

## INTRODUCTION

This Manual provides the description of the design and contains the basic technical data and rules of operation and maintenance of agricultural power-intensive wheeled tractors BELARUS-1523/1523.3 and BELARUS -1523B/1523B.3 (reversible modified version).

**Belarus 1523 tractor** is designed in the 4x4 wheel arrangement and can be used for performing various agricultural works and transport operations with mounted, semi-mounted, and trailer-type farm machinery and implements attached, for transporting cargoes and with cargo handling facilities and harvesting machinery complexes as well as for driving stationary farm machines.

**Belarus 1523B tractor** of a reversible version is designed for a long-term operation in the reversal and notable for a reversal control post comprising an additional steering column, duplicated clutch, brake, and fuel supply controls as well as with a rotatable operator's seat for working in both forward and reverse movement.




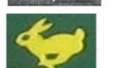



















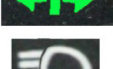




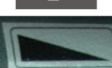






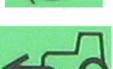

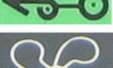








**Belarus 1523.2\* and Belarus 1523B.2\* tractors:** a modified version of the basic model BELARUS-1523 and BELARUS-1523B equipped with the Д-260.1S2 engine certified according to the TIER-2.

### **Abbreviations and Conventional Symbols Used**

ADL	–	Automatic Differential Lock-up System	АБД
DTC	–	(Engine) Turbocharger	ТКР
FDA	–	Front Driving Axle	ПВМ
FFA	–	Fine Fuel Filter	ФТО
FPTO	–	Front Power Take-Off	ПВОМ
GB	–	Speed Gearbox	КП
HDC	–	Haul-and-Draw Coupler	ТСУ
HLL	–	Hydraulic Lift Linkage	ГНС
HPH	–	Hugh-Pressure Hose	РВД
HSCU	–	Hydrostatic Steering Control Unit	ГОРУ
IMS	–	Inter-Shift Maintenance	ЕТО
IVR	–	Integral Voltage Regulator	ИРН
MS	–	Maintenance	ТО
MTA	–	Machine-and-Tractor Aggregate	МТА
PTO	–	Power Take-off Shaft	ВОМ
P.T.U.	–	Power Take-Up Shaft	ВПМ
PFE	–	Paper Filter Element	БФЭ
RA DL	–	Rear Axle Differential Lock-up	БД ЗМ
RHL	–	Rear Hitch Linkage	ЗНУ
SB	–	Storage Batteries	АКБ
SPTA	–	Spare Parts, Tools and Accessories	ЗИП
TC	–	Transmission Clutch	МС
TDC	–	Top Dead Centre	ВМТ
UCS	–	Universal Control System for farm machinery	УСК

## INTERNATIONAL SYMBOLS

The manufacturer uses standard international symbols pertinent to the use of instruments and controls, as follows.

	- refer to manual		- control manipulation
	- brake		- fast
	- parking brake		- slow
	- horn		- forward
	- fault signaling		- backward
	- fuel		- storage battery charging
	- cooling liquid,		- cab dom light
	- coolant		- marker lamps
	- engine start-up devices		- turn signal
	- engine rpm		- trailer turn signal
	- oil pressure in engine		- high beam
	- engine coolant temperature		- low beam
	- off/stop		- work floodlights
	- on/start		- differential lock-up
	- gradual change		- PTO shaft-engaged
	- lever-downwards		- front driving axle engaged
	- lever-upwards		- PTO
	- «lift» position of the distributor slide valve		- fan
	- «drop» position of the distributor slide valve		- windscreen washer
	- «float» position of the distributor slide valve		- front screen wiper
	- oil pressure in the transmission gearbox		- rear screen wiper
	- air pressure in the pneumatic system		- oil pressure in the hydrostatic steering control
	- braking of the gearbox		- level of braking liquid in the main cylinder reservoirs