WSM

WORKSHOP MANUAL
TRACTOR

B2650HSDC,B3350HSDC

Kubota

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KiSC issued 12, 2012 A

INFORMATION

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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 try to repair or use this unit.**

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

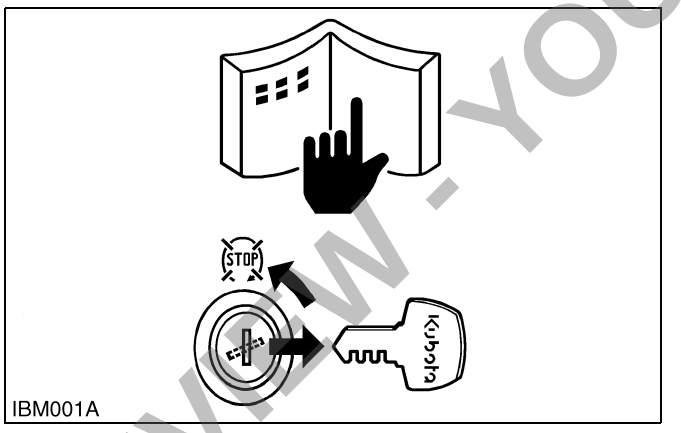
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

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

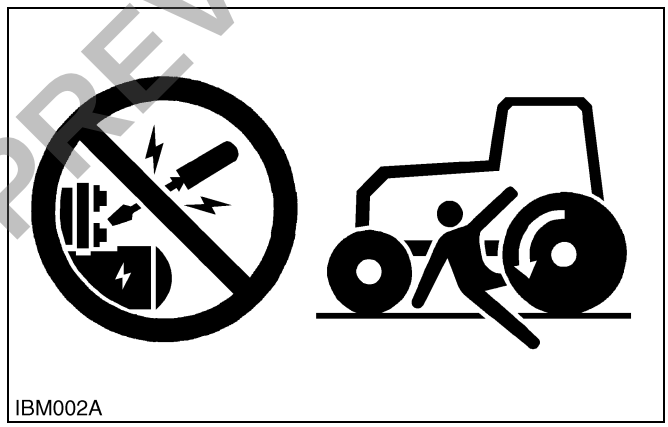
■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

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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.

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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.

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3. SPECIFICATIONS

Model			B2650HSDC	B3050HSDC
PTO power*			14.5 kW (19.5 HP)*	20.1 kW (27.0 HP)*
Engine	Maker		KUBOTA	
	Model		D1305-E4-D26-Q	V1505-T-E4-D26-Q
	Type		Indirect Injection, Vertical, water-cooled, 4 cycle diesel	
	Number of cylinders		3	4
	Bore and stroke		78 × 78.4 mm (3.1 × 3.1 in.)	
	Total displacement		1261 cm^3 (77.0 cu.in.)	1498 cm^3 (91.5 cu.in.)
	Engine gross power*		19.4 kW (26.0 HP)*	24.6 kW (33.0 HP)*
	Rated revolution		2500 min^{-1} (rpm)	
	Low idling revolution		1100 min^{-1} (rpm)	
	Maximum torque		84.0 N·m (8.6 kgf·m, 62.0 lbf·ft)	105.4 N·m (10.75 kgf·m, 77.74 lbf·ft)
	Battery		12 V, RC: 80 min, CCA: 430 A	
Capacities	Fuel tank		27 L (7.1 U.S.gals, 5.9 Imp.gals)	
	Engine crankcase (with filter)		4.0 L (4.2 U.S.qts, 3.6 Imp.qts)	4.8 L (5.1 U.S.qts, 4.2 Imp.qts)
	Engine coolant		4.3 L (4.5 U.S.qts, 3.8 Imp.qts)	
	Transmission case		15 L (4.0 U.S.gals, 3.3 Imp.gals)	
Dimensions	Overall length (without 3P)		2900 mm (114.2 in.)	
	Overall width		1365 mm (53.7 in.)	
	Overall height		2150 mm (84.6 in.)	
	Wheel base		1666 mm (65.6 in.)	
	Min. ground clearance		370 mm (14.6 in.)	
	Tread	Front	935 mm (36.8 in.)	
		Rear	1050 mm (41.3 in.)	
Weight			1040 kg (2293 lbs)	1110 kg (2447 lbs)
Traveling system	Clutch		–	
	Tread	Front	7-12	
		Rear	12.4-16	
	Steering		Hydrostatic type power steering	
	Transmission		Main-hydrostatic transmission, 3 range gear shift (3 forward, 3 reverse)	
	Brake		Wet disc type	
	Min. turning radius (with brake)		2.1 m(6.9 feet)	
Hydraulic unit	Hydraulic control system		Position control	
	Pump capacity		33.1 L/min (8.7 U.S.gals/min, 7.3 Imp.gals/min)	
	3-point hitch		SAE Category 1	
	Max. lift force	At lift points	970 kg (2139 lbs)	
		24 in. behind lift point	760 kg (1676 lbs)	
PTO	Rear-PTO		SAE 1-3/8, 6 splines	
	PTO / Engine speed		1 speed 563 / 2500 min^{-1} (rpm)	
	Rear-PTO		USA No. 5 (KUBOTA 10-tooth) involve spline	
	PTO / Engine speed		1 speed 2500 / 2500 min^{-1} (rpm)	

■ **NOTE**

- *** Manufacturer's estimate**

The company reserves the right to change the specifications without notice.

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6. MAINTENANCE CHECK LIST

No.	Item		Indication on hour meter														After since	Reference page		
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	800				
1	Clogging of air conditioner condenser screen	Clean																Daily	G-16		
2	Engine oil	Change	★	☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-22		
3	Engine oil filter	Replace	★			☆				☆				☆			☆	every 200 Hr	G-27		
4	Transmission oil filters	Replace	★					☆						☆				every 300 Hr	G-31		
5	Transmission fluid	Change	★					☆						☆				every 300 Hr	G-30		
6	Front axle case oil	Change						☆						☆				every 300 Hr	G-32		
7	Front axle pivot	Adjust								☆							☆	every 400 Hr	G-32		
8	Engine start system	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-21		
9	Greasing	–	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22		
10	Wheel bolt torque	Check	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	every 50 Hr	G-22		
11	Battery condition	Check		☆		☆		☆		☆		☆		☆		☆	☆	every 100Hr	G-23	*4	
12	Air cleaner element (Double element type) Primary element	Check		☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-25	*1	@
		Replace																every 1 year	G-33	*2	
	Air cleaner element (Double element type) Secondary element	Replace																every 1 year	G-33		
13	Fuel filter element	Clean		☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-25		@
		Replace								☆							☆	every 400 Hr	G-32		
14	Fan belt	Adjust		☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-26		
15	Brake	Adjust		☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-26		
16	Tension of air conditioner drive belt	Adjust				☆				☆				☆			☆	every 200 Hr	G-29		
17	Clogging of inner air filter	Clean				☆				☆				☆			☆	every 200 Hr	G-29		
18	Clogging of fresh air filter	Clean				☆				☆				☆			☆	every 200 Hr	G-30		
19	Clogging of air conditioner condenser	Check				☆				☆				☆			☆	every 200 Hr	G-30		
20	Radiator hose and clamp	Check				☆				☆				☆			☆	every 200 Hr	G-28		
		Replace																every 2 years	G-36		
21	Fuel line	Check		☆		☆		☆		☆		☆		☆		☆	☆	every 100 Hr	G-27		@
		Replace																every 2 years	G-36	*3	
22	Intake air line	Check				☆				☆				☆			☆	every 200 Hr	G-27		
		Replace																every 2 years	G-36	*3	
23	Toe-in	Adjust				☆				☆				☆			☆	every 200 Hr	G-28		

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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Tighten screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual according to the table below.

Indication on top of bolt	4 No-grade or 4T						7 7T						9 9T		
Indication on top of nut	No-grade or 4T												6T		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6	7.9 to 9.3	0.80 to 0.95	5.8 to 6.8	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.9 to 8.8	0.80 to 0.90	5.8 to 6.5	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8	18 to 20	1.8 to 2.1	13 to 15	17 to 19	1.7 to 2.0	13 to 14	24 to 27	2.4 to 2.8	18 to 20	18 to 20	1.8 to 2.1	13 to 15	30 to 34	3.0 to 3.5	22 to 25
M10	40 to 45	4.0 to 4.6	29 to 33	32 to 34	3.2 to 3.5	24 to 25	48 to 55	4.9 to 5.7	36 to 41	40 to 44	4.0 to 4.5	29 to 32	61 to 70	6.2 to 7.2	45 to 52
M12	63 to 72	6.4 to 7.4	47 to 53	–	–	–	78 to 90	7.9 to 9.2	58 to 66	63 to 72	6.4 to 7.4	47 to 53	103 to 117	10.5 to 12.0	76.0 to 86.7
M14	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

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[2] STUD BOLTS

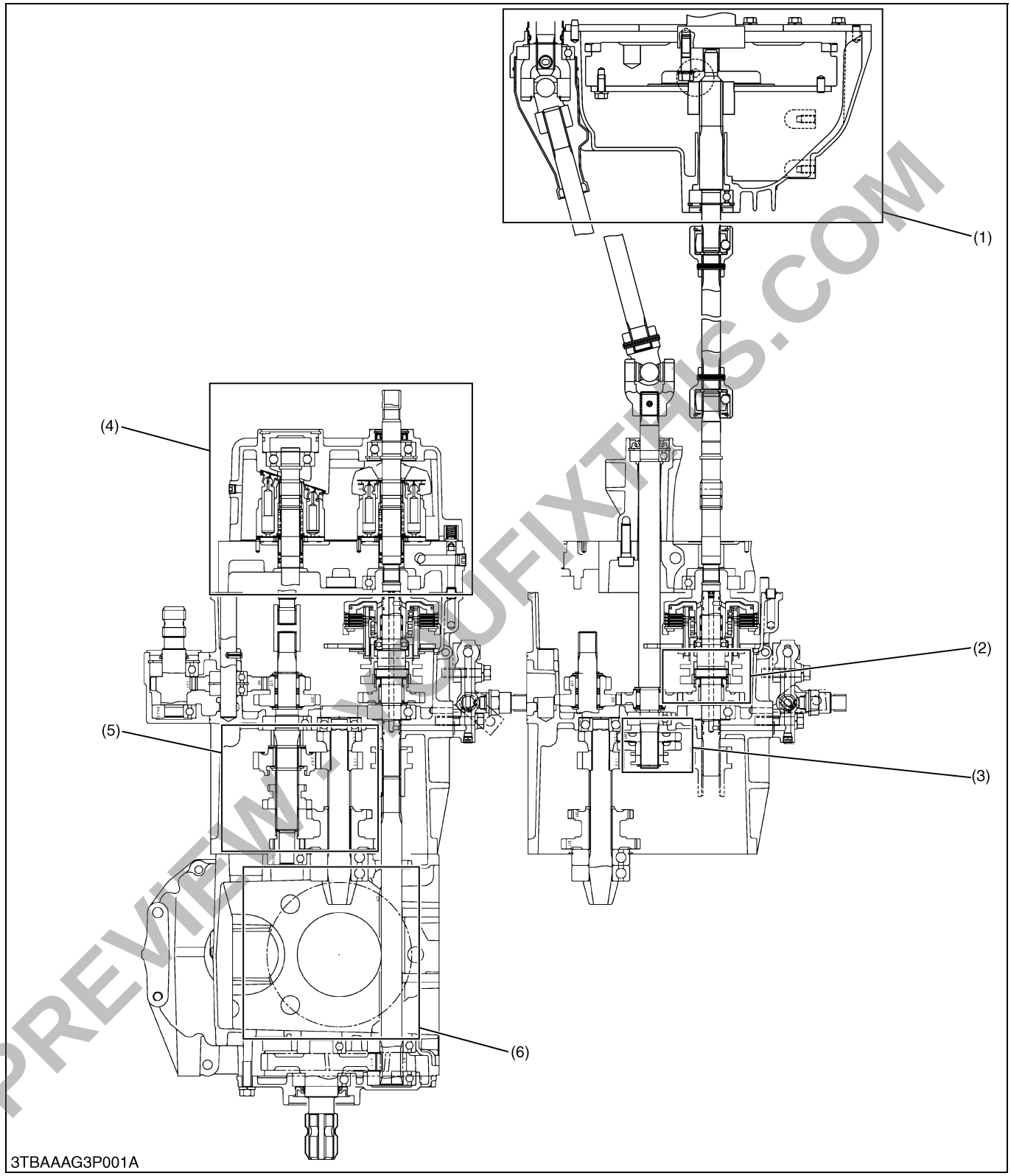
Material of opponent part	Ordinariness			Aluminum		
Unit	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8	12 to 15	1.2 to 1.6	8.7 to 11	8.9 to 11	0.90 to 1.2	6.5 to 8.6
M10	25 to 31	2.5 to 3.2	18 to 23	20 to 25	2.0 to 2.6	15 to 18
M12	30 to 49	3.0 to 5.0	22 to 36	31	3.2	23
M14	62 to 73	6.3 to 7.5	46 to 54	–	–	–
M16	98.1 to 112	10.0 to 11.5	72.4 to 83.1	–	–	–
M18	172 to 201	17.5 to 20.5	127 to 148	–	–	–

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1. STRUCTURE



(1) Front Case Section
(2) Rear PTO and Mid PTO Shift Section
(3) Front Wheel Drive Section
(4) Hydrostatic Transmission Section
(5) Range Gear Shift Section
(6) Differential Gear Section

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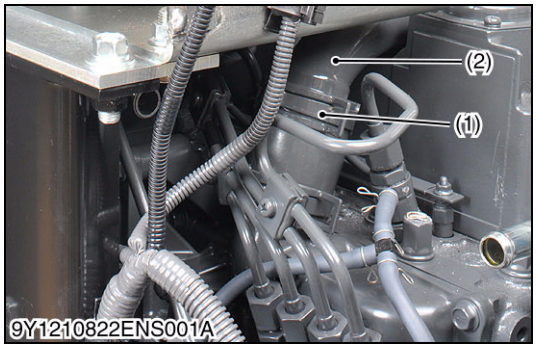
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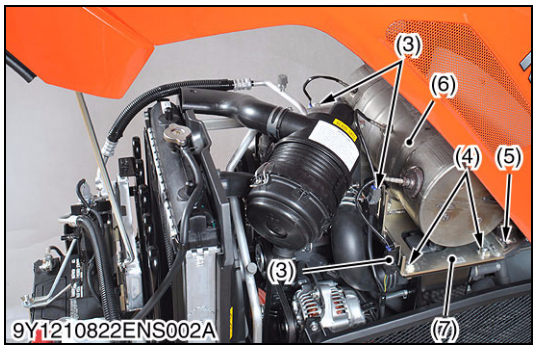
1. TROUBLESHOOTING

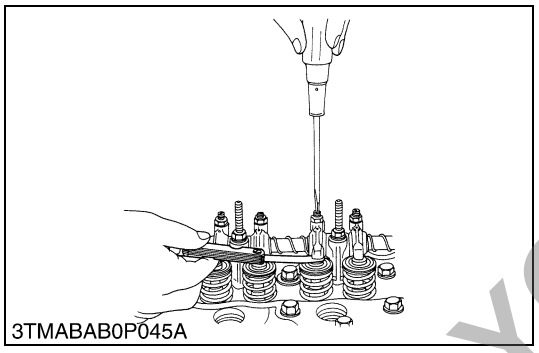
Symptom	Probable Cause	Solution	Reference Page
Engine Does Not Start	No fuel	Fill fuel	–
	Air in the fuel system	Bleed	G-36
	Water in the fuel system	Change fuel and repair or replace fuel system	–
	Fuel hose clogged	Clean or replace	G-27
	Fuel filter clogged	Replace	G-32
	Excessively high viscosity of fuel or engine oil at low temperature	Use specified fuel or engine oil	G-9
	Fuel with low cetane number	Use specified fuel	G-9
	Fuel leak due to loose injection pipe retaining nut	Tighten retaining nut	–
	Incorrect injection timing	Adjust	1-S17
	Fuel camshaft worn	Replace	1-S40
	Injection nozzle clogged	Clean or replace	1-S20
	Injection pump malfunctioning	Repair or replace	1-S39
	Seizure of crankshaft, camshaft, piston, cylinder or bearing	Repair or replace	–
	Compression leak from cylinder	Replace head gasket, tighten cylinder head screw, glow plug and nozzle holder	1-S34, 1-S36
	Improper valve timing	Correct or replace timing gear	1-S40
	Piston ring and cylinder worn	Replace	1-S43
	Excessive valve clearance	Adjust	1-S13
	Stop solenoid malfunctioning	Replace	1-S24
	Solenoid malfunctioning	Replace	1-S21
	Rack sensor malfunctioning	Replace	1-S21
Starter Does Not Run	Battery discharged	Charge	G-24
	Starter malfunctioning	Repair or replace	8-S49, 8-S52
	Key switch malfunctioning	Replace	8-S16
	Wiring disconnected	Connect	–

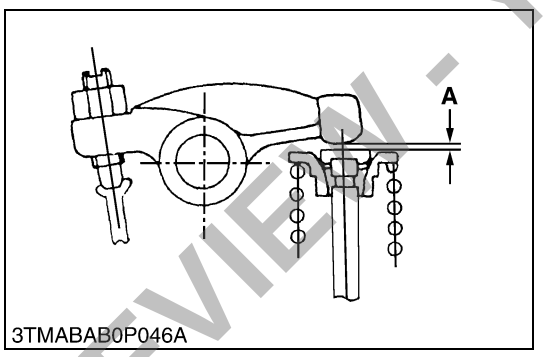
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Valve Clearance

■ **IMPORTANT**

- **Valve clearance must be checked and adjusted when engine is cold.**

1. Open the bonnet and disconnect the battery negative cable.
2. Remove the hose clamp (2). Disconnect the inlet hose (2).
3. Disconnect the connectors (3).
4. Remove the mounting bolts (4) and muffler mounting nuts (5).
5. Remove the DPF muffler (6) and muffler mount bracket (7).
6. Remove the head cover and the glow plugs.
7. See the No. 1 piston to the compression top dead center or overlap position.
8. Check the following valve clearance marked with "☆" using a feeler gauge.
9. If the clearance is not within the factory specifications, adjust with the adjusting screw.

Valve clearance	Factory specification	0.145 to 0.185 mm 0.00571 to 0.00728 in.

(When reassembling)

- After checking the valve clearance, tighten the glow plugs to the specified torque.
- Refer to 1-S26 regarding the details of DPF muffler.

Tightening torque	Glow plug	7.9 to 14 N·m 0.80 to 1.5 kgf·m 5.8 to 10 lbf·ft

(1) Clamp
(2) Inlet Hose
(3) Compressor
(4) Bolt
(5) Nut
(6) DPF Muffler
(7) Muffler Mount Bracket

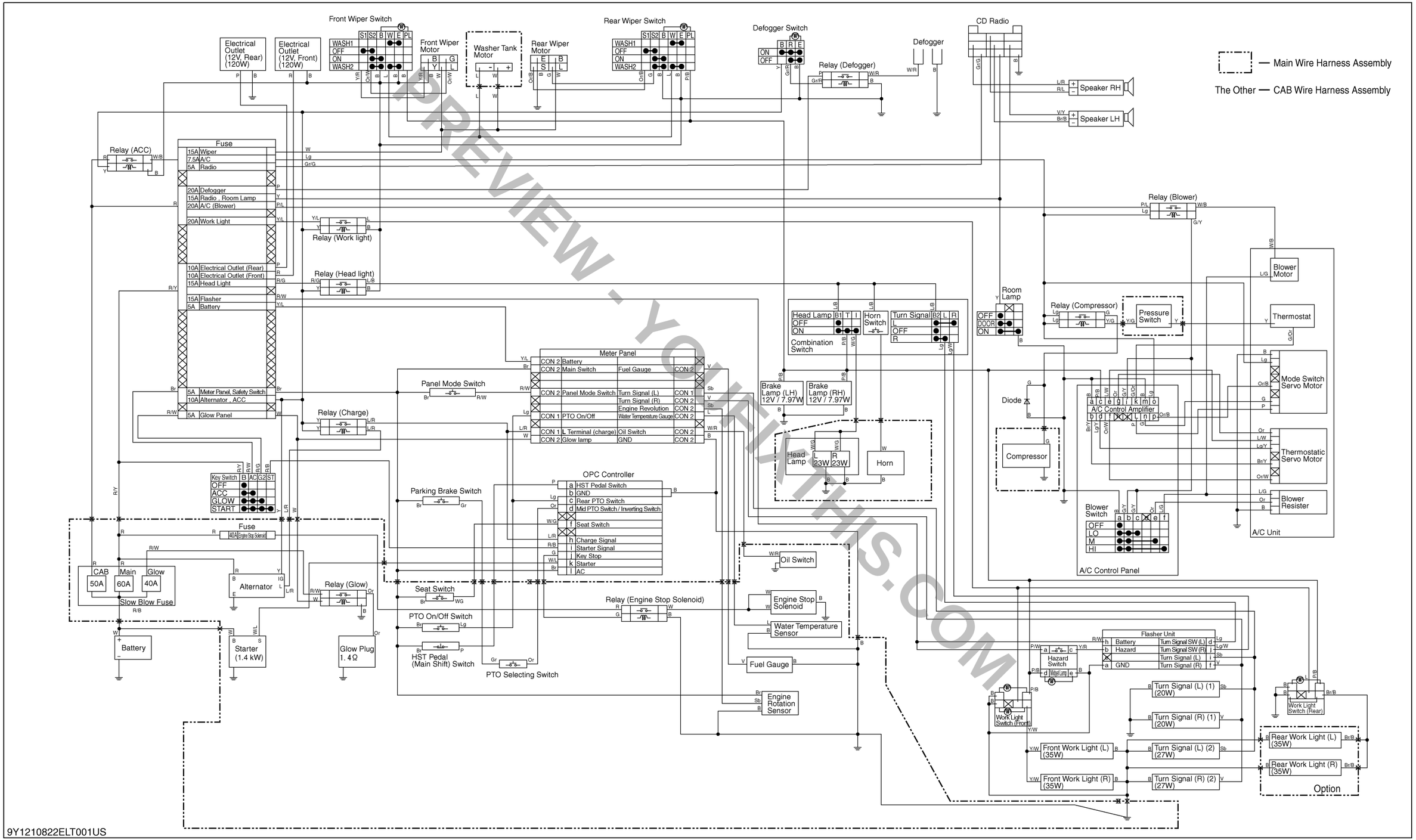
(To be continued)

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1. ELECTRICAL CIRCUIT

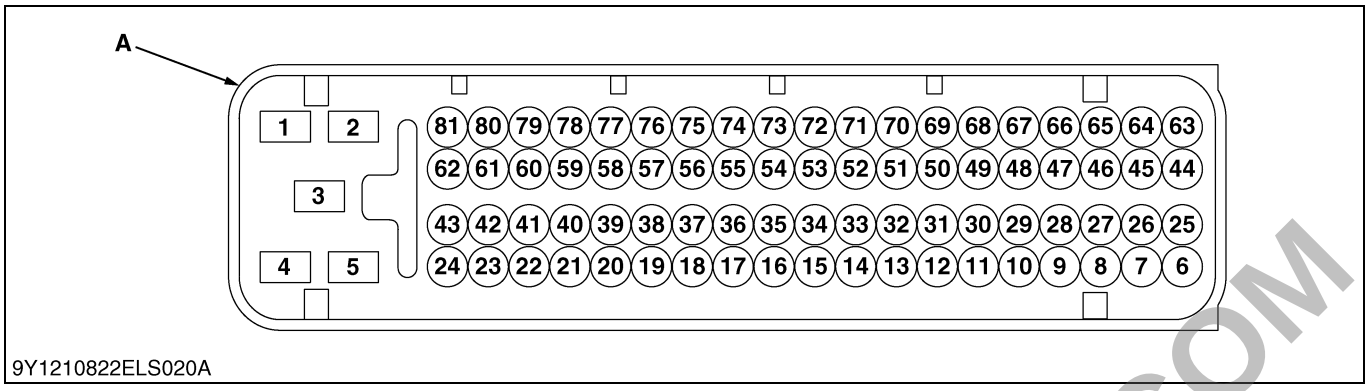
[1] B2650



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Checking by Electric Control Unit (ECU)



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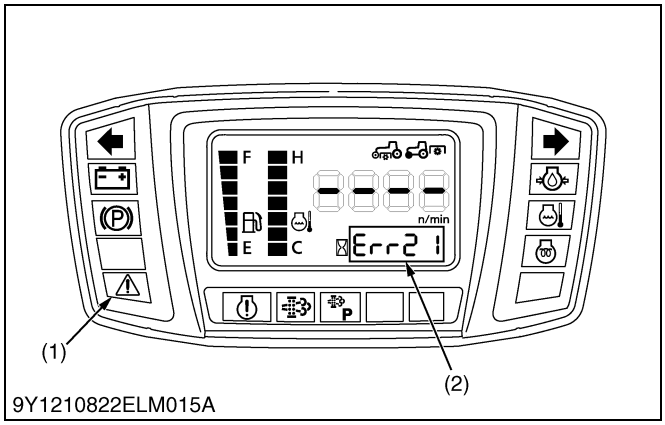
1	Battery (+B)	**28**	Analog GND	**55**	Analog Input 1-5
2	Battery (+B)	**29**	5 V Supply (Signal)	**56**	Analog Input 1-6
3	Motor Output 1	**30**	5 V Supply (Signal)	**57**	Analog Input 1-1
4	Motor Output 1	**31**	GND	**58**	Analog Input 1-3
5	Motor Output 2	**32**	GND	**59**	Switch Input 7 (High Active)
6	Analog Input 2-3	**33**	GND	**60**	Switch Input 9 (High Active)
7	Analog Input 2-5	**34**	Lamp Output 5 (Low Side)	**61**	Solenoid Output
8	Analog Input 2-7	**35**	Lamp Output 2 (Low Side)	**62**	Solenoid Output
9	Analog GND	**36**	Lamp Output 3 (Low Side)	**63**	CAN 1 (L)
10	Analog GND	**37**	Lamp Output 4 (Low Side)	**64**	CAN 1 (L)
11	5 V Supply (Signal)	**38**	GND	**65**	CAN 1 (H)
12	Solenoid Current Feedback Input	**39**	Switch Input B (High Active)	**66**	CAN 1 (H)
13	Solenoid Current Feedback Input	**40**	Key Switch Terminal (START)	**67**	Analog GND
14	GND (Engine Speed Sensor)	**41**	Key Switch Terminal (ACC)	**68**	Key Switch Terminal (GLOW)
15	Lamp Output (Low Side)	**42**	Key Switch Terminal (ACC)	**69**	Switch Input 1 (High Active)
16	12 V Supply (Engine Speed Sensor)	**43**	Key Switch Terminal (ACC)	**70**	Switch Input 5 (Low Active)
17	PWN Output 1 (Low Side)	**44**	CAN 2 (H)	**71**	Switch Input 4 (Low Active)
18	PWN Output 1 (Low Side)	**45**	CAN 2 (H)	**72**	Switch Input 6 (High Active)
19	GND	**46**	CAN 2 (L)	**73**	Switch Input 3 (Low Active)
20	PWN Output 2 (Low Side)	**47**	CAN 2 (L)	**74**	Switch Input 2 (Low Active)
21	PWN Output 3 (Low Side)	**48**	Analog GND	**75**	Analog Input 1-7
22	Relay Output 2 (Low Side)	**49**	Not Connect (System Reserve)	**76**	Analog Input 1-4
23	Relay Output 1 (High Side)	**50**	Not Connect (System Reserve)	**77**	Analog Input 1-2
24	Relay Output 1 (High Side)	**51**	Analog GND	**78**	Analog Input 2-1
25	Analog input 2-2	**52**	Not Connect (System Reserve)	**79**	Relay Output 4 (Low Side)
26	Analog input 2-4	**53**	Analog GND	**80**	Relay Output 5 (High Side)
27	Analog input 2-6	**54**	Engine Speed Sensor Input	**81**	Relay Output 3 (High Side)

A : ECU Connector of Wire Harness Side

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Power Train Error Code

1. If something is wrong with the power train, the master warning indicator (1) starts blinking and the error code is displayed on the LCD (2), indicating the location of the trouble.

[B2650]

Displayed error code	Trouble
ERROR-1	Water temperature sensor trouble
ERROR-2	Fuel sensor trouble
ERROR-3	Meter panel memory reading trouble

[B3350]

Displayed error code	Trouble
ERROR-2	Fuel sensor trouble
ERROR-3	Meter panel memory reading trouble
ERROR-21	CAN communication trouble

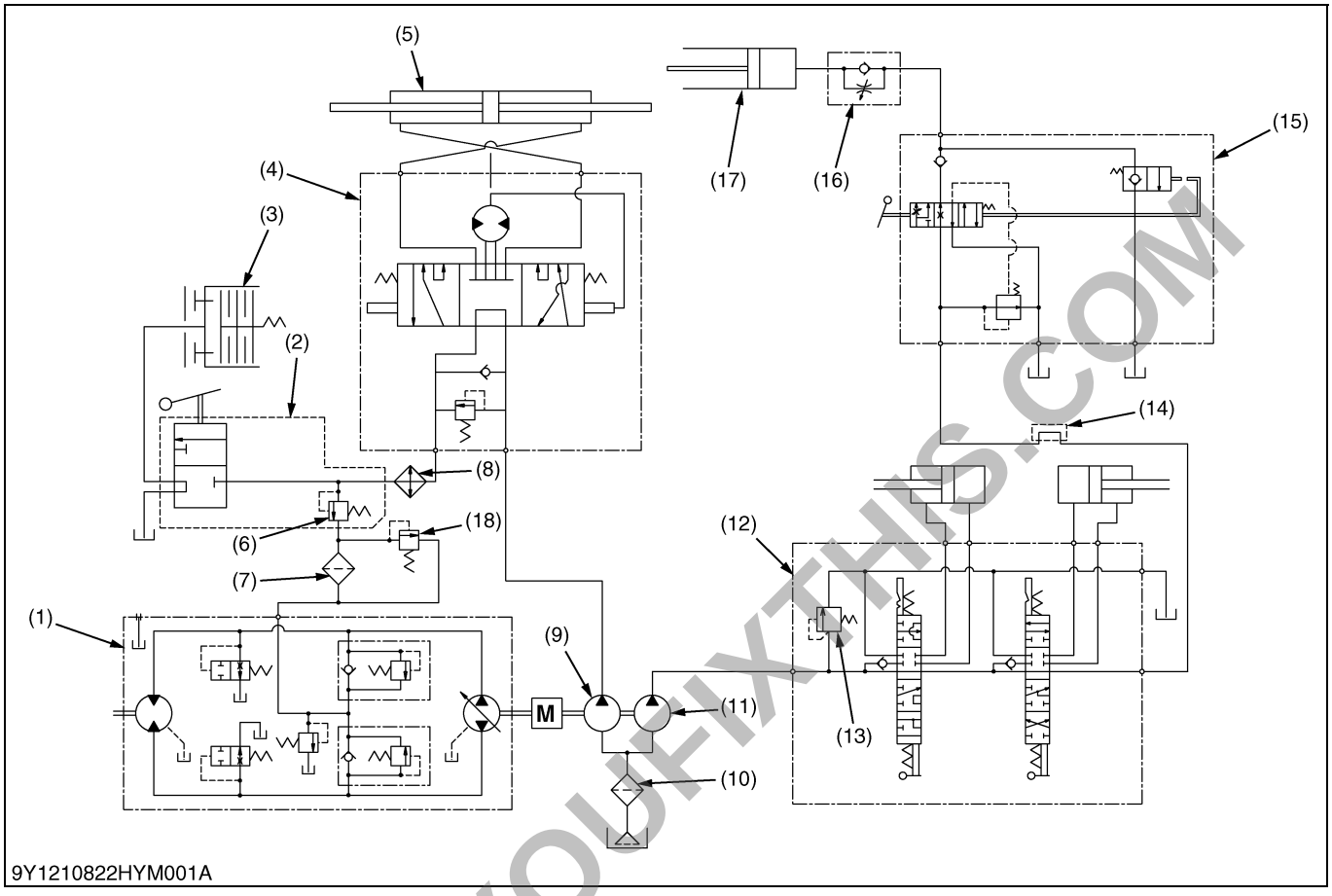
(1) Master Warning Indicator (2) LCD

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1. HYDRAULIC CIRCUIT



(1) Hydrostatic Transmission (HST)
(2) Independent PTO Control Valve
(3) Independent PTO Clutch
(4) Power Steering Controller
(5) Power Steering Cylinder
(6) Relief Valve
(7) Oil Filter Cartridge
(8) Oil Cooler
(9) Hydraulic Pump (for Power Steering, Independent PTO and HST)
(10) Oil Filter Cartridge
(11) Hydraulic Pump (for 3-Points Hitch)
(12) Hydraulic Block (for Front Loader)
(13) Relief Valve
(14) Hydraulic Block
(15) Control Valve
(16) Lowering Speed Adjusting Valve
(17) Hydraulic Cylinder
(18) Relief Valve

(1) Hydraulic System

The hydraulic system consist of hydraulic pumps (9) (11), power steering, independent PTO, HST (1), and 3-points hitch and other components.

1. Hydraulic power take off from the hydraulic block type outlet to operate the implements such as a front loader, front blade, rear blade and etc..
2. Hydraulic oil operates power steering, independent PTO clutch, HST and 3-point hitch.

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Symptom	Probable Cause	Solution	Reference Page
High Oil Pressure	Different type of oil	Use specified type of oil	G-9
	Relief valve damaged	Replace	–
Engine Overheated	Engine oil insufficient	Fill	G-19
	Fan belt broken or elongated	Replace or adjust	1-S15
	Coolant insufficient	Fill	G-9
	Radiator net and radiator fin clogged with dust	Clean	G-17
	Inside of radiator corroded	Clean or replace	G-34
	Coolant flow route corroded	Clean or replace	G-34
	Radiator cap damaged	Replace	1-S16
	Radiator hose damaged	Replace	G-28
	Overload running	Reduce the load	–
	Head gasket damaged	Replace	1-S36
	Incorrect injection timing	Adjust	1-S17
	Unsuitable fuel used	Use specified fuel	G-9
Battery Quickly Discharged	Battery electrolyte insufficient	Fill distilled water and charge	G-23
	Fan belt slips	Adjust belt tension or replace	1-S15
	Wiring disconnected	Connect	–
	Rectifier damaged	Replace	–
	Alternator damaged	Replace	–
	Battery damaged	Replace	–

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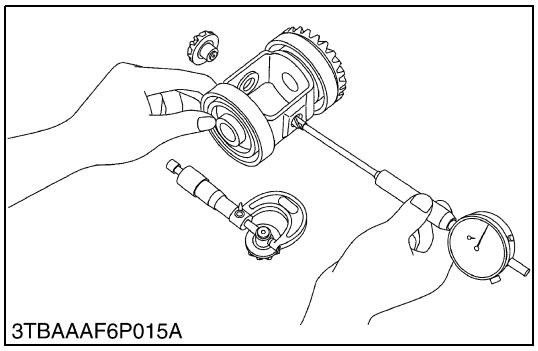
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[3] SERVICING


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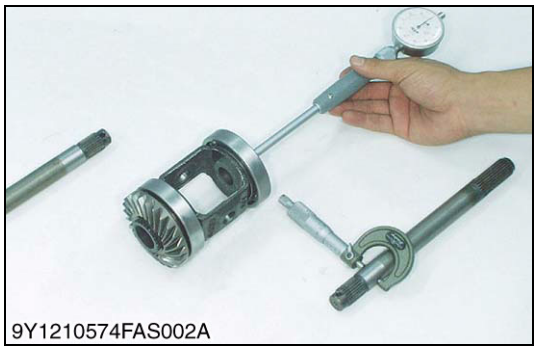
Clearance between Differential Case and Differential Pinion

1. Measure the differential pinion boss O.D. with an outside micrometer.
2. Measure the differential case bore I.D. with a cylinder gauge, and calculate the clearance.
3. If the clearance exceeds the allowable limit, replace faulty parts.

Clearance between differential case and differential pinion	Factory specification	0.032 to 0.068 mm 0.0013 to 0.0026 in.
	Allowable limit	0.2 mm 0.008 in.

Differential case bore I.D.	Factory specification	15.000 to 15.018 mm 0.59056 to 0.59125 in.
Differential pinion O.D.	Factory specification	14.950 to 14.968 mm 0.58859 to 0.58829 in.

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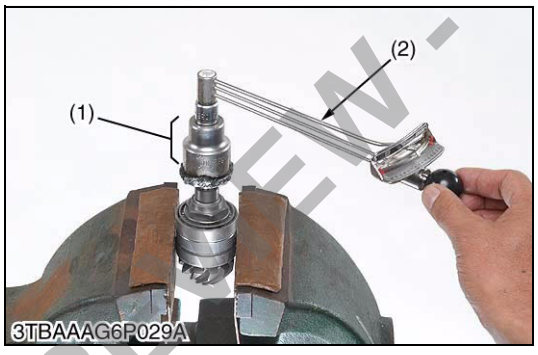
Clearance between Differential Case and Yoke Shaft

1. Measure the yoke shaft O.D. with an outside micrometer.
2. Measure the differential case bore I.D. with a cylinder gauge, and calculate the clearance.
3. If the clearance exceeds the allowable limit, replace faulty parts.

Clearance between differential case and yoke shaft	Factory specification	0.020 to 0.051 mm 0.00079 to 0.0020 in.
	Allowable limit	0.2 mm 0.008 in.

Differential pinion shaft I.D.	Factory specification	20.000 to 20.018 mm 0.78741 to 0.78811 in.
Yoke shaft O.D.	Factory specification	19.967 to 19.980 mm 0.78611 to 0.78661 in.

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Turning Torque of Spiral Bevel Pinion Shaft

1. Cramp the spiral bevel pinion shaft assembly to the vise and tighten the staking nut.
2. Measure the turning torque of bevel pinion shaft.
3. If the turning torque is not within the factory specifications, adjust with the lock nut.

Turning torque	Factory specification	0.80 to 1.0 N·m 0.08 to 0.10 kgf·m 0.59 to 0.73 lbf·ft

■ **NOTE**

- **After turning force adjustment, be sure to stake the lock nut.**

(1) Adaptor (2) Torque Wrench

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Seat Switch Continuity Check

1. Disconnect the seat switch connector (1).
2. Connect the circuit tester leads to the seat switch connector.

(When switch is not pushed)

1. Measure the resistance between terminals.
2. If continuity is not infinity, the switch is faulty. Replace it.

(When switch is pushed)

1. Measure the resistance between terminals.
2. If continuity is not 0 Ω, the switch is faulty. Replace it.

Resistance	When seat switch is not pushed	Infinity
	When seat switch is pushed	0 Ω

(1) Seat Switch Connector

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Parking Brake Switch Check

1. Disconnect the parking brake switch connector (1).
2. Connect the circuit tester leads to the parking brake switch terminals.

(When switch is not pushed)

1. Measure the resistance between terminals.
2. If continuity is not infinity, the switch is faulty. Replace it.

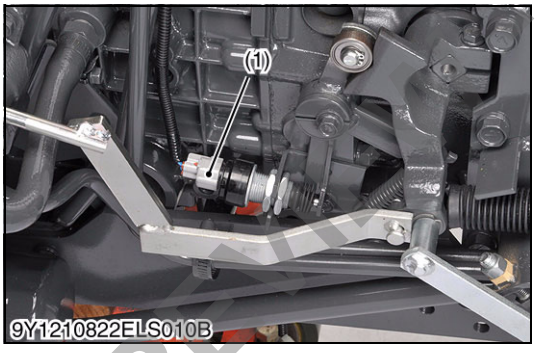
(When switch is pushed)

1. Measure the resistance between terminals.
2. If continuity is not 0 Ω, the switch is faulty. Replace it.

Resistance	When seat switch is not pushed	Infinity
	When seat switch is pushed	0 Ω

(1) Parking Brake Switch Connector

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HST Pedal Switch Check

1. Disconnect the HST pedal switch connector (1).
2. Connect the circuit tester leads to the HST **2P** connector.

(When the HST pedal is in "NEUTRAL" position)

1. Measure the resistance between terminals.
2. If continuity is not 0 Ω, the switch is faulty. Replace it.

(When the HST pedal is in "FORWARD" position)

1. Measure the resistance between terminals.
2. If continuity is not infinity, the switch is faulty. Replace it.

(When the HST pedal is in "REVERSE" position)

1. Measure the resistance between terminals.
2. If continuity is not infinity, the switch is faulty. Replace it.

Resistance	When the HST pedal is in **"NEUTRAL"** position	0 Ω
	When the HST pedal is in **"FORWARD"** position	Infinity
	When the HST pedal is in **"REVERSE"** position	Infinity

(1) HST Pedal Switch Connector

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