



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Belarus

Service Manual

T25A1

purchase full manual at

JENSALES.COM

or Call **800-443-0625**

JENSALES

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY **JENSALES INC.** WITHOUT THE AUTHORIZATION OF
BELARUS OR IT'S SUCCESSORS. **BELARUS** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

Service Manual

BE-S-T25A1

CLICK ANYWHERE FOR MORE DETAILS

GENERAL

The T25A1 universal wheeled tractor (Fig. 1) is powered by a Д-21A1 four-stroke, two-cylinder, air-cooled engine. Starting is effected by means of an electric starter controlled from the driver's seat.

The fuel injection pump is of the single-plunger type and has a mechanical all-speed governor.

The power transmission consists of the following units: clutch, coupling, reverser, gearbox, rear axle with differential and final drives to the rear wheels. The reverser, gearbox and rear axle are mounted in a common housing and form a unit called the main transmission.

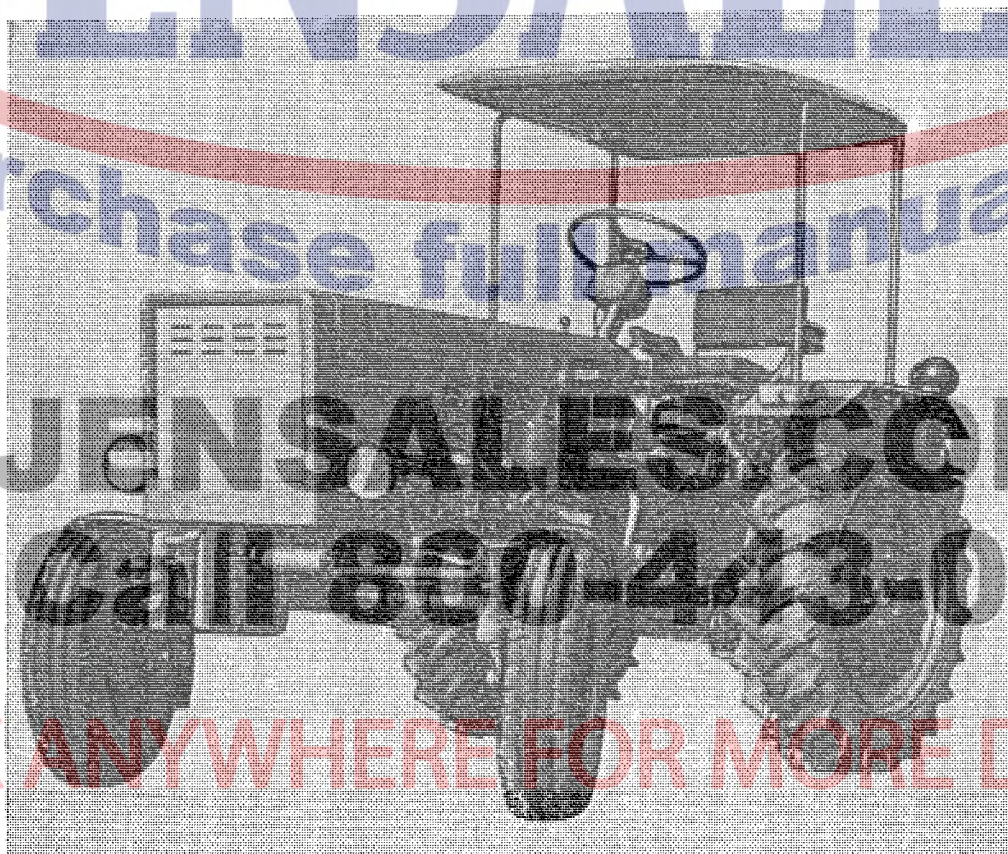


Fig. 1. Tractor T25A1

Version T25A1-C2 is designed mainly for general haulage and farming jobs. The size of the rear wheel tyres is 10—28". The wheels with such tyres can be set at the following track widths: 1208, 1310, 1378, 1480 *mm*.

The 10—28" tyres have a greater load capacity and permit of using heavier mounted machines and implements (loaders, sprayers, etc.).

SPECIFICATIONS

GENERAL

Type	universal, wheeled, reversing	
Model	T25A1	
Overall dimensions, <i>mm</i> :		
Length (with linkage)	3072—3282	
Width (tyres 9—32", track 1109 <i>mm</i>)	1370	
Width (tyres 10—28", track 1208 <i>mm</i>)	1467	
Height at hood, <i>mm</i> :		
Normal setting	1350	
Low setting	1200	
High setting	1420	
Wheelbase, <i>mm</i> :		
Normal setting	1778	
Low setting	1426—1840	
High setting	1638	
Track, <i>mm</i> :		
Front	1200—1400	
Rear, 9—32" tyres	1109—1501	
Rear, 10—28" tyres	1208—1480	
Design mass, <i>kg</i>	1600±50	
Ground clearance under brake sleeves, <i>mm</i> :		
Normal setting	Tyres 9—32" 587	Tyres 10—28" 572
Low setting	450	435
High setting	657	642
Design speed (at 1800 engine <i>rpm</i>), <i>km/hr</i> :		
Forward		
1st gear	6.4	
2nd gear	8.10	
3rd gear	9.40	
4th gear	11.90	
5th gear	14.90	
6th gear	21.90	
Reverse		
1st gear	6.4	
2nd gear	8.10	
3rd gear	9.4	
4th gear	11.90	
5th gear	14.90	
6th gear	21.90	
Forward creeper speed, 1st gear	1.79	
Forward creeper speed, 2nd gear	2.64	
Forward creeper speed at 900 engine <i>rpm</i> ,		
1st gear	0.90	
Design drawbar pull, <i>kgf</i> :		
1st gear	774	
2nd gear	576	
3rd gear	470	

CONTROLS

Clutch	Pedal
Doubler and reverser	Lever and gate
Gearbox	Lever and gate
Differential lock	Self-returning pedal
Steering	Screw-type steering gear and inclined steering column. Normal-sense steering wheel movement both forward and reverse
Brakes:	
Type	Band, floating
No. used	2 (one on each wheel)
Control	Two pedals (to right foot), controlled separately or latched together
Injection pump	Lever and pedal
Decompression	Lever
Driver's seat	Soft, single, spring-mounted with spring-rate adjustment
Canopy	Removable

RUNNING GEAR

Type	Wheels with low-pressure pneumatic tyres
Tyre size:	
Front	6—16"
Rear	9—32", 10—28" (to special order)

ELECTRICALS

Nominal voltage, V	12
Wiring	Single, negative earth return
Storage battery	3TCT-150ЭMC, 150 Ah
Alternator:	
Model	Г-304И1
Power, W	400
Alternator regulator:	
Model	PP-362Б
Type	Contact type, transistorized
Starter:	
Model	CT-222
Power, hp	2.7

HYDRAULIC SYSTEM

Pump:	
Type	НН-10ЕЛ, gear type, constant output
Drive	From flywheel through gear attached to clutch housing
On/off control	Lever on pump drive housing
Pump shaft speed, rpm	1760
Output at 1760 rpm, 0.9 l/min volumetric efficiency	15.75
Rotation (viewed from shaft end) ..	Counter-clockwise
Maximum working pressure, kgf/cm ² ..	100
Control valve	
Type	Spool type. Spools locked in neutral and working position, return automatically to neutral up and down motions

CLICK ANYWHERE FOR MORE DETAILS

CONTROLS AND INSTRUMENTS

The location of the main controls and instruments is shown in Figs 2, 3 and 3,a.

Control of fuel delivery is effected by means of throttle lever 10 (Fig. 2). Moving the lever up increases fuel delivery and engine speed.

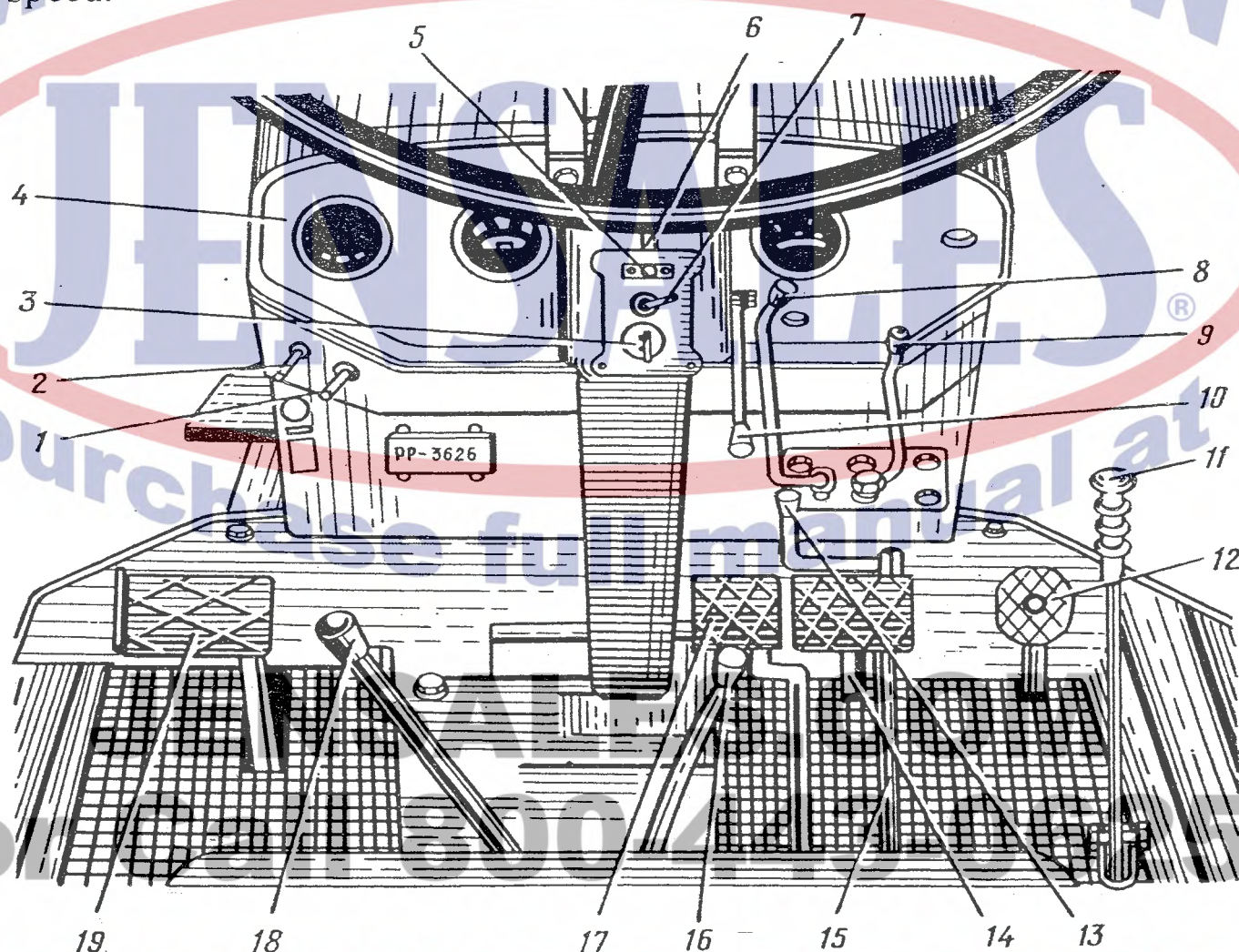


Fig. 2. Controls

1 — instrument panel, marker and head lamp switch; 2 — rear lamp switch; 3 — glow plug and starter switch; 4 — instrument panel; 5 — horn button; 6 — direction indicator switch; 7 — dip-switch; 8 — main cylinder control lever; 9 — remote cylinder control lever; 10 — throttle lever; 11 — trailer brake control lever; 12 — accelerator pedal; 13 — decompressor lever; 14 — brake latch; 15 — right brake pedal; 16 — reverser and doubler control lever; 17 — left brake pedal; 18 — gear lever; 19 — clutch pedal

The clutch is controlled by means of pedal 19. Depressing the pedal disengages the clutch, releasing the pedal engages the clutch.

The gearbox controls are: gear lever 18, reverser and doubler lever 16. The shifting positions are shown in Fig. 4 and on the instruction plate attached to the toolbox cover. The gear and reverser shifts can only be made with the clutch pedal fully depressed.

The brakes are controlled by means of right brake pedal 15, left brake pedal 17 and trailer brake lever 11 (Fig. 3). Hinged to the right brake pedal is latch 14 (Fig. 2). To operate the two brakes together, engage the latch pin in the left brake pedal lug.

The lock located on the floor at the left pedal serves for locking the brake pedals in the applied position to hold the tractor on slopes or when parked. To lock the pedals in the applied position, couple the pedals by means of latch 14, fully depress the brake pedals and turn the lock so that one of its teeth engages the pin welded to the left brake pedal. Then release the pedals.

To release the brakes, depress the pedals and the spring will return the lock into the initial position.

To apply the trailer brakes, pull lever 11 (Fig. 3) all the way back.

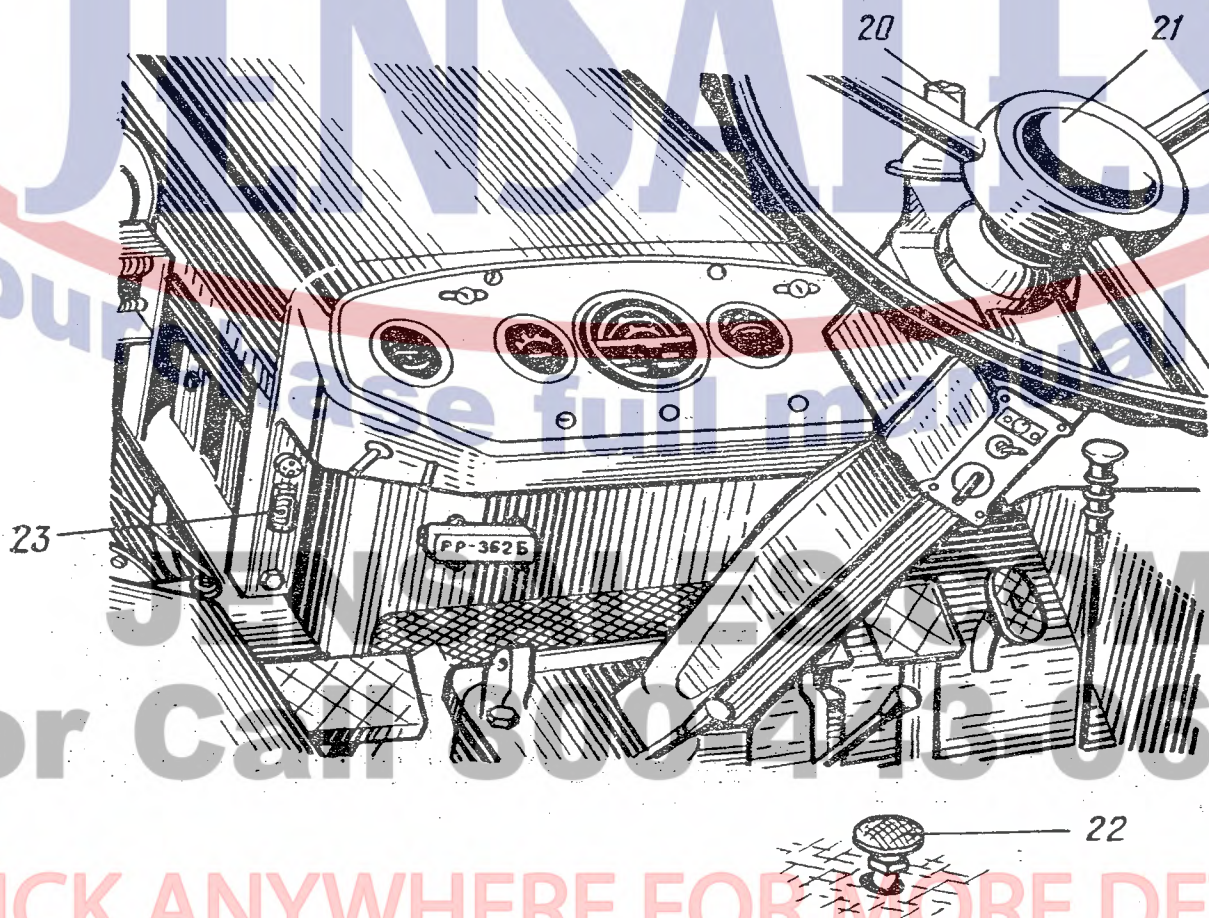


Fig. 3. Controls

20 — steering reverse gear shank; 21 — steering wheel; 22 — differential lock pedal; 23 — earth switch