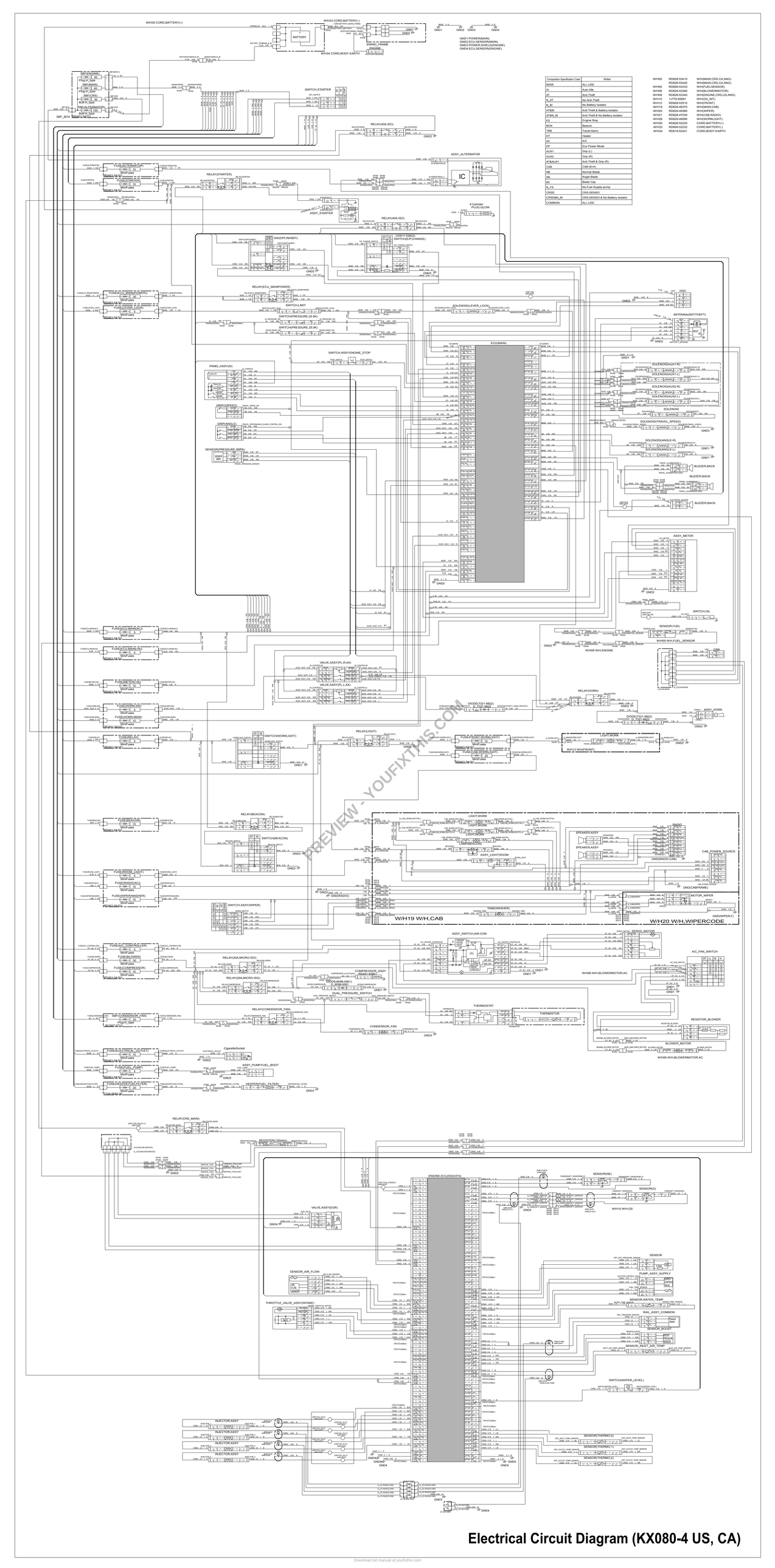
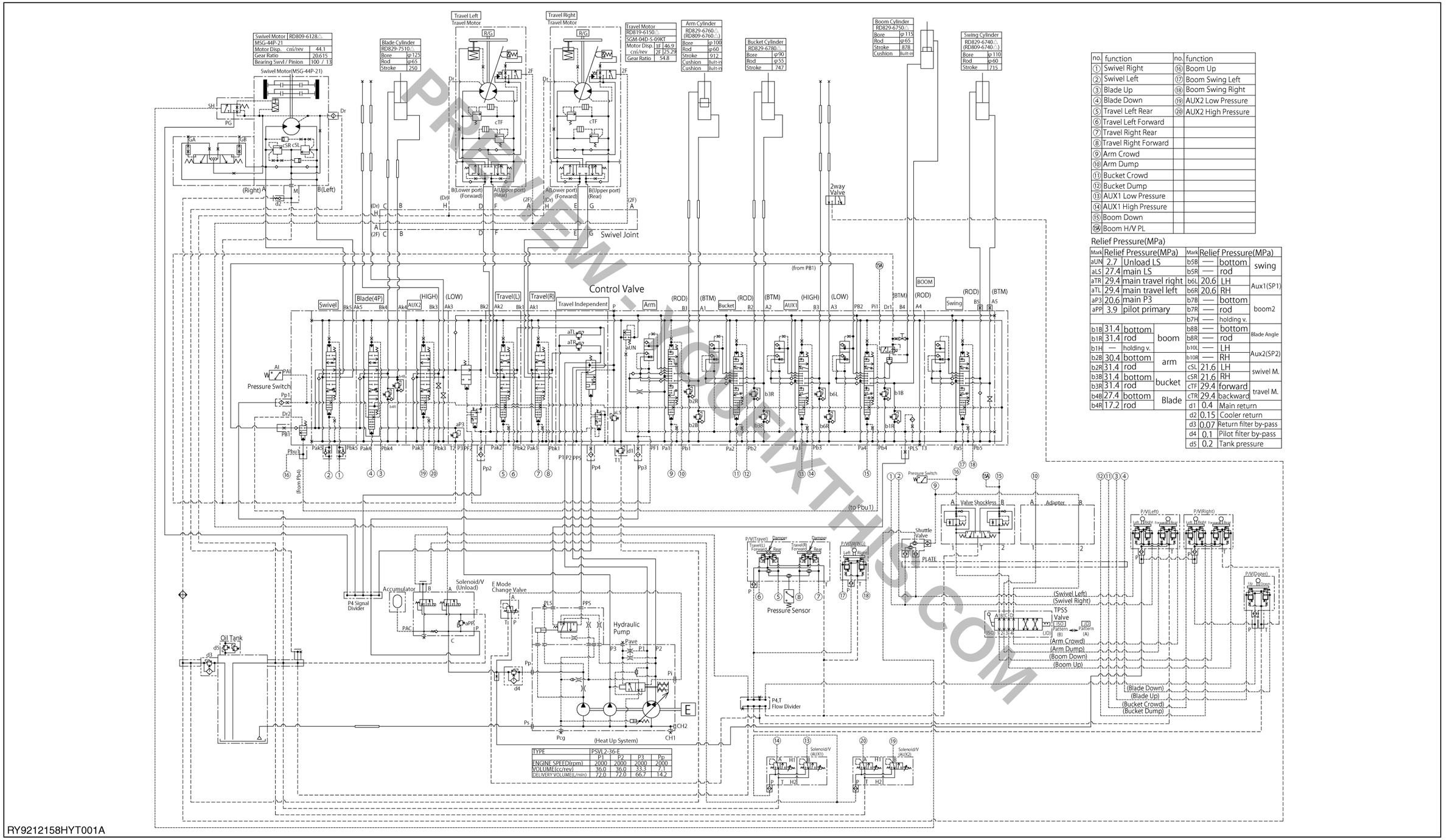

WH30 CORD.BATTERY(+)
WH33 CORD.BATTERY(-)
BATTERY
WH34 CORD.BODY EARTH
SWING_FRAME
ENGINE
GND1 GND2 GND3 GND4
GND1:POWER(MAIN)
GND2:ECU SENSOR(MAIN)
GND3:POWER,SHIELD(ENGINE)
GND4:ECU,SENSOR(ENGINE)
SWITCH,STARTER
RELAY(40A,ISO)
ASSY_ALTERNATOR
RELAY(STARTER)
ASSY_STARTER
RELAY(40A,ISO)
4-Cylinder
PLUG,GLOW
SW(OPT,INHIBIT)
SW(OPT,CHANGE)
RELAY(ECU_MAINPOWER)
SWITCH,BATT
SWITCH(PRESSURE,25.0K)
SWITCH(PRESSURE,25.0K)
SOLENOID,LEVER_LOCK
SWITCH,ENGINE_STOP
ECU(MAIN)
PANEL,ASSY(A)
GRIP(SPEED)
GRIP(ANGLE)
SENSOR(PRESSURE,AMP&)
ANTENNA(ANTITHEFT)
SOLENOID(SVTR)
SOLENOID(AUX2-R)
SOLENOID
SOLENOID(TRAVEL_SPEED)
SOLENOID(ANGLE-R)
SOLENOID(AUX1)
BUZZER,BACK
BUZZER,BACK
BUZZER,BACK
ASSY_METER
SWITCH,OIL
SENSOR,FUEL
WH05 WH,FUEL_SENSOR
WH09 WH,ENGINE
CAN
VALVE,ASSY(PL,R,AX)
VALVE,ASSY(PL,L,AX)
DIODE(E7321-9922)
DIODE(E7321-9922)
RELAY(HORN)
ASSY_HORN
DIODE(E7321-9922)
LIGHT,WORK
WH12 WH(FRONT)
FUSE(ECU-MAIN,40 A)
FUSE(ECU-MAIN-HD)
FUSE(MOTION-HD)
FUSE(HEATER,50A)
FUSE(HORN,10A)
FUSE(HORN-MAIN)
FUSE(LIGHT)
FUSE(CAB-WORK,10A)
FUSE(CAB-WORK,5A)
FUSE(CAB-WORK,5A)
FUSE(CAB-WORK,5

1. DIAGRAM OF HYDRAULIC CIRCUIT

[1] DIAGRAM OF HYDRAULIC CIRCUIT (KX080-4 STANDARD SPECIFICATION)



no.	function	no.	function
①	Swivel Right	⑯	Boom Up
②	Swivel Left	⑰	Boom Swing Left
③	Blade Up	⑱	Boom Swing Right
④	Blade Down	⑲	AUX2 Low Pressure
⑤	Travel Left Rear	⑳	AUX2 High Pressure
⑥	Travel Left Forward		
⑦	Travel Right Rear		
⑧	Travel Right Forward		
⑨	Arm Crowd		
⑩	Arm Dump		
⑪	Bucket Crowd		
⑫	Bucket Dump		
⑬	AUX1 Low Pressure		
⑭	AUX1 High Pressure		
⑮	Boom Down		
⑮A	Boom H/V PL		

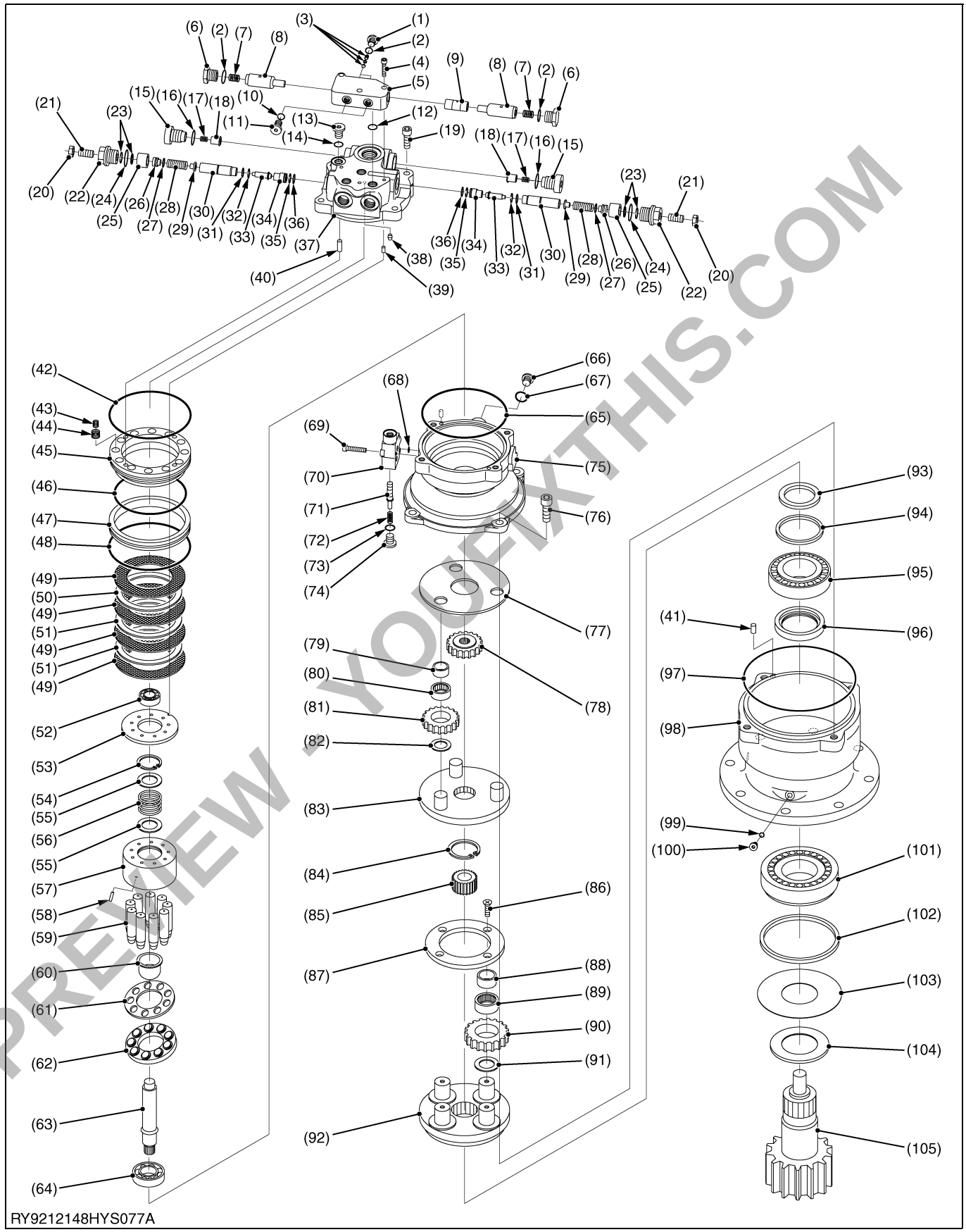
Relief Pressure(MPa)

Mark	Relief Pressure(MPa)		Mark	Relief Pressure(MPa)	
aUN	2.7	Unload LS	b5B	—	bottom swing
aLS	27.4	main LS	b5R	—	rod
aTR	29.4	main travel right	b6L	20.6	LH Aux1(SP1)
aTL	29.4	main travel left	b6R	20.6	RH
aP3	20.6	main P3	b7B	—	bottom boom2
aPP	3.9	pilot primary	b7R	—	rod
			b7H	—	holding v.
b1B	31.4	bottom boom	b8B	—	bottom Blade Angle
b1R	31.4	rod	b8R	—	rod
b1H	—	holding v.	b10L	—	LH Aux2(SP2)
b2B	30.4	bottom arm	b10R	—	RH
b2R	31.4	rod	cSL	21.6	LH swivel M.
b3B	31.4	bottom bucket	cSR	21.6	RH
b3R	31.4	rod	cTF	29.4	forward travel M.
b4B	27.4	bottom Blade	cTR	29.4	backward
b4R	17.2	rod	d1	0.4	Main return
			d2	0.15	Cooler return
			d3	0.07	Return filter by-pass
			d4	0.1	Pilot filter by-pass
			d5	0.2	Tank pressure

RY9212158HYT001A

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[2] SWIVEL MOTOR DISASSEMBLY/ASSEMBLY PROCEDURES



(To be continued)

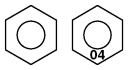
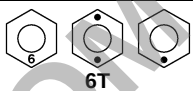
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6. TIGHTENING TORQUES

[1] TORQUES FOR GENERAL USE NUTS AND BOLTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 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	0.8 to 0.95	5.8 to 6.8	7.9 to 8.8	0.8 to 0.9	5.8 to 6.5	9.81 to 11.2	1.0 to 1.15	7.24 to 8.31	7.9 to 8.8	0.8 to 0.9	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	76 to 86.7
M14	108 to 125	11 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15	91.2 to 108	–	–	–	167 to 196	17 to 20	123 to 144
M16	167 to 191	17 to 19.5	123 to 141	–	–	–	197 to 225	20 to 23	145 to 166	–	–	–	260 to 304	26.5 to 31	192 to 224
M18	246 to 284	25 to 29	181 to 209	–	–	–	275 to 318	28 to 32.5	203 to 235	–	–	–	344 to 402	35 to 41	254 to 296
M20	334 to 392	34 to 40	246 to 289	–	–	–	368 to 431	37.5 to 44	272 to 318	–	–	–	491 to 568	50 to 58	362 to 419

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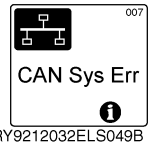
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[6] TABLE OF METER PANEL MESSAGES AND ERROR HISTORY LIST

(1) Red Warning Lamp Lit

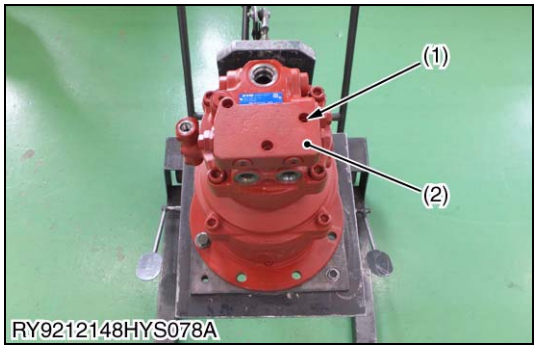
When needed, pressing switch 4 ⓘ displays a detailed description.

No.	Screen display	Pressing SW4 ⓘ	Message in fail record	Reason detected/steps to take
1	 RY9212032ELS044B	–	[Meter] Engine oil pressure error	a)Engine oil pressure low b)Oil switch always ON c)Short in harness
2	 RY9212032ELS045B	–	[Meter] Overheated	Engine overheated [118°C (244°F)--automatically goes to idle]
3	 RY9212032ELS046B	–	[Meter] Charging System Error	Low alternator voltage detected a)Alternator faulty b)Fan belt loose/off c)Break in harness d)Fuse blown (10 A)
4	 RY9212032ELS047B	–	[Meter] Fuel Sensor Error	a)Connector disconnected b)Break in harness
5	 RY9212032ELS049B	CANSys (main)	[Meter] CAN Sys (Main)	a)Connector disconnected b)ECU (+B) fuse blown (5 A) c)Break or short in harness
		CANSys (CRS)	[Meter] CAN Sys (CRS)	a)Connector disconnected b)Slow blow fuse (CRS) blown (30 A) c)Engine ECU relay faulty d)Break or short in harness
6	 RY9212148ELS043A	–	[Meter] Setup Data Error	Go through the model setup again. If this doesn't fix it, it's a faulty meter.
7	 RY9212148ELS060A	–	[Main ECU] Water mixed with fuel	a) Water mixed with fuel in the fuel filter [Reference value:80 to 130 ml (0.07 to 0.11 lmp·qts, 0.08 to 0.14 U.S.qts)] b)Short in the fuel filter line
8	 RY9212032ELS051B	2-speed solenoid	[Main ECU] 2-speed SOL	a)2-speed solenoid line short
9	 RY9212148ELS040A	AUX1 knob	[Main ECU] AUX1 knob	a)AUX1 knob connector disconnected b)Break or short in harness
		AUX1 right SOL	[Main ECU] AUX1 right SOL	a)AUX1 right solenoid connector disconnected b)Break or short in harness
		AUX1 left SOL	[Main ECU] AUX1 left solenoid	a)AUX1 left solenoid connector disconnected b)Break or short in harness

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(1) Disassembly Procedures



1. Mount the swivel motor on an assembly platform.
2. Remove the hex socket bolts and then the body.
   - Tool to use: 6 mm hex socket

(1) Hex socket bolt
(2) Body

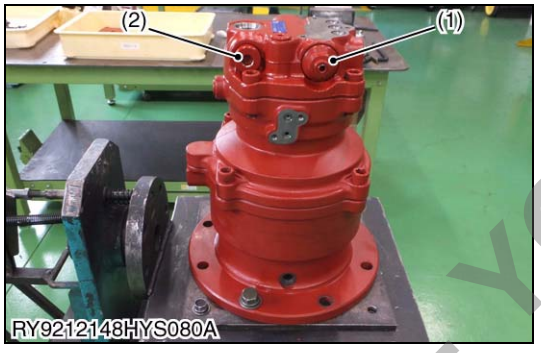
RY9212148HYS0098US0



3. Remove the hex socket bolts and then the valve body.
   - Tool to use: 5 mm hex socket

(1) Hex socket bolt
(2) Valve body

RY9212148HYS0099US0



4. Remove the relief valve and loosen the plug (both sides).
   - Tool to use: 27mm box wrench, 12m hex socket

(1) Relief valve
(2) Plug

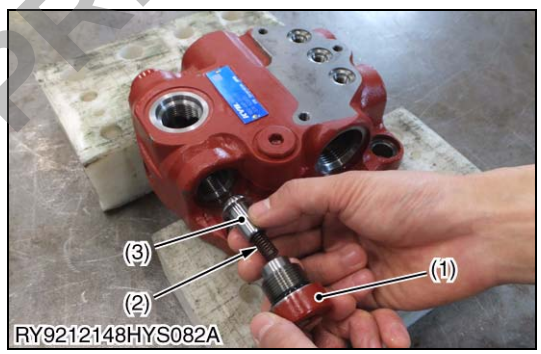
RY9212148HYS0100US0



5. Remove the hex socket bolts and then the cover.
   - Tool to use: 12 mm hex socket

(1) Hex socket bolt
(2) Cover

RY9212148HYS0101US0



6. Remove the plug, spring and poppet in order.
   - Tool to use: 12 mm hex socket

(1) Plug
(2) Spring
(3) Poppet

RY9212148HYS0102US0

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14. TROUBLESHOOTING

[1] TROUBLESHOOTING ALL ACTUATORS

When all actuators are slow or fail to work

- Likely to be a problem in the pilot system and/or with the engine.
- Check for problems in hydraulic oil level and/or quality.

No.	Cause	Remedy	Notes
1	Low engine RPM	• Check the engine RPM • Inspect fuel lines and air intake lines • Test the accelerator dial • Meter panel settings	
2	Faulty limit switch	• Check the operation of the limit switch Move the unload valve up/down and check for continuity in the tester mode. (when locked: OFF, when released: ON)	
3	Faulty unload valve	• Check unload valve operation 1. Disconnect the unload valve connector and test for continuity. 2. Check for damage to the spool.	
4	Pilot primary pressure relief valve (aPP) faulty	• Measure pilot primary pressure 1. Disassemble, clean and adjust or replace the relief valve	
5	Pump fitting Connector faulty	• Replace pump connector	
6	Pump drive shaft damaged	• Replace shaft	

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[2] TROUBLESHOOTING FRONT SYSTEMS

When just certain cylinder(s) fail to work, are slow or jerky

- Identify whether the fault is in the main system or the pilot system.
- If a circuit lacks power, test the pressure of the corresponding main relief valve or the overload relief valve.

No.	Cause	Remedy	Notes
1	Defective pilot valve	• Measure the pilot secondary pressure	
2	• Leak inside a cylinder • Leak inside a control valve	• Measure the hydraulic drift If hydraulic drift is outside of factory specs, take the following steps. 1. Exchange hoses with a normally operating section (on control valve side). 2. Test the hydraulic drift again. **[Assessment]** Within factory specs: control valve and/or overload relief valve faulty Outside specs: replace cylinder seals	
3	Overload relief valve faulty	• Diagnose the overload relief valve Temporarily replace with a known good overload relief valve and determine whether faulty or not.	
4	Main spool inside control valve sticking or damaged	• Inspect the main spool or replace the valve 1. Take the main spool out of the control valve and clean it. 2. After applying hydraulic oil, check whether it slides properly and return to the control valve.	
5	Pressure compensation valve sticking	• Inspect the pressure compensation valve 1. Take the pressure compensation valve out of the control valve and clean it. 2. After applying hydraulic oil, check whether it slides properly and return to the control valve.	

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4. MAIN SPECIFICATIONS

			KUBOTA EXCAVATOR				
Model name			KX080-4				
Type			Cabin			Angle Blade type Cabin	
Operating weight (including operator's weight)			Rubber tracks	Steel tracks (450 width)	Steel tracks (600 width)	Rubber tracks	Steel tracks (450 width)
			8280 kg 18254 lbs	8330 kg 18364 lbs	8460 kg 18475 lbs	8630 kg 19026 lbs	8680 kg 19136 lbs
Engine	Type		Water cooled 4 cycle diesel engine with 4 cylinder				
	Model name		KUBOTA V3307-CRS-T4				
	Total displacement		3331 cc (203.3 cu.in.)				
	Engine power	SAE gross	52.2 kW (70.0 Hp)				
		SAE net	48.8 kW (65.5 Hp)				
	Rated speed		2000 rpm				
	Low idling speed		1000 rpm				
Performance	Unit swing speed		9.5 rpm				
	Travel speed	Fast	4.9 km / h (3.1 mph)				
		Slow	2.7 km / h (1.7 mph)				
	Ground pressure (With operator)		36.0 kPa (0.367 kgf/cm^2) 5.22 psi	36.2 kPa (0.369 kgf/cm^2) 5.25 psi	27.6 kPa (0.281 kgf/cm^2) 4.00 psi	37.5 kPa (0.382 kgf/cm^2) 5.44 psi	37.7 kPa (0.384 kgf/cm^2) 5.47 psi
	Climbing angle		*36 % (20 deg)				
	Angle in case of crossing slope		*27 % (15 deg)				
Blade	Width x Height		2200 x 500 mm 86.6 x 19.7 in.			2200 x 510 mm 86.6 x 20.1 in.	
	Max swing	Left	–			0.44 rad (25 deg)	
		Right	–			0.44 rad (25 deg)	
Boom swing angle		Left	1.22 rad (70 deg)				
		Right	1.05 rad (60 deg)				
Pressure connection for attachments	Max. displacement (Theoretical)		100 L (26.4 U.S.gal) / min				
	Max. pressure		20.6 MPa 210 kgf/cm^2 2987 psi				
Fuel tank capacity			115 L (30.4 U.S.gal)				

■ **NOTE**
- **Above dimensions are based on the machine with KUBOTA original bucket and 2100 arm.**
- **Specifications subject to change without notice.**
- **With unloaded digging bucket.**
- **Firm compacted soil.**
- **Operators must exercise extra caution and follow instructions in the operator's manual.**
- **Worse condition or heavier attachment to the above will decrease climbing angle.**

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8. MAINTENANCE INTERVALS

No.	Check points		Measures	Hour meter indication																	Interval		
				50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1000			
1	Coolant		check	Daily check																			
			change																		every 2 years		
2	Fuel		check	Daily check																			
3	Engine oil		check	Daily check																			
			change										❍							❍	every 500 hrs		
4	Hydraulic oil		check	Daily check																			
			change																	❍	every 1000 hrs	*1	
5	Grease front attachments	Bucket and bucket link pin / Dozer angle pin and angle cylinder boss	–	Daily check																			
		Boom swing fulcrum	–		❍		❍		❍		❍		❍		❍		❍		❍	❍	every 100 hrs		
		Others	–					❍					❍					❍		❍	every 250 hrs		
6	Radiator and oil cooler		check	Daily check																			
7	Washer liquid		check	Daily check																			
8	Engine and electrical wiring		check	Daily check																			
9	Water separator		drain	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs		
10	Fuel tank		drain	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs		
11	Battery condition		check	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs		
12	Greasing swing bearing teeth		–	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	❍	every 50 hrs		
13	V-belt tension		check	Daily check																			
			adjust				❍				❍				❍				❍	❍	every 200 hrs		
14	Radiator hoses and clamps		check				❍				❍				❍				❍	❍	every 200 hrs		
			replace																		every 2 years		
15	Air filter element	Outer element	clean				❍				❍				❍				❍	❍	every 200 hrs	*2	
			replace																	❍	every 1000 hrs	*2	@
		Inner element	replace																	❍	every 1000 hrs	*2	
16	Greasing swing ball bearing		–				❍				❍				❍				❍	❍	every 200 hrs		
17	Fuel filter cartridge		replace										❍							❍	every 500 hrs		@
18	Engine oil filter		replace										❍							❍	every 500 hrs		
19	Drive unit oil		change	●									❍								every 500 hrs		
20	Hydraulic return filter cartridge		replace					●										❍			every 500 hrs		
21	Hydraulic suction filter element		replace																	❍	every 1000 hrs	*4	
22	Filter in the pilot hydraulic system		replace																	❍	every 1000 hrs	*4	
23	Injector tip		check																		every 1500 hrs	*4	@

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7. OIL AND WATER CAPACITY TABLE

Item		KX080-4	Notes
Engine oil (when filter changed)		9.7 L (2.6 U.S.gal)	API type, CJ-4
Coolant		10.5 L (2.77 U.S.gal)	Antifreeze Kubota LLC-N-50F Mixture ratio 50%
Reserve tank		1.3 L (0.34 U.S.gal)	
Fuel (full)		115 L (30.4 U.S.gal)	JIS #3 diesel
Hydraulic oil	Total volume (Std. spec.)	146 L (38.6 U.S.gal)	Tellus oil S2M46
	Inside tank (gauge middle)	75 L (20.0 U.S.gal)	
Travel motor		1.35 L (0.36 U.S.gal)	Gear oil SAE#90 (API GL-4)
Idler assy		80 ml (4.88 cu.in.)	Engine oil SAE #30CD (monograde)
Track rollers		80 ml (4.88 cu.in.)	
Carrier rollers		80 ml (4.88 cu.in.)	
Grease		–	EP2

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WSM

WORKSHOP MANUAL
KUBOTA EXCAVATOR

KX080-4

Kubota

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I INFORMATION

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4. MEASURING MACHINE PERFORMANCE

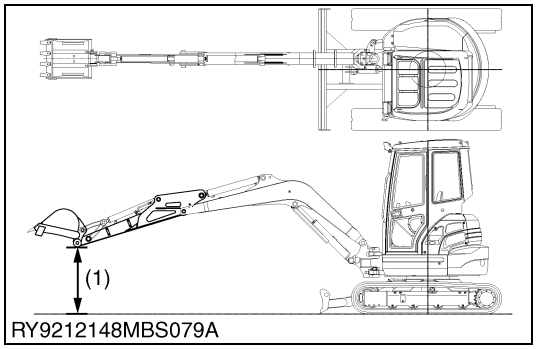
[1] MEASURING FRONT PERFORMANCE

(1) Measuring Swivel Gear Backlash

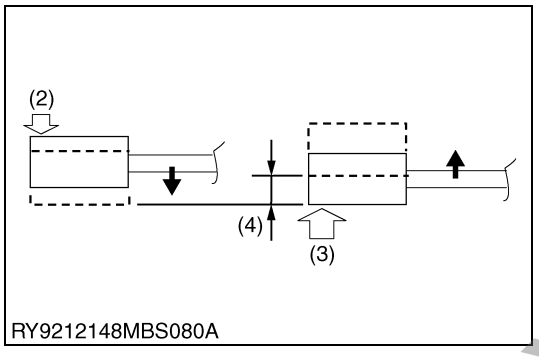
Purpose

- Measure the degree of overall wear in the front and replace pins and/or bushings or add shims as needed.
- When there is a great deal of play, it may cause wear in the swivel bearing teeth, swivel motor pinion gear and front pins and bushings.

RY9212148MBS0112US0



RY9212148MBS079A



RY9212148MBS080A

Measurement preparation

1. To make the measurements, position the machine so the arm cylinder and bucket cylinder are fully compressed with the end of the arm at a height of 1.0 m (40 in.) off the ground.
2. Stop the engine.

[Left play measurement]

1. Push to the right with 50 N (5.0kgf, 11 lbs) of pressure, making that position the zero point; then press to the left with 300 N (30 kgf, 67.4 lbs) of pressure and take a reading at that point.
2. Take three measurements, determine the average and take that as the measured value.

[Right play measurement]

1. Push to the left with 50 N (5.0 kgf, 11 lbs) of pressure, making that position the zero point; then press to the right with 300 N (30 kgf, 67.4 lbs) of pressure and take a reading at that point.
2. Take three measurements, determine the average and take that as the measured value.

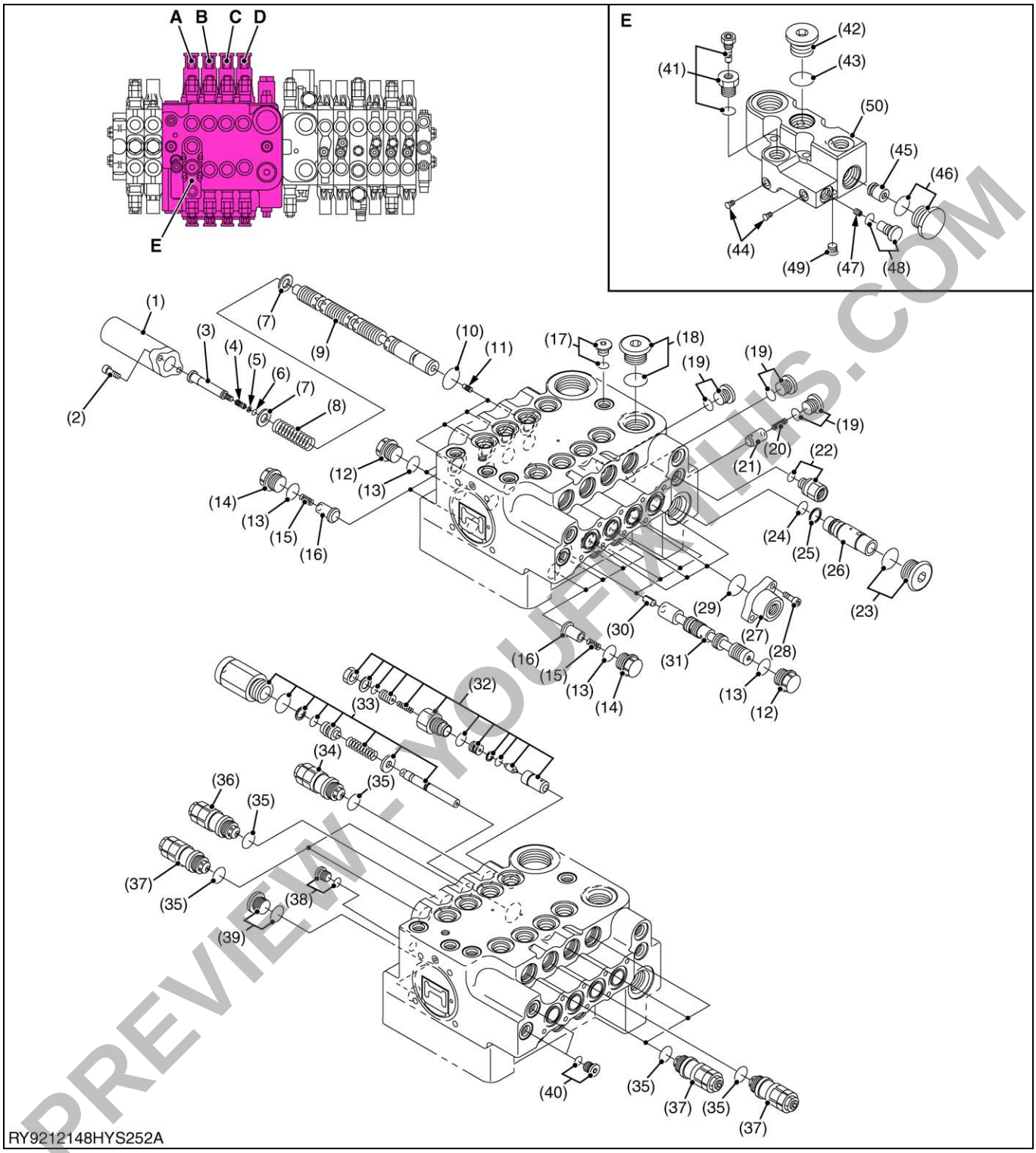
(1) 1.0 m (40 in.)
(2) 50 N (5.0 kgf, 11 lbs)
(3) 300 N (30 kgf, 67.4 lbs)
(4) Amount of play

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Mono-block Section Components



A : Boom section **C : Bucket section** **D : Arm section** **E : Emergency valve**
B : AUX1 section

- In the N. Am. spec., part E is different as it has an anti-drift valve.

No.	Name of part	Qty	Torque
(1)	Cap	4	
(2)	Hex socket bolt	8	8.8 to 11.0 N·m (0.9 to 1.1 kgf·m, 6.5 to 8.1 lbf·ft)
(3)	Spool stopper	4	
(4)	Spacer	2	
(5)	Backup ring	2	

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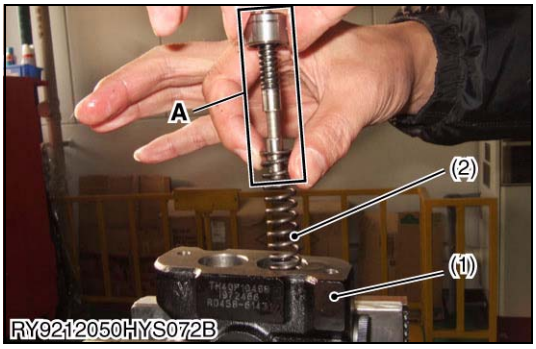


8. If the plug stays in the casing, use a slotted screwdriver to get the plug out.
   - Tool to use: Slotted screwdriver

■ **IMPORTANT**
- **Take care not to use too much force with the screwdriver when removing the plug so you don't damage it.**
- **Also note that the plug may pop out due to the force of the spring.**

(1) Plug

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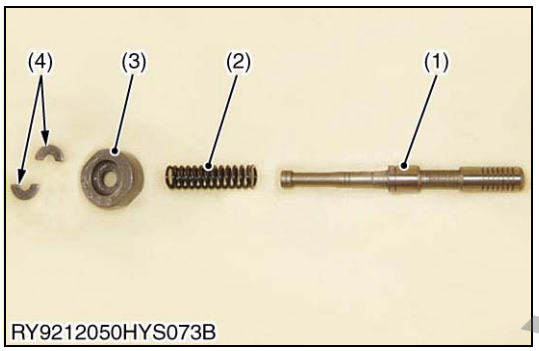


9. Remove the reducing valve and the return spring.

■ **IMPORTANT**
- **Be careful not to scratch the spool.**
- **Do not disassemble the reducing valve unless there is a problem with it.**

(1) Casing
(2) Return spring
A : Reducing valve

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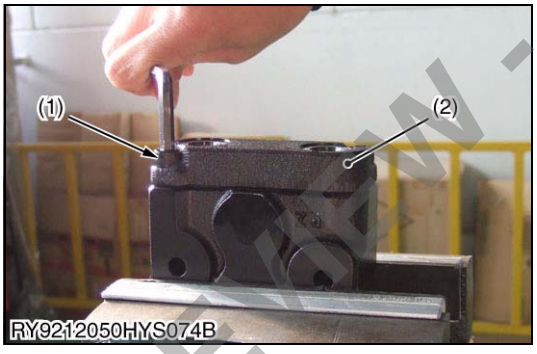


Reducing valve

■ **IMPORTANT**
- **Do not depress the spring seat more than 4mm (0.16 in.).**
- **The metal washer 2 is not used in the photo at left.**
- **The thickness of washer 2 varies for each spool due to the preset adjustment of the secondary pressure spring.**

(1) Spool
(2) Secondary pressure spring
(3) Spring seat
(4) Washer 1

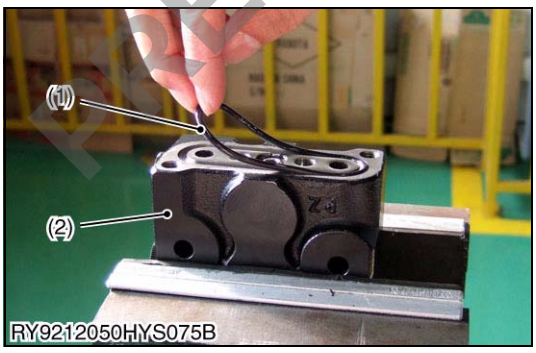
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10. Flip the casing over in the vise and remove the hex socket bolts and the port plate.
    - Tool to use: 6 mm hex socket

(1) Hex socket bolt
(2) Port plate

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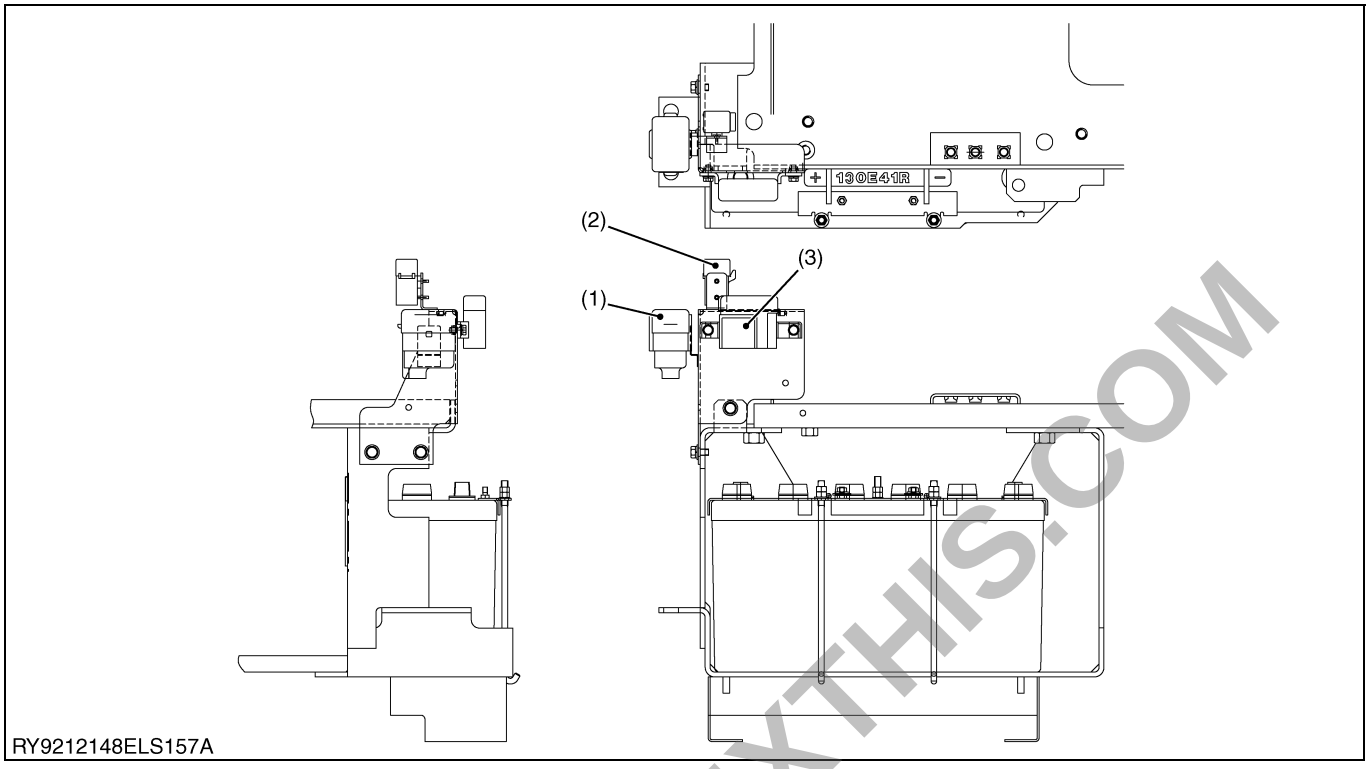
11. Remove the O-ring from the casing.

(1) O-ring
(2) Casing

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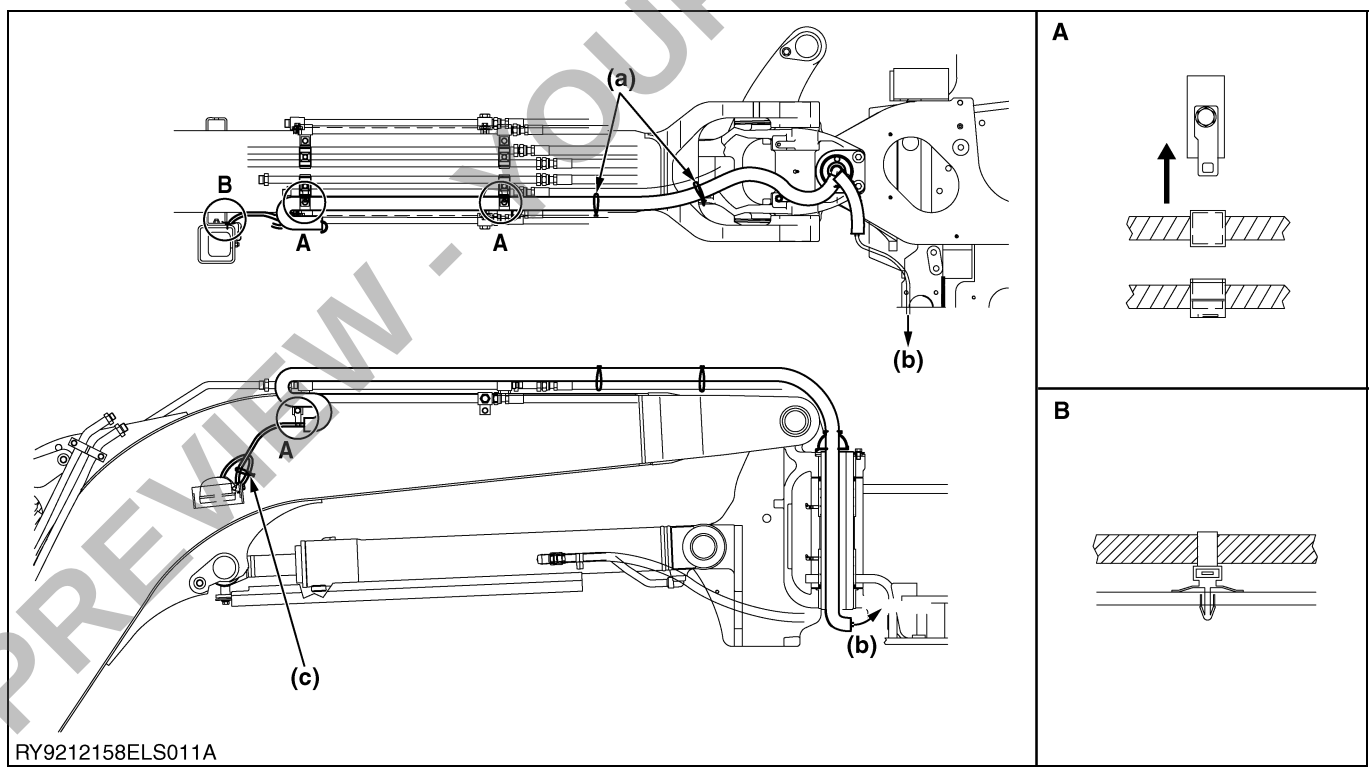
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(1) Relay box (2) Fuse box (condenser fan) (3) Slow-blow fuse box

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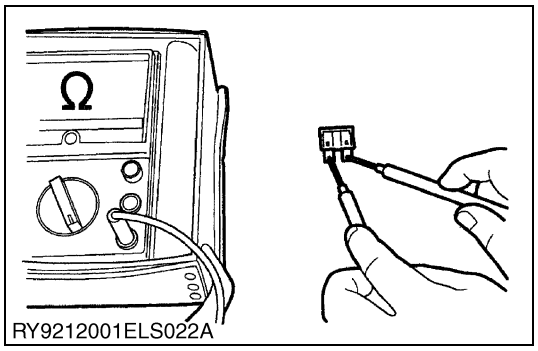
(a) Arm bottom hoses and clamps **(b) To main harness** **(c) Clamp wiring**

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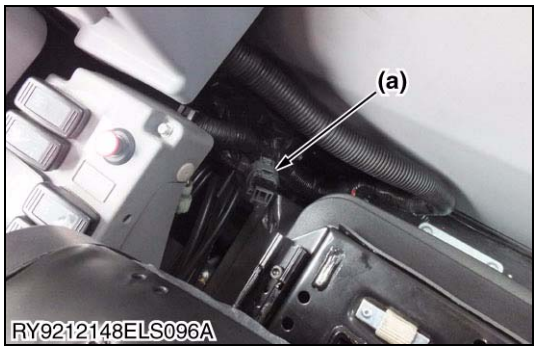
[B] Inspecting each Device Visually and Physically



1. Checking fuses

1. Check if the 5A ECU (+B) fuse is blown.

RY9212158ELS0008US0



2. Causes when a break in wiring

[Test Conditions]

1. Key switch: OFF
2. Check whether the joint connector is disconnected.
3. Check whether the machine's ECU connector is disconnected.

(a) Joint connector

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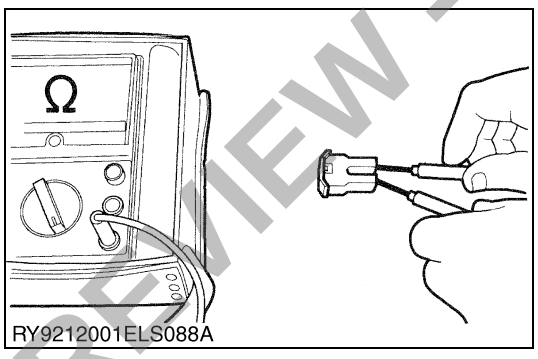
3. Causes when a short

[Test Conditions]

1. Key switch: OFF
2. The CAN connector wire is pinched against or touching the body.
   If the insulation is damaged, repair it properly and check the ECU (main) again in the tester mode.

(a) CAN communication (2 wires)

RY9212148ELS0129US0



1. Checking fuses

1. Check if the 30A ECU (CRS) slow blow fuse is blown.

RY9212148ELS0178US0



2. Checking relays

1. Replace the engine ECU and condenser motor relays.
   After replacing them, check for normal operation.

(a) Engine ECU relay **(b) Condenser motor relay**

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