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Zetor

Operator's Manual

5211, 5245, 6211,

6245, 7211, 7245,

7711 & 7745

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ZE-O-5211+

Make: Zetor	Model: 5211	Years Made: 1985-1992
HP-PTO: 42.51	HP-Engine:	HP-Drawbar: 38.4
HP-Range: 43	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 3/164.6	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 7.50-16	Tires-Std Rear: 14.9-28	Wheelbase-Inch: 83.6
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch: True
CAT II-3pt Hitch: True	CAT III-3pt Hitch: False	Hitch Lift: 3785
Hydraulics-Type: OPEN	Hyd-Cap: 20/8	Hyd-Flow: 2
Hyd Std Outlets: 10.75	Cooling Capacity: 14.5	Fuel Tank Capacity: OPT
Cab-Std/A/C; Rops:	Weight: 6000	New Price: 11550

Make: Zetor	Model: 5245 (4 Wheel Drive)	Years Made: 1985-1992
HP-PTO: 42.51	HP-Engine:	HP-Drawbar: 38.4
HP-Range:	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 3/164.6	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt: std
Tires-Std Front: 9.5-24	Tires-Std Rear: 16.9-28	Wheelbase-Inch: 82.6
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch:
CAT II-3pt Hitch:	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap: 20	Hyd-Flow: 8
Hyd Std Outlets: 2	Cooling Capacity: 10.75	Fuel Tank Capacity: 14.5
Cab-Std/A/C; Rops:	Weight: 7070	New Price: \$14,180

Make: Zetor	Model: 6211	Years Made: 1986-1992
HP-PTO: 53.09	HP-Engine:	HP-Drawbar: 47.4
HP-Range:	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4-210.9	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 7.5-16	Tires-Std Rear: 16.9-30	Wheelbase-Inch: 88.5
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch: 5300
CAT II-3pt Hitch: 5300	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap: 26.5	Hyd-Flow: 8
Hyd Std Outlets: 2	Cooling Capacity: 14.5	Fuel Tank Capacity: 18.5
Cab-Std/A/C; Rops:	Weight: 6,350	New Price: \$13,750

Make: Zetor	Model: 7211	Years Made: 1985-1989
HP-PTO: 70	HP-Engine:	HP-Drawbar:
HP-Range:	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/239	Transmission-STD: HI-LO	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt: STD
Tires-Std Front: 7.50-16	Tires-Std Rear: 16.9-30	Wheelbase-Inch: 88.9
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch: 5700
CAT II-3pt Hitch: 5700	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: Open	Hyd-Cap: 26.5	Hyd-Flow: 8
Hyd Std Outlets: 2	Cooling Capacity: 14.5	Fuel Tank Capacity: 18.5
Cab-Std/A/C; Rops: opt	Weight: 7,400	New Price: \$16,600

Make: Zetor	Model: 6245 (4 Wheel Drive)	Years Made: 1985-1992
HP-PTO: 53.09	HP-Engine:	HP-Drawbar: 47.4
HP-Range:	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/210.9	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt: STD
Tires-Std Front: 11.2-24	Tires-Std Rear: 16.9-30	Wheelbase-Inch: 87.8
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch: 5300
CAT II-3pt Hitch: 5300	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap: 26.5	Hyd-Flow: 8
Hyd Std Outlets: 2	Cooling Capacity: 14.5	Fuel Tank Capacity: 18.5
Cab-Std/A/C; Rops: OPT	Weight: 7,400	New Price: \$16,600

Make: Zetor	Model: 7245 (4 Wheel Drive)	Years Made: 1985-1989
HP-PTO: 58.58	HP-Engine:	HP-Drawbar: 52.5
HP-Range:	Engine-Make: ZETOR	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/219.4	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 10/2	Fwd/Rev Optional:	Mfwd-Std/Opt: STD
Tires-Std Front: 11-24	Tires-Std Rear: 14-34	Wheelbase-Inch: 87.8
Pto Type: IND	Pto Speed: 540/1000	CAT I-3pt Hitch: 5300
CAT II-3pt Hitch: 5300	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: Open	Hyd-Cap: 26.5	Hyd-Flow: 8
Hyd Std Outlets: 2	Cooling Capacity: 14.5	Fuel Tank Capacity: 18.5
Cab-Std/A/C; Rops: Opt	Weight: 7,400	New Price: \$16,750

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Models

Z 5211

Z 5245

Z 6211

Z 6245

Z 7211

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Z 7711

Z 7745



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Figure 4. Warning lights cluster: 1) high beam, 2) fuel level, 3) oil pressure, 4) rear worklight, 5) battery, 6) hand brake, 7) engine hour counter, 8) PTO shaft rpm, 9) road speed in km/h -- kilometers per hour.

Note: With the engine running, the ignition key is in the switch box interlocked in the position "1". The steering mechanism can be locked up only when the engine has been stopped and the pilot lamp for lubrication is flashing. In this very moment, the ignition key could be turned in the switch box to the position "STOP" and pulled out. When repeating the engine start, it is necessary to wait until the pilot lamp is flashing, the ignition key has to be turned from the position "1" to the position "0", and the again to be turned to the position "2", "START".

Important Warning:

1. Never use force when turning the ignition key from the position "1".
2. During an emergency pulling off of the tractor, the ignition key must be in the steering locking device in the position "1". When the storage battery is not connected, the ignition key is in the position "1" interlocked and it is impossible to turn it into the position "STOP" and to pull it out. Therefore it has to be turned solely into the position "0".

4. Warning Lights Cluster

Shown in figure 4, contains the following indicators:

1. High-beam lights, for distance (blue).
2. Fuel level, at low mark (orange).
3. Oil Pressure (red) at idling rpm.

Note: Light switches OFF when oil pressure reaches 8.5 to 17 psi. At idle, pressure should be 7 psi. At normal operating speed, 28 to 70 psi.

4. Rear work light (yellow).
5. Battery, red when discharging.
6. Handbrake, red when set.

The engine hour counter is item 7 in figure 4 (refer to Paragraph 3, point 3). The PTO shaft rpm indicator scales are shown as 8, and the speedometer scale (in kph) is at 9.

5. Fuse Box

The fuse box, fitted to a bracket, is located on the right-hand side under the dashboard, protected by a cover held in place by four quick-release bolts. The fuse box is of the 8-pole type. Fuses are of 15-amperes (see figure 5).

Tractors fitted with a cabin have three additional 15-ampere fuses (see figure 6).

The location of the **voltage regulator** is shown in figure 5, item 9.

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the lifetime of the clutch lining. The only time adjustments will be necessary is if free-play should develop between the three levers and the bearing of the releasing sleeve. If the play between any of the levers and the bearing is more than 0.006 inch, readjust the lever by turning the nut (figure 47, item 1), so that the levers and the bearing come into contact.

A slipping clutch causes abnormal wear of the clutch plate lining. After replacing the plate, adjust the clearance by turning the nut (item 1) to a distance of 1 inch, measured from the recess in the clutch shield. When making this adjustment, the engine is still separated from the gearbox. The adjusted levers may have a tolerance of no more than 0.006 inch.

The clutch action should be checked again after assembling the gearbox to the engine: press the clutch pedal five times fully to the floor, then, with the clutch pressed down about six inches, adjust the shift lever of the small brake by means of the adjusting nut (item 1) for a clearance of 0.06 in. from the stop on the bracket of the disengaging cylinder. Tighten the nuts against each other in order to ensure they will hold when the tractor is operated.

Note: If necessary, the hydraulic clutch disengaging system should be bled in the same manner as the brake system. The **bleed screw** is located on the clutch disengage cylinder.

15. Power Assisted Steering

Refer to figures 42 and 51.

The power-assisted steering pump is located at the front left side of the engine (see figure 42, item 3, and figure 51, item 1).

For servicing, do not start up the engine. Remove the wire spring-ring and the rubber cover of the knuckle pin. Apply a coating of grease to the cylinder head, and then turn the steering wheel several times in both directions in order to spread the grease evenly. Wipe off excess grease, then replace the rubber cover to the knuckle pin, and fasten it in place.

16. Front Wheel Taper Roller Bearings

Note: The following adjustments apply to tractors without front-wheel-drive axles:



Figure 48a. Model Z 5245 front axle hub oil filler (1) and oil level (2) plugs.



Figure 48. Axle bearing cover (1) on rear wheel drive models only.



Figure 48b. Models Z 6245, Z 7245 and Z 7745 hub oil filler (1) and oil level (2) plugs.

Figure 48a shows the front wheel hub of tractor Model Z 5245. Oil filling is done by removing the filler plug (item 1) and the oil level hole plug (item 2). Fill to level hole, then replace the plugs.

Figure 48b shows the front wheel hub of tractor Models Z 6245, Z 7245 and Z 7745. The oil filler hole (item 1) and oil level hole (item 2) are illustrated.

Note: Filler plug must be at the 12 o'clock position. DO NOT OVER FILL.

Table 21. TECHNICAL SPECIFICATIONS

TRACTOR Z 7711

DESIGNATION NUMBER	1	2	3	4	5	6	7
Tires used:	front 6.50-16 rear 16.9-28	6.50-16 12.4-36	7.50-16 16.9-28	7.50-16 16.9-30	7.50-16 12.4-36	7.50-20 13.6-36	7.50-20 16.9-34
Dimensions (in inches)							
Overall length, without implement hitch	139.0	139.6	139.0	139.8	139.6	140.5	141.9
Overall length, with implement hitch				148.8			
Overall width, at rear wheel track - 56.1 in.	71.5	70.9	71.5	72.5	70.9	70.9	73.0
Height, to the upper rim of the steering wheel	71.7	72.0	72.0	72.8	72.4	73.9	74.8
Height, to the top of the exhaust pipe (max. tractor height)							
with cabin	104.8	104.9	105.5	105.8	105.6	107.5	107.9
without cabin	92.9	93.1	93.7	94.0	93.8	95.7	96.1
Height to the top of the cabin	102.2	102.8	102.1	103.5	102.7	103.8	105.3
Clearance height, without implement hitch under front axle beam	19.4	19.4	20.3	20.3	20.3	22.5	22.5
with implement hitch under swinging drawbar in the lowest position	15.4	16.1	15.1	16.7	15.7	16.7	18.4
Height of the swinging drawbar (to the lower inner surface of the fork)	16.9	17.6	16.7	18.3	17.3	18.2	20.0
Height of the PTO shaft	27.6	28.2	27.5	28.9	28.1	29.2	30.7
Front wheel track		(adjustable width) 57.3; 66.1; 72.0 57.3			(adjustable width) 56.3; 65.2; 71.1 56.3		
Rear wheel track, adjustable in 3 in. increments	56.1-70.9	53.1-70.9	56.1-70.9	53.1-70.9	53.1-70.9	59.1-70.9	
standard track				56.1			
Wheelbase				88.9			
Turning circle, with one side brake applied (inches)				279.5 + 19.7			
Weight (lbs)							
max. weight of ballast							
front				353			
rear				595			
Weight of water in rear tires	2x475	2x350	2x475	2x530	2x350	2x400	2x550
Tractor weight (lbs) (fully serviced, less ballast and operator, with cabin)							
total	6380	6360	6390	6500	6370	6460	6680
at front axle	2150	2150	2160	2160	2160	2160	2160
at rear axle	4230	4210	4230	4340	4210	4300	4520
Tractor weight, without cabin							
Deduct from total				— 660			
Deduct from front axle				— 165			
Deduct from rear axle				— 495			
Maximum Permissible Load on Axles (lbs)							
Front swinging unsprung axle							
Track 56.3 in. heavy adapters, at max. speed of 15.5 mph		3230		3920		4620	
12.5 mph		3660		4430		5200	
5.0 mph		5420*		6570*		6610*	
*inflated pressure 55 psi				*inflated pressure 50 psi		*inflated pressure 50 psi	
Rear axle							
Track 56.1 at max. speed of 15.5 mph	8800	6780	8800	8800	6780	7600	8800
12.5 mph	8300	7600	8800	8800	7600	8510	8800
5.0 mph	8800	8800	8800	8800	8800	8800	8800
Lifting Force (lbs) at ball joints of three-point hitch, lower links (guaranteed in the whole range)				5300			

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