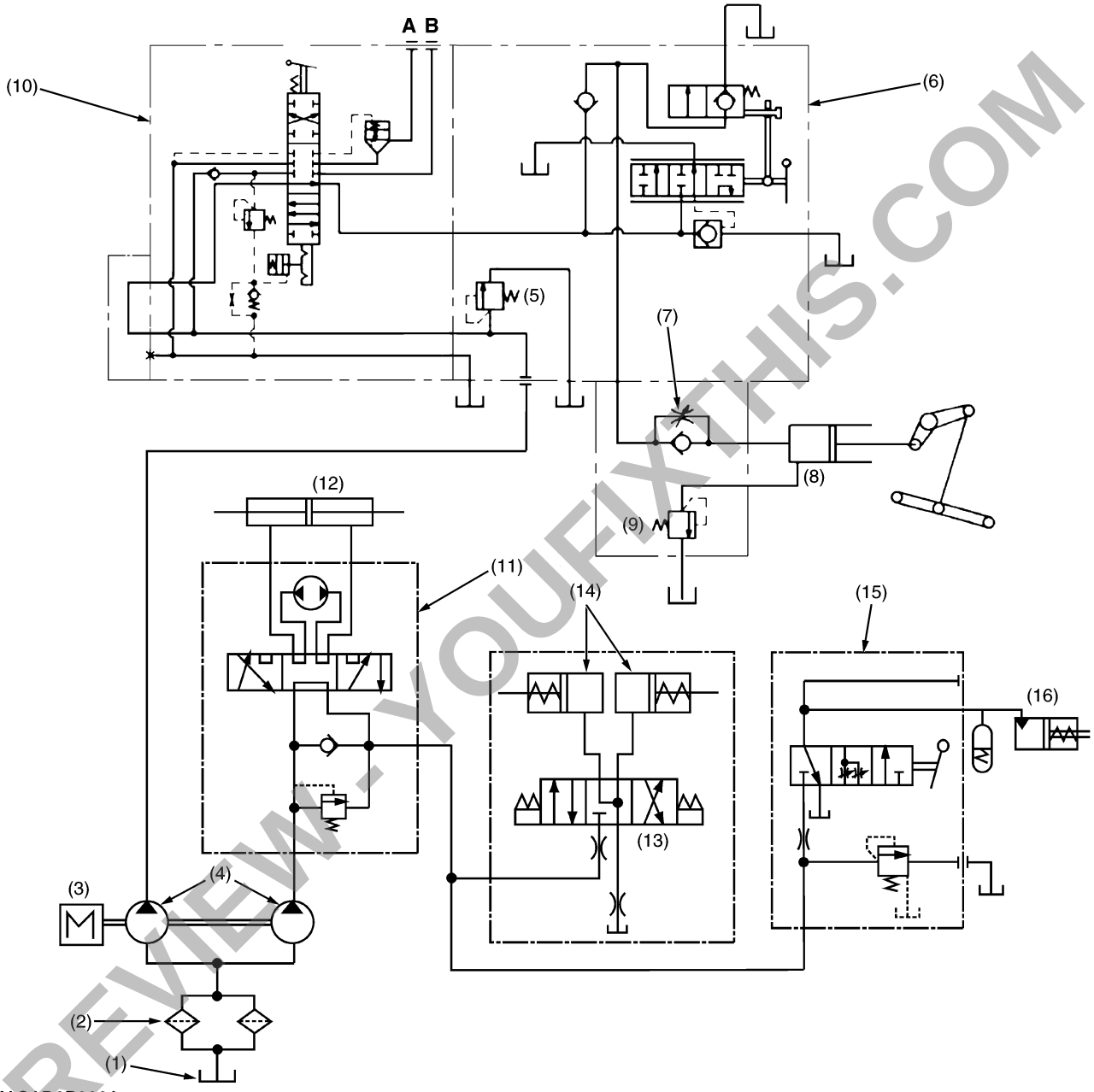
2. HYDRAULIC CIRCUIT



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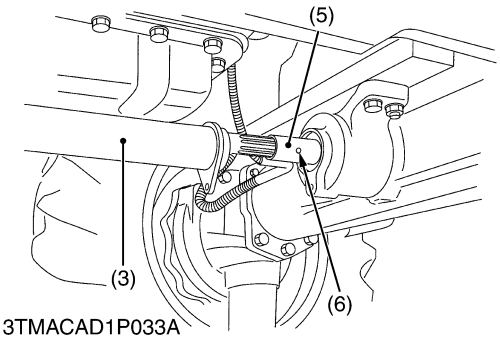
(1) Oil Tank (Transmission Case)
(2) Hydraulic Oil Filter Cartridge
(3) Engine
(4) Hydraulic Pump
(5) Relief Valve
(6) Control Valve
(7) Lowering Speed Adjusting Valve
(8) Hydraulic Cylinder
(9) Cylinder Safety Valve
(10) Auxiliary Control Valve
(11) Steering Controller
(12) Steering Cylinder
(13) 4WD / Bi-speed Valve
(14) 4WD / Bi-speed Clutch
(15) PTO Clutch Valve
(16) PTO Clutch

A : To Implement Cylinder
B : To Implement Cylinder

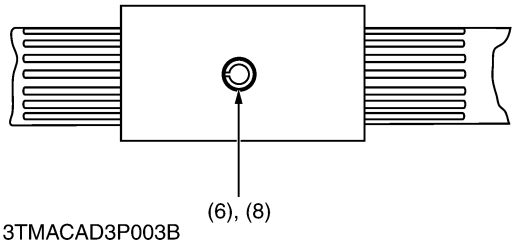
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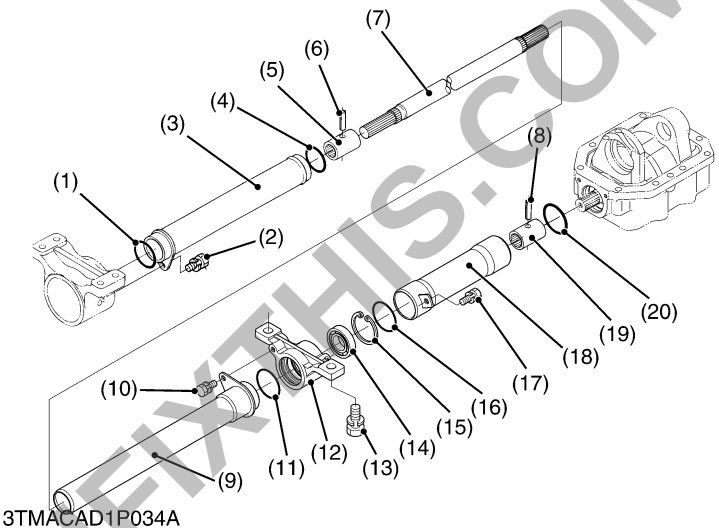
3TMACAD3P003B

Propeller Shaft

1. Slide the propeller shaft covers (3), (18) after removing the screw (2), (13).
2. Tap out the spring pins (6), (8) and then slide the couplings (5), (19) to the front and rear to take out the propeller shaft (7).

(When reassembling)

- Apply grease to the O-rings, propeller shaft and pinion shaft.
- Tap in the spring pins (6), (8) as shown in figure.



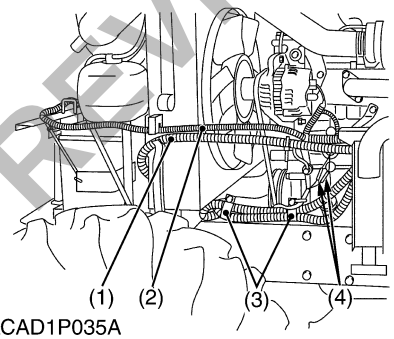
3TMACAD1P034A

(1)	O-ring	(11)	O-ring
(2)	Screw	(12)	Cover Bracket
(3)	Front Shaft Cover	(13)	Screw
(4)	O-ring	(14)	Bearing
(5)	Coupling	(15)	Internal Snap Ring
(6)	Spring Pin	(16)	O-ring
(7)	Propeller Shaft	(17)	Screw
(8)	Spring Pin	(18)	Rear Shaft Cover
(9)	Middle Shaft Cover	(19)	Coupling
(10)	Screw	(20)	O-ring

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Wiring Harness L.H.

1. Disconnect the battery positive cable (1).
2. Disconnect the head light cable (2) and 4WD / Bi-speed turn connectors (4).
3. Remove the hose clamps (3).



3TMACAD1P035A

(1)	Battery Positive Cable	(3)	Hose Clamp
(2)	Head Light Cable	(4)	4WD / Bi-speed Turn Connector

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1. TIGHTENING TORQUES

Tightening torques of screws and nuts on the table below are especially specified.
(For general use screws and nuts : See page G-10.)

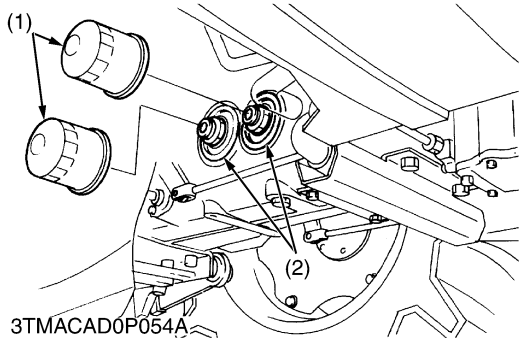
Item	N·m	kgf·m	ft-lbs
ROPS frame	196.1 to 225.6	20.0 to 23.0	144.7 to 166.4
Foldable ROPS	29.4 to 49.0	3.0 to 5.0	21.7 to 36.2
Power steering hoses retaining nut	24.5 to 29.4	2.5 to 3.0	18.1 to 21.7
Front axle support mounting screw	167 to 196	17.0 to 20.0	123 to 144
Starter's terminal **B** mounting nut	8.8 to 11.8	0.9 to 1.2	6.5 to 8.7
Bonnet support mounting screw	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2
Support frame mounting screw	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2
Engine and clutch housing mounting screw, nut	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5

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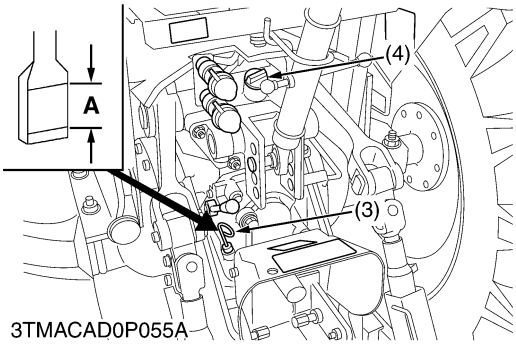
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[2] CHECK POINTS OF INITIAL 50 HOURS



3TMACAD0P054A



3TMACAD0P055A

Replacing Hydraulic Oil Filter

CAUTION

- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. Remove the drain plug at the bottom of the transmission case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plug.
3. Remove the two oil filters (1).
4. Clean off metal fillings with clean rags at the magnetic filters (2).
5. Put a film of clean transmission fluid on rubber seal of new filters.
6. Tighten the filter quickly until it contacts the mounting surface. Tighten filter by hand and additional 1/2 turn only.
7. After the new filter has been replaced, fill with the oil up to the upper notch on the dipstick (3).
8. After running the engine for a few minutes, stop it and check the oil level again, add oil to the prescribed level.
9. Make sure that the transmission fluid doesn't leak through the seal.

IMPORTANT

- **To prevent serious damage to the hydraulic system, use only a KUBOTA genuine filter.**

(1) Hydraulic Oil Filter
(2) Magnetic Filter (Clean off Metal Fillings)
(3) Dipstick
(4) Oil Filling Plug

A : Oil level is acceptable within this range.

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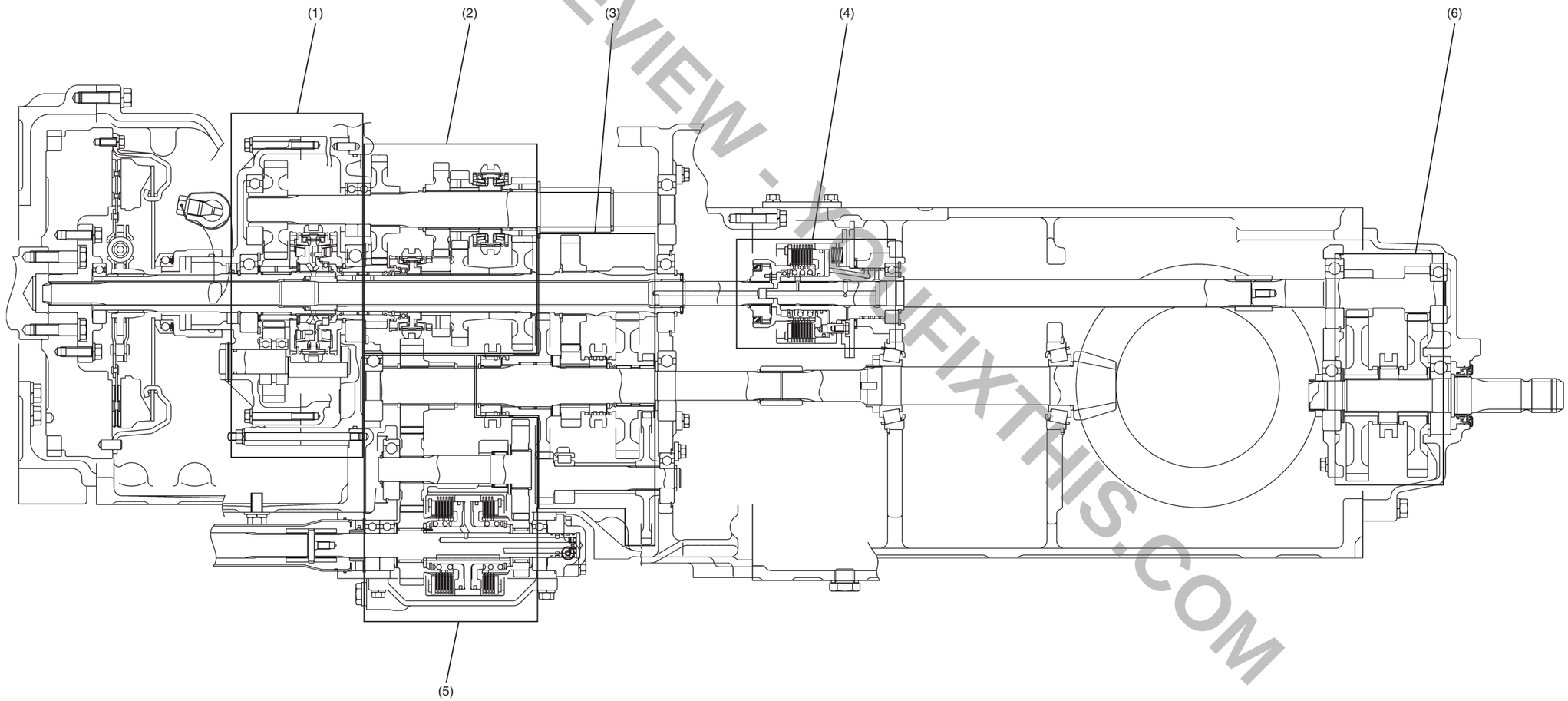
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1. TRANSMISSION

[1] MECHANISM

(1) Structure



3TMACAD3P114A

(1) Shuttle Shift Section (Forward-Reverse)
(2) Main Gear Shift Section
(3) Auxiliary Gear Shift Section
(4) PTO Clutch Section
(5) 4WD / Bi-speed Turn Section
(6) PTO Gear Shift Section

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1. TROUBLESHOOTING

TRAVELLING CLUTCH

Symptom	Probable Cause	Solution	Reference Page
Clutch Drags	● Clutch pedal free travel excessive	Adjust	N2-S4
	● Dust on clutch disc generated from clutch disc facing	Remove rust	—
	● Release fork broken	Replace	N2-S9
	● Clutch disc or pressure plate warped	Replace	N2-S11
	● Wire ring of the pressure plate worn or broken	Replace (Pressure plate assembly)	N2-S11
Clutch Slips	● Clutch pedal free travel too small	Adjust	N2-S4
	● Clutch disc excessively worn	Replace	N2-S10
	● Grease or oil on clutch disc facing	Replace	N2-S10
	● Clutch disc or pressure plate warped	Replace	N2-S11
	● Diaphragm spring weaken or broken	Replace	N2-S11
	● Wire ring of the pressure plate worn or broken	Replace (Pressure plate assembly)	N2-S11
Chattering	● Grease or oil on clutch disc facing	Replace	N2-S10
	● Clutch disc or pressure plate warped	Replace	N2-S11
	● Clutch disc boss spline worn or rusted	Replace or remove rust	N2-S10
	● Pressure plate or flywheel face cracked or scored	Replace	N2-S11
	● Clutch disc boss spline and gear shaft spline worn	Replace	N2-S10
	● Diaphragm spring strength uneven or diaphragm spring broken	Replace	N2-S11
Rattle During Running	● Clutch disc boss spline worn	Replace	N2-S10
	● Release bearing worn or sticking	Replace	N2-S10
Clutch Squeaks	● Release bearing sticking or dry	Replace or lubricate	N2-S10
	● Clutch disc excessively worn	Replace	N2-S10
Vibration	● Clutch disc rivet worn or broken	Replace	N2-S10
	● Clutch parts broken	Replace	—

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SPECIFICATIONS

Model			ME8200DTN
Engine	Model		V3300-TE
	Type		Vertical, water-cooled, 4-cycle diesel engine
	No. of cylinder		4
	Total displacement		3318 cm^3 (202.5 cu.in.)
	Bore and stroke		98 x 110 mm (3.9 x 4.3 in.)
	Net power		61.2 kW (82 HP)*
	PTO power (factory observed)		54.5 kW (73 HP)* / 2600 min^{-1} (rpm)
	Maximum torque		285 N·m (29.1 kgf·m, 210.2 ft-lbs) / 1300 to 1500 min^{-1} (rpm)
	Battery		12 V, CCA : 799 A
	Fuel		Diesel fuel No.1[below -10 ℃ (14 ℉), Diesel fuel No.2-D [above -10 ℃(14 ℉)]
	Fuel tank		60 L (15.9 U.S.gals, 13.2 lmp.gals)
	Engine crankcase		10.7 L (11.3 U.S.qts, 9.4 lmp.qts)
	Engine coolant		9.0 L (9.5 U.S.qts, 7.9 lmp.qts)
Dimensions	Overall length		3590 mm (141.3 in.)
	Overall width (Minimum tread)		1430 mm (56.3 in.)
	Overall height		1510 mm (59.4 in.) (at rear ROPS)
	Wheel base		2000 mm (78.7 in.)
	Tread	Front	1120 to 1160 mm (44.1 to 45.7 in.)
		Rear	1465 mm (57.7 in.)
	Minimum ground clearance		375 mm (14.8 in.) (Parking Brake Shaft)
Weight			2135 kg (4708 lbs)
Traveling system	Standard tire size	Front	280 / 70R18
		Rear	380 / 70R28
	Clutch		Single dry plate
	Steering		Full hydraulic power steering
	Transmission		Fully synchronized main and shuttle transmission, 12F / 12R
	Brake	Travelling	Wet type multiple discs (mechanical)
		Parking	Connected with the travelling brake
	Differential		Bevel gears with differential lock (Rear)
Hydraulic system	Hydraulic control system		Position, draft and mix control
	Pump capacity		41.6 L/min. (44.0 U.S.gals/min., 36.6 lmp.gals/min.)
	Three point hitch		Category I (Category 2 Link End)
	Max. lifting force	At lifting point	1900 kg (4190 lbs) at lower link end with link horizontal
		24 in. behind lifting point	1500 kg (3308 lbs) at 610 mm (24 in.) behind lifting point
	System pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)
PTO system	Independent clutch		Wet type, multiple discs
	Live PTO	Direction of turning	Clockwise, viewed from tractor rear
		PTO speed	540 min^{-1} (rpm) at 2160 engine min^{-1} (rpm), 540E min^{-1} (rpm) at 1828 engine min^{-1} (rpm)
Traction system			Fixed drawbar, adjustable back and forth

NOTE: *Manufacture's estimate. The company reserves the right to change the specifications without notice.

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2. SERVICING SPECIFICATIONS

TRAVELLING CLUTCH

Item		Factory Specification	Allowable Limit
Clutch Pedal	Free Travel	35 to 45 mm 1.4 to 1.8 in.	—
Clutch Pedal Stopper Bolt	Height	18 to 20 mm 0.70 to 0.79 in.	—
Clutch Pedal Shaft to Clutch Pedal Bushing	Clearance	0.025 to 0.185 mm 0.00098 to 0.00728 in.	1.00 mm 0.0394 in.
	Clutch Pedal Shaft (O.D.)	27.900 to 27.975 mm 1.09842 to 1.10138 in.	—
	Clutch Pedal Bushing (I.D.)	28.000 to 28.085 mm 1.10236 to 1.10571 in.	—
Clutch Disc	Disc Surface to Rivet Top (Depth)	—	0.3 mm 0.012 in.
Clutch Disc Boss to Gear Shaft	Backlash (Displacement Around Disc Edge)	—	2.0 mm 0.079 in.
Pressure Plate	Flatness	—	0.2 mm 0.008 in.
Diaphragm Spring	Mutual Difference	—	0.5 mm 0.020 in.

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3. MAINTENANCE

No.	Item \ Period		Indication on hour meter										Important	Reference page
			50	100	150	200	250	300	350	400	450	500		
1	Engine oil	Change	★			☆				☆				G-15
2	Engine oil filter	Replace	★							☆				G-16
3	Transmission fluid	Change	★											NG-8
4	Clutch pedal	Adjust	★	☆		☆		☆		☆		☆		NG-8
5	Hydraulic oil filter	Replace	★					☆						NG-7
6	Front axle case oil	Change	★											NG-8
7	Water separator	Clean	★							☆				G-18
8	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		NG-9
9	Wheel nut torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆		NG-9
10	Greasing	-		☆		☆		☆		☆		☆		NG-10
11	Battery condition	Check		☆		☆		☆		☆		☆		G-19
12	Air cleaner element (Double type) Primary element	Clean		☆		☆		☆		☆		☆	*1	G-20
		Replace											*2	G-29
	Secondary	Replace											*2	G-29
13	Fan belt	Adjust		☆		☆		☆		☆		☆		G-21
14	Brake pedal	Adjust		☆		☆		☆		☆		☆		NG-11
15	Fuel line	Check		☆		☆		☆		☆		☆		G-21
		Replace												G-32
16	Power steering oil line	Check				☆				☆				G-24
		Replace												G-32
17	Radiator hose and clamp	Check				☆				☆				G-24
		Replace												G-32
18	Toe-in	Adjust				☆				☆				G-25
19	Intake air line	Check				☆				☆				—
		Replace											*3	—
20	Fuel filter	Replace								☆				G-27
21	Front axle pivot	Adjust												G-28
22	Engine valve clearance	Adjust												1-S23
23	Fuel injection nozzle	Check												1-S71
24	Injection pump	Check												1-S70
25	Cooling system	Flush												G-31
26	Coolant	Change												G-30
27	Fuel system	Bleed	Service as required											G-33
28	Clutch housing water	Drain												NG-11
29	Fuse	Replace												NG-12
30	Light bulb	Replace												G-37

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SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol" is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

DANGER
- **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

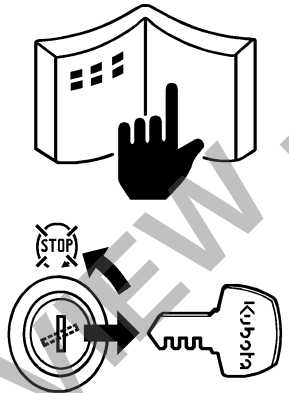
WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

NOTE
- **Gives helpful information.**

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BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key
- Disconnect the battery negative cable
- Hang a **"DO NOT OPERATE"** tag in operator station.

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SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.

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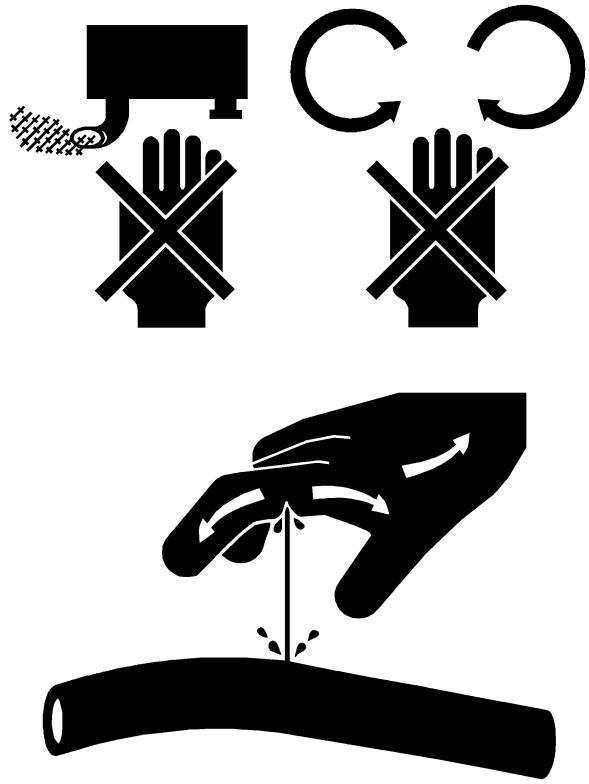
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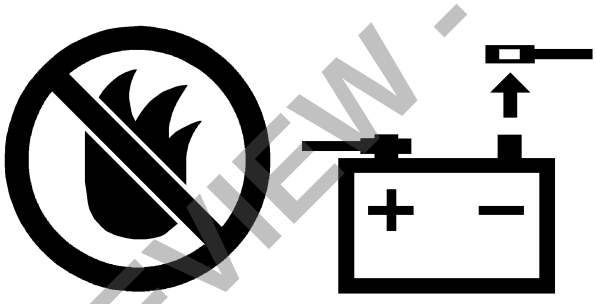
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SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.

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AVOID FIRES

- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.

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