



Crawler Use Manual MEV, MEV Long, Kompakt

MOTODOG OÜ

Address: Kristalli 11, Räni alevik, Kambja vald, 61708, Tartu, Estonia

Phone: +372 51923904

Website: www.mootorsaanid.ee

E-mail: info@mootorsaanid.ee

Table of Contents

1. Safety Instructions.....	3
2. Introduction	4
3. Technical Specifications	5
4. Crawler Design	8
5. Controls	9
6. Crawler Engine.....	10
7. Preparing for Work.	12
8. Crawler Operation	13
9. Ignition at Temperatures Below 0°	14
10. Ignition at Temperatures Above 0°	14
11. Common Malfunctions and Their Elimination	15
12. Maintenance	16
13. Storing the Crawler	17
14. Transporting the Crawler	17
15. Manufacturer Warranty.....	18
16. Acceptance Certificate	19

1. Safety Instructions

ATTENTION!

1. Do not operate the crawler without reading this manual and the engine manual.
2. Persons under 16 years of age are prohibited from using the crawler!
3. Never allow a crawler to be operated by persons who are unable to use it safely.
4. Persons who are in a state of alcoholic or narcotic intoxication may not use the crawler.
5. Do not use the crawler in the absence of design protections.
6. Storage and transportation of flammable products under the hood of the crawler (gasoline, oil canisters etc.) is strictly prohibited.
7. Do not attempt to use a malfunctioning crawler.
8. Beware of the drive shaft rotating sprocket!
9. Stop the crawler at a safe distance from people, animals and vehicles.
10. Before beginning use, make sure that all nuts on sprockets and shafts are tightened.
11. In the event of any controls malfunctions stop using the crawler, find and eliminate the fault.
12. Rigid towbars only.
13. Do not touch a hot muffler.
14. Try to keep water from getting in the crawler engine, it can cause damage.
15. Do not carry cargo heavier than the permitted limit for this crawler model.
16. Never touch moving parts such as tracks, rollers, chains while driving.
17. The luggage compartment of the crawler is not intended for transportation of people!
18. Driving with the crawler hood open or removed is strictly prohibited!
19. In order to avoid collision with a person while driving an MRV crawler, make sure that the gear lever is in the neutral position when starting the engine.
20. Operating a crawler with a roller suspension in summer may increase the wear of suspension parts. Keep the suspension clean to avoid extra wear.

2. Introduction

The purpose of this manual is to acquaint the user to the maintenance and operation of the crawler and give recommendations for troubleshooting using standard tools. Design features, operating rules and maintenance for the engine are set out in the engine manual. Motodog crawlers are versatile vehicles designed for transportation of cargo and people in every season. The crawler truck is light and modest-sized for easier storage and transportation.

Only persons at least 16 years of age who have read this manual and the engine manual may operate, maintain and repair the crawler and engine. Also make sure to follow the relevant instructions for the prevention of accidents. Malfunction warranty void if tampering with the crawler or engine.

When driving a crawler avoid rough terrain, try to prevent jumps and track hits. Crawler models differ in their engines and sizes. Engine technical characteristics and notes on operation of engines are included in engine manuals supplied with each crawler.

3. Technical Specifications



Appearance of the MOTODOG MEV and MOTODOG MRV crawlers

MOTODOG MEV

Name	Characteristics
Dimensions LxWxH, mm	Packaged 1450x620x780
Track width, mm	500
Weight (kg)	115
Engine power, HP	13/15/17
Maximum cargo compartment load, kg	up to 50
Weight of towed trailer, kg	up to 300
Rated fuel consumption, l/h	3.8/4.1
Fuel used	AI-95 gasoline
Drive	Front
Transmission type	Stepless variator
Suspension type	Roller



Appearance of the MOTODOG MEV LONG and MOTODOG MRV LONG crawlers

MOTODOG MEV LONG

Name	Characteristics
Dimensions LxWxH, mm	Packaged 1700x620x780
Track width, mm	500
Weight (kg)	125
Engine power, HP	13/15/17
Maximum cargo compartment load, kg	up to 100
Weight of towed trailer, kg	up to 500
Rated fuel consumption, l/h	3.8/4.1
Fuel used	AI-95 gasoline
Drive	Front
Transmission type	Stepless variator
Suspension type	Roller

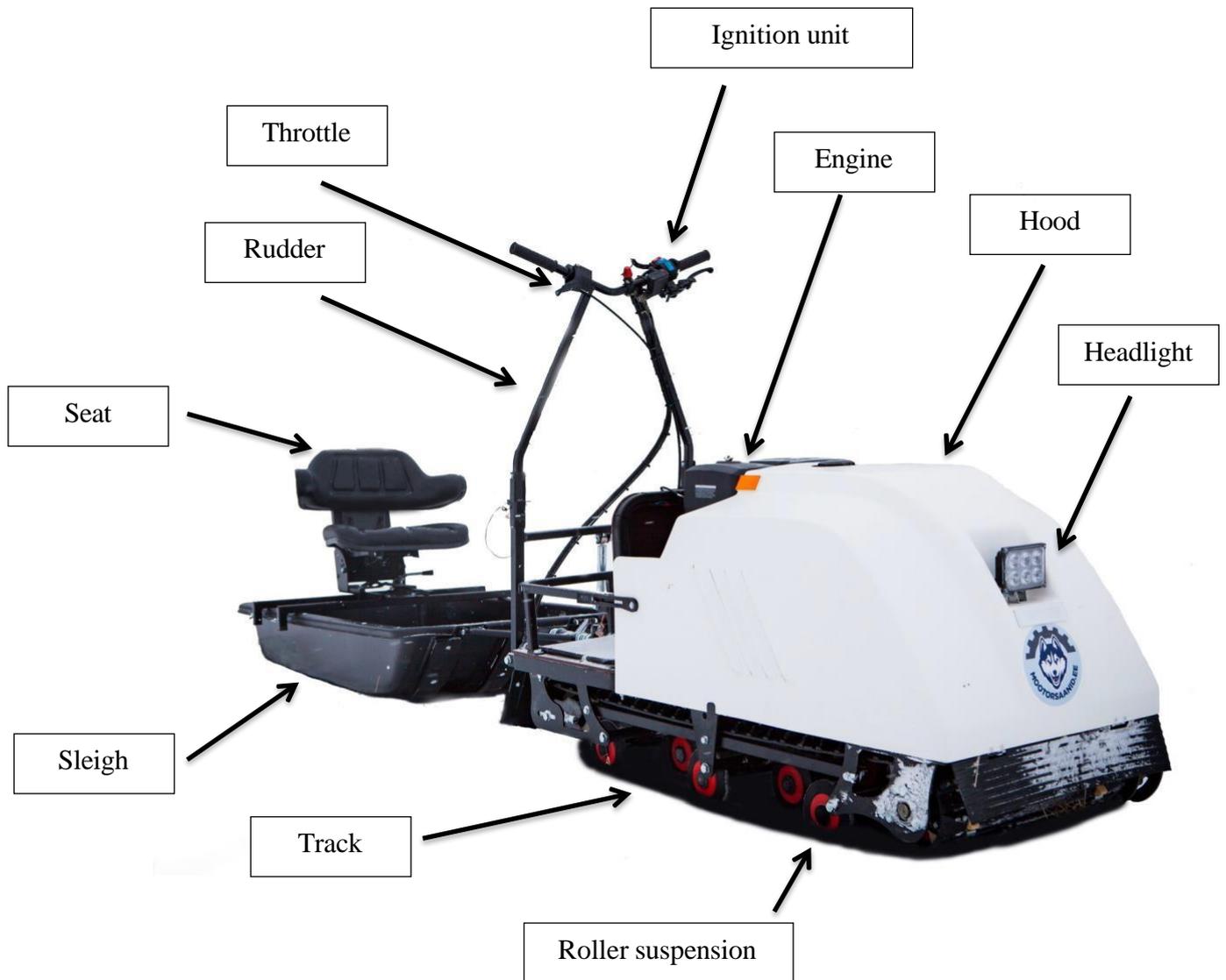


Appearance of the MOTODOG Kompakt crawler

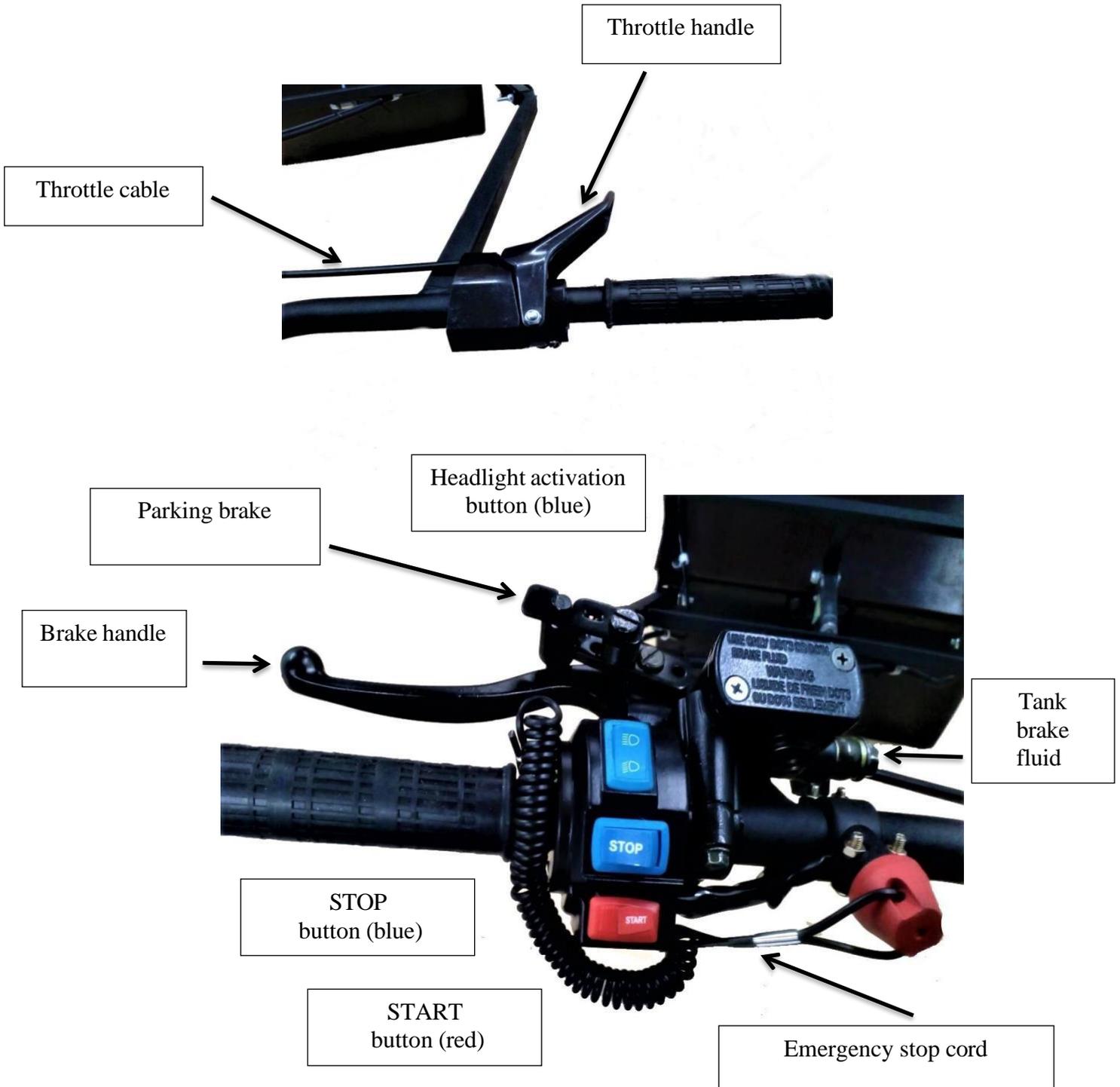
MOTODOG KOMPAKT

Name	Characteristics
Dimensions LxWxH, mm	Packaged 1250x620x780
Track width, mm	500
Weight (kg)	75
Engine power, HP	6.5/7
Maximum cargo compartment load, kg	up to 50
Weight of towed trailer, kg	до 200
Rated fuel consumption, l/h	1.5/2
Fuel used	AI-95 gasoline
Drive	Front
Transmission type	Automatic clutch
Suspension type	Roller

4. General design of MOTODOG crawlers



5. MOTODOG crawler controls



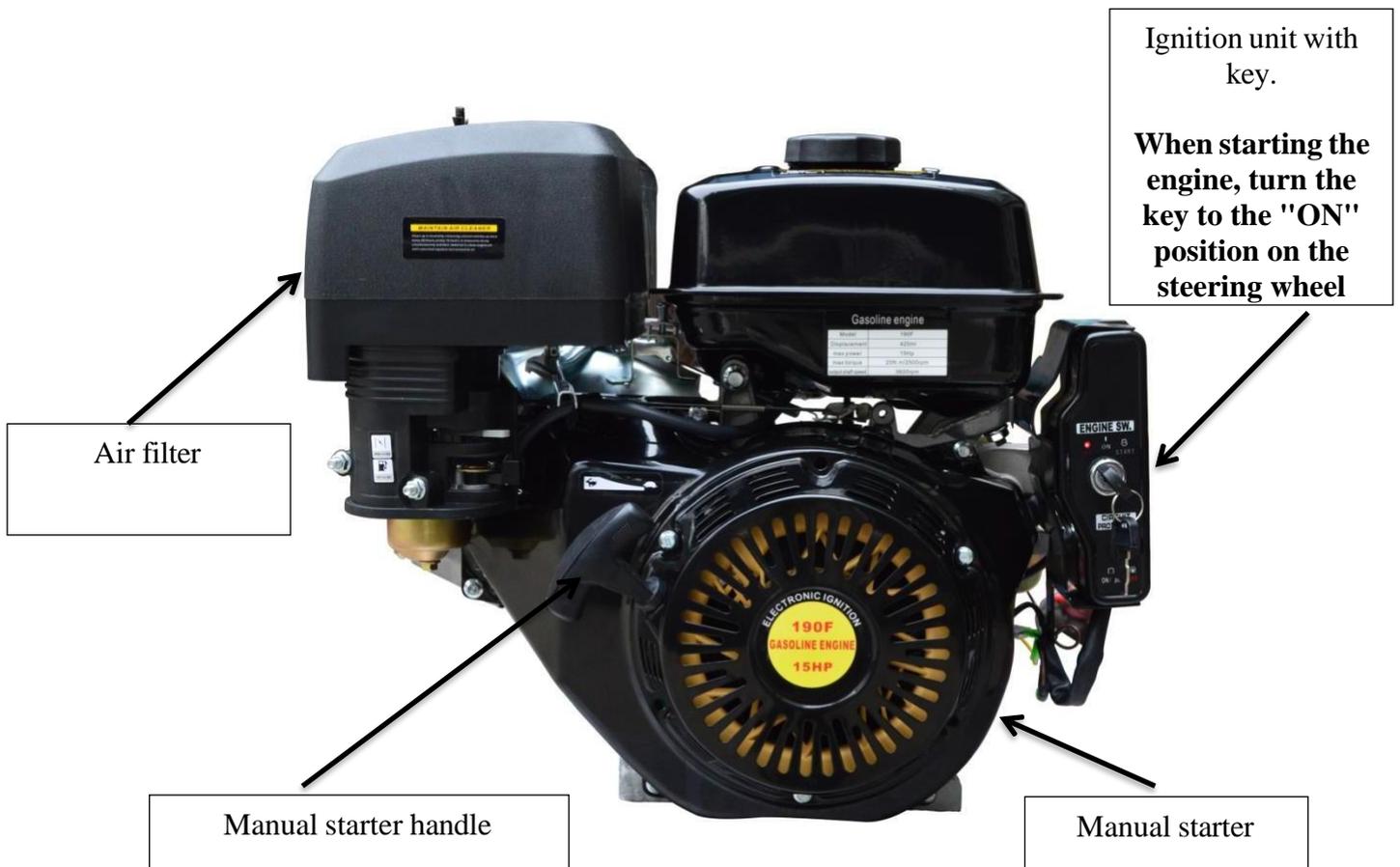
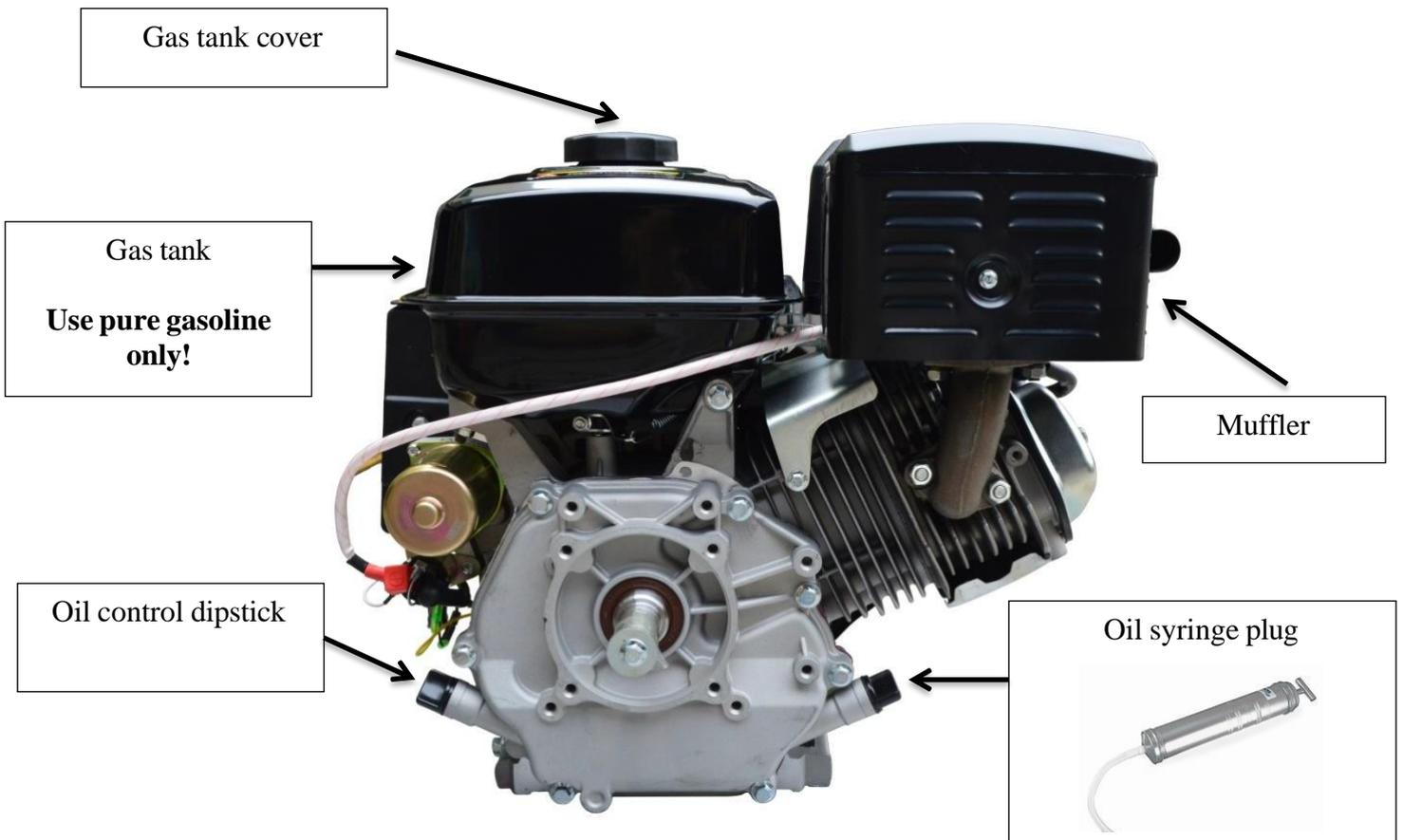
ATTENTION!

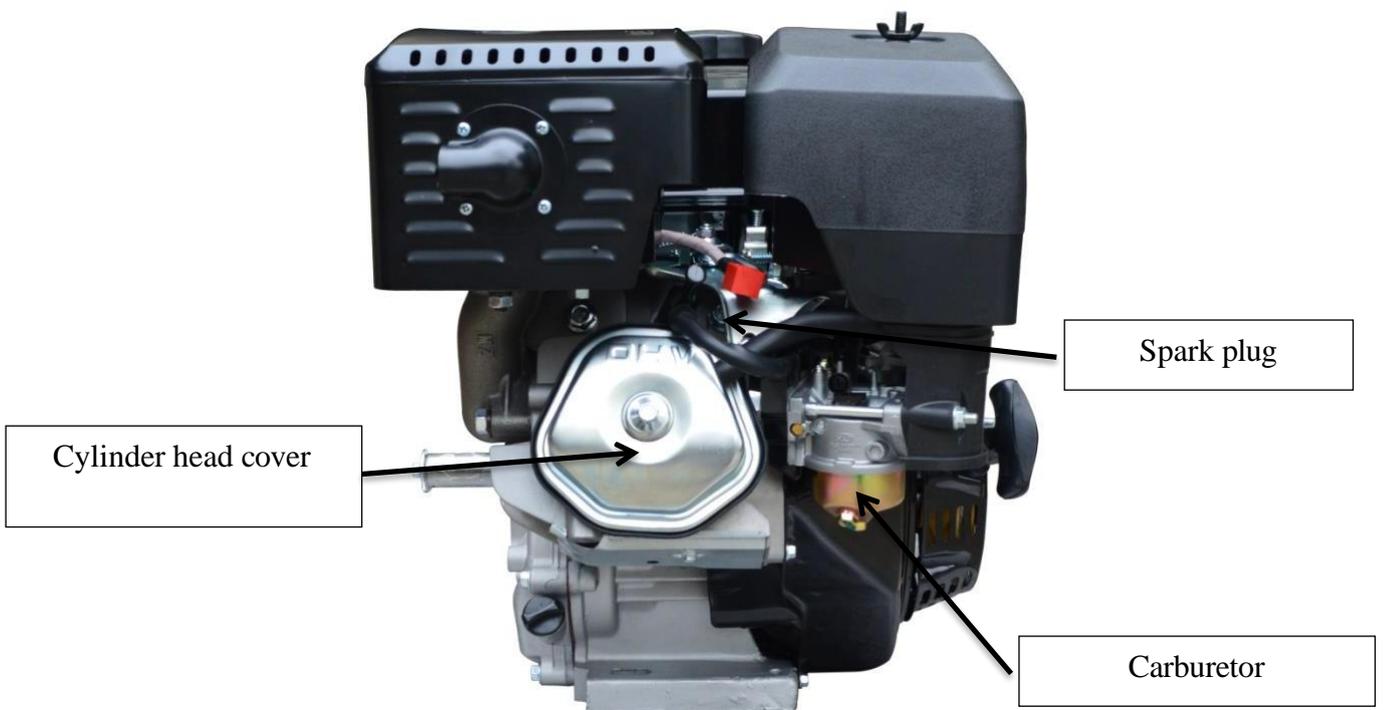
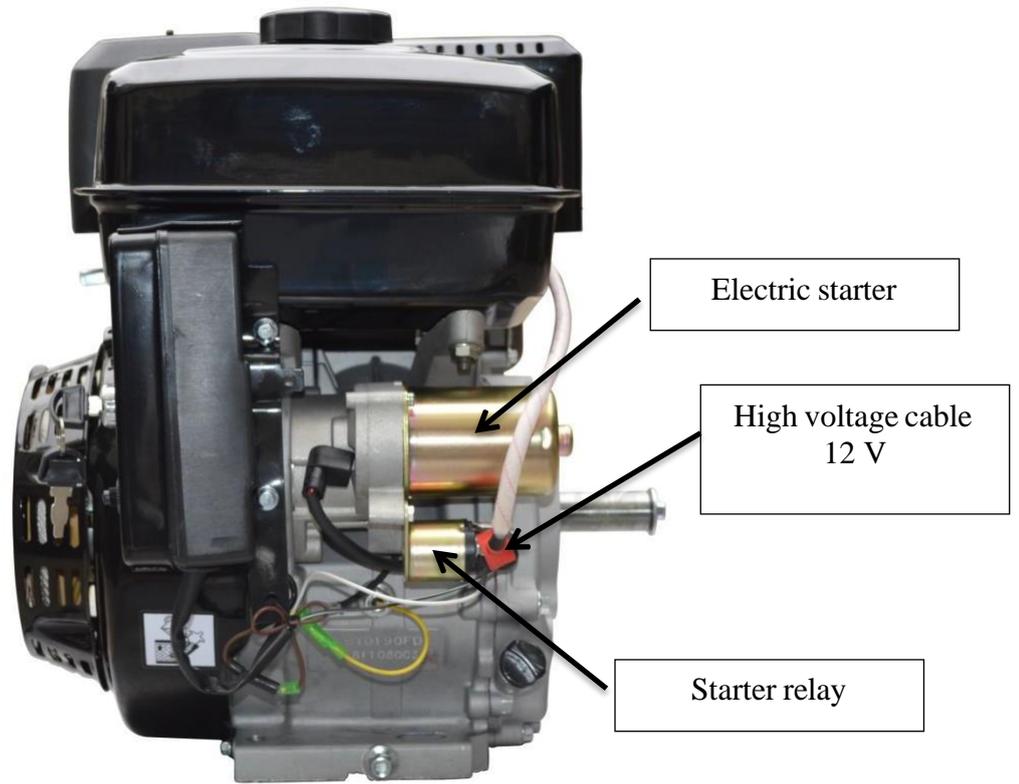
The engine's START button works only if the crawler's parking brake is set.

The EMERGENCY STOP CORD must be worn on the wrist DURING while driving the crawler!

Monitor the level of brake fluid through the transparent screen of the brake tank!

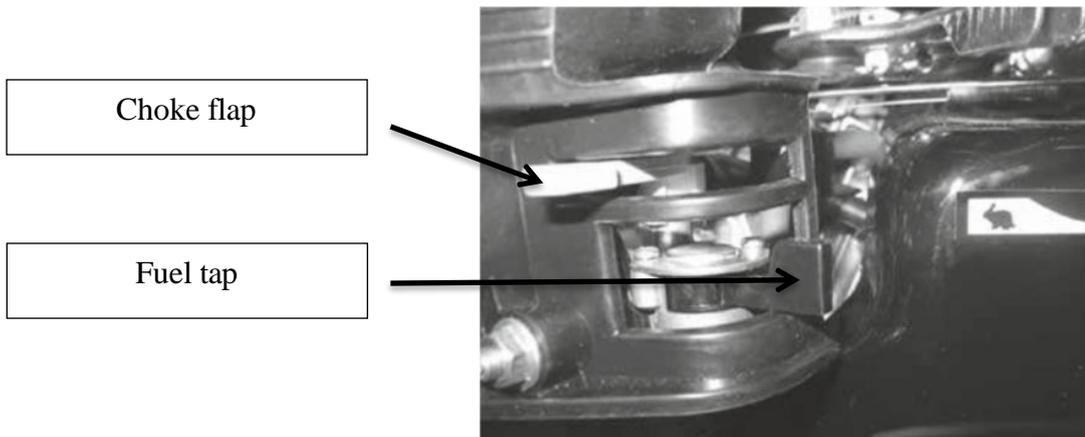
6. Crawler engine components





7. Preparing for work

Prepare the engine according to the engine manual. Open the fuel tap.



Fuel tap and choke flap control

Make sure the bolts securing the engine to the frame and the bolts of the engine shock absorbers are tight. Belt tensioning and engine adjustment relative to the intermediate shaft is carried out at service centers using special tools.

Make sure the throttle cable moves easily, lubricate if jamming with the **PTFE sliding surface oil**.



8. Crawler Operation

Read the engine manual (different from this) and start the vehicle according to the instructions. After starting, let the engine warm up for 1-2 minutes.

CRAWLER CONTROL

When transporting goods in the summer, the operator walks next to the vehicle. Speed change and take-off are controlled by the throttle handle to the right of the steering wheel. To start moving, bring the throttle handle to an approximate middle position. Acceleration should be gradual on soft surfaces to prevent the crawler from digging itself in. Rotate the steering wheel in the opposite direction to make a turn.

ATTENTION!

Remember to put the STOP button in the neutral position when starting the engine!

MAKE SURE to disengage the parking brake when taking off, regardless of the crawler model!

Taking off in MRV and MRV LONG crawlers:

1. MAKE SURE to disengage the parking brake
2. Move the gearbox handle from Neutral to Forward or Backward, depending on the desired take-off direction.

If the parking brake is not disengaged, the variator belt and brake pads may wear out quickly!

STOPPING THE ENGINE

1. Decelerate to a minimum
2. Press the STOP button

Main positions of the STOP button:

- Neutral / engine running
- Right-left / engine stopping

ATTENTION! The first 20 hours of crawler operation is run-in time for the engine and transmission. During this time do not pull a trailer heavier than 150 kg.

9. Engine use at temperatures below 0°

The crawler is manufactured ready to work at subzero temperatures.

The manufacturer fills the engine with SAE 5W-30 oil.

Consult the following chart, showing temperature ranges of all-season winter oils, to choose your own oil.

Important:

- 1) Lubricate the throttle cable with PTFE oil. Disconnect the throttle cable, fill the cable with the oil, work the cable until it is well-saturated and reinstall it.
- 2) Lubricate the starter using low-temperature grease with a temperature limit of -40°C.

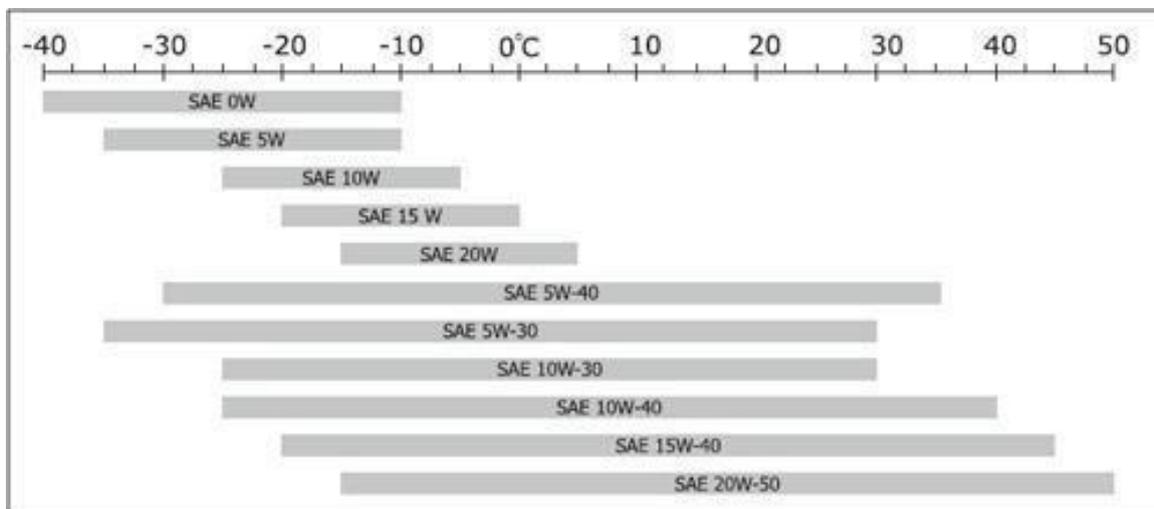
10. Engine operation at temperatures above 0°

Recommendations for above-zero temperature use:

replace oil with SAE 10W-30

ATTENTION!

Choose the oil with the temperature range most appropriate for your area.



11. Common Malfunctions and Their Elimination

Engine malfunctions, their nature, signs and elimination are set out in the engine manual. The following table lists crawler malfunctions, signs and elimination:

Malfunction signs	Probable cause	Elimination
The crawler moves in jerks, with abnormal metallic noise	1. Worn-out variator belt 2. Worn-out plastic variator inserts	1. Replace the belt. 2. Replace the inserts.
An audible metallic hum	Damaged bearings	Replace the bearings
The engine reaches maximum speed, but the crawler does not move	A torn variator belt A torn leading chain	Replace the variator belt Replace the chain
The engine runs, gaining momentum, but the crawler does not move	A track roller has flipped over from a strong blow	Return the roller to its original position
The variator overheats and fails	1. A worn-out bronze-graphite bushing 2. A slipping belt	1. Replace the bushing 2. Replace the belt, clean the disks (after 8 hours of work).

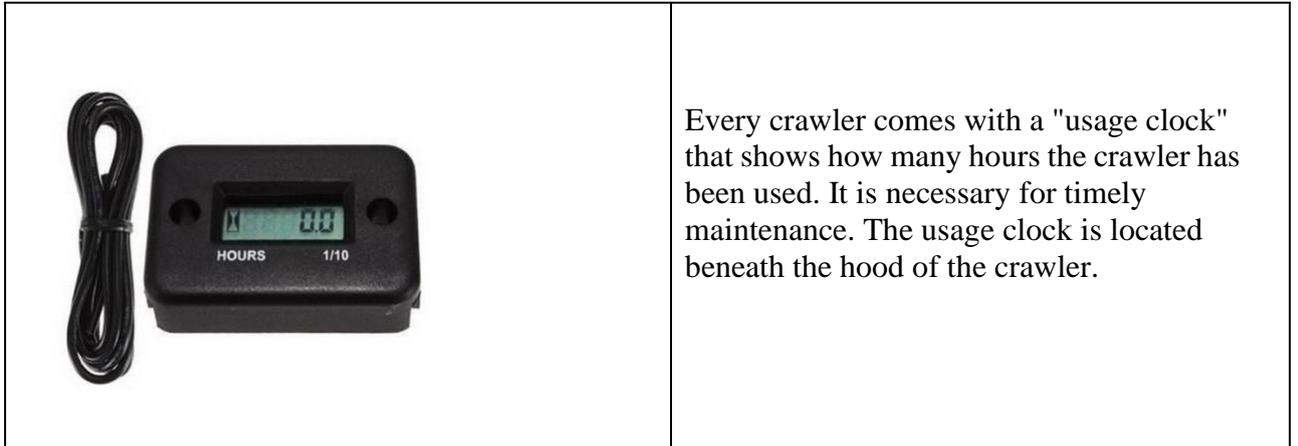
12. Maintenance

Before every use of the crawler make sure its components and parts are well-attached and if necessary tighten threaded connections. Make certain to check the engine oil level. Lubricate the throttle cable after every 50 hours of crawler use. Also lubricate at the beginning and the end of the operation season.

1. ENGINE

Engine maintenance is explained in the separate engine manual supplied with every crawler.

2. USAGE CLOCK



3. DRIVE CHAIN



4. VARIATOR DISCS



13. Storing the Crawler

The crawler should be stored in a dry, well-ventilated area or outdoors under a canopy in a waterproof cover. For conservation (storage longer than one month) prepare the vehicle as described in the engine manual, perform short-term storage maintenance and put preservative on unpainted and exposed crawler parts. Thus conserved, the crawler can remain in storage for up to 12 months, in proper storage conditions. After 12 months reconserve the crawler. For this first deconserve the engine as described in the engine manual, remove preservative from parts, replace engine oil, fill the tank with fuel, let the engine run for 5 minutes and reconserve the crawler. The service life of the product is 3 (three) years.

14. Transporting the Crawler

When transporting the crawler, drain fuel from the tank. When loading and offloading the crawler, keep it horizontal. Securely attach the crawler before transporting it. Never transport crawlers on each other without special containers nor in containers for bulk materials or chemical products.

15. Manufacturer Warranty

The manufacturer guarantees that the MB meets current technical requirement, subject to the rules of transportation, storage and operation specified in the manual. The warranty period is 12 months from the date of retail sale of the crawler, but not exceeding 36 months from the date of manufacture.

During the warranty period the manufacturer undertakes to repair and replace defective parts and components free of charge (except for consumables and spare parts), if the malfunction was the manufacturer's fault. If investigation shows no fault of manufacturer, the owner of the crawler compensates the manufacturer for incurred expenses.

Responsibility is disclaimed for:

1. Post-warranty period malfunctions.
2. Dismantled crawlers.
3. This manual is not presented or does not contain the stamp of the seller and the date of sale.
4. No maintenance, conservation and deconservation were carried out at the beginning and at the end of the operating season.
5. The factory number does not match the number specified in the engine manual.
6. The crawler was used other than as intended.
7. The owner has made changes to the design.
8. The crawler has malfunctioned as a result of non-compliance with the operating manual, careless handling or mechanical damage.

The warranty does not cover natural wear of components and parts. The warranty also does not extend to products which have been tampered with, used carelessly, for commercial purposes or other ends not intended for crawlers.

The crawler must be cleaned before it will be accepted for repair.

ATTENTION!

Consumables and spare parts subject to natural wear and not subject to free replacement during the warranty period include:

1. The variator belt
2. The chain;
3. Sprockets;
4. The spark plug;
5. The headlight bulb and fuse;
6. Variator inserts;
7. Chassis bearings;
8. The clutch.

