

WORKSHOP MANUAL KUBOTA TRACTOR

B4200 (RC44-42)



TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractor B4200. It is divided into two parts, "Mechanism" and "Disassembling and Servicing".

■ Mechanism

Information on the construction and function are included in this section. This part should be understood before proceeding with trouble-shooting, disassembling and servicing.

lacksquare Disassembling and servicing lacksquare

The heading "General" includes general precautions, check and maintenance and special tools. For each tractor section, there are "Trouble-shooting", "Servicing Specifications", "Checking and Adjusting", "Disassembling and Assembling", and "Servicing" which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

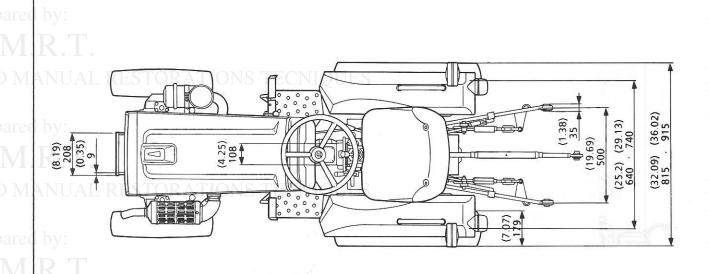
December '86

SPECIFICATIONS

Model ALRESIORAIIONS IEC			NIOUES B4200 4WD							
P.T.O. power			7.5 kW (10.0 HP)							
Engine gross	H.P.	STREET, AA LOUI TAL-	9.3 kW (12.5 HP)							
	Model			Z600-A						
	Туре		Vertical, water-cooled, 4-cycle diesel							
	Number of cylinders		2							
	Bore and stroke		72 mm x 70 mm (2.76 in. x 2.83 in.)							
	Total displacement		NIQUES 570 cm ³ (34.8 cu. in.)							
	Rated revolution		43.3 r/s (2600 rpm)							
	Maximum torque (NET)		34.91 N·m, 3.56 kgf-m, 25.75 ft-lb/2000rpm							
	Combustion chamber		Spherical type							
	Fuel injection pump		Boshch K type mini pump (NP-PFR2KD50/2NP3)							
	Governor		Centrifugal Ball Mechanical Governor							
	Injection no:	zzle	Throttle type (ND-DN 12SD12)							
[ANUA]	Injection timing A I I ONS I EX		NIQUES 0.37 to 0.40 rad. (21 to 23 deg.) before TDC							
Engine	Injection order		1-2							
	Injection pressure		13.73 to 14.71 MPa (140 to 150 kgf/cm², 1991 to 2133 psi)							
	Compression ratio		22							
	Lubricating		Forced Lubrication by Rotor-type Pump							
	Cooling syste		Water with pressurized radiator							
			Electric starting with cell starter (12V, 0.8kW),							
	Starting system ATIONS TEC			glow plug and decompression device						
	AC dynamo		14V, 10.4 Amps							
	Battery		12V, 35Ah							
	Fuel		Diesel fuel No. 2-D, No. 1 diesel fuel [below-10°C (15°F)]							
	Lubricating oil		MIL-L-46152 or MIL-L-2104C, API service CC or CD							
	Weight (Dry)		82.3 kg (181.4 lbs)							
			8ℓ (8.5 U.S.qts., 7.04 lmp. qts.)							
	Fuel tank		2.3 <i>l</i> (2.4 U.S.qts., 7.04 Imp. qts.)							
	Engine crankcase		31 (3.2 U.S.qts., 2.64 lmp. qts.)							
	Engine coolant		8.51 (9.0 U.S.qts., 7.48 lmp. qts.)							
Capacities	Transmission case		0.2 l (0.2 U.S.qts., 0.18 lmp. qts.)							
	Steering gear box		0.5½ (0.5 U.S.qts., 0.18 lmp. qts.)							
	Front axle di			U.S.qts., 0.132 lmp. qts.)						
.17.1	Front axle ca	156								
Tires	Front	RATIONS TEC	Farm 4.50-10	Turf 20 x 8.00 - 10						
THE PARTY OF THE P	Rear		7-16	212/80D-15						
	Overall leng	th mm (in.)	2215 (87.20)	2210 (87.01)						
			840 (33.07)	36 Brassey, protestal fundament						
	Overall width mm (in.)		915 (36.02)	1010 (39.76)						
			980 (38.58)							
	Overall heig	ht with muffler mm (in.)	1120 (44.09)	1110 (43.70)						
Dimensions	Wheel base mm (in.)		1230 (48.43)	1230 (48.43)						
	Minimum ground clearance mm (in.)		220 (8.66)	210 (8.27)						
		Front mm (in.)	685 (26.97)	785 (30.91)						
		Rear mm (in.)	640 (25.20)							
	Treads		740 (29.13)	720 (28.35)						
		13000 million	805 (31.69)	223 CHARL (\$40,000 C) (\$40,000 C) (\$40,000 C)						
\\\aim\b + 1 /11	<u>-</u>		420 (926)	430 (948)						
Weight kg (lbs) P.T.O. shaft Rear P.T.O. Mid P.T.O. Clutch Steering Transmission				, Mid P.T.O.) and engine front (Front P.T.C						
			SAE 1-3/8, 2 speeds (540 and 860 rpm at 2350 engine rpm) 2563 rpm Dry single plate Ball screw type Gear shift, 6 forward and 2 reverse 1.9 (6.2)							
							ning radius m	(feet)	1	1.9 (0.2)

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DIMENSIONS



ANUAL RESTORATIONS TECNIQUES

OLD MANUAL RESTORATIONS TECNIQUES

(1.85) (3.98) (17.32) (27.56) (440 ~ 700)

Prepared by:

O.M.R.T.

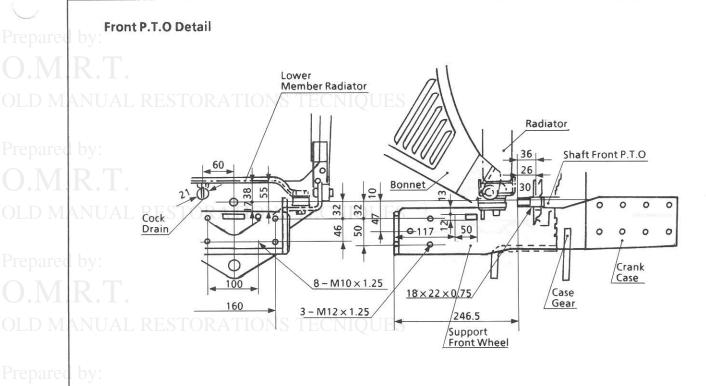
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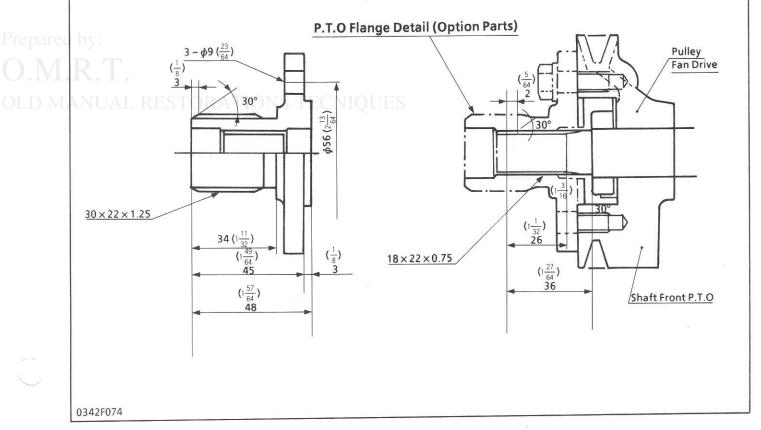
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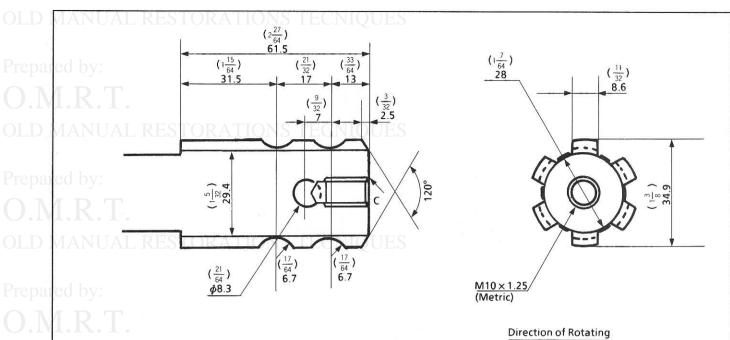


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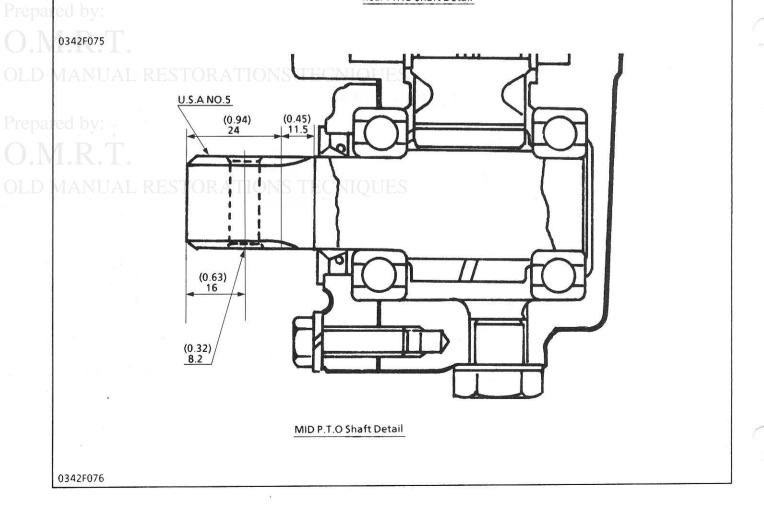
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MANUAL RESTORATIONS TECNIQUES

Rear P.T.O Shaft Detail

Clockwise from Rear



O.M.R.T.

LD MANUAL RESTORATIONS TECNIQUES

MECHANISM

Repared by: O.M.R.T.

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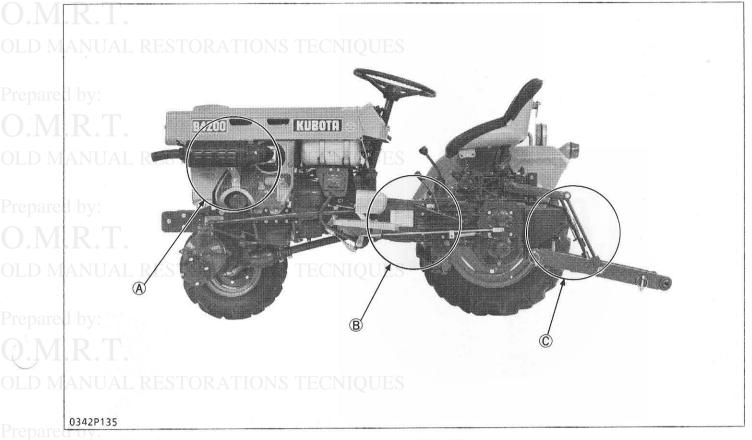
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F FEATURES TECNIQUES

THE KUBOTA B4200 IS AN EXCEPTIONALLY COMPACT DIESEL TRACTOR WITH MID-PTO THAT PERFORMS A VARIETY OF JOBS WITH REMARKABLE OPERATING ECONOMY.



[A] ENGINE

AN EXCEPTIONAL DESIGN

The B4200's four-cycle, 2-cylinder, 12.5 HP engine has been designed to provide exceptionally high torque rise.

POWER-TO-WEIGHT RATIO

The B4200 proves that you don't have to own a large tractor to handle really rugged jobs. The result is greater efficiency and economy.

AIR CLEANER

A large capacity, dry-type air cleaner also helps extend the durability and life of engine parts.

[B] TRANSMISSION

PERFORMANCE DESIGN

The B4200's transmission offers a wide selection of six forward and two reverse speeds for versatile performance.

MAIN SHIFT LEVER

The B4200's main shift lever positions First and Reverse are in a straight line, permitting quick, efficient forward / reverse directional changes.

MID PTO

With the engine running at 2600 rpm. the B4200's mid PTO speed is 2563 rpm.

MID-MOUNT MOWER MOUNTING

The KUBOTA RC44-42 mid-mount mower can be mounted on the B4200 simultaneously with the front loader.

DIRECT SHAFT DRIVE

Power to the mower is transferred from the mid-PTO via a universal joint, bevel gears and pinion gears. This gives you smoother and more direct power transfer in addition to greatly reducing the maintenance worries and repair downtime common to the belt system used by many conventional mowers.

[C] REAR PTO & 3P-LINKAGE

TWO SPEED REAR PTO

The B4200's two speed rear 10 HP PTO operates at 540 / 860 rpm. at 2350 engine rpm.

THREE POINT LINKAGE

The B4200's 3-point linkage permits fast mounting and dismounting of implements, while keeping them precisely positioned during operation.



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