INFORMATION

CONTENTS

1. SAFETY FIRST I-1
2. SAFETY DECALS I-4
3. SPECIFICATIONS I-8
4. TRAVELING SPEEDS I-9
5. DIMENSIONS I-10

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1. SAFETY FIRST

⚠ 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.**

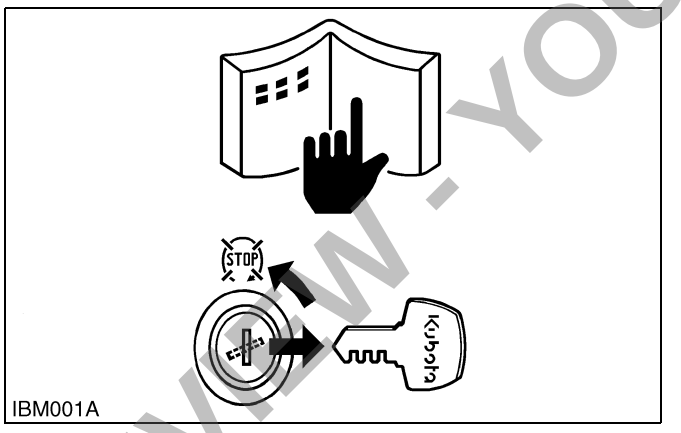
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

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

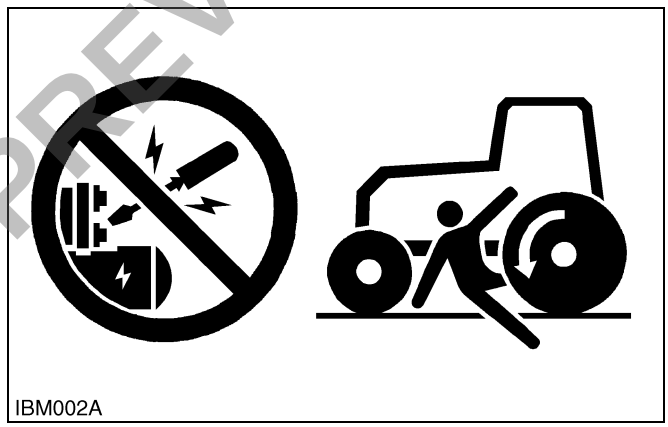
■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

WSM000001INI0001US1



IBM001A


IBM002A

BEFORE YOU START SERVICE

- 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 stable and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, then remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in the operator station.

WSM000001INI0010US1

START SAFELY

- Do not do the procedures below when you start the engine.
  - short across starter terminals
  - bypass the safety start switch
- Do not alter or remove any part of machine safety system.
- Before you start the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Do not start the engine when you stay on the ground. Start the engine only from operator's seat.

WSM000001INI0015US0

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3. SPECIFICATIONS

Model			M5640SU	
			2WD	4WD
Engine	Model		V2403-M-TE3	
	Type		Vertical, water-cooled, 4-cycle diesel engine	
	Number of cylinders		4	
	Total displacement		2434 cm^3 (148.6 cu.in.)	
	Bore and stroke		87 × 102.4 mm (3.4 × 4.0 in.)	
	Net power		41.1 kW (55.1 HP)*	
	PTO power (factory observed)		37.3 kW (50 HP)* / 2700 min^{-1} (rpm)	
	Maximum torque		181 N·m (133.2 lbf·ft) / 1400 to 1600min^{-1} (rpm)	
	Battery		12 V, RC : 133 min., CCA 582A	
	Fuel tank capacity		57.0 L (15.1 U.S. gals, 12.5 Imp. gals)	
	Engine crankcase capacity		7.2 L (7.6 U.S.qts, 6.3 Imp.qts)	
	Engine coolant capacity		8.0 L (8.5 U.S.qts, 7.0 Imp.qts)	
Dimensions	Overall length		3505 mm (138.0 in.)	3420 mm (134.6 in.)
	Overall width (Minimum tread)		1850 mm (72.83 in.)	
	Overall height		2360 mm (92.91 in.)	
	Wheel base		2000 mm (78.7 in.)	
	Tread	Front	1420 to 1820 mm (55.9 to 71.7 in.)	1300, 1400 mm (51.2, 55.1 in.)
		Rear	1320 to 1720 mm (52.0 to 67.7 in.)	
	Minimum ground clearance		430 mm (16.9 in.) (BRACKET DRAWBAR)	
Weight			1700 kg (3750 lbs)	1750 kg (3860 lbs)
Travelling system	Standard tire size	Front	6.5-16	8.3-24
		Rear	14.9-28	
	Clutch		Dry, Single plate	
	Steering		Hydrostatic power steering	
	Brake	Travelling	Wet type, multiple discs (mechanical)	
	Differential		Bevel gears with differential lock (Rear)	
Hydraulic system	Hydraulic control system		Position control	
	Pump-up capacity		41.6 L (11.0 U.S.gals, 9.15 Imp.gals)/min.	
	Three point hitch		Category I & II	
	Maximum lifting force		1900 kg (4189 lbs) at lower link end 1500 kg (3307 lbs) at 610 mm (24 in.) behind lifting point	
	System pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)	
PTO	Independent clutch		Wet type, multiple discs	
	Live PTO	Direction of turning	Clockwise, viewed from tractor rear	
		PTO speed	6 spline : 540 min^{-1} (rpm) at 2295 engine min^{-1} (rpm)	

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

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6. MAINTENANCE

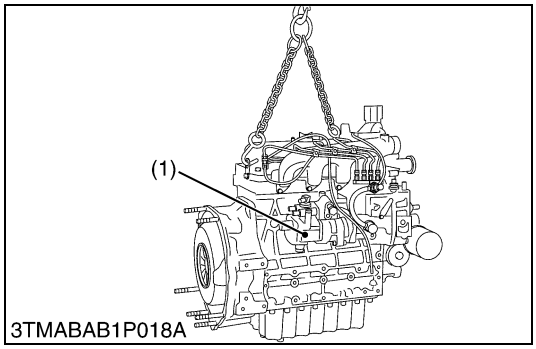
No.	Item			Service Interval														Since then	Important		Reference page
				50	100	150	200	250	300	350	400	450	500	550	600	650	700				
1	Engine start system		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr			G-20
2	Wheel bolt torque		Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr			G-20
3	Battery condition		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*4		G-26
4	Greasing		–		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-21
5	Fan belt		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-23
6	Brake pedal		Adjust		☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-24
7	Clutch pedal		Adjust	★	☆		☆		☆		☆		☆		☆		☆	every 100 Hr			G-19
8	Fuel filter		Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		@	G-22
			Replace								☆							every 400 Hr			G-28
9	Air cleaner element	Primary element	Clean		☆		☆		☆		☆		☆		☆		☆	every 100 Hr	*1	@	G-22
			Replace															every 1 year	*2		G-30
		Secondary element	Replace															every 1 year			G-30
10	Fuel line		Check		☆		☆		☆		☆		☆		☆		☆	every 100 Hr		@	G-23
			Replace															every 2 years	*3		G-33
11	Toe-in		Adjust				☆				☆				☆			every 200 Hr			G-28
12	Power steering oil line		Check				☆				☆				☆			every 200 Hr			G-27
			Replace															every 2 years			G-33
13	Radiator hose and clamp		Check				☆				☆				☆			every 200 Hr			G-27
			Replace															every 2 years			G-33
14	Intake air line		Check				☆				☆				☆			every 200 Hr		@	G-23
			Replace															every 2 years			G-33
15	Hydraulic oil filter		Replace	★					☆						☆			every 300 Hr			G-18
16	Engine oil		Change	★							☆							every 400 Hr			G-17
17	Greasing (2WD front wheel hub)		–								☆							every 400 Hr			G-29
18	Engine oil filter		Replace	★							☆							every 400 Hr			G-17
19	Transmission fluid		Change	★											☆			every 600 Hr			G-19
20	Front axle case oil		Change												☆			every 600 Hr			G-29
21	Front axle pivot		Adjust												☆			every 600 Hr			G-29
22	Engine valve clearance		Adjust															every 800 Hr			G-29
23	Fuel injection nozzle injection pressure		Check															every 1500 Hr		@	G-30

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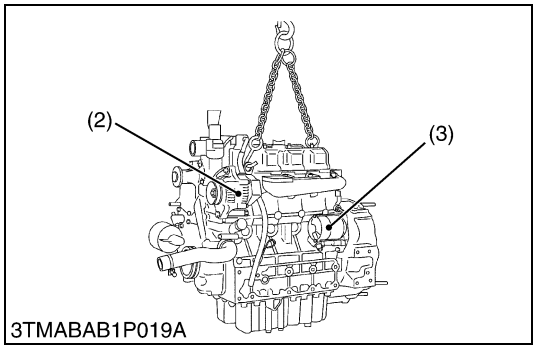
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6. DISASSEMBLING AND ASSEMBLING

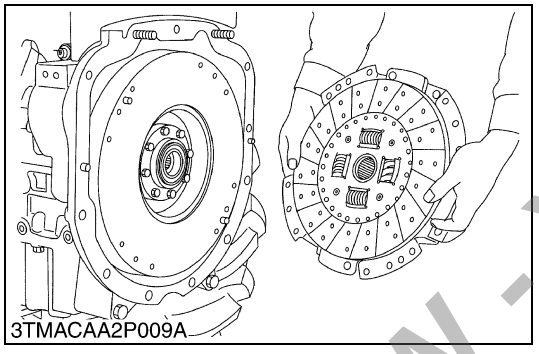
[1] EXTERNAL COMPONENT



3TMABAB1P018A



3TMABAB1P019A


3TMACAA2P009A

Outer Parts of Engine

1. Remove the hydraulic pump (1).
2. Remove the alternator (2).
3. Remove the starter motor (3).
4. Remove the turbocharger.

(When reassembling)

- Be sure to adjust the fan belt tension.

(1) Hydraulic Pump
(2) Alternator
(3) Starter Motor

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Clutch Assembly

1. Refer to the "[1] TRAVELING CLUTCH " at "2. CLUTCH" section.

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1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Replenish fuel	G-10
	Air in the fuel system	Bleed	G-34
	Water in the fuel system	Change fuel and repair or replace fuel system	G-22, G-28, G-34
	Fuel pipe clogged	Clean	1-S28
	Fuel filter clogged	Replace	G-22
	Excessively high viscosity of fuel or engine oil at low temperature	Use the specified fuel or engine oil	G-10
	Fuel with low cetane number	Use the specified fuel	G-11
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S28
	Incorrect injection timing	Adjust	1-S15
	Fuel camshaft worn	Replace	1-S38
	Injection nozzle clogged	Repair or replace	1-S28
	Injection pump malfunctioning	Repair or replace	1-S33
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	1-S39
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S11, 1-S28, 1-S30
	Improper valve timing	Correct or replace timing gear	1-S37
	Piston and cylinder worn	Replace	1-S39
	Excessive valve clearance	Adjust	1-S12
	Stop solenoid malfunctioning	Replace	1-S21
Starter Does Not Run	Battery discharged	Charge	9-S9
	Starter malfunctioning	Repair or replace	1-S22
	Main switch malfunctioning	Repair or replace	9-S11
	PTO switch defective	Replace	9-S23
	Neutral switches improperly adjusted or defective	Repair or replace	9-S23
	Starter relay defective	Replace	9-S28
	Wiring disconnected	Connect	–
Engine Revolution is Not Smooth	Fuel filter clogged or dirty	Replace	G-22
	Air cleaner clogged	Clean or change	G-22
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	1-S28
	Injection pump malfunctioning	Repair or replace	1-S33
	Incorrect nozzle injection pressure	Adjust	1-S17
	Injection nozzle stuck or clogged	Repair or replace	1-S28
	Governor malfunctioning	Repair	1-S34

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3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : Refer to "6. TIGHTENING TORQUES" at GENERAL Section.)

Item	N·m	kgf·m	lbf·ft
Starter's terminal **B** mounting nut	7.8 to 9.8	0.8 to 1.0	5.8 to 7.2
Main delivery pipe and return pipe retaining nut	47.1 to 51.0	4.8 to 5.2	34.7 to 37.6
Delivery hose retaining nut	23 to 29	2.3 to 2.8	17 to 19
Engine and clutch housing mounting screw and nut (M12, 7T)	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Engine and clutch housing mounting stud bolt	39.2 to 49.0	4.0 to 5.0	28.9 to 36.2
3P delivery pipe joint screw nut	49.0 to 58.8	5.0 to 6.0	36.2 to 43.4
Front axle frame mounting screw (M10)	60.8 to 70.5	6.2 to 7.2	44.9 to 52.1
Front axle frame mounting screw (M12)	102.9 to 117.6	10.5 to 12.5	76.0 to 86.8
Clutch mounting screw	23.5 to 27.5	2.4 to 2.8	17.5 to 20.3

Item	Dimension × Pitch	N·m	kgf·m	lbf·ft
Cylinder head cover screw	M6 × 1.0	9.81 to 11.2	1.0 to 1.15	7.23 to 8.31
Injection pipe retaining nuts	M12 × 1.5	25 to 34	2.5 to 3.5	18 to 25
Nozzle holder assembly	M20 × 2.0	49 to 68	5.0 to 7.0	37 to 50
Overflow pipe assembly retaining nuts	–	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
Glow plugs	M10 × 1.25	20 to 24	2.0 to 2.5	15 to 18
* Rocker arm bracket screw	M8 × 1.25	24 to 27	2.4 to 2.8	18 to 20
* Cylinder head screws	M11 × 1.25	93.2 to 98.0	9.5 to 10.0	68.8 to 72.3
Hi-idling body	–	45 to 49	4.5 to 5.0	33 to 36
Fan drive pulley mounting nut	–	138 to 156	14.0 to 16.0	102 to 115
Cover mounting screw (Relief valve)	M18 × 1.5	34.1 to 34.5	3.48 to 3.51	25.2 to 25.4
Camshaft set screw	M8 × 1.25	24 to 27	2.4 to 2.8	18 to 20
Balancer shaft set screw	M8 × 1.25	24 to 27	2.4 to 2.8	18 to 20
* Connecting rod screws	M8 × 1.0	45 to 49	4.5 to 5.0	33 to 36
* Flywheel screws	M12 × 1.25	98.1 to 107	10.0 to 11.0	72.4 to 79.5
* Bearing case cover screws	M8 × 1.25	24 to 27	2.4 to 2.8	18 to 20
* Main bearing case screws 2	M10 × 1.25	69 to 73	7.0 to 7.5	51 to 54
* Main bearing case screws 1	M9 × 1.25	46 to 50	4.7 to 5.2	34 to 37

■ **NOTE**

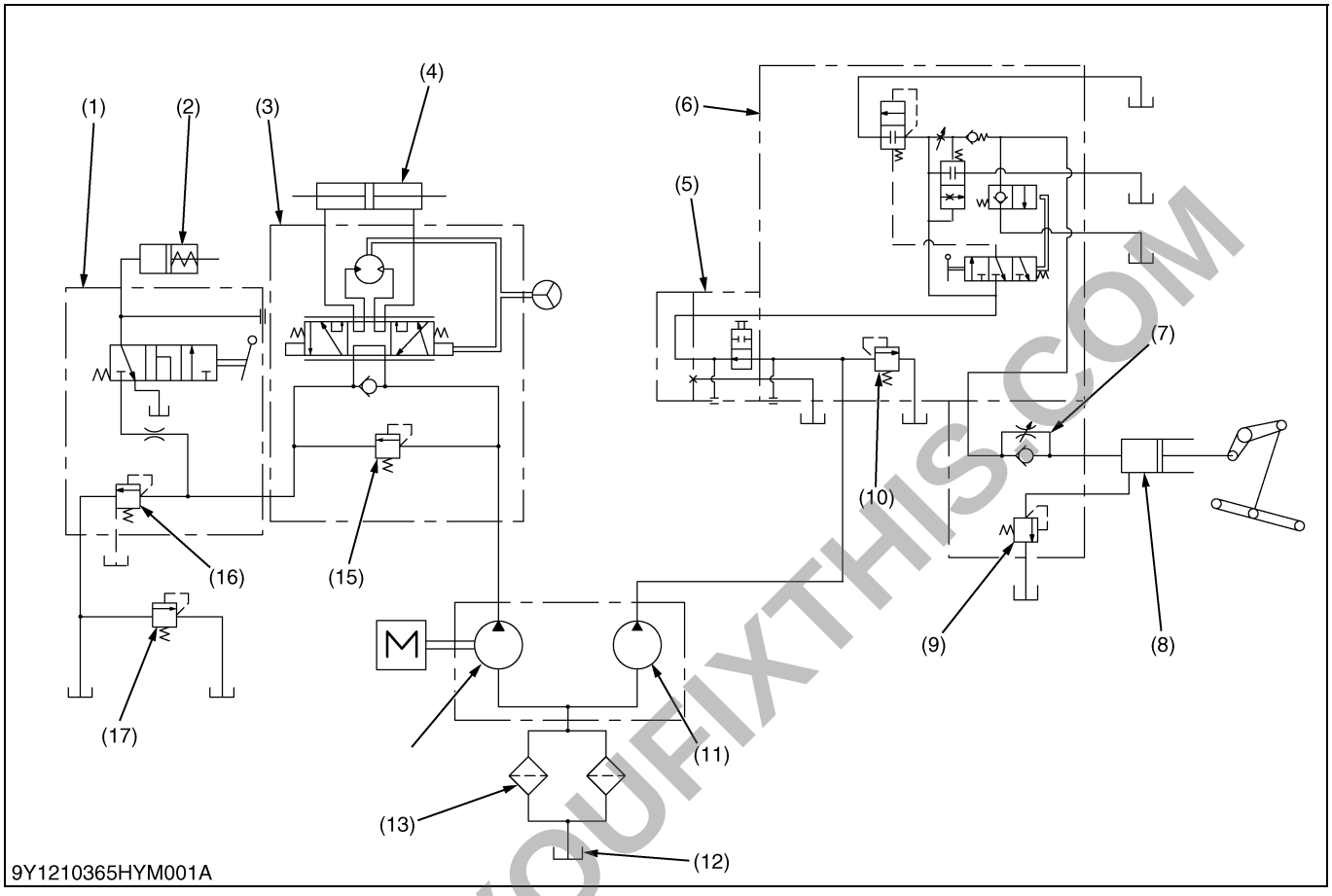
- **For * marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**
- **The letter "M" in Size x Pitch means that the screw, bolt or nut dimension stands for metric. The size is the nominal outside diameter in mm of the threads. The pitch is the nominal distance in mm between two threads.**

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1. HYDRAULIC CIRCUIT



(1) PTO Clutch Valve
(2) PTO Clutch Pack
(3) Power Steering Controller
(4) Steering Cylinder
(5) Hydraulic Outlet Valve
(6) Control Valve (for 3-Point Linkage)
(7) Lowering Speed Adjusting Valve
(8) Hydraulic Cylinder (for 3-Point Linkage)
(9) Cylinder Safety Valve
(10) Relief Valve (for 3-Point Linkage)
(11) Hydraulic Pump (for 3-Point Linkage)
(12) Oil Tank (Transmission Case)
(13) Hydraulic Oil Filter Cartridge
(14) Hydraulic Pump (for Power Steering and PTO Clutch)
(15) Relief Valve (Steering Controller)
(16) Relief Valve (PTO Valve)
(17) Relief Valve (Lubricating Line)

The hydraulic system of this tractor is composed of the main components as shown in the figure.

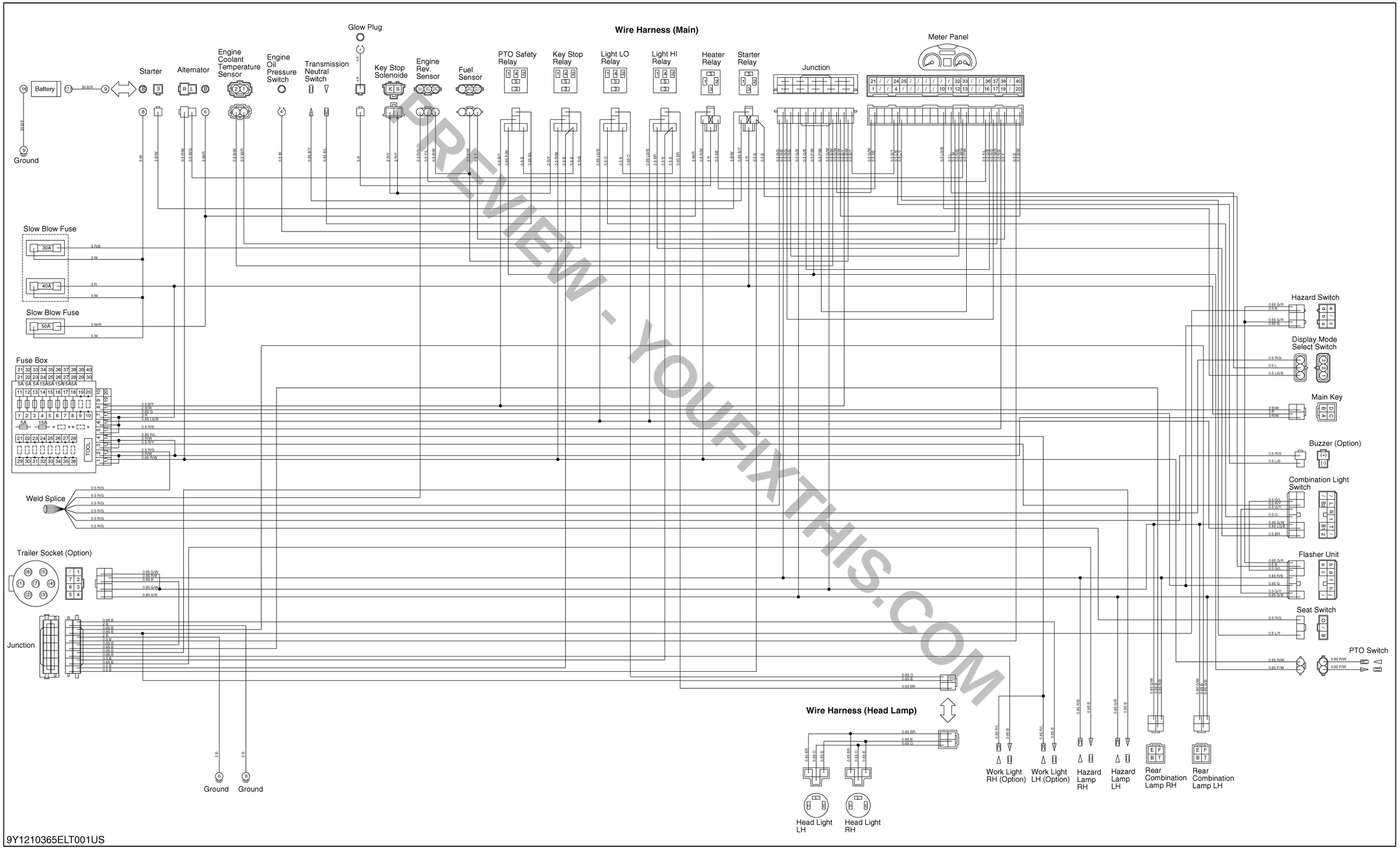
- To raise and lower the implement connected to the three-point hitch. For this motion, the position control valve and the linkage installed on the hydraulic cylinder body.
- Take out hydraulic power from the hydraulic cylinder body to operate an implement's hydraulic actuator.

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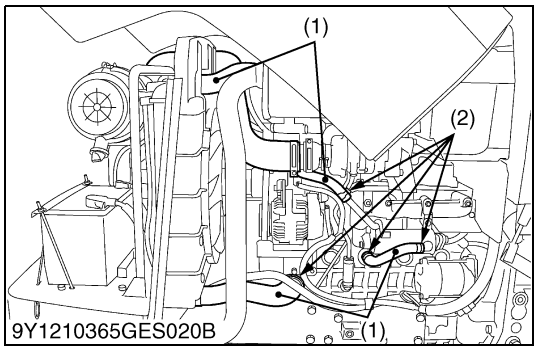
1. WIRING DIAGRAM

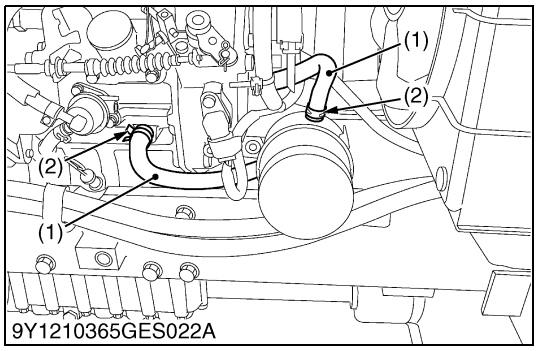


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[5] CHECK POINTS OF EVERY 200 HOURS





Checking Radiator Hose and Hose Clamp

Check to see if radiator hoses are properly fixed every 200 hours of operation or six months, whichever comes first.

1. If hose clamps (2) are loose or water leaks, tighten bands (2) securely.
2. Replace hoses (1) and tighten hose clamps (2) securely, if radiator hoses (1) are swollen, hardened or cracked.
   Replace hoses and hose clamps every 2 years or earlier if checked and found that hoses are swollen, hardeded or cracked.

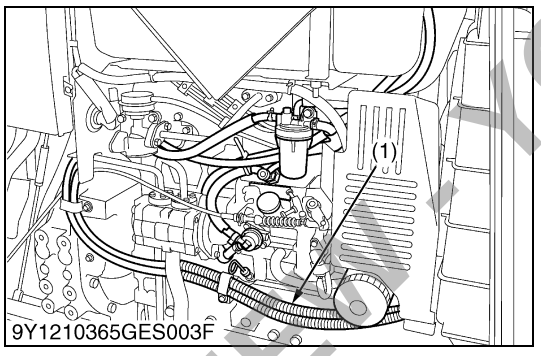
■ **Precaution at Overheating**

Take the following actions in the event the coolant temperature be nearly or more than the boiling point, what is called **"Overheating"**.

1. Stop the machine operation in a safe place and keep the engine unloaded idling.
2. Don't stop the engine suddenly, but stop it after about 5 minutes of unloaded idling.
3. Keep yourself well away from the machine for further 10 minutes or while the steam blown out.
4. Checking that there gets no danger such as burns. Get rid of the causes of overheating according to the manual, see "TROUBLESHOOTING" section at 1. ENGINE Section, and then start again the engine.

(1) Radiator Hose (2) Clamp

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Checking Power Steering Line

CAUTION

- **Stop the engine when attempting the check and change prescribed below.**
- **Remember to check the fuel line periodically. The fuel line is subject to wear and aging, fuel may leak out onto the running engine, causing a fire.**

1. Check to see that all line (1) and hose clamps (2) are tight and not damaged.
2. If hoses and clamps (2) are found worn or damaged, replace or repair them at once.

(1) Power Steering Hose (2) Clamp

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No.	Implement		Remarks		M5640SU	
					2WD	4WD
1	Slurry Tank		Max. Tank Capacity		3000 L (792 U.S.gals, 660 Imp.gals)	
			Max. Load Capacity		4000 kg (8800 lbs)	
2	Trailer		Max. Load Capacity		4000 kg (8800 lbs)	4500 kg (9900 lbs)
			Max. Drawbar Load		1000 kg (2200 lbs)	
3	Mower	Rotary-cutter	Max. Cutting Width		2130 mm (84 in.)	
			Max. Weight		540 kg (1200 lbs)	
		Flail Mower (Heavy)	Max. Cutting Width		3050 mm (120 in.)	
			Max. Weight		800 kg (1760 lbs)	
		Sickle Bar	Max. Cutting Width		2130 mm (84 in.)	
4	Sprayer		Max. Tank-capacity	Mid	680 L (180 U.S.gals, 150 Imp.gals)	
				Rear 3P	680 L (180 U.S.gals, 150 Imp.gals)	
				Drawbar	3000 L (800 U.S.gals, 660 Imp.gals)	3500 L (920 U.S.gals, 770 Imp.gals)
5	Rotary Tiller		Max. Tilling Width		2130 mm (84 in.)	
			Max. Weight		800 kg (1760 lbs)	
6	Bottom Plow		Max. Size		16 in. × 2 18 in. × 1	14 in. × 3 16 in. × 2 18 in. × 1
			Max. Weight		450 kg (1000 lbs)	
7	Disc-harrow	3P Type	Max. Size		18 in. × 24	
			Max. Harrowing Width		2130 mm (84 in.)	
			Max. Weight		450 kg (1000 lbs)	
		Drawbar Type	Max. Harrowing Width		2450 mm (96 in.)	2750 mm (108 in.)
8	Disc Plow		Max. Size		24 in. × 3 26 in. × 2	
			Max. Weight		450 kg (1000 lbs)	
9	Sub Soiler		Numbers of Cultivating Tines		2	
			Cultivating Depth		300 mm (12 in.)	400 mm (16 in.)
10	Cultivator		Max. Width		3050 mm (120 in.)	3660 mm (144 in.)
			Number of Rows		4	
			Max. Weight		450 kg (1000 lbs)	
11	Front Blade*, **		Max. Cutting Width		1820 mm (72 in.)	
			Max. Oil Pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)	
12	Rear Blade		Max. Cutting Width		1820 mm (72 in.)	
			Max. Oil Pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)	
13	Front Loader*, **		Max. Lifting Capacity		1000 kg (2200 lbs)	
			Max. Oil Pressure		19.1 MPa (195 kgf/cm^2, 2773 psi)	
14	Box Blade		Max. Cutting Width		1820 mm (72 in.)	
			Max. Weight		450 kg (1000 lbs)	

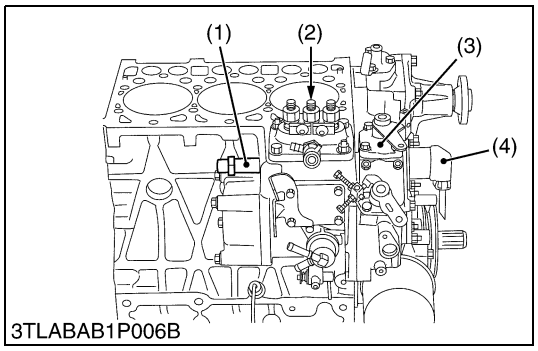
■ **NOTE**

- **Implement size may very depending on soil operating conditions.**
  *** Must remove front weight with this implement.**
  **** Need subframe**

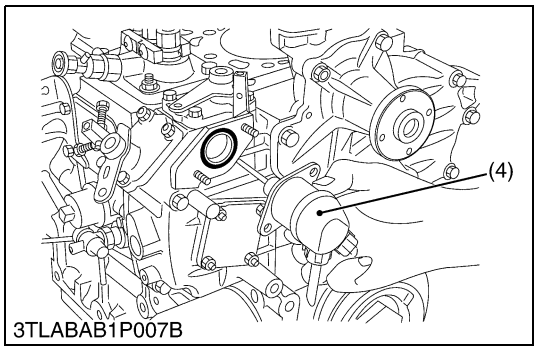
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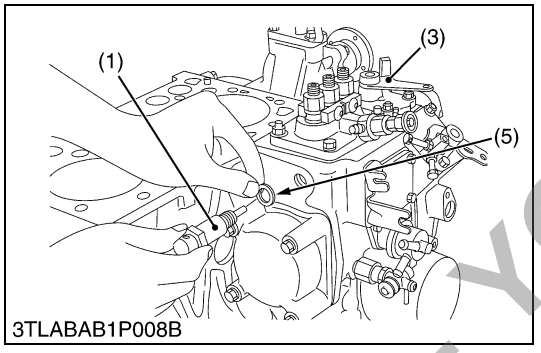
[4] TIMING GEARS, CAMSHAFT AND FUEL CAMSHAFT



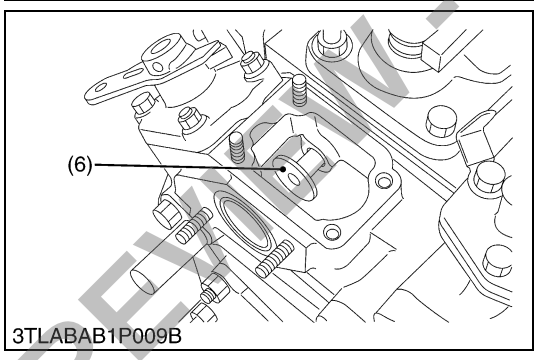
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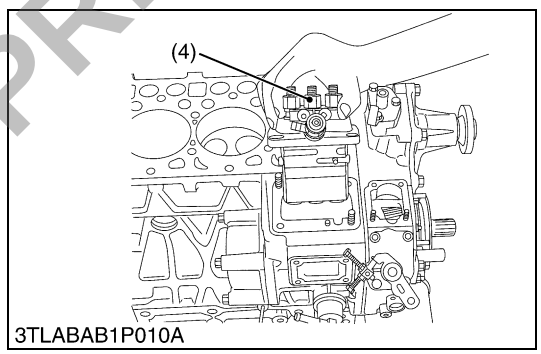
3TLABAB1P007B



3TLABAB1P008B



3TLABAB1P009B



3TLABAB1P010A

Injection Pump

1. Remove the stop solenoid (4) and the hi-idling body (1).
2. Remove the engine stop lever (3) and the stop solenoid guide (6).
3. Remove the fuel injection pump assembly (2).

■ **IMPORTANT**

- **Before removing the injection pump assembly (2), be sure to remove the stop solenoid (4), hi-idling body (1), engine stop lever (3) and stop solenoid guide (6).**

(When reassembling)

- Before attaching the stop solenoid (4), the hi-idling body (1) and the stop solenoid guide (6), install the injection pump first into position.
- Replace the hi-idling body gasket (5) with a new one.
- Before fitting the stop lever (3) to the gear case, install the stop solenoid guide (6) first into position. Then attach the stop lever and use it to see if it functions well.
- Before fitting the idling limiter in place, attach the stop solenoid guide (6) and the engine stop lever (3) in their respective positions.
- When installing the stop solenoid (4), be careful to keep the O-ring in place.
- Be sure to insert the push rod of the stop solenoid into the hole at the center of the solenoid guide (6).

Tightening torque	Hi-idling body	45 to 49 N·m 4.5 to 5.0 kgf·m 33 to 36 lbf·ft

(1) Hi-idling Body
(2) Injection Pump Assembly
(3) Stop Lever
(4) Stop Solenoid
(5) Hi-idling Body Gasket
(6) Stop Solenoid Guide

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3. TIGHTENING TORQUES

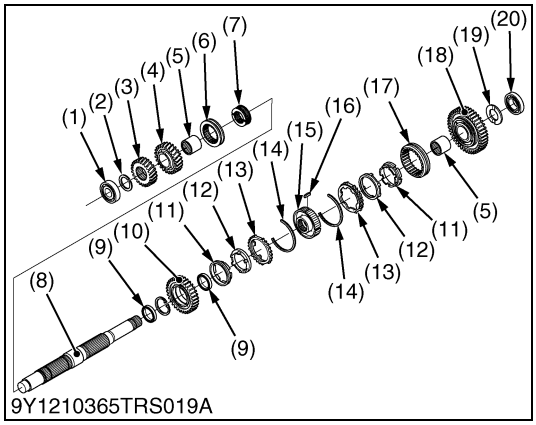
Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : Refer to "6. TIGHTENING TORQUES" at GENERAL Section.)

Item	N·m	kgf·m	lbf·ft
Clutch mounting screw	24 to 27	2.4 to 2.8	18 to 20
Release fork setting screw	167 to 191	17.0 to 19.5	123 to 141
PTO clutch control valve mounting screw	24 to 27	2.4 to 2.8	18 to 20
Rear wheel mounting nut	260 to 304	26.5 to 31.0	192 to 224
ROPS under frame mounting bolt and nut (M6, 9T)	260 to 304	26.5 to 31.0	192 to 224
Clutch housing and transmission case mounting screw, nut (M12, grade 11 nut)	103 to 117	10.5 to 12.0	76.0 to 86.7
Clutch housing and transmission case mounting screw, nut (M12, grade 7 screw, nut)	78 to 90	7.9 to 9.2	58 to 66
Clutch housing and transmission case mounting screw, nut (M10, grade 9 screw)	61 to 70	6.2 to 7.2	45 to 52
Transmission upper cover mounting screw	24 to 27	2.4 to 2.8	18 to 20
PTO clutch case bearing holder mounting screw	24 to 27	2.4 to 2.8	18 to 20
Brake plate mounting screw	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31

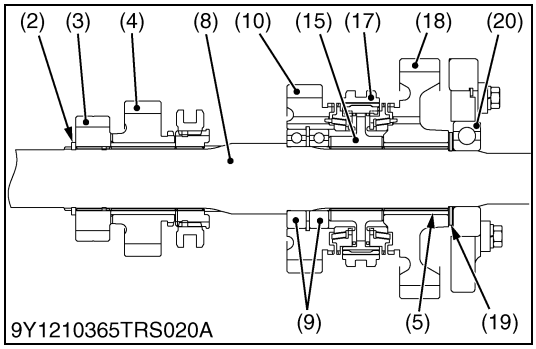
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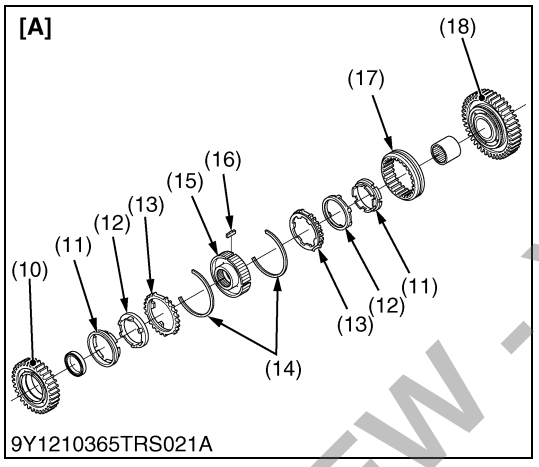
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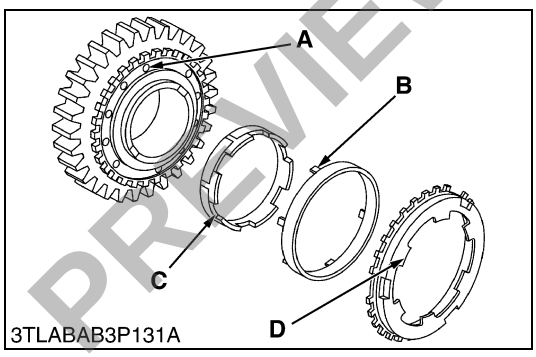
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9Y1210365TRS020A



9Y1210365TRS021A



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3rd Shaft

1. Remove the bearing (20) and gears.
2. Remove the bearing (1) and external snap ring (2).
3. Remove the gears.

(When reassembling)

- Apply enough transmission fluid to the synchronizer portion.
- Install the protrusion portions **"B"** of the center rings (12) to the holes **"A"** of the gear (10) and (18) firmly. (Refer to the figure left.)
- Install the protrusion portion **"D"** of the outer synchronizer rings (13) to the grooves **"C"** of the inner synchronizer rings (11). (Refer to the figure left.)
- Install the synchronizer keys (16) in the key grooves of the outer synchronizer rings (13) firmly.

(1) Bearing
(2) External Snap Ring
(3) 23T Gear (4WD Model)
(4) 24T Gear
(5) Inner Race
(6) Shifter (H)
(7) Hub
(8) 3rd Shaft
(9) Bearing
(10) 32T Gear
(11) Inner Synchronizer Ring
(12) External Snap Ring
(13) Outer Synchronizer Ring
(14) Synchronizer Spring
(15) Coupling
(16) Synchronizer Key
(17) Shifter (L-R)
(18) 41T Gear
(19) Thrust Collar
(20) Bearing

[A] Double Cone Type Synchromesh
A : Holes of the gear
B : Protrusion portions of the center ring
C : Grooves of the inner synchronizer ring
D : Protrusion portion of the outer synchronizer ring

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MECHANISM

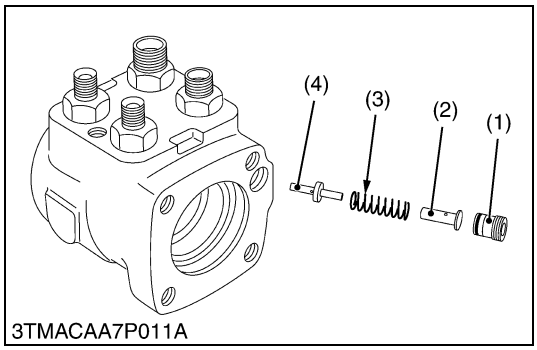
CONTENTS

1. STRUCTURE 6-M1
[1] 4 WHEEL DRIVE 6-M1
[2] 2 WHEEL DRIVE 6-M2

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(2) Disassembling Steering Controller



3TMACAA7P011A

Relief Valve Assembly

1. Remove the adjust plug (1) and draw out the collar (2), spring (3) and poppet (4).

(When reassembling)

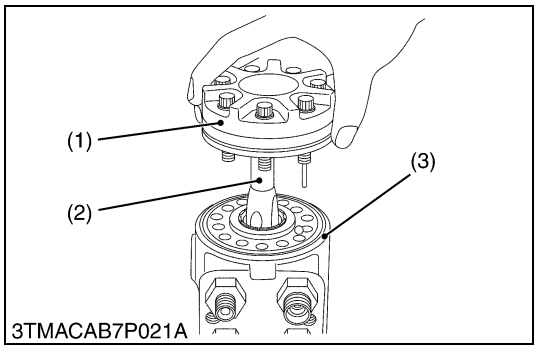
- Take care not to damage the O-ring.

■ **IMPORTANT**

- **After disassembling and assembling the relief valve, be sure to adjust the relief valve setting pressure.**

(1) Adjust plug
(2) Collar
(3) Spring
(4) Poppet

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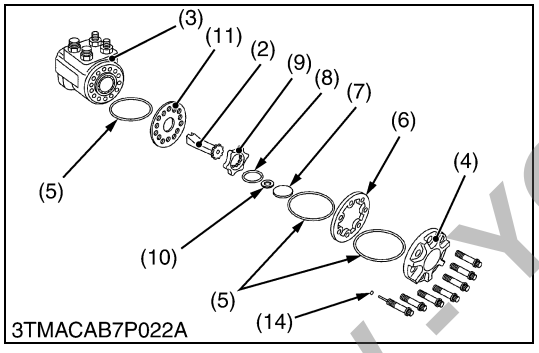
3TMACAB7P021A

Removing Gerotor

1. Secure the housing (3) in a vise and remove seven gerotor mounting screws and gerotor assembly (1).
2. Remove the distributor plate (11) and drive shaft (2).
3. Remove the rotor (9), O-ring (5) between the distributor plate and stator (6).
4. Take out the spacer ring (10) and space (7).
5. Remove the O-ring (8) from the rotor.

(When reassembling)

1. Fit an O-ring into the groove of the end cap (4), and insert 2 or 3 bolts.
2. Fit an O-ring into the groove of the stator (6), and put it on the end cap, with the O-ring upward.
3. Apply clean transmission fluid (specified fluid) to the rotor (9), fit an O-ring (8) into the groove of the rotor and put the spacer on it. Keeping the spacer on the rotor, fit it into the stator (6) with the spline bevelled side upward.
4. After putting the spacer into the rotor (9), insert the splines of drive shaft (2) into the rotor (9), aligning the direction of drive shaft pin groove (12) with the rotor tooth bottom (13).
5. Fit an O-ring into the groove of the housing.
   Fit the pin groove of the drive shaft (2) to the dowel pin inside the housing.

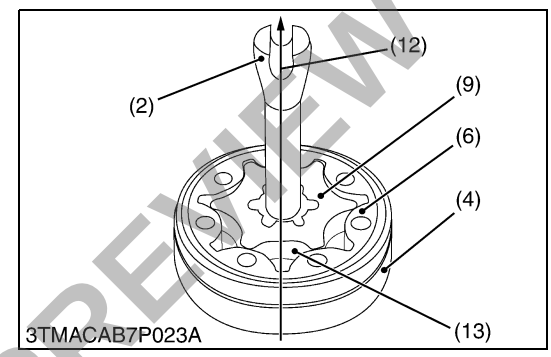


3TMACAB7P022A

■ **IMPORTANT**

- **Be sure to align the direction of the drive shaft pin groove (12) with the rotor tooth bottom (13).**

Tightening torque	Gerotor assembly mounting screw (5/16')	26 to 28 N·m 2.6 to 2.9 kgf·m 19 to 21 lbf·ft



3TMACAB7P023A

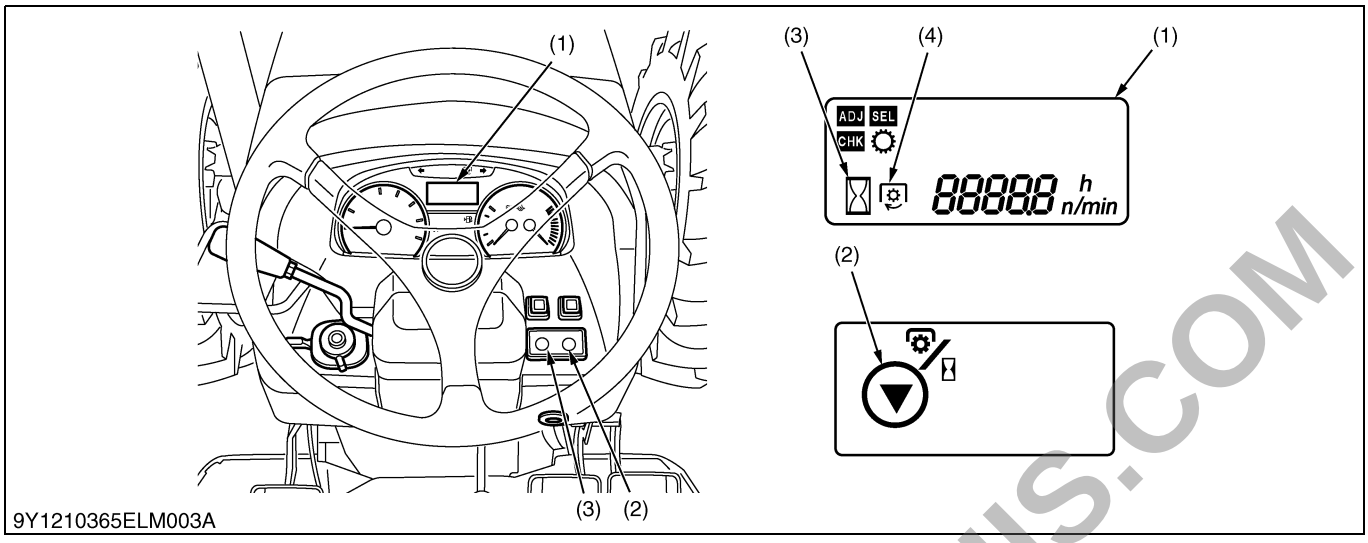
(1) Gerotor Assembly
(2) Drive Shaft
(3) Housing
(4) End Cap
(5) O-ring
(6) Stator
(7) Spacer
(8) O-ring
(9) Rotor
(10) Spacer Ring
(11) Distributor Plate
(12) Direction of Pin Groove
(13) Rotor Tooth Bottom
(14) Ball

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[3] LCD MONITOR INDICATION



(1) LCD Monitor
(2) PTO/Hour Meter Select Switch
(3) Hour Meter Indication
(4) PTO Indication

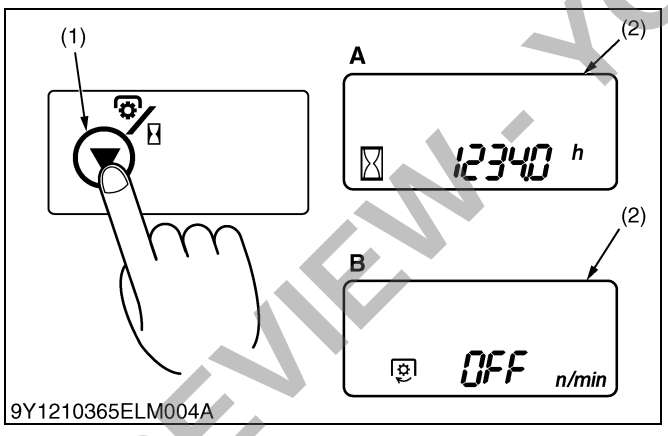
The LCD monitor (1) gives three different modes : "display mode", "setting mode" and "checking mode".

9Y1210365ELM0007US0

(1) Display Mode

1. The LCD monitor gives two different modes : "hour meter" and "PTO speed". Each time the PTO/Hour meter select switch is pressed, the mode is switched to the changing display.
2. The PTO clutch control lever works for the following automatic display modes.
   - PTO clutch control lever **"ON"** : traveling speed and PTO speed are displayed.
   - clutch control lever **"OFF"** : traveling speed and hour meter are displayed.

9Y1210365ELM0008US0



Switching Hour Meter Mode and PTO Speed Mode

Press the PTO/Hour meter select switch (1) to change the "hour meter mode" and "PTO speed mode".

(Hour meter mode)

- Total operating hours are displayed.
- The hour meter indicates in five digits the hours the tractor indicates in five digits the hours the tractor has been used; the last digit indicates 1/10 of an hour.

(PTO speed mode)

- PTO speed are displayed.
- When the PTO clutch control lever is in **"OFF"** position, **"OFF"** is displayed.

(1) PTO/Hour Meter Select Switch
(2) LCD Monitor

A : Hour Meter Mode
B : PTO Speed Mode

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