YANMAR

TECHNICAL MANUAL

Ke-20T

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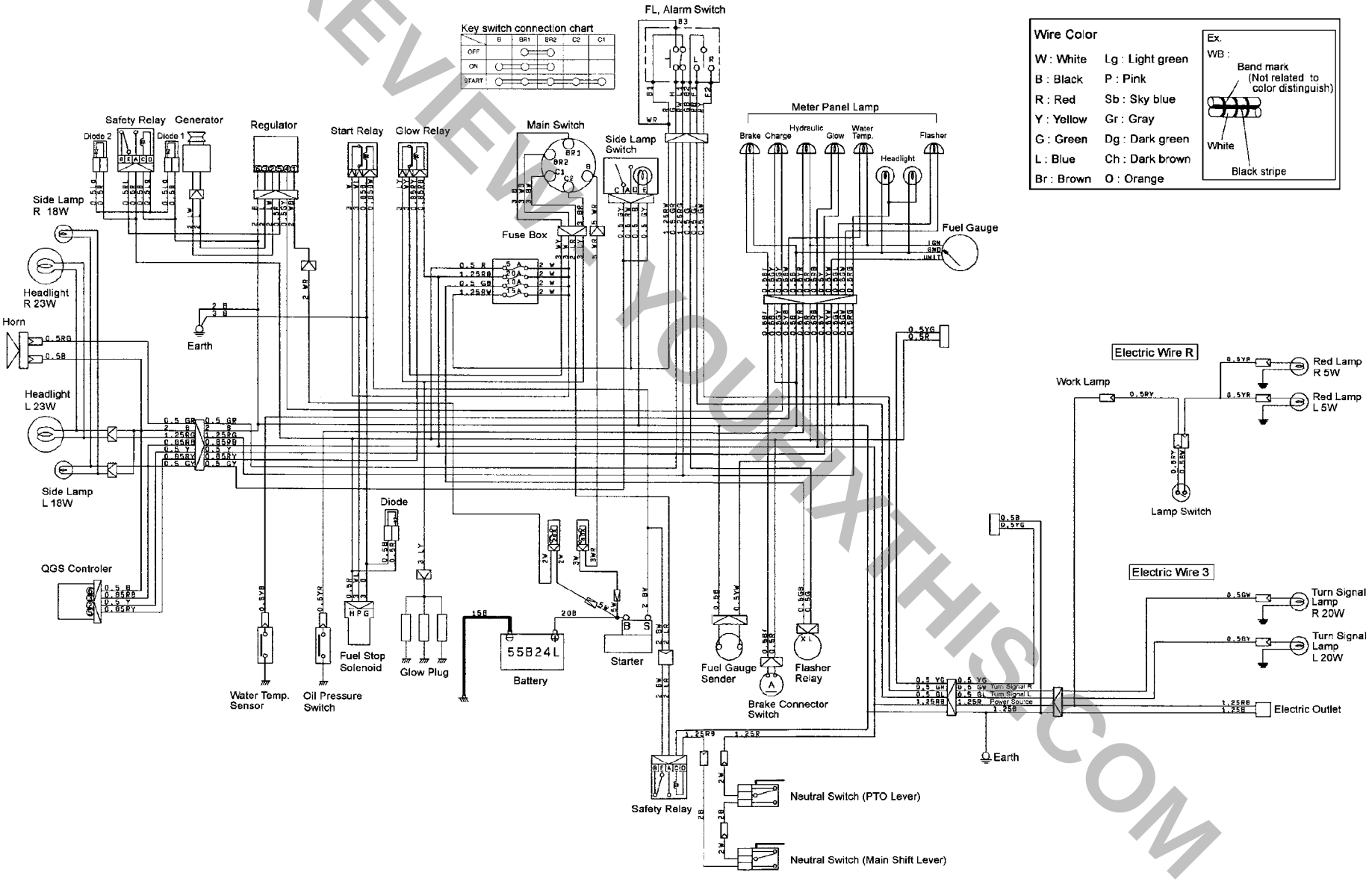
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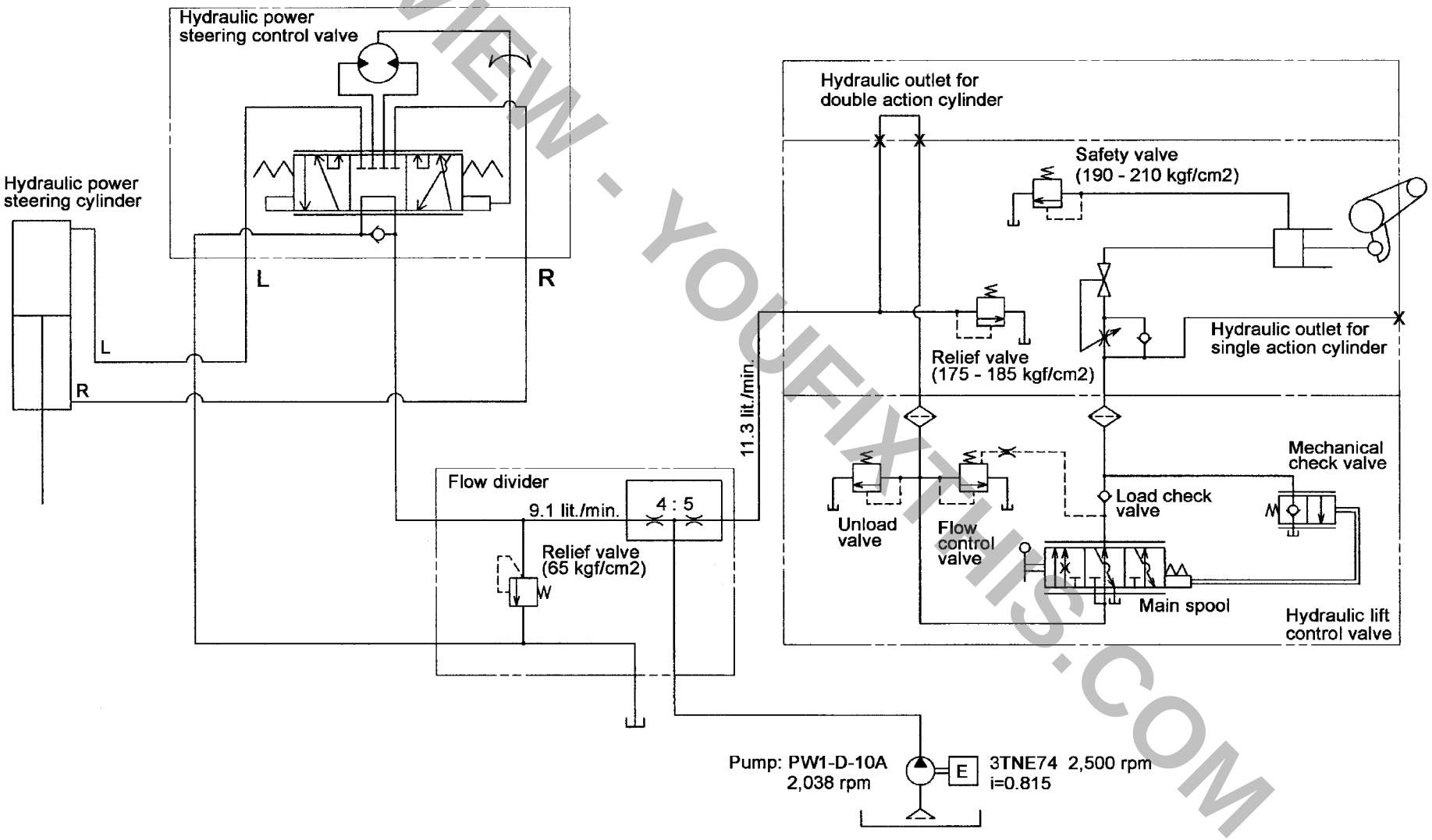
KE-20T ELECTRIC CIRCUIT



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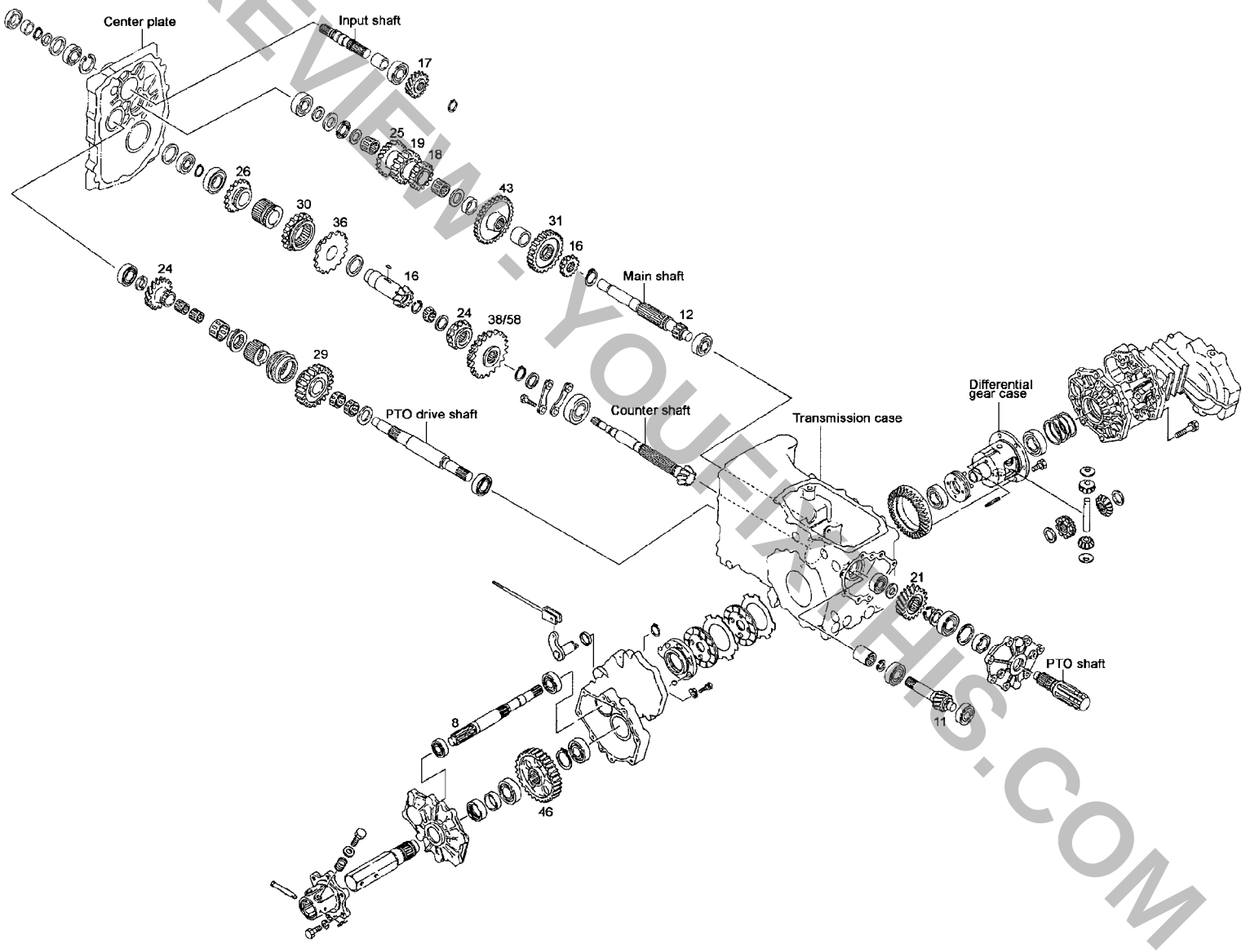
KE-20T HYDRAULIC CIRCUIT



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KE-20T TRANSMISSION EXPLODED VIEW



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Screw tightening torque table

Each item has a prescribed torque for specific bolts.
Refer to the chart below.

(kg·cm)

Item	Screw diameter × pitch	Tightening torque	Note
Hexagon cap screw (7T) and nut	M6 × 1	110 ± 10	1) 80% of the specified torque when the tightening-side is made of aluminum 2) 60% of the specified torque for a 4T bolt and lock nut
	M8 × 1.25	260 ± 30	
	M10 × 1.5	500 ± 50	
	M12 × 1.75	900 ± 100	
PT plug	1/8	100	
	1/4	200	
	3/8	300	
	1/2	600	
Pipe joint bolt	M8	150 ± 20	
	M12	300 ± 50	
	M14	450 ± 50	
	M16	550 ± 50	

Tighten bolts other than the bolts specified above according to the following chart. Recently, to better manage the factory line, in some cases, all bolts are 7T bolts. If so, and the part is aluminum, and a rubber-attached bolt is used along with a rubber packing, tighten the bolts in accordance with the specifications of 4T bolts shown in the chart.

(kg·cm)

Screw diameter × pitch	YIS standards	
	7T	4T
M6 × 1	110 ± 10	60 ± 10
M8 × 1.25	260 ± 30	150 ± 20
M10 × 1.5	500 ± 50	300 ± 50
M12 × 1.75	900 ± 100	525 ± 75
M14 × 1.5	1400 ± 150	775 ± 75
M16 × 1.5	2300 ± 150	1250 ± 150

List of oil and water supply

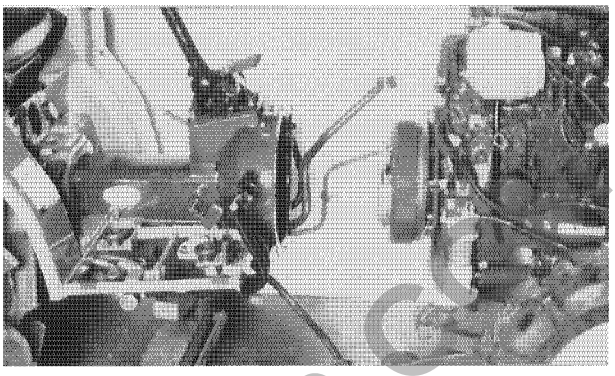
		Ke-20T (liter)	Type
Fuel		13.0	Yanmar heavy oil, diesel light oil
Cooling-water	Radiator	3.0	Fresh water, Yanmar antifreeze
	Recovery tank	0.4	Fresh water, Yanmar antifreeze
Engine oil		2.2	Yanmar super oil
Transmission oil		7.0	TF-500 transmission
Front axle oil		2.4	Gear oil EP#90

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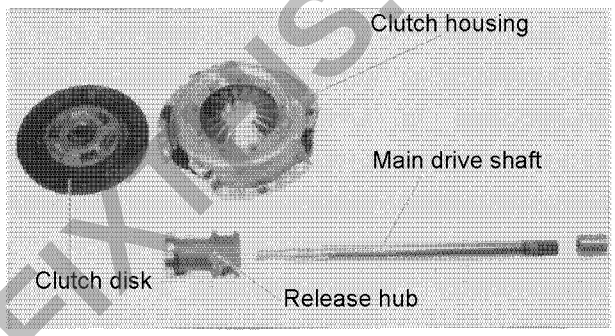
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3. Disassembling the clutch assembly

[1] Remove the engine from the main body at the clutch housing.

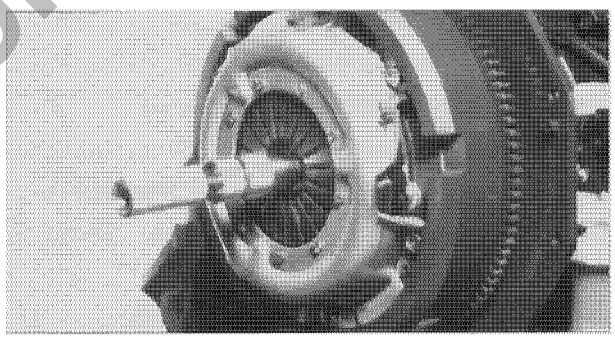


[2] Remove mounting bolts (6 bolt springs 8 × 16) to remove the clutch assembly from the flywheel.



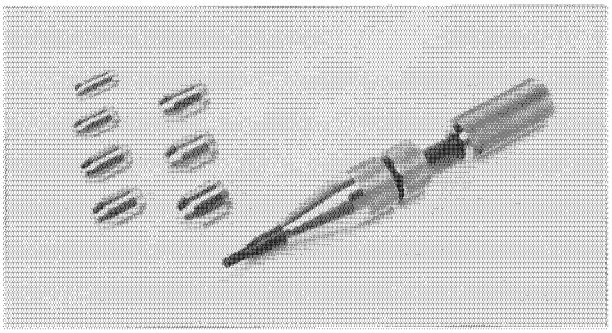
4. Mounting the clutch assembly

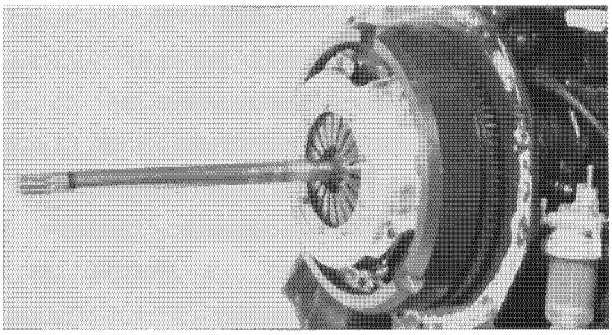
Use the clutch guide tool (TOL-93130020) to correctly center the clutch disk and other parts of the clutch assembly and securely mount the clutch assembly with mounting bolts.



Important

If the clutch guide tool is not available, use the main drive shaft.





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2 Specifications

Model			Ke-20T (w/o ROPS)
Drive Type			4-wheel drive
Dimensions	Overall length (mm)		2,075
	Overall width (mm)		1,040
	Overall height (mm)		1,232
	Wheelbase (mm)		1,205
	Tread	Front (mm)	740
		Rear (mm)	800, 850, 900
	Ground clearance (mm)		290
Weight (kg)			550
Engine	Model		3TNE74-UK2
	Type		4-cycle, water-cooled diesel
	Horsepower (SAE Gross, PS/rpm)		20/2,500
	Fuel tank capacity (liter)		13
	Battery		12 V-36AH
Steering			Hydrostatic
Transmission	Type		Constant mesh & sliding gear
	Gear shift (Forward x Reverse)		F8 × R4
	Forward speed (Max., km/hr)		13.5 ± 0.2
	Reverse speed (Max., km/hr)		6.7
	Speed	F1	0.72
	km/hr	F2	1.09
		F3	1.41
		F4	2.16
		F5	4.31
		F6	6.55
		F7	8.44
		F8	12.83
		R1	0.53
		R2	1.05
		R3	3.2
		R4	6.28
Tire	Front		5.00 - 12
	Rear		8 - 18
Rear PTO	Type		Transmission driven
	PTO shift		35mm, 6 spline
	Speed (at rated engine speed)		553, 928
Hydraulic	Type		Position control
	Hitch		3 point hitch, category JIS 0
	Draw bar		Fixed

Note:
All technical data, measurement and weight are approximate, and the manufacturer has the right to make alteration without prior notice.
The company has the right to improve or change when it becomes possible and practical to do so without incurring any obligations to make changes or additions to the equipment sold previously.

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