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MANUAL PREVIEW

Belarus Operator's Manual 611 Diesel

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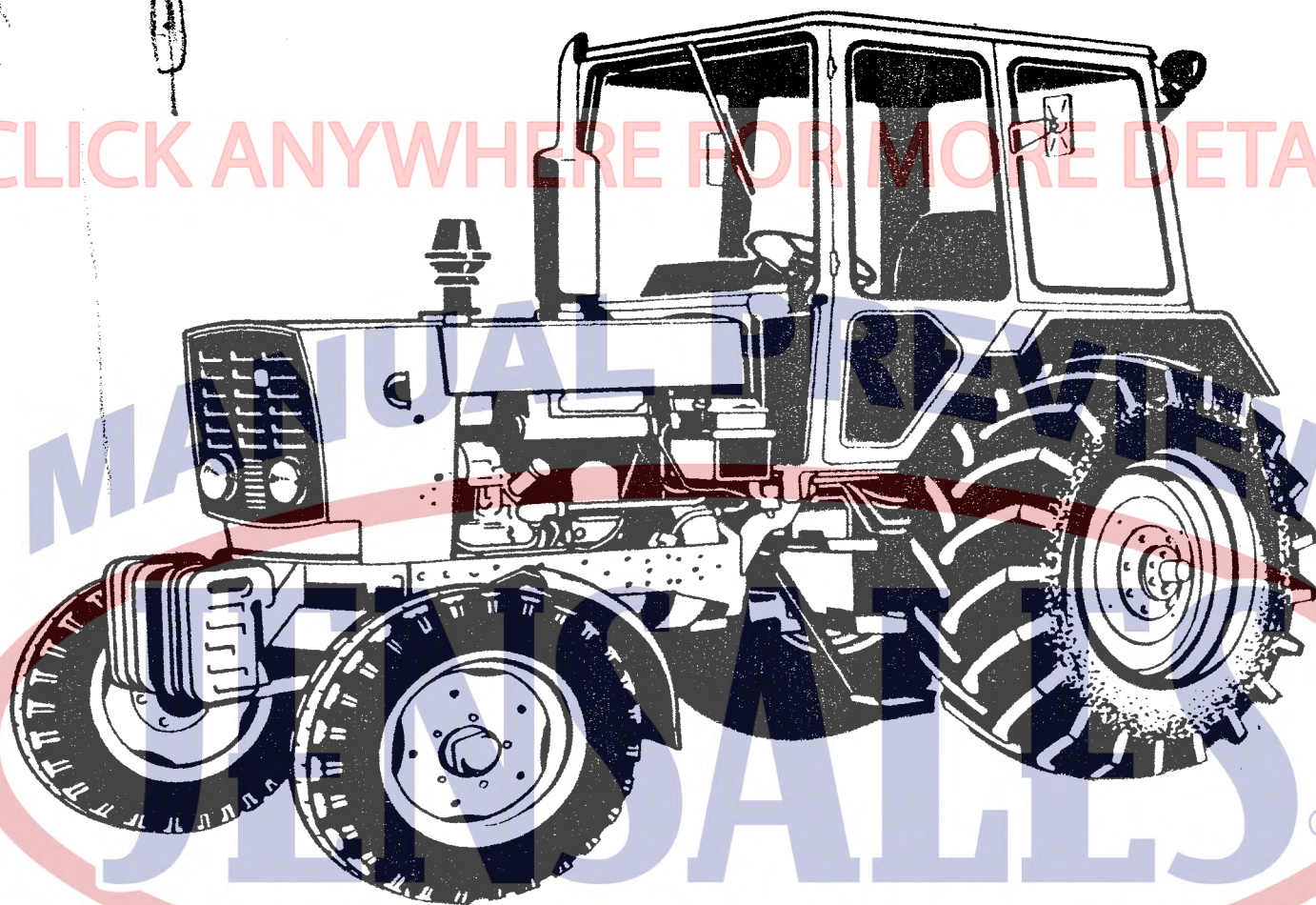


Fig. 1. Tractor "Belarus-611"

The tractor wheels are fitted with low-pressure pneumatic tyres. The tractor is equipped with a unitized hydraulic system consisting of an oil pump, oil tank, hydraulic control valve unit, double-action power cylinder, draft and position control unit and a mounting linkage.

The swinging hitch of a rigid type is adjustable in height and in a horizontal plane.

The tractor is equipped with a mechanical weight transfer mechanism of the rear wheels, which contributes to a more effective operation of the tractor in conjunction with the farm machines and implements.

The tractor is also provided with a control system for operating the brakes of trailers used for transportation purposes.

For driving stationary farm machines, the tractor may be completed with a drive pulley which is mounted on the rear wall of the power transmission casing. The pulley is driven from the power take-off shaft.

The cab of a frame closed type is provided with three opening windows. The opening frame of the cab rear wall provides additional conveniences in operation with the mounted and trailed farm machines.

Both cab doors are provided with locks and devices for holding the doors in the open position.

The cab is equipped with a seat having a lap safety belt, heater, electric windshield wiper and windshield washer, hand-operated rear window wiper, rear-view mirrors, a fan, thermos flask, case for the first-aid kit, radio set, sun visor and an ash tray.

Positioned just in front of the seat is the steering wheel and the tractor control levers and pedals. The steering gear is provided with a hydraulic booster which reduces the effort to be applied to the steering wheel.

SPECIFICATIONS

Type	wheeled, multi-purpose
Drawbar class	1.4 t
Model	"Belarus-611" KM3-6AM
Overall dimensions, mm:	
length (with mounting linkage and hitch)	4200
height:	
over muffler	2860
over facing	1600
over cab	2660
width (over protruding ends of rear axle shafts)	1884
Tractor wheel base, mm	2450
Track adjustable within:	
front wheels	1360—1860 mm with a step of 100 mm
rear wheels	1400—1800 mm, stepless
Ground clearance, mm:	
under front axle and axle shaft sleeves	645±5
under rear axle	450±5
Minimum turning radius by the middle of outer front wheel track (at a tractor track width as set by the Manufacturer before shipment) and with inner rear wheel braked, m	5
Mass of tractor, kg:	
structural	3429±3%
shipped	4120±3%
Maximum mass of towed trailer (on surfaced and earth roads), t	6

Speeds and Traction Forces (rated)

Travelling speeds, km/h:	with reduction gear	without reduction gear
first gear	2.1	7.6
second gear	2.5	9.0
third gear	3.1	11.1
fourth gear	5.3	19.0
fifth gear	6.8	24.5
reverse gear	1.58	5.7
Traction forces, kgf:		
first gear	1400	1400
second gear	1400	1250

Tyre inflation pressure, kgf/cm²:

front wheels 1.4—2.5

rear wheels 1.0—1.7

Front axle telescopic tubular beam, with steering linkage in back of axle and with prelubricated hinge joints

Steering mechanism mechanical, with hydraulic booster

Hydraulic System

Type unitized

Pump type HШ-32УЛ, left-hand

Pump drive from diesel engine camshaft gears through coupling

Pump capacity, l/min 45 (minimum)

Pressure at which automatic units operate, kgf/cm² 140—10

Maximum pressure (pressure at which safety valve operates), kgf/cm² 160—10

Hydraulic control valve unit P75—33P

Type of cylinders double-acting, with hydro-mechanical adjustment of piston stroke

Number of cylinders:

main 1

remote 2

Bore, mm:

main 100

remote 75

Piston stroke, mm up to 200

Mechanism for mounting farm implements

hinged, four-rod linkage at three points

Attachment of farm implements

Lifting capacity of hydraulic system 800 kg, at height of center of gravity relative to axis of rear wheels not exceeding 1500 mm

Electrical Equipment

Wiring system single-wire, with ground-return minus

Rated voltage in mains, V 12

Alternator 13.3701

Storage battery 3CT-2153P, 6 V, two batteries connected in series

Starter CT212PI, series-sound, rated power 4.5 hp, equipped with interlock relay PE1, solenoid switch PC502 and switch BK-317A2

Instruments and Gauges

Ammeter type АП-200, to indicate battery discharge current

Fuel level gauge type УБ 26-В, with pickup БМ-31А

Water temperature gauge type УК-133, with semiconductor pickup ТМ-100

Diesel engine lubrication system

pressure gauge type МД-219

Tachospeedometer type ТХ-118

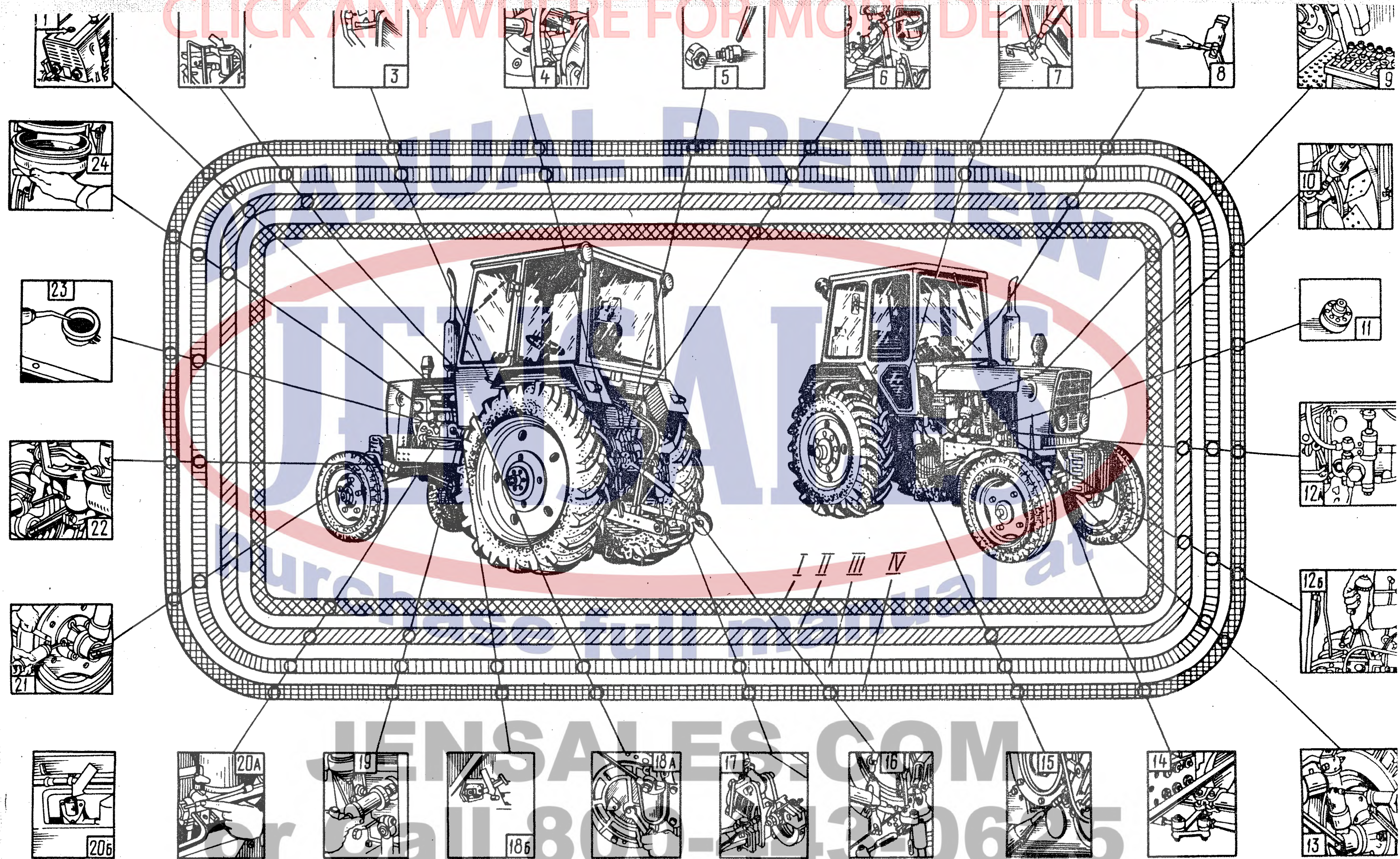


Fig. 2. Lubrication and Filling Chart:

I — daily; II — Maintenance No. 1 (every 60 operating hours); III — Maintenance No. 2 (every 240 operating hours); IV — Maintenance No. 3 (every 960 operating hours)

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Continued

Ref. No. in lub. and filling chart (Fig. 2)	Lubrication and filling points	Name and grade of lubricating materials and fluids		Number of lub. points and capaci- ty, l	Remarks
		Lubrication and filling in service period at temperatures			
		form -40 to +5 °C	form +5 to +50 °C		
5	Transmission casing breather	Transmission oils T3n-15 Engine oil ACP-10y Transmission oil TCn-14	TA n-15B	Same, as in ser- vice period	1 Wash the pack- ing and wet it with oil
19	Clutch release bearing	Synthetic cup grease Universal medium melting-point grease (fat cup grease)*: YC-2	YC-1	Ditto	1 Make 5—8 stro- kes with grease gun®
2	Oil tank of hydraulic system	Engine oil M-8B ₁ M-8B ₂ (AC-8)	M-10B ₂	Dittc	1x27.5
18	Transmission casing	Transmission oils T3n-15 Engine oil ACP-10y Transmission oil TCn-14	TA n-15B	Ditto	1x50
15	Axle of brake pedals	Synthetic cup grease Universal medium melting-point grease (fat cup grease)*: YC-2	YC-1	Ditto	1 Force grease until it shows up from clear- ances
8	Steering gear universal joint	Synthetic cup grease Universal medium melting-point grease (fat cup grease)*: YC-2	YC-1	Ditto	2 Ditto

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