. **Reverse-reducer switcher*** is placed at the right part of the handlebar. It serves to shift gears and movement direction changing of the towing vehicle. When the switcher is in from-Yourself position- forward movement gear is shifted. When it is on-Yourself position- the reverse movement gear is shifted. If changing the switcher position, the movement direction has not changed, push the vehicle forward-backward not increasing revs.

! WARNING

Gear shifting occurs only while the towing vehicle fully stopped and on minimal engine revs.

* - contains in PRO equipment

5.3 TOWING VEHICLE IDENTIFICATION

5.3.1 TOWING VEHICLE FACTORY NUMBER

Factory number is stamped on the upper housing support's bracket by impact marking method.

5.3.2 ENGINE MARKING

The engine number is stamped at the front wall of the engine block by impact-dot marking method.

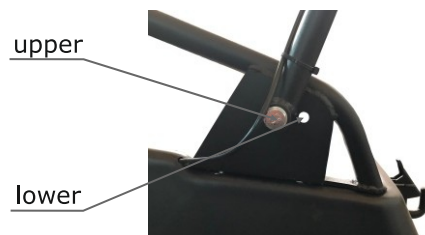
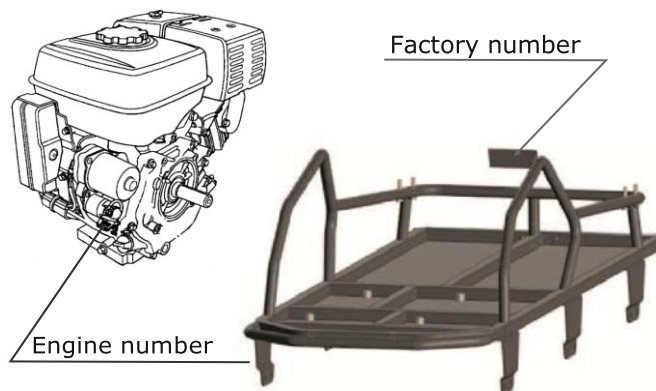
6. BEFORE EXPLOITATION BEGINNING

! WARNING

Get familiar with exploitation manual in advance before exploit. Make sure You fully understand how to drive and how to serve the towing vehicle.

6.1 PREPATION TO EXPLOITATION

1. Regulate the handlebar position. For more convenient exploitation there is possibility for height regulation in working position. To increase the height of the handlebar, set it into the first aperture. To decrease the height of the handlebar, set it into the second aperture.
2. Check towing vehicle unit elements' fastener reliability; tighten thread joints if required.



3. Check the wiring fastening on accumulation battery's terminals.
4. Check the drive chain tension and condition; do tension regulation and lubrication if required.
5. Check the track's tension; regulate the track's tension if needed.
6. Check the towing vehicle units' oil leakage presences.
7. Check the engine oil level.
8. Check the fuel level in the fuel tank.
9. Check fixation and serviceability of the brake, start the engine.
10. Check the headlight serviceability.
11. Check the emergency engine switcher-off serviceability.
12. Check the hitch equipment fastener.

6.2 REFUELING

Open the fuel tank cap. Make sure there is enough fuel in the tank. Refuel the fuel tank till limiting pate in tank neck.

! WARNING

Recommended fuel: non-ethylene petrol with 92-95 octane number. Do not fill the fuel tank over the maximum level. During heating, the fuel extends. If the fuel tank is over filled, the fuel is heated by engine might drain out from the tank. Do not let the fuel drain out, avoid to get the fuel on the engine or exhaust pipe. Make sure the fuel tank cap is tightly closed after refueling. If the towing vehicle will lean strongly or overturn, the fuel might drain out through the fuel tank cap.

Restrictive plate



7. TOWING VEHICLE STEERING

! WARNING

First 20 hours of the towing vehicle's exploitation, the engine and transmission are running-in. During that period, exploit the towing vehicle with minimal possible load.

7.1 PREPARATION FOR MOVEMENT

1. Attach the sled to the towing vehicle using hitch equipment.
2. Set the handlebar in working position.
3. Check the brake and acceleration cable and lever serviceability.
4. Fix the brake.
5. Check the oil level, pour in till maximum if required.
6. Check the fuel level, refuel if required.

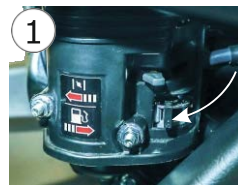
7.2 ENGINE START

1. Open the fuel valve
2. Close the air choke. Turn the lever leftward.
3. Tightly wear the cap of the emergency engine switcher safety pin on the button; wear the belt on the hand and attach to the waist belt.

4. Turn the ignition switch in "on" position .

5. Start the engine by electrical starter.

To start the engine press and hold the electrical starter button no more 10 seconds. Release the button after the engine starts.



! WARNING

If the engine does not start, release the starter button and pause for 30 seconds before repeat the attempt.

6. If the accumulation battery is discharged and start by the electrical starter is unable, then start by manual starter. Pull the starter handle out till first resistance. Not returning it to the place, sharply pull the handle and start the engine. Smoothly return the handle at the pace, letting the rope reels on.

! WARNING

Do not pull the handle during start. Do not pull the rope till stop. Do not sharply release the starter handle after starting. If start failed, pause for at least 30 seconds before start again.

7. After the engine has been started, let it work with closed choke for 30 seconds, then gradually open the choke till the end. Let the engine warm for no less than 2 minutes.

7.3 MOVEMENT

Acceleration lever is on the right side of the handlebar, it changes engine revs. Dependently of load, the towing vehicle begin to move approximately on $\frac{1}{4}$ acceleration lever way. Avoiding sharp engine revs increase, You should smoothly begin to move. For turning operation, turn the handlebar aside into opposite side. In case of moving on deep snow carpet, the turning operation might occur by leaning the towing vehicle toward turn side, it will increase the turning radius.



Do not walk on the sled during a ride, it might cause the sled overturning and getting injures.

7.4 STOP THE TOWING VEHICLE

1. Release the acceleration handle to stop the vehicle, the towing vehicle will slow down and stop.
2. In case if emergency stop is required, and acceleration handle releasing does not help, stop the engine by ignition switch off is required. To do that- turn the ignition switcher at the OFF position or pull out the safety pin located on your belt to switch the engine off.

! WARNING

It is unsafe to use emergency braking during the movement!

3. When the towing vehicle stopped, You can stop the engine. In case of over 10 minutes parking, fuel valve closing is required.
4. Turn the headlight off.
5. If the weather is rainy or snowy, and the environmental temperature is close to 0°C and lower, cover the towing vehicle by an awning for parking time. Non-fulfillment of previous actions might water and snow freeze on control levers and other vehicle's parts that will cause control impossibility. If the towing vehicle overcame water obstacles and wet snow, clean it from snow and ice, otherwise frozen water might block the levers and rollers of the suspension that will cause further movement impossibility.

7.5 SERVICING DURING MOVEMENT

Riding more than one hour, is required to stop and complete the following actions:

1. Check levers and carburetor condition. Clean it from ice if required.
2. Check and clean the suspension from the accumulated ice, snow, dirt if required.
3. Check the chain's condition. Lubricate it if required.
4. Do visual check of the fastener condition, giving special attention to the trailer coupling fastener, hitching of the sled to the trailer coupling, fastening of the handlebar to the frame.

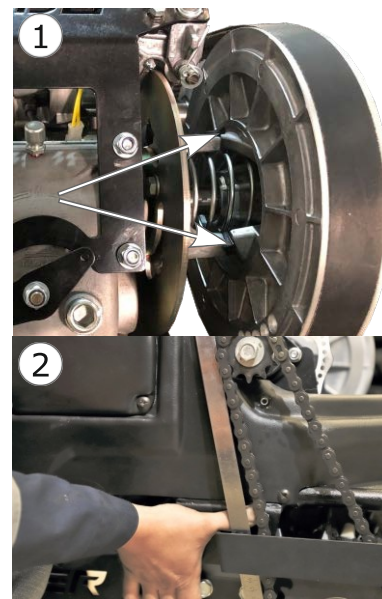
8. CHECK AND SERVICE AFTER EXPLOITATION .

1. Close the fuel valve.
2. Turn the ignition switch off.Выключите зажигание.
3. Turn off the headlight.Выключите фару
4. Unload the towing vehicle. Do not leave the vehicle loaded, it will increase suspension springs' lifetime.
5. Demount the bonnet, disconnecting the headlight in advance.
6. Clear the towing vehicle from snow, ice, branches, leaves and dirt.
7. Check the suspension.
- 8.** Do visual check of track's tension, regulate if needed.
- 9.** Check the track's tension, regulate and lubricate the chain if required. Use aerosol grease for motorized vehicle chains.
- 10.** Check condition and fastening of drive and driven sprockets.
- 11.** Carefully check CVTs, clean them if required. Check condition and presence of plastic inserts on the driven CVT. In case of inserts deterioration or lose, install the new ones.
- 12.** Do visual check of the vehicle on liquids leakages' presences (fuel, oil).

8.1 CHECK CHAIN TENSION

Properly regulated chain has sag of 5-10 mm at the middle between sprockets.

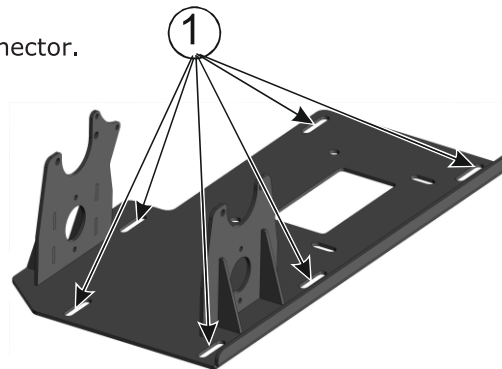
Sag less than 5mm will cause chain stretching and accelerated sprockets deterioration. Exceed chain sag might the chain fly out during movement. Weak chain must be tightened. During exploitation the chain stretching and the range between chain links change. If the regulation range is not enough for proper tightening- replace the chain.



8.2 CHAIN TENSION REGULATION

For proper chain regulation, do following actions:

1. Take out the plastic bonnet, disconnecting the headlight connector.
2. Demount the chain plastic protection cover.
3. Demount side caps of the plastic housing.
4. Weaken six underframe fastener bolts (1).
5. Move the underframe with aggregates to tighten the chain.
6. Tighten six underframe fastener bolts.
7. Install the side caps of the plastic housing.
8. Install the plastic chain protection.
9. Connect the connector on the headlight.
10. Install the plastic bonnet.



8.3 TRACK TENSION CHECK

Check the chain's condition and its' tension in advance before each ride.

Exceed tension is the reason of the mechanical losses increases in vehicle's chassis; and overloading elements and units of the transmission and suspension, shortening its' lifetime.

Set the towing vehicle on the flat horizontal surface. Raise the vehicle on 700 mm height from the hitching equipment side.

Produce the measuring from the trailer coupling. Measure the range from the external roller of the intermediate truck to the sagged track. Properly tightened track sags on 20-25 mm. Intermediate-axes range difference between leading sprocket axis and rear axis must be not less than 2 mm.



8.4 TRACK TIGHTENING

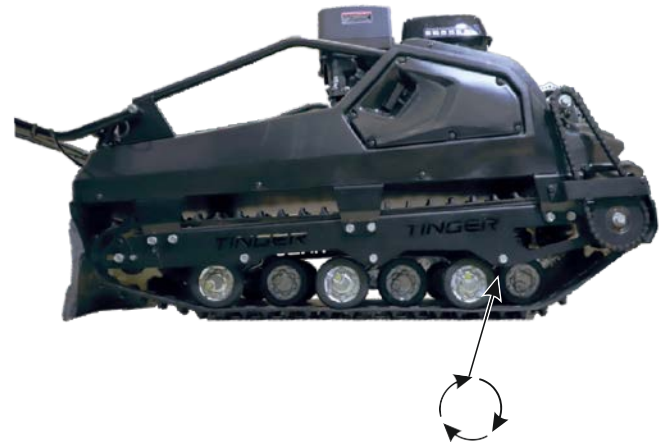
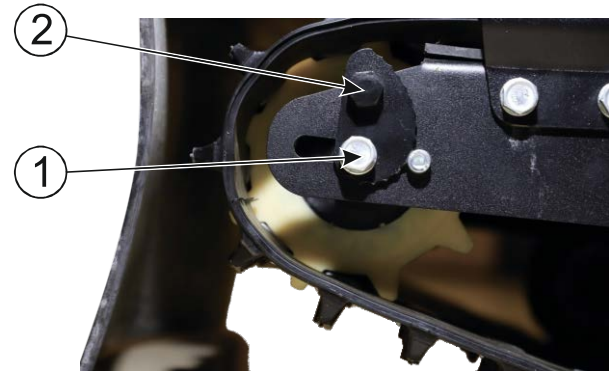
1. Weaken the fastener bolts (1) of the rear shaft from both sides of towing vehicle.
2. Rotate the tensioner eccentric (2) for axis shifting.
3. Check the track's tension.
4. Tighten bolts.

! WARNING

During regular leaning of the towing vehicle on one side, tighten the track of this side. Weaken the track's tension from the opposite side.

8.5 SUSPENSION TRUCKS CHECK

During the movement through rugged terrain, hummock, wood logs and other obstacles overcoming, the vehicle overturning is possible. The towing vehicle leans ahead and sets down, speed and towing characteristics decrease. Forbidden to drive in such mode. Turn the vehicle in working position is required.



8.6 CVT BELT

! WARNING

Stop the engine in advance, before work with the CVT.

8.6.1 CVT BELT DISMANTLE

1. Demount the plastic bonnet. Provide the convenient access to the CVT.
2. Demount the side panel of the drive CVT.
3. Move the belt part on the external side of the driven belt.
4. Rotate the driven pulley and lead the rest belt part to external pulley side.
5. After the belt is fully demounted from the driven CVT pulley, demount it from the drive CVT pulley.

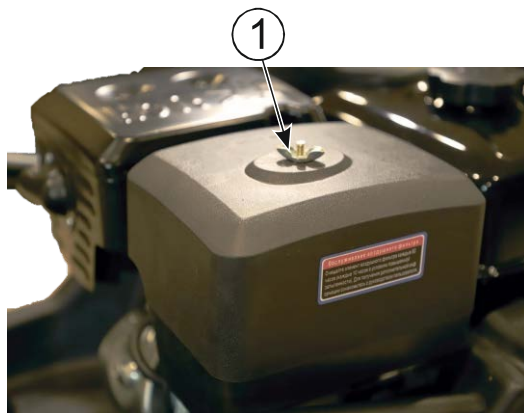
8.6.2 CVT BELT INSTALLATION

1. Wear the belt on the drive CVT pulley.
2. Wear part of the belt on the driven CVT pulley.
3. Rotate the driven CVT pulley and lead the belt on the working pulley part.



8.7 AIR FILTER

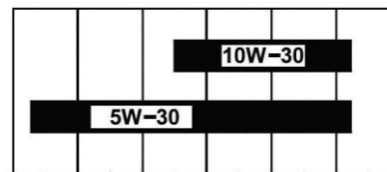
Air filter body is fastened on the carburetor. To take the filter cap out, unscrew the fastener nut (1). In case if filter element is contaminated, cleaning or replacement is requirement. Installation occurs in reversed order.



8.8 MOTOR OIL

8.8.1 RECOMMENDED OIL

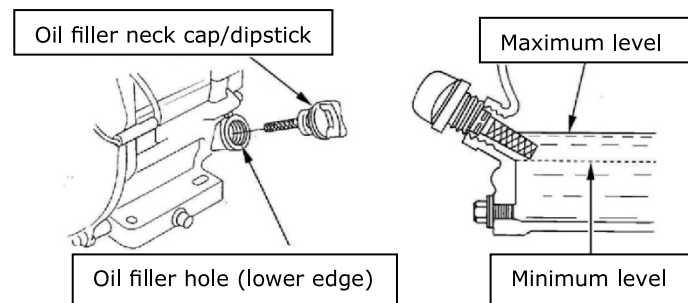
Use motor oil for 4-stroke engines, corresponding or surpassing requirements of API SJ, SL or similar specifications.



For widespread use, the oil with SAE 10W-30 or SAE 10W-40 viscosity are recommended. Oil volume for Lifan 190F engines – 1,1 L.

8.8.2 MOTOR OIL CHECK

Check the oil level in the engine while the engine does not work and on the flat horizontal surface.



1. Take out the cap/dipstick of the oil filler neck, wipe it.
2. Put the cap/dipstick in for oil level measuring, do not screw it in, then take the dipstick out and check the oil

level.

3. If the oil level is near or below the minimal mark on the dipstick, need to pour the recommended oil till top mark level.

4. Install back the cap/dipstick on the oil filler neck place.

! WARNING

Engine work with minimum oil level might cause engine damage.

8.8.3 OIL REPLACEMENT

Change oil when the engine is warm. Warm oil drains out fast and fully.

1. Take out the cap/dipstick of the oil filler neck.

2. Pump the oil from the carter using pump. 3. Fill the engine located on the flat surface till top dipstick mark by recommended oil.

4. Set the cap/dipstick back, tighten it. 5. Utilize the oil according to current legislation.

8.9 SPARK PLUG SERVICE

Recommended spark plugs types:
BP7ES(NGK), W22EPR-U(DENSO).

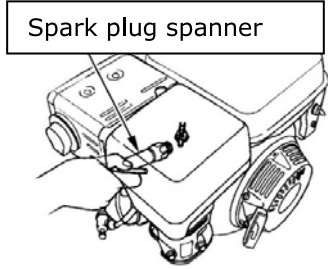
! WARNING

Use recommended or similar spark plugs..

1. Take out the tap of the high-voltage wire from the spark plug, and unscrew it by spark plug spanner.

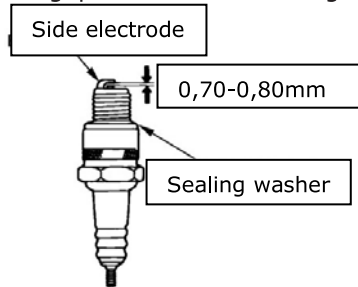
2. Take the lug of the high voltage wire out of the spark plug by spark plug spanner.

3. Check the spark plug. Replace the spark plug in case if sealing cracks or significant electrodes deterioration



will be detected.

4. Measure the gap between spark plug electrodes by a plate probe. The gap must be in the range of 0.7-0.8 mm.



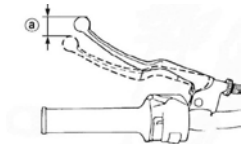
5. Check the sealing washer condition. Bait the spark plug by the hand such way to avoid thread skew.
 6. Screw the spark plug by hand. After the spark plug is screwed up by hand till stop, then tighten it on ½ turnovers by spark plug spanner. If the spark plug is used repeatedly, then rotate it just on ¼ turnovers.

! WARNING
Spark plugs must be tightened reliably. Otherwise it might cause engine damage.

8.10 HANDBRAKE.

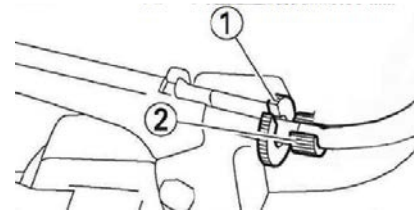
8.10.1 CHECK, SERVICING OF BRAKE CABLE

Check the free run of the brake lever. It must have the parameter of 5-10mm.



For the run regulation, weaken the lock-nut (1), and tighten the cable by rotating the regulation screw clockwise such way, the brake lever has 5-10 mm free run.

To weaken the brake cable, weaken the lock-nut (1) and weaken the cable by rotating the regulation screw clockwise.



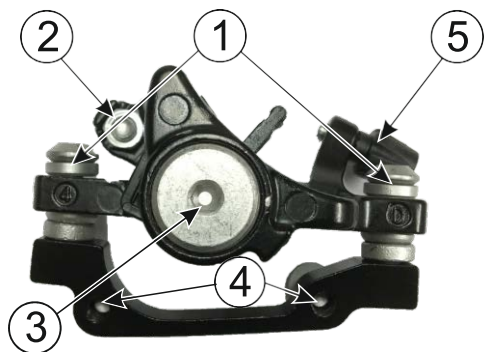
If the regulation on the lever for the free run setting is not enough, regulate the brake support and check the pads condition.

8.10.2 BRAKE SUPPORT REGULATION

Weaken the brake cable on the lever as it possible in advance before support setting. Plastic bonnet dismantle is required for support regulation.

Support elements

1. Support position regulation bolts
2. Brake cable fastener bolt
3. Range-between pads regulation bolts
4. Support's fastener bolt
5. Support of the outer casing of the brake



Check brake disk rotation. Brake pad to the brake disk touching is acceptable, if it does not get the disk's rotation tight. Check the free run of the brake lever. Regulate the cable's tension if required.

Fully weaken the cable's tension on the lever. Check the ease clenching and lever's and brake cable's returning to the original position.

Lubricate or replace the brake cable if the lever runs tight. Weaken the bolt (2) and pull the cable out till sag elimination. Do not create cable's tension. By rotating the bolts (1),

Regulate the support position relatively to the brake disk. Immovable brake pad must be parallel to brake disk dimension. Regulate the minimal possible length between immovable brake pad and brake disk. Brake pad to the brake disk touching is acceptable, if it does not get the disk's rotation tight. Screw the bolt (3) till the touching momentum of the brake pad to the brake disk.

8.11 WASHING AND CLEARING

Clean the towing vehicle after each ride, clean the sled from dirt, snow, ice, leafs, branches and other alien objects. Use water and cleanser. Before exploitation read the exploitation manual.

! WARNING

Do not direct water stream under pressure to the bearings, exhaust pipe, air filter and electrical elements.

9. HARD EXPLOITATION CONDITIONS

Hard exploitation conditions are the following:

- Deep friable snow movement (depth more than 40 cm).

- Ride under the -25 below and +10 °C above.
- Ride on wet snow, containing water.
- Ride on the water flood surfaces.
- Ride on the stone terrains.
- Ride on the crust, that not able to hold the towing vehicle's and sled's weight.
- Races and competitions participation.
- Long slow speed movement.
- Over 150 kg cargo towing.
- On-dirt, on-sand ride.
- Long ride up to the hill, down from the hill and on-slopes long ride.
- Short rides with frequent stops.
- Long engine idle speed work.

10. PERODICAL SERVICE

10.1 AFTER FIRST 20 TOWING VEHICLE WORKING HOURS (AFTER RUNNING-IN)

1. Replace engine oil.
2. Clean or replace the air filter.
3. Lubricate acceleration and brake cables.
4. Lubricate the chain and drive sprockets by chain care spay.

5. Regulate free run of the acceleration and brake levers.
6. Regulate chain's tension.
7. Check transmission bearings.
8. Check tightens of all tracks' fastener bolts, bearings and chain sprockets.

10.2 SERVICE AFTER EVERY 50 HOURS

1. Replace engine oil.
2. Clean or replace the air filter.
3. Replace a spark plug.
4. Lubricate acceleration and brake cables.
5. Lubricate the chain and drive sprockets by chain care spray.
6. Check transmission bearings.
7. Regulate free run of the acceleration and brake levers.
8. Regulate chain's tension.
9. Check tightens of all trucks' fastener bolts, bearings and chain sprockets.

11. TRANSPORTATION

Drain out the fuel from the tank and close the fuel valve before the towing vehicle transportation. During loading-unloading works, the towing vehicle must be placed at horizontal position. Provide the towing vehicle reliable fixation during transportation

12. STORAGE

Towing vehicle and sled should be stored in dry ventilated premises or on open air under an awning. Towing vehicle and sled must be protected from straight sun lights.

12.1 PREPARATIONS FOR TOWING VEHICLE LONG-TIME STORAGE (OVER 1 MONTH)

1. Clean or wash the towing vehicle and sled.
2. Refuel the tank.
3. Warm the engine and change the engine oil.
4. Unscrew a spark plug. Into the cylinder through the spark plug aperture pour 20ml of engine oil. Rotate the engine crankshaft by manual starter for two times. Then screw the spark plug back.
5. Set the towing vehicle on supports such way, the track suspends in the air.
6. Rotate the track on one and half no rather than one time per half of year.
7. Cover the towing vehicle from the dust by steam-penetrating material. Such a conservation method provides towing vehicle preservation up

to 12 months, if the storage rules were followed. After 12 months, do preparations the towing vehicle for exploitation by start the engine for a few minutes. If further storage is required, produce preparations for conservation again.

8. Disconnect sled from towing vehicle, and overturn it upside down.

WARNING!

Make sure storage place has no high humidity and dust.

12.2 PREPARATIONS FOR EXPLOITATION AFTER SEASONAL STORAGE (DEPRESERVATION)

Before exploitation do following actions:

1. Replace oil in the engine
2. Clean or replace air filter.
3. Replace spark plug.
4. Lubricate throttle and brake cables.
5. Lubricate chain and drive sprockets by chain care spray.
6. Check transmission bearings.
7. Regulate free run of throttle and brake levers.
8. Regulate chain tension.
9. Check all suspension trucks' and chain sprockets' fastener bolts tightening.

13. PRE-SALE PREPARATION SHEET

Pre-sale preparation checklist	Inspector's mark
Check the need for implementing the "Information sheets"	
Check the complete set according to specification sheet	
Check the track tension	
Check the driving chain tension	
Refill the fuel tank (300 ml)	
Check engine oil level	
Check for leaks of process fluids	
Ensure wires are correctly laid and fixed	
Ensure cables are correctly laid and fixed	
Check handlebar folding in a transport position	
Check the parking brake operation	
Check the accelerator lever adjustment	
Check engine starting with a recoil starter	
Check the emergency engine switch (shear pin) operation	
Check engine idle operation	
Check headlight operation	
Check the motorized towing vehicle in motion	
Shut off the fuel cock	
Check the sledge damping device (if available)	
The motorized towing vehicle model, serial number and scope of supply:	
Pre-sale preparation performed by (full name):	
Pre-sale preparation date:	
Signature:	

* - The motorized towing vehicle can be equipped with a TINGER sledge.

Pre-sale preparation is considered completed provided that all the identified deficiencies or malfunctions have been eliminated.

14. TECHNICAL SERVICE TABLE

Service the towing vehicle in Mechanica dealers' centers. The list of Mechanica authorized service centers is placed on official web-site. –

Operation name/periodicity	First 20 exploitation hours (running-in)**	Every 50 exploitation hours**
Oil in engine	R	R
Spark plug	C	R
Technical liquid leakage	C	C
Acceleration lever run	S	S
Brake lever run	S	S
Fuel valve	C	C
Manual starter serviceability	C	C
Engine idle speed work	C	C
Engine reaction on acceleration lever position	C	C
Посторонние звуки при работе двигателя	C	C
Handlebar and its' fasteners	C	C
Hitching equipment fastener	C	C
Emergency engine switcher-off	C	C
Chain	S	S
Headlight	C	C
Track	S	S
Звезды цепной передачи	C	C

Operation name/periodicity	First 20 exploitation hours (running-in)**	Every 50 exploitation hours**
Sprockets fasteners	C	C
Suspension trucks	C	C
CVT pulleys	C	C
CVT bushings (sliders)		C
CVT belt	C	C
Throttle cable	S	S
Air filter	S	R
Fuel hose	C	C
Support and brake pads	C	C
Brake disk	C	C
Handbrake cable	C	S
Suspension trucks' fasteners	C	C
Engine fastener	C	C
Motor frame mounting	C	C
Transmission shafts bearings	C	C
Trucks bearings	C	C

C – check; S – service; R – replacement.

15. COPY OF PRE-SALE PREPARATION SHEET (seller's copy)

Pre-sale preparation checklist	Inspector's mark
Check the need for implementing the "Information sheets"	
Check the complete set according to specification sheet	
Check the track tension	
Check the driving chain tension	
Refill the fuel tank (300 ml)	
Check engine oil level	
Check for leaks of process fluids	
Ensure wires are correctly laid and fixed	
Ensure cables are correctly laid and fixed	
Check handlebar folding in a transport position	
Check the parking brake operation	
Check the accelerator lever adjustment	
Check engine starting with a recoil starter	
Check the emergency engine switch (shear pin) operation	
Check engine idle operation	
Check headlight operation	
Check the motorized towing vehicle in motion	
Shut off the fuel cock	
Check the sledge damping device (if available)	
The motorized towing vehicle model, serial number and scope of supply:	
Pre-sale preparation performed by (full name):	
Pre-sale preparation date:	
Signature:	

* - The motorized towing vehicle can be equipped with a TINGER sledge.

Pre-sale preparation is considered completed provided that all the identified deficiencies or malfunctions have been eliminated.

16. COPY OF WARRANTY CERTIFICATE (seller's copy)

Seller:			
Seller's address:			
Phone:		Sale date:	
Model:	Serial number:	Engine number:	
Motorized towing vehicle complete set:	with TINGER sledge <input type="checkbox"/>	w/o TINGER sledge	<input type="checkbox"/>
Buyer's full name:			Age:
Address:			
Phone:		E-mail:	

The buyer confirms that the seller:

- Submitted to the buyer: motorized towing vehicle, TINGER sledge, operating manual for the motorized towing vehicle
(delete missing items).
- Explained the rules for operating the TINGER motorized towing vehicle and sledge (if available).
- Explained to the buyer the terms of the warranty clause, the timing and significance of the need for maintenance. The buyer has no claims about the appearance of the TINGER motorized towing vehicle and sledge (if available).

Buyer's signature

Seller's signature

Trading organization stamp

Date "__" _____20__

Pursuant to the requirements of the Federal Law

On personal data No. 152-FZ dated 27.07.2006,

I _____

Full name

hereby give my consent to the seller _____

Company name

and to the manufacturer, Mekhanika LLC, to process my personal data specified by me in this document, for the purpose of placing the motorized towing vehicle under warranty and informing me about recall and service campaigns. Processing of personal data is carried out by the seller and the manufacturer on paper or electronic media, with and without the application of automation means. The consent is valid during the warranty period for the motorized towing vehicle. I know the procedure for withdrawing the consent to the processing of personal data.

Signature _____

Date "__" _____20__

This document remains with the seller and is kept until the end of the warranty period for the motorized towing vehicle.

17. WARRANTY

Warranty time on new towing vehicle bought from TINGER authorized dealer is **12** months. Dealer/Seller provides a Manufacturer warranty- Joint-Stock Company "Mechanica" to the Customer. Given warranty represents itself the manufacturer warranty that does not limit Your Customer legal rights of towing vehicle purchase agreement of TINGER dealer, and that guarantees You applicable national legislation regulating consumer goods trading. Present warranty complements it. Warranty acts on all aggregates and elements replaced during guarantee period till the towing vehicle warranty time end.

Warranty commitments extend on defects related to the assemblage or material quality emerged during towing vehicle production or exploitation. Warranty commitments acts during **12 months** from the moment of transfer the towing vehicle to the first Owner. Warranty commitments acts if Owner followed all Rules and Requirements, listed in the given manual.

17.1 SPARE PARTS GUARANTEE

3 months of warranty, from the purchasing moment is provided to all original TINGER spare parts acquired from TINGER official dealer. Warranty commitments on original TINGER spare parts do not extend on disadvantages and malfunctions that are emerged as result of unqualified replacement.

17.2 WARRANTY PROVIDE CONDITIONS

Warranty time counts from the moment of transfer the towing vehicle to the first retail Customer or his Representative. If towing vehicle was acquired by Intermediary, warranty commitments take effect from the moment of transfer the towing vehicle to the given Intermediary. All warranty commitments acts if towing vehicle has identification number, serial engine number and frame number specified in the given manual. Warranty time counts from the moment of transfer the towing vehicle to the first retail Customer or his Intermediary.

If towing vehicle was acquired by Intermediary, warranty commitments take effect from the moment of transfer the towing vehicle to the given Intermediary. Warranty repair occurs, providing the given manual to

the Dealer's service center by the towing vehicle Owner. All the aggregates and element that were replaced during warranty repair process are property of Manufacturer and stay under Dealer's disposal.

На детали и системы, вышедшие из строя в результате естественного износа. 16. На МБ, используемый не по назначению или с нарушением условий эксплуатации. 17. На дополнительно установленное оборудование и аксессуары.

17.3 DELIEVERY

In the towing vehicle failure case, doing the exploitation unsafe or impossible, the towing vehicle delivery occurs by owner's forces and means. Delivery expenses of the towing vehicle or any other part from or into a service center lie on an Owner.

17.4 OWNER'S DUTY:

- Exploit, service, store, transport and maintain TINGER towing vehicle according the Rules, listed in the given exploitation manual;
- Provide technical serving of the towing vehicle in volume and according to the time table, recommendations and technologies, that are installed by Manufacturer;
- Save checks, requisites, acts of done jobs, copies of work-orders and other required documents, confirming in-time required technical servings; and watch all the notes of produced technical serves are filled in the towing vehicle documentation;
- Detecting drawback of the towing vehicle, provide the vehicle to Dealer for reparation as soon as it possible. It will minimize effect of the given drawback on the towing vehicle and on scope of repair work.

17.5 WARANTY DOES NOT COVER:

1. On elements and systems that are failed due to overheating, water affect, oil starvation, long work on limit modes and other reasons, that are not foreseen of the given exploitation manual during serviceable cooling systems and lubrication.

2. On elements and systems, affected by deterioration depending on:

- Fuel and lubricate materials quality; качества топлива и смазочных материалов;

- Filters and supply pipelines condition, getting alien subjects into the engine; состояния фильтров и питающих трубопроводов, попадания посторонних предметов в двигатель;
 - Unit and elements condition, providing accident-free engine and other aggregates work, that must be checked during periodical revises, foreseen by the given exploitation manual;
 - Conditions intensity and towing vehicle exploitation style.
3. On consumables and elements, affected by deterioration that is depended on style, intensity and exploitation conditions: brake pads, brake discs, wheels, springs, hoses, cables, bearings, dusters, levers, CVT belt, CVT pulley and its' parts, CVT shaft, fuses, spark plugs, emergency engine switcher-off, headlight, filters, filler liquids, any type of gaskets, chain, chain lock, consumables, TINGER sled's runners.
 4. On any TINGER towing vehicle and sled damages, emerged as a result of water obstacles overcoming, elements and units contamination (without in-time clearing), run over an obstacles.
 5. Towing vehicles that have been exposed by repair out of TINGER dealer's special service station, unqualified repair, bad-quality repair.
 6. On any plastic, rubber, material details' damages.
 7. On consequences from external factors on towing vehicle affects, such as storage the towing vehicle under improper conditions, washing by high-pressure washer, rocks hits, industrial emission, resin tree sediments, salt, hail, lightning, natural disasters or other natural and environmental phenomena, and also vandalism actions and other uncontrollable actions.
 8. On towing vehicle that has changes in construction that were not discussed and reconciled with manufacturer, or that has replaced factory or engine numbers.
 9. On towing vehicles damages that were emerged by an accident, if it happened not as result of technical failure.
 10. On towing vehicle exploiting in sport competitions, commercial purposes, and failed due to overloading.
 11. On towing vehicle that has not passed TINGER dealer's planning technical servicing.
 12. On harms as a result of incomplete or improper service (non-fulfillment of daily or periodical serving, preparations for storage or exploitation, etc.).
 13. On any other towing vehicle failures that are might be solved by regulation (carburetor regulation, spark plug gap setting, chain's tension regulation, interaxial range regulation and CVT pulleys aligning, handbrake regulation, headlight beam regulation etc.).
 14. On extraneous sounds, lounds, creaks, towing sled vibration, that do not effect on serviceability and

characteristics of towing vehicle.

15. On details and elements are failed due to natural deterioration.
16. On towing sled that is exploiting improperly or with exploitation condition non-fulfillment.
17. On additional mounted equipment and accessories.
18. On effects of unoriginal spare parts exploitation.
19. On light seepages of oil or other liquids through sealing that does not emerge fluid level changing.
20. On effects after defected towing vehicle exploitation.
21. For reimbursement of expenses, done by owner, related to towing vehicle failure, for:
 - Technical help.
 - Evacuation and transportation of towing vehicle.
 - Compensation for inconveniences and business losses.
 - Rent and purchase of new vehicle

18. WARRANTY CERTIFICATE

Seller:			
Seller's address:			
Phone:		Sale date:	
Model:	Serial number:	Engine number:	
Motorized towing vehicle complete set:	with TINGER sledge <input type="checkbox"/>	w/o TINGER sledge	<input type="checkbox"/>
Buyer's full name:			Age:
Address:			
Phone:		E-mail:	

The buyer confirms that the seller:

- Submitted to the buyer: motorized towing vehicle, TINGER sledge, operating manual for the motorized towing vehicle (delete missing items).
- Explained the rules for operating the TINGER motorized towing vehicle and sledge (if available).
- Explained to the buyer the terms of the warranty clause, the timing and significance of the need for maintenance. The buyer has no claims about the appearance of the TINGER motorized towing vehicle and sledge (if available).

Buyer's signature

Seller's signature

Trading organization seal

Date "___" _____ 20__

Pursuant to the requirements of the Federal Law

On personal data No. 152-FZ dated 27.07.2006,

I _____
Full name

hereby give my consent to the seller _____
Company name

and to the manufacturer, Mekhanika LLC, to process my personal data specified by me in this document, for the purpose of placing the motorized towing vehicle under warranty and informing me about recall and service campaigns. Processing of personal data is carried out by the seller and the manufacturer on paper or electronic media, with and without the application of automation means. The consent is valid during the warranty period for the motorized towing vehicle. I know the procedure for withdrawing the consent to the processing of personal data.

Signature

Date "___" _____ 20__

This document remains with the seller and is kept until the end of the warranty period for the motorized towing vehicle.

19. INFORMATION ABOUT SERVICING

<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>	<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>	<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>
<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>	<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>	<p style="text-align: center;">SERVICE CARD</p> <p>Service completed in _____motor hours</p> <p>Preservation / depreservation (delete as appropriate)</p> <p>Stamp of the TINGER dealer provided the service.</p> <p>Date “__” _____ 20__</p> <p>Signature_____</p>