WSM

WORKSHOP MANUAL
TRACTOR

L2501

Kubota

KiSC issued 09, 2014 A

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MECHANISM

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2. SERVICING SPECIFICATIONS

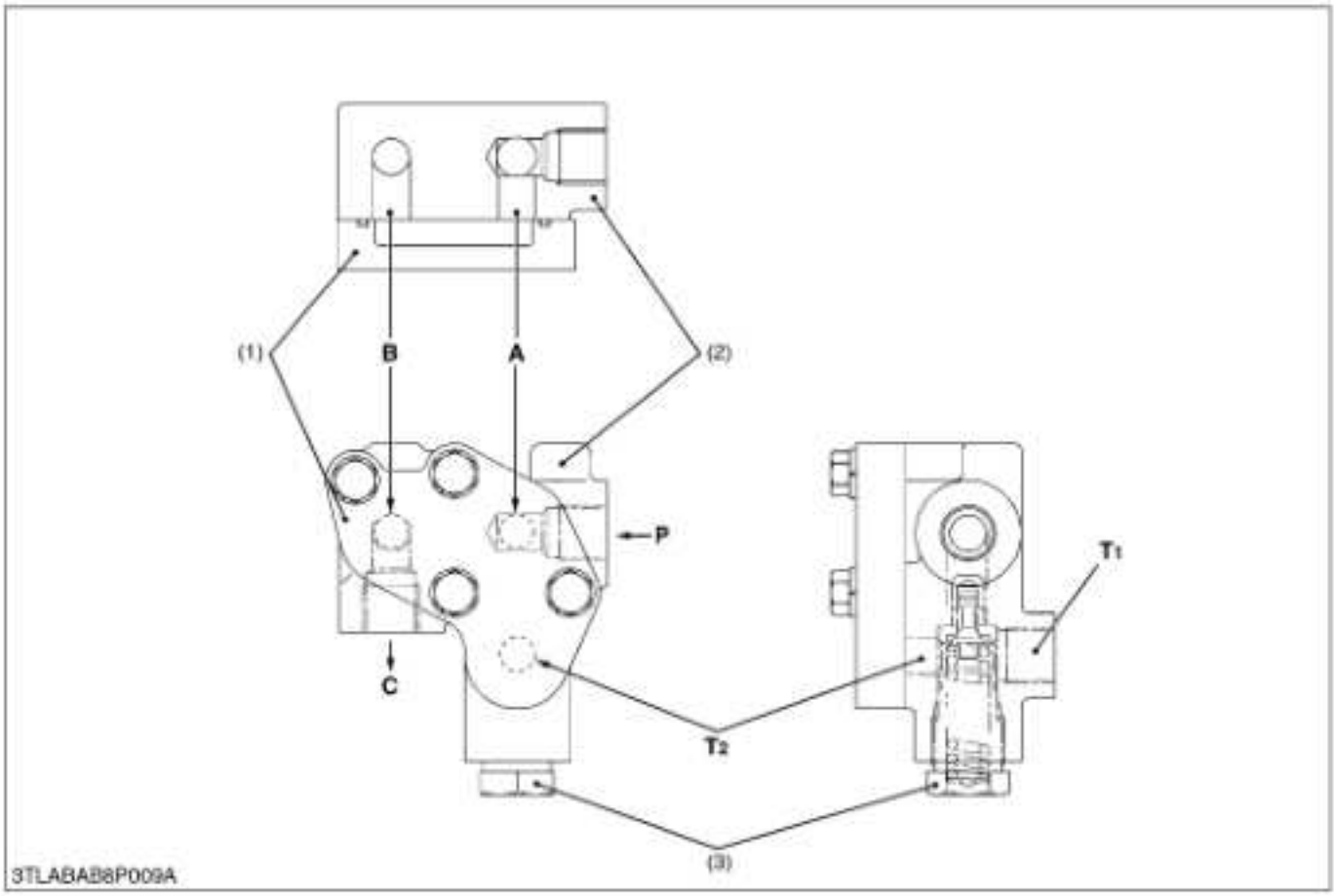
Item		Factory Specification	Allowable Limit
Steering Wheel	Play	20 to 50 mm 0.79 to 1.9 in.	–
Relief Valve **Condition** • Engine Speed: Maximum • Oil Temperature 40 to 60 °C (104 to 140 °F)	Steering Pressure [2WD]	7.8 to 8.8 MPa 80 to 90 kgf/cm^2 1200 to 1300 psi	–
	Steering Pressure [4WD]	10.7 to 11.7 MPa 110 to 119 kgf/cm^2 1560 to 1690 psi	–
Sector Gear and Ball Nut	Backlash	0.3 mm 0.01 in.	–
Valve Housing and Sleeve	Clearance	0.17 to 0.28 mm 0.0067 to 0.011 in.	0.4 mm 0.02 in.
Steering Gear Box and Ball Nut	Clearance	0.035 to 0.080 mm 0.0014 to 0.0031 in.	0.15 mm 0.0059 in.
Ball Nut Assembly	Axial Play	0.02 mm 0.0008 in.	0.04 mm 0.001 in.

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4. FRONT HYDRAULIC BLOCK

[1] STRUCTURE



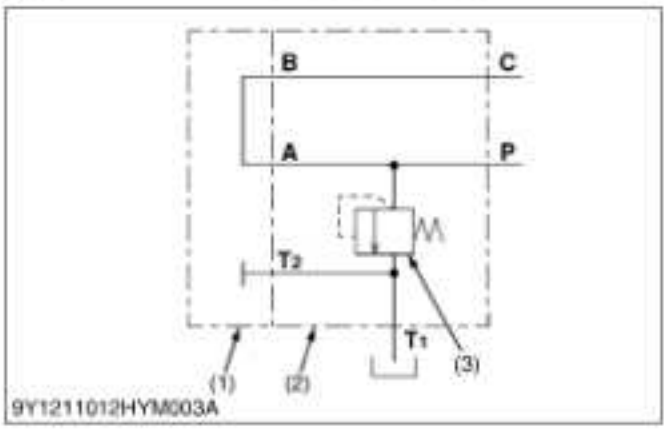
(1) Cap
(2) Front Hydraulic Block
(3) Relief Valve

A: To Implement Control Valve
B: From Implement Control Valve
C: To Position Control Valve
P: From Hydraulic Pump
T_1: To Transmission Case
T_2: From Implement Control Valve

The front hydraulic block (2) is provided to take power out from the tractor to operate the hydraulic cylinders on the implement, such as front loader, front blade and so on.

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[2] HYDRAULIC CIRCUIT



(1) Cap
(2) Front Hydraulic Block
(3) Relief Valve

A: To Implement Control Valve
B: From Implement Control Valve
C: To Position Control Valve
P: From Hydraulic Pump
T_1: To Transmission Case
T_2: From Implement Control Valve

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1. TROUBLESHOOTING

ALL ELECTRICAL EQUIPMENTS

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
All Electrical Equipments Do Not Operate	1. Battery discharged or damaged	Recharge or replace	G-23, 9-S7
	2. Battery positive cable disconnected or improperly connected	Repair	9-S7
	3. Battery negative cable disconnected or improperly connected	Repair	9-S7
	4. Slow blow fuse blown	Replace	G-35

BATTERY

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Battery Discharges too Quickly	1. Battery damaged	Replace	G-22
	2. Alternator damaged	Replace	9-S18
	3. Wiring harness disconnected or improperly connected (between battery positive terminal and alternator **B** terminal)	Repair or replace	9-S18
	4. Cooling fan belt slipping	Adjust	G-24

STARTING SYSTEM

Symptom	Probable Cause and Checking Procedure	Solution	Reference Page
Starter Motor Does Not Run	1. Safety switch improperly adjusted	Adjust	9-S10, 9-S11
	2. Battery damaged	Recharge or replace	G-22
	3. Safety switch damaged	Replace	9-S10, 9-S11
	4. Slow blow fuse blown	Replace	G-35
	5. Fuse blown	Replace	G-35
	6. Main switch damaged	Replace	9-S9
	7. Starter motor damaged	Replace	9-S12
	8. OPC timer damaged	Replace	9-S17

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Outer Components

1. Remove the seat (1).
2. Remove the grip (2) and the floor sheet cover (3).
3. Disconnect the differential lock spring and rod.
4. Remove the center cover (4).

(1) Seat
(2) Grip (Front Wheel Drive Lever)
(3) Floor Sheet Cover
(4) Center Cover

[A] 4WD

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Electrical Wiring

1. Disconnect the **2P** connectors (1).
2. Disconnect the ground cable (2).
3. Remove the clips (3) and the wiring (4).

(1) **2P** Connector (PTO Safety Switch)
(2) Ground Cable
(3) Clip
(4) Wiring

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[2] SAFETY SWITCH

(1) Manual Transmission Type



PTO Gear Shift Lever Switch

PTO gear shift lever switch (1) is mounted on the clutch housing case (3).

When the PTO gear shift lever (2) is set to **"OFF"** position, the switch is turned to **"ON"**.

It serves as a safety switch of engine starting and OPC system.

(1) PTO Gear Shift Lever Switch (3) Clutch Housing Case
(2) PTO Gear Shift Lever

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Range Gear Shift Lever Switch

Range gear shift lever switch (1) is mounted on the switch stay under the guide.

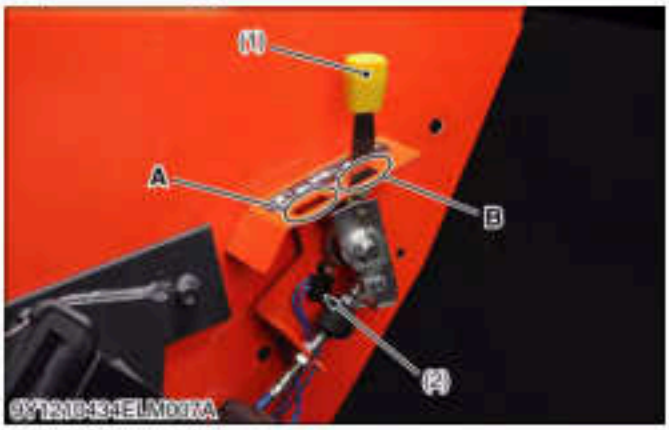
When the range gear shift lever (2) is set to **"Neutral"** position, the switch is turned to **"ON"**.

It serves as a safety switch of engine starting.

(1) Range Gear Shift lever Switch (2) Range Gear Shift lever

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(2) HST Type



PTO Switch

PTO switch (2) is mounted on the PTO shift lever stay.

It serves as a safety switch of engine starting and OPC system.

(1) PTO Shift Lever
(2) PTO Switch

A: "Engaged" position
B: "Disengaged" position

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HST Switch

HST switch (1) is mounted on the holder with steering support (2).

When the HST pedal is set to **"Neutral"** position, the switch is turned to **"ON"**.

HST switch (1) serves as a safety switch of engine starting and OPC system.

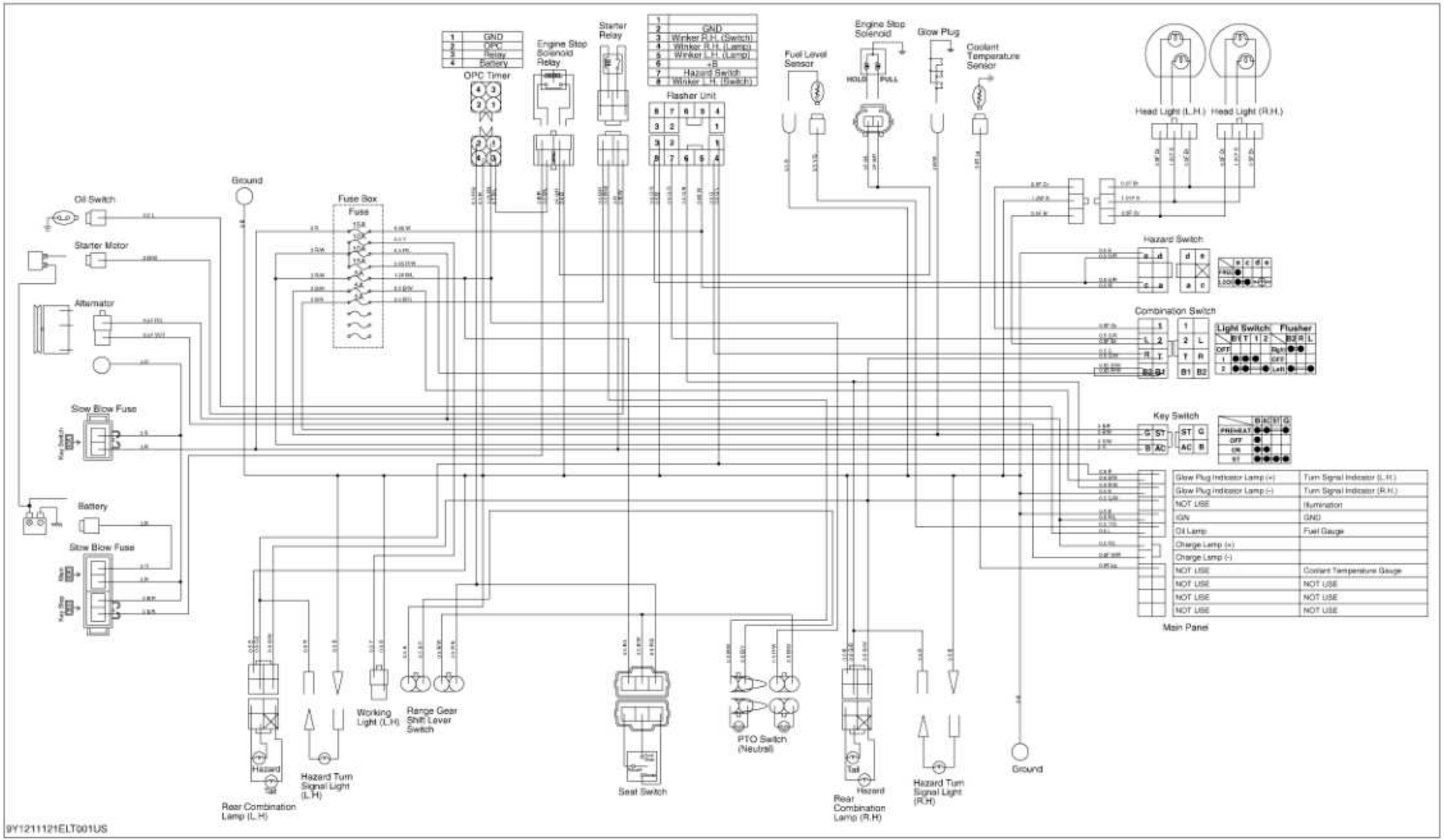
(1) HST Switch (3) Holder (HST Pedal Switch)
(2) Steering Support (4) Clutch Housing Case

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1. WIRING DIAGRAM

[1] MANUAL TRANSMISSION TYPE



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