

SUPPLEMENT OPERATION UNSTRUCTION TRACTOR KIROVETS K-744R1, K-744R2, K-744R3, K-744R4 (744R-0000010IE)

INSTRUMENT PANEL AND STEERING POST

The tractor's cabin is equipped with steering post and instrument board.



Fig. 1 Instrument panel

1. The lamp is not involved
2. Indicator lamp of engagement of the engine fan clutch.
3. Left-hand turn indicator
4. Marker lights Indicator lamp
5. Engine emergency indicator lamp
6. Battery discharge indicator lamp
7. Head lamp upper beam indicator lamp
8. Indicator lamp: Emergency air pressure in 2nd circuit
9. Indicator lamp: Emergency air pressure in 1st circuit
10. Hydraulic oil critical temperature indicator lamp








































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












Tel: 1-855-2GO-4MTZ (1-855-246-4689) Fax: 1-647 933-9066 E-mail: info@mtzequipment.com Web: www.mtzequipment.com

11. Hydraulic oil critical level indicator lamp
12. Low-beam headlamp indicator lamp
13. Indicator lamp hydraulic system oil filter clogging Indicator lamp
14. Indicator lamp of clogging of the pressure filter of the hydraulic system of steering control
15. Indicator lamp of clogging of the engine oil filter
16. Indicator lamp of parking brake pulling up
17. Engine oil pressure gauge indicator
18. Indicator lamp of clogging of the oil filter of the hydraulic system
19. Indicator lamp of clogging of the pressure filter
20. Right-hand turn indicator
21. Cooling liquid incident temperature indicator lamp
22. Switching of neutral
23. Not involved
24. Menu recall button
25. Speed indicator
26. Oil pressure gauge
27. Engine tachometer indicator
28. Service hours indicator
29. Indicator of fuel level
30. Milage indicator
31. Engine cooling fluid temperature indicator
32. Sound turn on/off button
33. Brightness control button (decrease)
34. Brightness control button (increase)
35. Instrument board light switch button

FUSE PANEL

30A 	ET electrical unit power supply	10A 	ET	30A 	Air conditioner
10A  ADM2FR	ADM2FR electrical unit power supply	10A  MR	MR	10A  P<	Stop signal
10A  	"Road-train" sign, cabin light, flashing beacon	5A  EHR	EHR Activation relay	10A  24/12	24V voltage converter
10A  	Main front head lamps	10A  TGB	Gear box	10A  	Power supply for navigation system
10A  	Work inner front head lamps	10A  	24V for pressure switches for air and hydraulic system	10A  	Signal for low beam headlamp and upper beam headlamp relay
10A  	Work rear head lamps	5A  	Low beam left lamp	10A  	"-" EHR
10A  	Work inner rear head lamps	5A  	Low beam right lamp		
10A  	Instrument light and steering post supply	5A  	Left upper beam headlamp		
10A  	Horn	5A  	Right upper beam headlamp		



 	Fuel filter heating	 EHR	Activation of EHR system		
 	Mirror heating	 EHR	Activation of EHR system		
 	Front window wiper	 	Car audio		
 	Rear window wiper	 12V	Socket 12V		

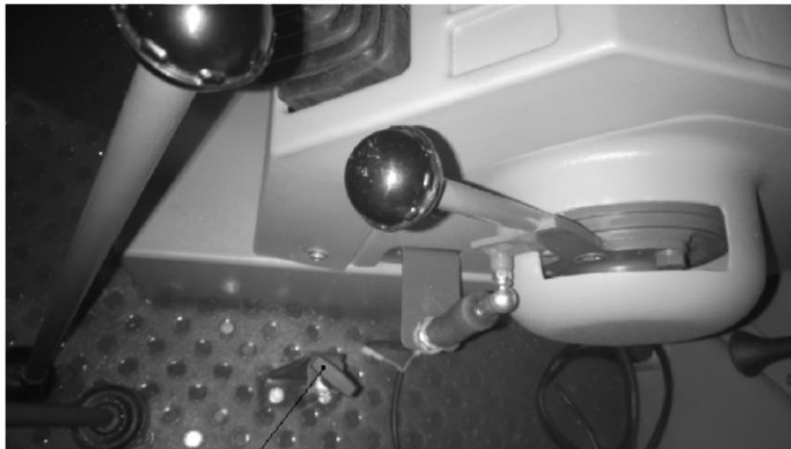
Switch and protection panel (fuse and relay panel) (fig. 1a) is located under lever control unit (fig. 1b). To access the unit, pull the lock catch of the switch panel



Fig. 1a Switch and protection panel



Fig. 1b Lever control unit



Engine shutdown handle

STEERING POST ASSEMBLY

Steering post (fig.2) tilt can be adjusted in the range of: rated tilt is 25°. The steering post tilt is adjusted for 6° tilt in forward direction and for 21° backward direction, relatively to the rated angle.

The post is fixed with handle 1 located at the left side of the post.

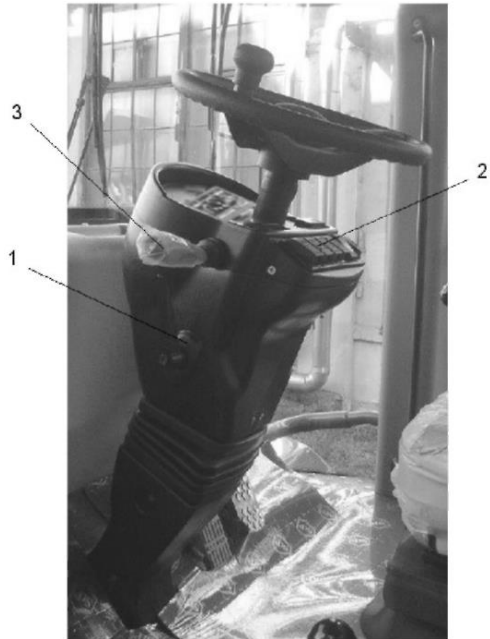


Fig. 2 Steering post

1 - steering post fixing handle;
2 - control panel; 3 - understeering switch

CONTROL PANEL

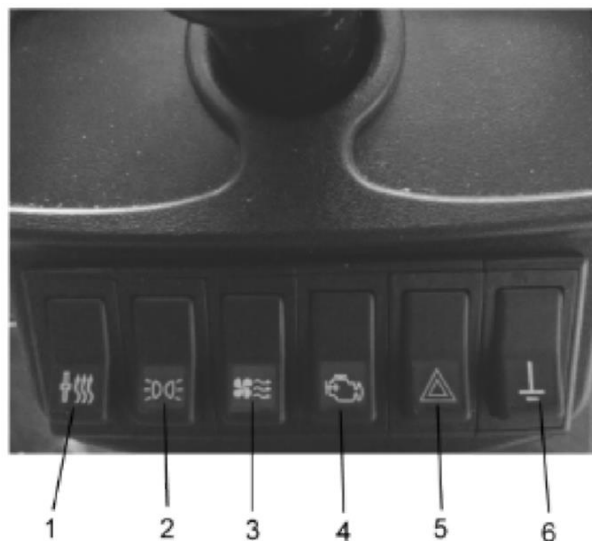


Fig. 3 Control panel

1. Thermostart button for tractors with 8481.10 engine
2. Marker lights switch key
3. Cabin heater switch key
4. Engine fan switch key for tractors equipped with YAMZ engine
5. Alarm signalling switch key
6. Battery disconnect switch

SWITCHES AT THE OVERHEAD PANEL IN THE CABIN

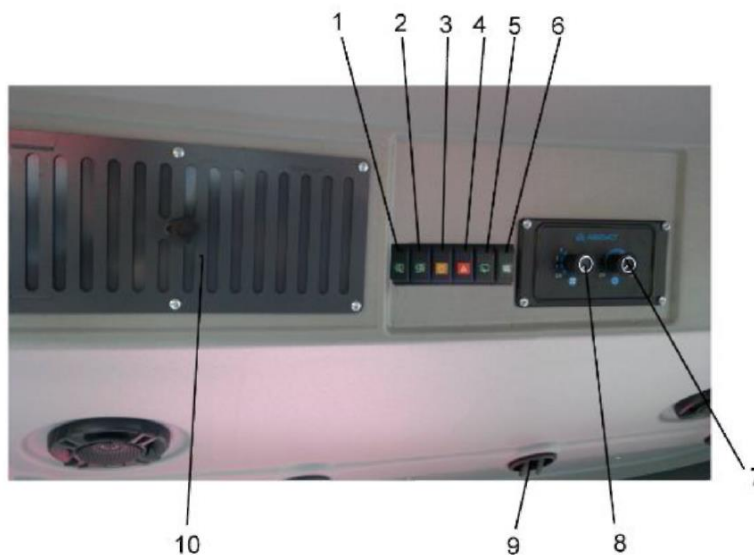




Fig. 3 Switch block and louvre on the overhead panel in the cabin

1. Front service headlight switching key
2. Rear service headlight switching key.
3. Rotation beacon switching key.
4. "Road-train" sign switching key.
5. Rear window wiper switching key.
6. Side mirror heat switch

7. Fan switch. It serves for regulation of the air flow passing through air-conditioner.
8. Temperature regulator. It controls the temperature of air flowing from the evaporator into the cabin.
9. Round louvre with variable clear opening, 10 pcs.
10. Air circulation louvre

LIGHTING AND ALARMS

According to traffic safety requirements, the tractor is equipped with orange rotating warning beacon. The beacon is installed at bracket at the left side of cabin. The beacon is turned on with switch key 3 (fig. 3)

VENTILATION

To perform forced air supply of the cabin, switch the fan (handle 7 (Fig.3)) in positions 1, 2 or 3.

The cabin is equipped with air circulation system. Open intake air louvre 10 (fig. 3) from the cabin to switch the system on.

DRIVING THE TRACTOR

Transmission gear box is operated by four pneumatic cylinders installed at TGB cover assembly (fig. 4). Pneumatic cylinders F-R – 1-N-2 can be controlled only when the gear change lever is in "T" position.

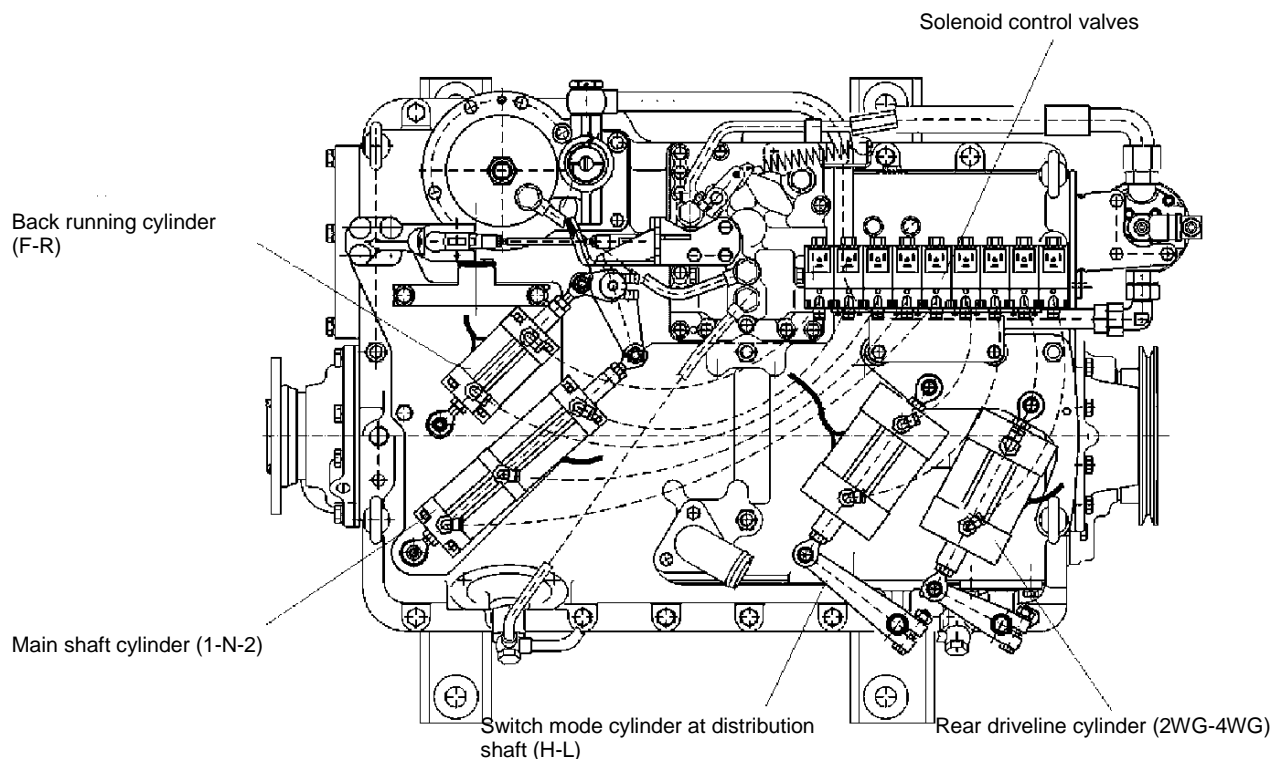


Fig. 4

1 Engine start-up



Make sure that control gear is in initial position (fig. 5):

- joystick 1 - in N position (Neutral);

- switch 3 - in F position (forward);
- shifter 5 - in neutral position;
- switches 2 and 4 - can be in any position. i.e., switch 2 - in L position (low mode), switch 4 - 2WD position (back axle is off).

Following lamps shall light at the control board (fig. 3): N, F, T, L, 2WD.

MAKE SURE TO REMOVE ALL PEOPLE AND OBJECTS FROM THE DRIVING DIRECTION.

Push drain pedal, push horn, turn ignition key to STARTER position and start the engine. Release the drain pedal

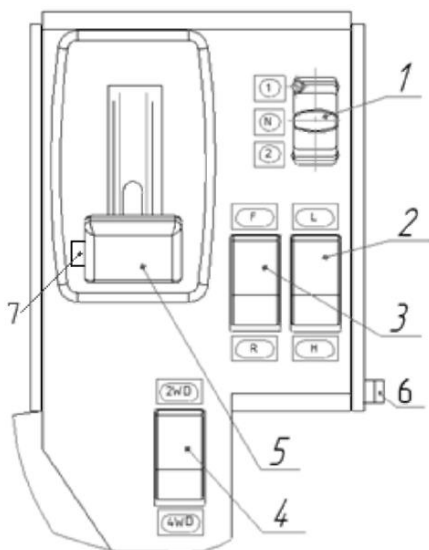


Fig. 5 CONTROLS

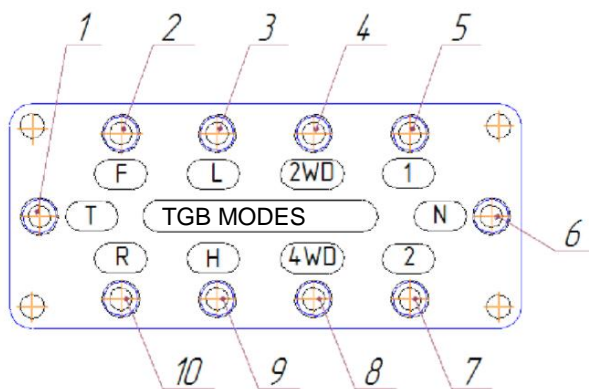


Fig. 6 Indication lamp panel

1 - joystick; 2, 3, 4 - mode switches; 5 - shifter; 6 - off normal engine start up button; 7 - fix button

2 Forward movement

Make sure there are no obstacles along the way.

Sound horn.

Pull up the parking brake.

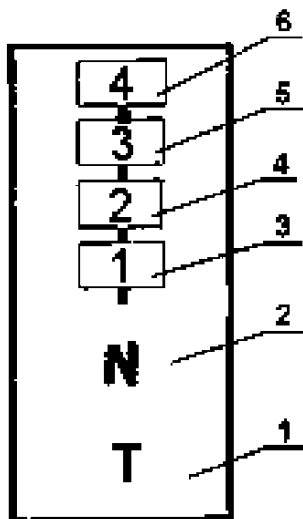


Fig. 7 Diagram of the gear change lever position

1 - neutral mode at brake; 2 - neutral N; 3 - 1st gear;
4 - 2nd gear; 5 - 3rd gear; 6 - 4th gear

Move shifter 5 to T position (fig. 7). The shifter can be moved to T-position only with depressed button 7 (fig. 5). The shifter can be released without pressing fix button 7.

Switch on required mode with joystick 1 to 1 or 2 position (fig. 5). Lamp 5 or 7 shall light (fig. 6).

Push drain pedal.

If you cannot switch a mode, swing the steering wheel.

Get into 1st gear moving shifter 5 to position 1.

Smoothly release the drain pedal and start moving forward.

Switch gear to forward direction according to fig. 7.

The speed can be controlled with gas pedal.

3 Stop

Make smooth braking observing safety rules.

Push drain pedal. Move shifter 5 to N position.

Move joystick 1 to N position. Lamp 1 goes black and lamps N and T shall light (fig. 6).

Pull up the parking brake, if needed.

4 Forward moving using other modes

Forward moving as for i. 2 can be done at higher speed by turning joystick 1 to position 2 or switching switch 2 to position H.

5 Backward moving

Stop moving according i. 3.



Push drain pedal Shift switch 3 to R position. Lamp F goes black and lamp R lights.



Signal with horn and make sure there are no obstacles at the way.

Push drain pedal. Move shifter 5 to the 1st gear, disengage parking-brake and smoothly release the pedal and start backward moving.

NOTES. You can increase backward speed by moving shifter to position 2, 3 or 4, or switching switch 2 to H position.

6 Stop procedure

Smoothly brake the tractor.

Push drain pedal and shift the shifter lever to the utmost back position (neutral with brake). Lamp T shall light.

Move switch 3 to position F (Lamp R goes off and lamp F lights up), pull up parking brake and release drain pedal.

7 Back axle engagement

The back axle is engaged with switch 4 moved to 4WD position. Lamp 2WD is off and lamp 4WD lights up.

NOTES. Contrary to other modes, the back axle can be engaged and disengaged when the tractor travels.

8 Engine stop

After tractor stops its travelling (i. 3), you can stop the engine.

To stop the engine, turn ignition key to TURNED OFF position.

9 Off normal engine start

When the engine suffers flame-out and lack (or absence) of air pressure in receiver cylinders, an off normal situation occurs when it becomes impossible to start up the engine (no neutral modes). In this case, start the engine in following manner.

Move shifter lever 5 to utmost back position (neutral mode with brake), push drain pedal and push button 6 (fig. 5) (located at the right side of the control post) and with depressed button turn ignition key to STARTER position.

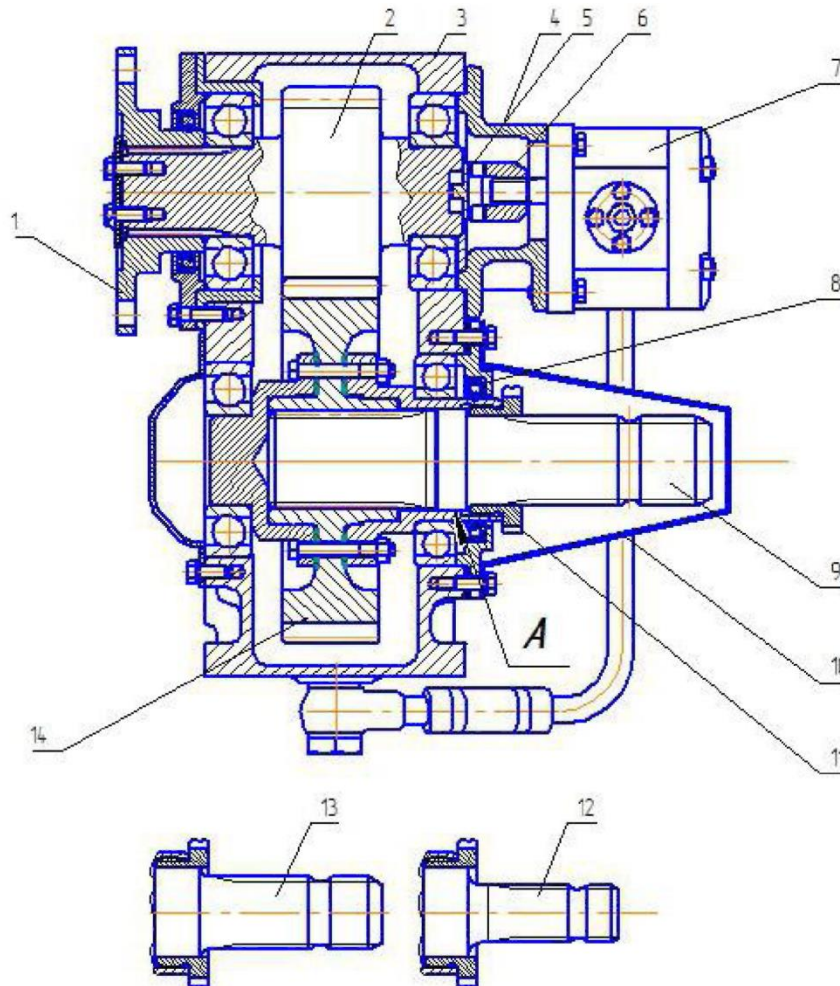
After the engine is started and the air pressure reached its rated value, move joystick 1 to position N.

Release drain pedal and perform actions according to required task.

PTO SHAFT REPLACEMENT

To replace PTO shaft, unscrew left-hand nut 11 (fig. 8) M68x3 LH and remove the shaft.

Put grease Litol 24 over internal splines and surface A of the new shaft and screw the nut with torque 20-25 kgf*m



Single-speed reducer	Shank characteristics PTO shaft		Shaft power, kW (hp)
744R-42 02 000-2	pos. 9	744R-42 02 036 (55mm,z=20,m=2.5)	250 (340)
744R-42 02 000-2-01	pos. 13	744R-42 02 037 (45mm,z=20,m=2.117)	185 (252)
744R-42 02 000-2-02	pos. 12	744R-42 02 038 (35mm,z=21,m=15875)	92 (125)

Fig. 8 Single-speed reducer

1 - flange; 2 - pinion gear shaft; 3 - PTO housing;
 4 - bracket; 5 - coupling; 6 - coupling; 7 - pump NSh6-G; 8 - cumulative; 9, 12, 13 - PTO shaft;
 10 - casing; 11 - nut; 14 - gear

REAR VIEW CAMERA

The rear view camera (fig. 9) is installed at the center of the roof at the back side. The information is displayed at the monitor located at the right side of the post. Camera switch button is located at the monitor.



Fig. 9 Location of the rear view camera

DRIVER'S SEAT

The cabin is equipped pneumatic spring-mounted driver's seat (fig. 10). The seat can be adjusted in longitudinal and vertical direction, it has back inclination and pad inclination.



Fig. 10 Driver's seat

- 1 - height adjustment;
- 2 - fixation clip for longitudinal movement (the seat is adjusted in longitudinal direction with the lifted up clip);
- 3 - seat back inclination handle;
- 4 - inclination handle for adjustment of back part of the pad by height;
- 5 - inclination handle for adjustment of front part of the pad by height;

PNEUMATIC SYSTEM



The pneumatic system has heads that operate trailer's brake with single and double wire drive.

If the trailer is operated by single wire brake, connect it to the black head, and if the trailer is operated by double wire brake, connect it to the red and black heads.