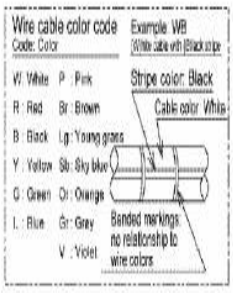
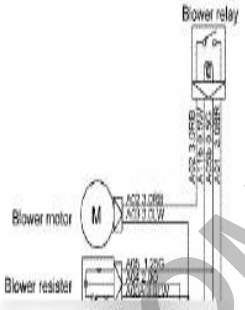
11.7.4 Air Conditi





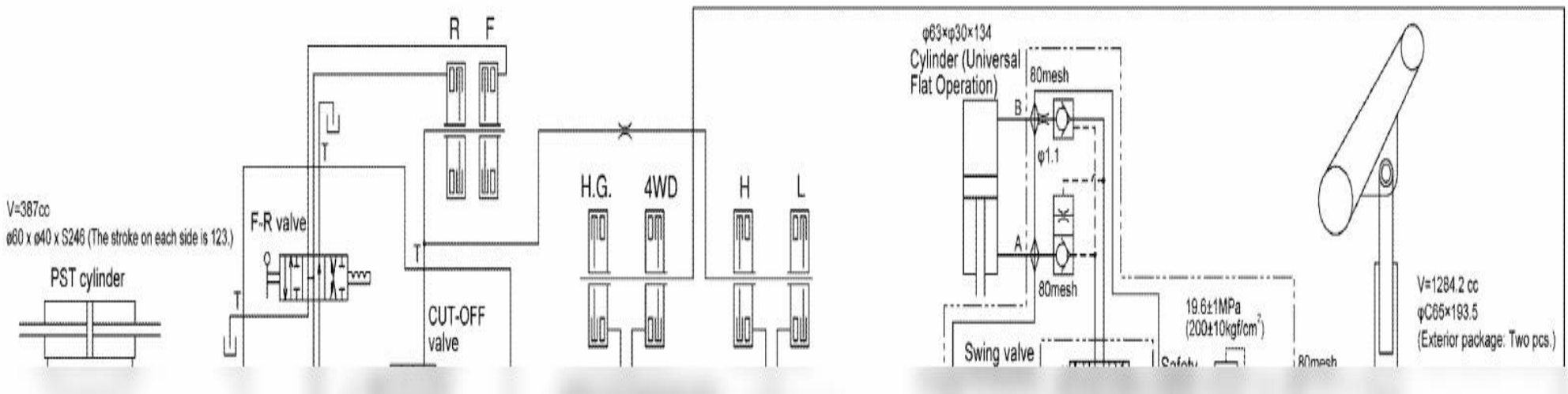
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6 APPENDIXES

12.1 GENERAL HYDRAULIC CIRCUIT DIAGRAM



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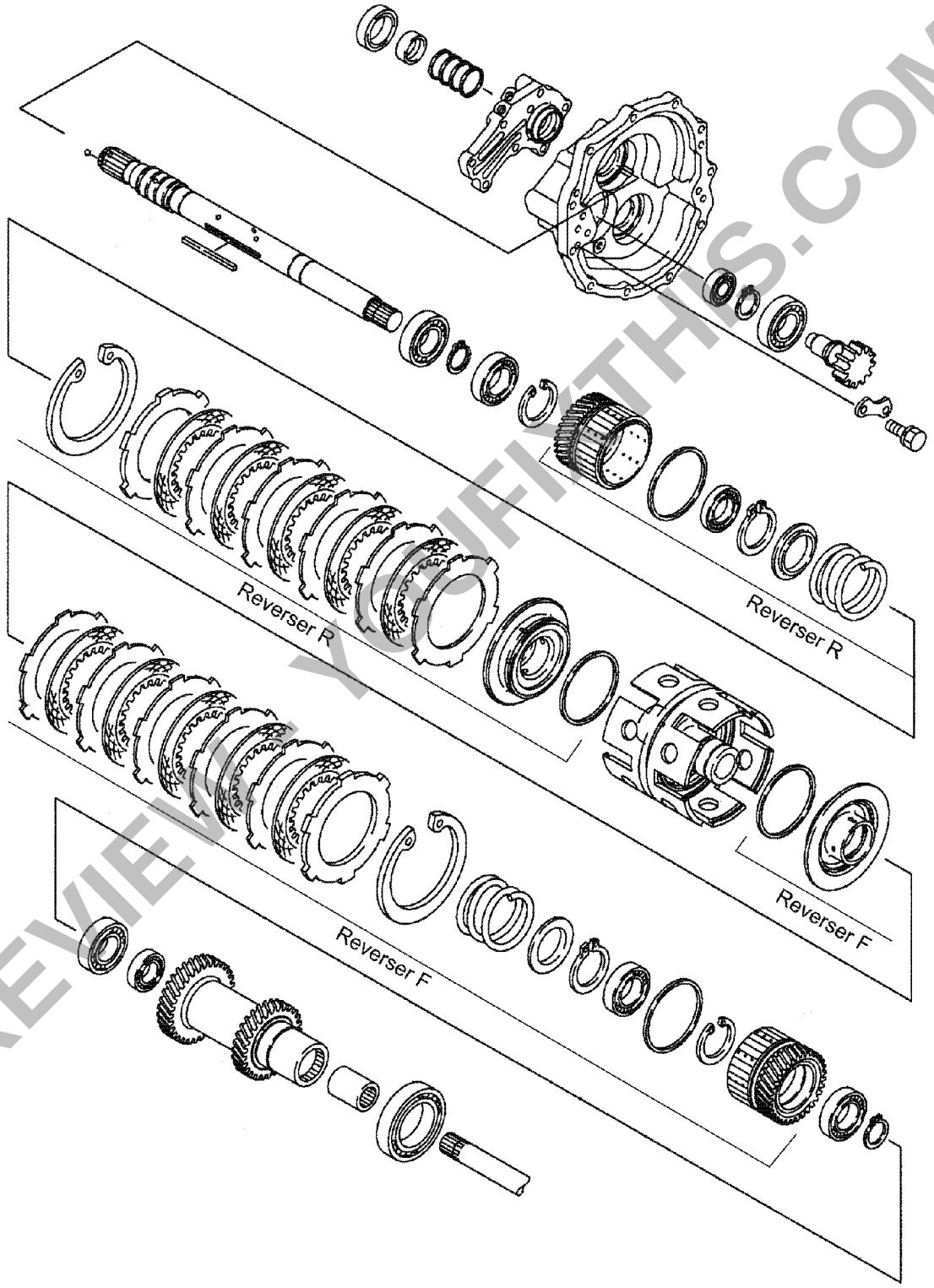
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5.6 DISASSEMBLY AND REASSEMBLY

5.6.1 Exploded View

(1) Power reverser



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(21) Tightening torque tables

1) Main bolts and nuts

No.	Bolt/nut	Thread size x pitch (mm)	Tightening torque N•m (kgf•m)	Application of lubricating oil (to threads/seat)	Remarks
1	Cylinder head bolt	M11× 1.25	103.1 to 112.9 (10.5 to 11.5)	Yes	—
2	Connecting rod bolt	M10× 1.0	53.9 to 58.8 (5.5 to 6.0)	Yes	—
3	Flywheel mounting bolt	M14× 1.5	186.2 to 205.8 (19 to 21)	Yes	—

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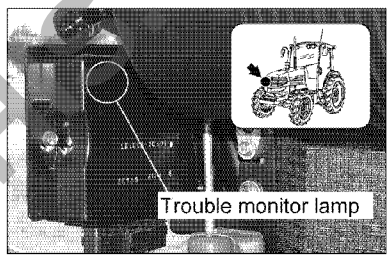
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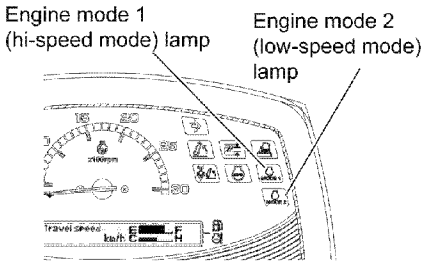
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4.6 PROBLEM DIAGNOSIS

This problem diagnosis procedure was created for the high-efficiency diesel engine for the purpose of quickly and accurately finding problems in the electric engine governor system on the basis of information obtained from users, such as the simplified diagnosis using the trouble monitor lamp on the instrument panel and identifying symptoms by engine behavior.
When performing a problem diagnosis, if you advance through the YES/NO system according to the diagnosis flow chart using this procedure, a tester, and the system checker harness, you can determine whether the harness is broken or is short-circuited or whether the sensors or actuator are defective.
Please familiarize yourself with the arrangement of the parts before starting.

4.6.1 Problem Diagnosis Procedure (to begin with…..)



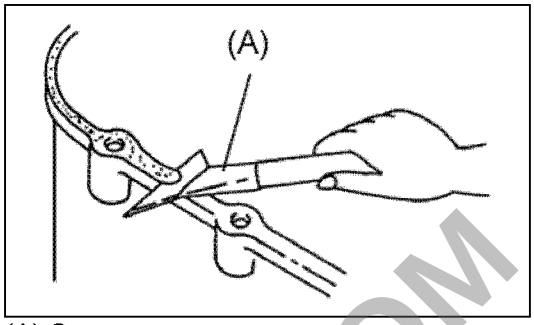


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0.3.2 USAGE OF THE LIQUID GASKET

<Paring sealant>
Pare off sealing material on the surface with a scraper. Do not to scratch or damage on the mating surface. If the surface gets scratch or damage, correct them by grinding with oilstone.



(A) Scraper

<Applying the liquid gasket>
1. Wipe the oil or dirt from the mating surface with a wiper dipped in cleaning solvent. Oil must be removed completely.

* Do not use kerosene or diesel oil.

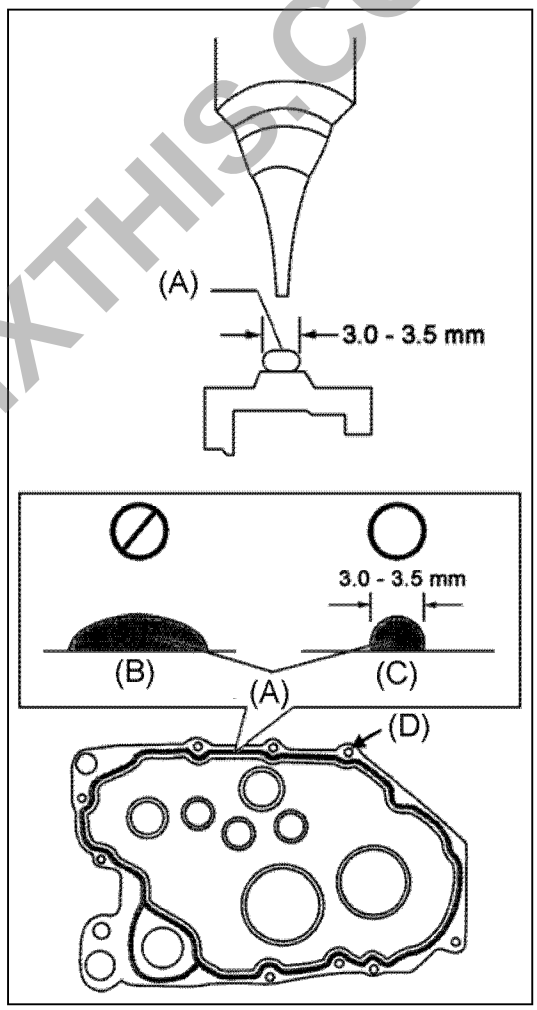
2. Cut the applying nozzle as the bead width of squeezed liquid gasket is 3 to 3.5 mm. Set a squeezing tool if available.

* Do not level the applied liquid gasket with a finger or a spatula. It may cause incomplete sealing.

3. When the liquid gasket is supposed to be applied around a bolt hole, apply it inner side of the mating surface.
4. Assemble mating surfaces within 15 minutes after applying liquid gasket.
5. Tighten all bolts lightly and tighten them further till specified tightening torque is obtained. The bolts must be tightened diagonally.
6. Wait for more than 30 minutes after assembly to fill up lubricating oil or operate.

Apply liquid gasket
↓ Within 15 minutes
Assembly
↓ Leave for 30 minutes or longer.
Lubrication, operation

- Be sure to follow the specified time or it could cause leakage.



(A) Liquid gasket
(B) Bad
(C) Good
(D) Hole for bolt

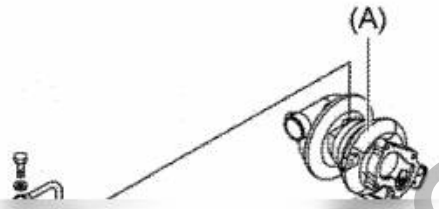
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3.1.4 Lubricating Oil System

(1) Flow of Lubricating Oil

The oil in the oil pan passes through the strainer, is sucked up by the lubricating oil pump, and then lubricates the interior of the engine block and cylinder head through the oil filter and cooler.



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0.3.8 SPECIFICATIONS

Model name		EG907	
Type		Power shuttle version	HMT version
Drive system		4-wheel drive	
Dimensions			
Overall length (mm)		3870	
Overall width (mm)		1750	
Overall height (mm)		2620	
Tread	Front (mm)	1430 (1210-1510)	
	Rear (mm)	1420 (1320-1520)	
Wheel base (mm)		2200	
Ground clearance (mm)		445	
Weight (kg)		2640	2800

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1.1 CHECK INTERVALS

×: Replace, ▲: Wash

Checks or maintenance to perform	Hour meter time display												
	Daily check	50 Hr.	100 Hr.	150 Hr.	200 Hr.	250 Hr.	300 Hr.	350 Hr.	400 Hr.	450 Hr.	500 Hr.	550 Hr.	600 Hr.
Engine oil	O	×			×				×				×
Checking (replacing) the transmission oil		×	O	O	O	O	×	O	O	O	O	O	×
Checking (replacing) the front axle oil		×	O	O	O	O	×	O	O	O	O	O	×
Replacing the engine oil filter element		×			×				×				×

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1.2 LIST OF OILS, GREASES AND ANTIFREEZE

Oil, Grease	Type
Fuel oil	Diesel fuels; grade 1-D or 2-D defined by ASTM Designation D975, Fuel oil can contain up to 5% biodiesel.
Engine oil	API grade CD or better grade, SAE #10W-30
Transmission and Hydraulic system oil	Yanmar TF-500 Transmission fluid or equivalent
Front axle	Gear oil SAE #90
Grease	Multipurpose type (suggested with 3-5% molybdenum disulfide)

1.3 LIST OF LUBRICANTS AND WATER CAPACITIES

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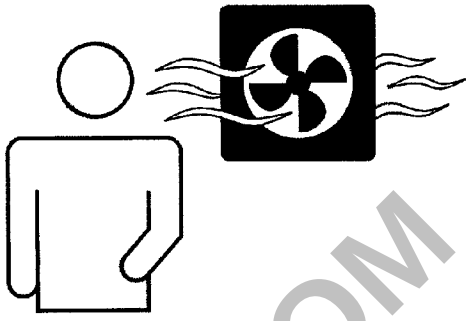
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0.1 PRECAUTIONS FOR THE SAFE SERVICES

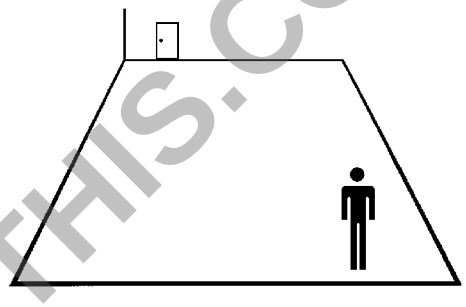
DANGER
SUFFICIENT VENTILATION
Be sure to work in the well-ventilated place when the engine runs, welding or grinding a painted part.

[If not]
Exhaust gas and paint dirt is poisonous and hazardous to human bodies.



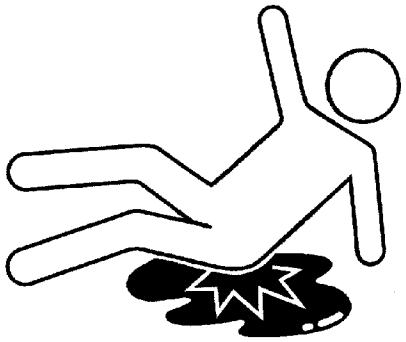
CAUTION
FLAT PLACE AND SUFFICIENT AREA
The floor area should be sufficient, flat without holes at the service factory (place) to perform check and service work.

[If not]
It may cause unexpected accidents such as falling down.



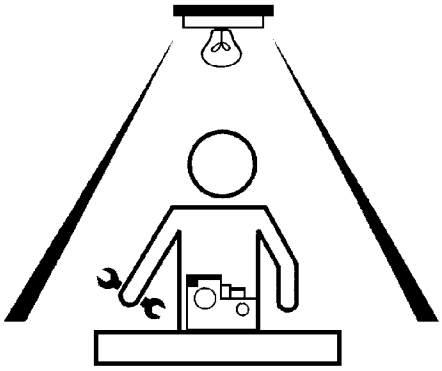
CAUTION
CLEANED AND WELL ARRANGED PLACE
Do not leave dust, mud, oil or any parts on the floor.

[If not]
It may cause unexpected accidents.



CAUTION
WELL AND SUFFICEINTLY LIGHTED PLACE
A working place must have enough lighting. Use a portable safety light with cage when you work inside or under the machine.

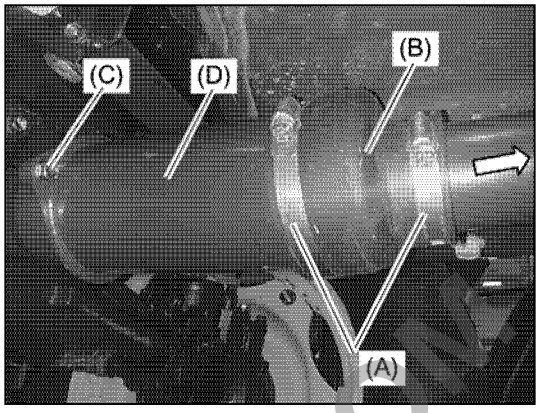
[If not]
The bulb may accidentally be broken and broken glass may cause injury or heat may cause fire.



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2.4 PROPELLER SHAFT SEPARATION



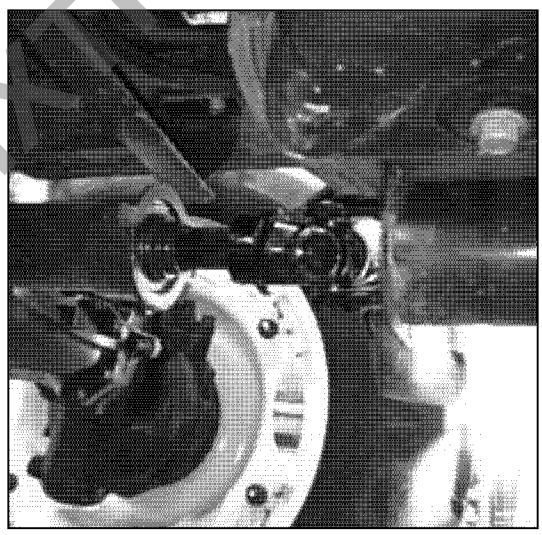
IMPORTANT

The separation work must only be done after switching off the front-wheel drive switch, applying the parking brake and putting some wheel chocks in place.

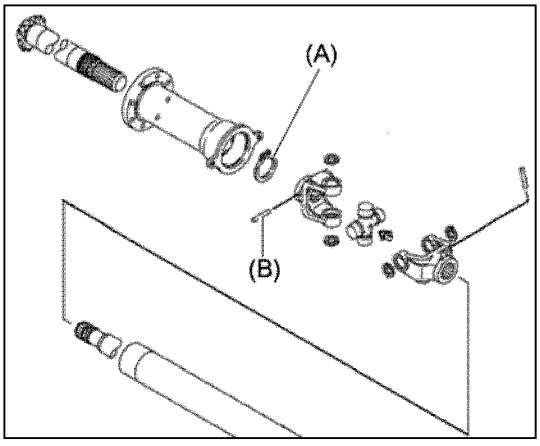
(1) Loosen the two clamps (A) on the front of the propeller shaft, and move rubber boots (B) in the direction shown by the arrow.

(2) Remove the M8×16 bolt (C), and move the shaft cover (D) in the direction shown by the arrow.

(A) Clamp
(B) Rubber boots
(C) M8×16 bolt
(D) Shaft cover



(3) Remove the stop circlip (A) and pull out the pin (B).



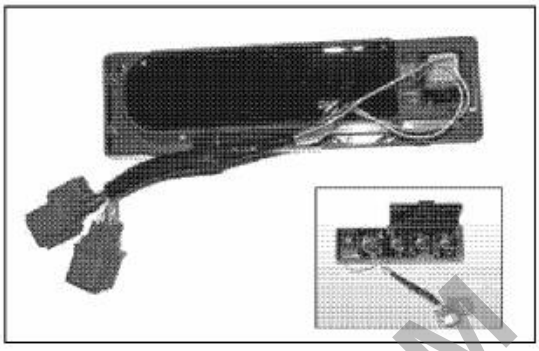
(A) Stop circlip
(B) Pin

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(27) AUTO control box

Control box (AUTO): 1A7480-78310



Checking an individual part

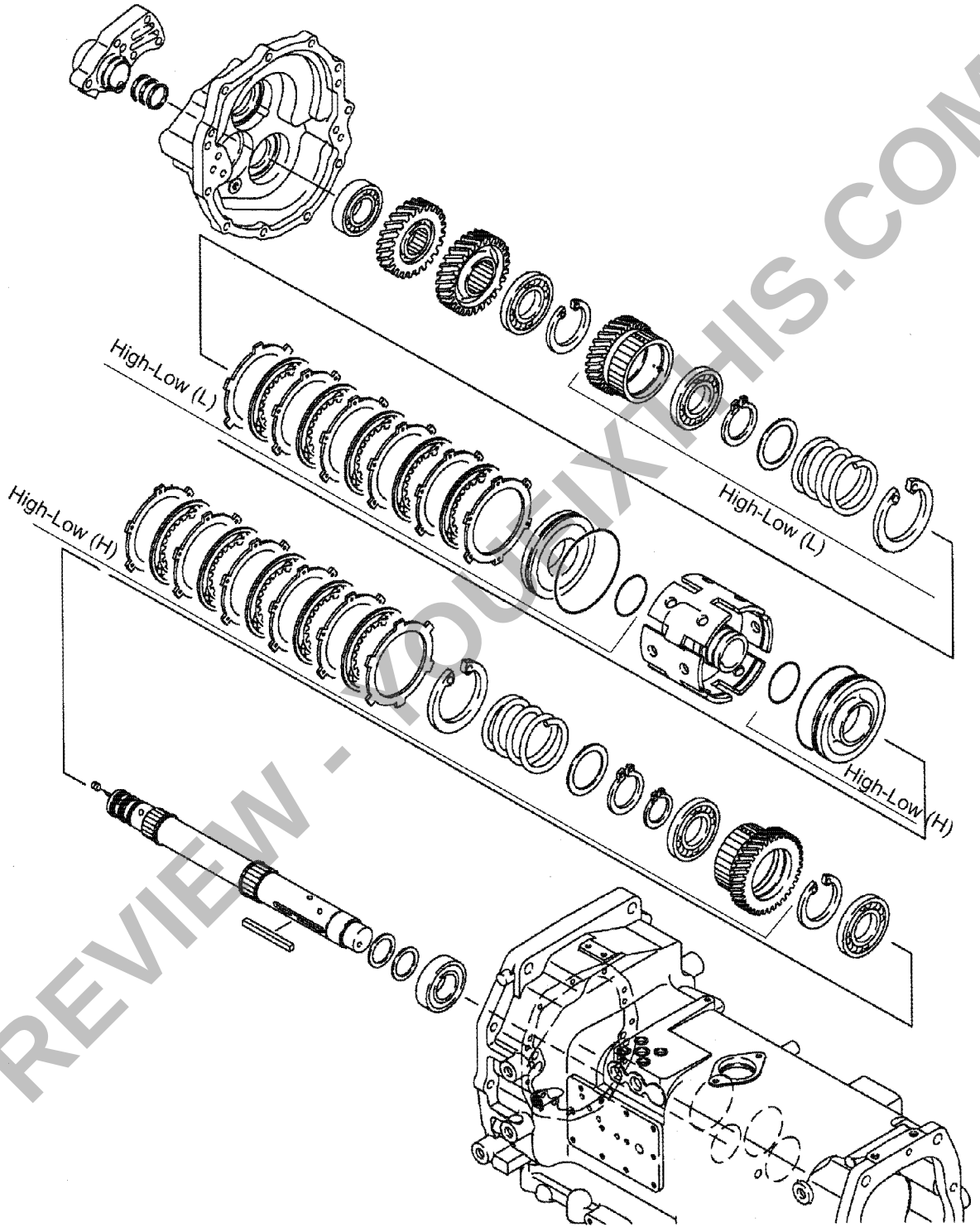
Range	Points to measure between	Condition	Results	Range
	(6) – (5)	Tilt dial	Left down	320Ω
			Center	600Ω
			Right down	650Ω
	(13) – (5)	Lowering speed dial	Slow	290Ω
			Medium	540Ω
			Fast	620Ω
		Lifting	Low	1.3kΩ
			Mid	3.5kΩ

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(2) High-Low shift



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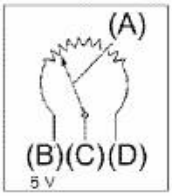
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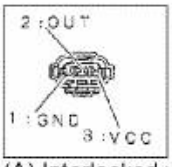
(15) Lift angle sensor
(11) 3-point sensor

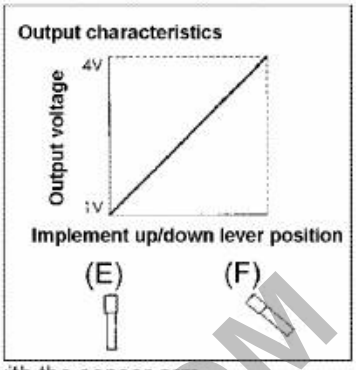
Sensor (lift angle: 198448-78560)

Checking an individual part

Range	Points to measure between		Condition	Results
	Test probe (+)	Test probe (-)		
	1	3	-	Approx. 1kΩ±20%
			The lever operation	







(A) Interlocked with the sensor arm
(B) Input

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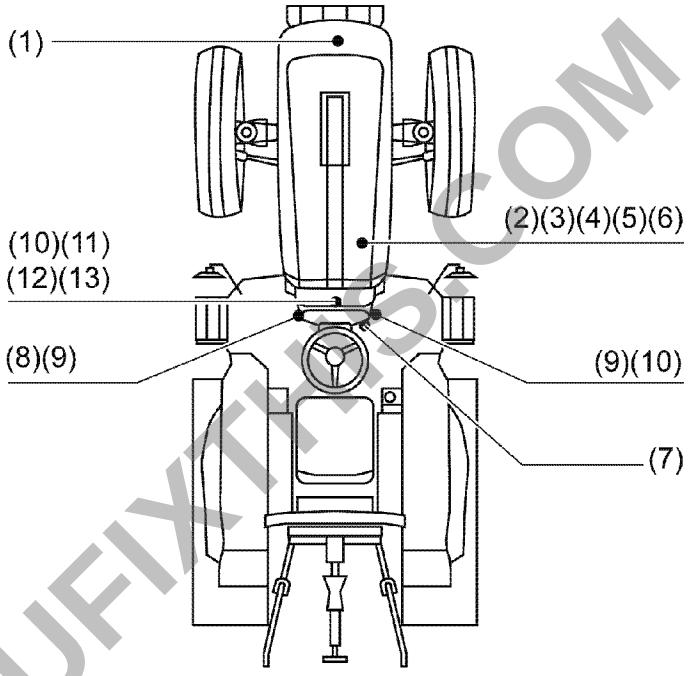
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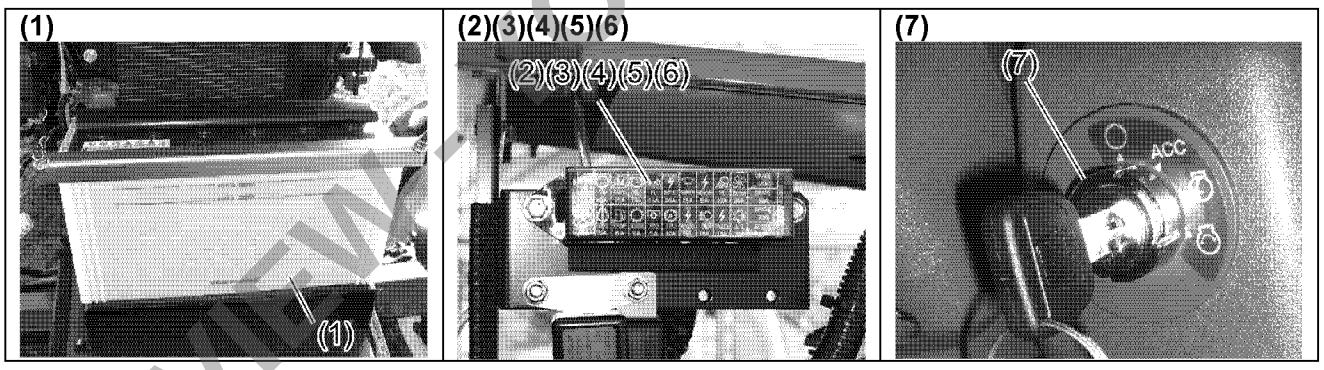
10.5 CABIN CIRCUIT DIAGRAM

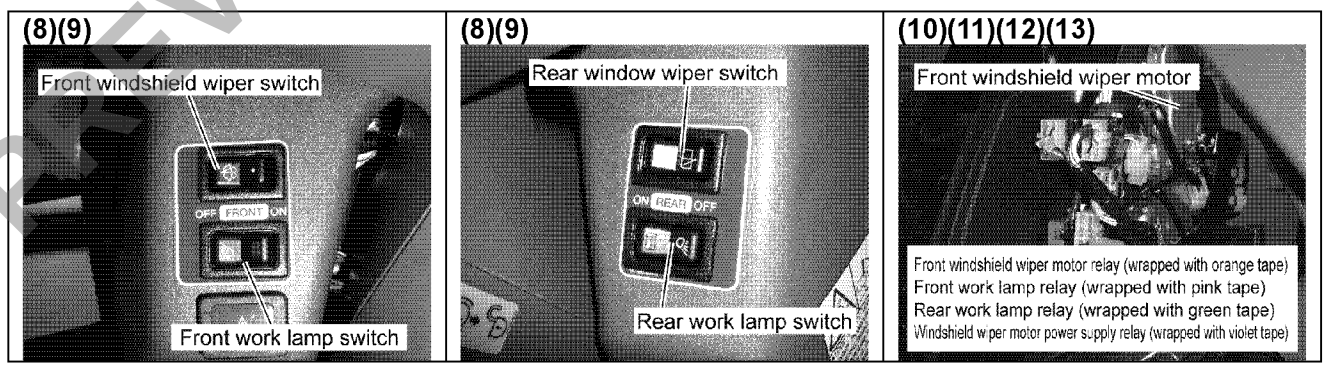
10.5.1 Positions and Functions of the Electrical Components

<Power shuttle version>

(1) Battery
(2)(3)(4)(5)(6) Fuse box
(7) Starter switch
(8) Front windshield wiper switch
Rear window wiper switch
(9) Front work lamp switch
Rear work lamp switch
(10) Front windshield wiper motor relay (wrapped with orange tape)
(11) Front work lamp relay (wrapped with pink tape)
Rear work lamp relay (wrapped with green tape)
(12) Wiper motor power supply relay (wrapped with violet tape)
(13) Front windshield wiper motor







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