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WORKSHOP MANUAL
TRACTOR

M5040,M6040,M7040



KiSC issued 06, 2008 A

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GENERAL

CONTENTS

1. TRACTOR IDENTIFICATION G-1
   [1] MODEL NAME AND SERIAL NUMBERS G-1
      (1) ROPS Model G-1
      (2) CABIN Model G-2
   [2] CYLINDER NUMBER G-4
2. GENERAL PRECAUTIONS G-5
3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING .. G-6
   [1] WIRING G-6
   [2] BATTERY G-8
   [3] FUSE G-8
   [4] CONNECTOR G-8
   [5] HANDLING OF CIRCUIT TESTER G-9
4. LUBRICANTS, FUEL AND COOLANT G-10
5. TIGHTENING TORQUES G-12
   [1] GENERAL USE SCREWS, BOLTS AND NUTS G-12
   [2] STUD BOLTS G-12
   [3] HYDRAULIC FITTINGS G-13
6. MAINTENANCE G-14
7. CHECK AND MAINTENANCE G-17
   [1] DAILY CHECK G-17
   [2] CHECK POINTS OF INITIAL 50 HOURS G-18
   [3] CHECK POINTS OF EVERY 50 HOURS G-21
   [4] CHECK POINTS OF EVERY 100 HOURS G-23
   [5] CHECK POINTS OF EVERY 200 HOURS G-28
   [6] CHECK POINTS OF EVERY 300 HOURS G-31
   [7] CHECK POINTS OF EVERY 400 HOURS G-31
   [8] CHECK POINTS OF EVERY 600 HOURS G-32
   [9] CHECK POINT OF EVERY 800 HOURS G-32
   [10] CHECK POINT OF EVERY 1500 HOURS G-32
   [11] CHECK POINTS OF EVERY 3000 HOURS G-33
   [12] CHECK POINT OF EVERY 1 YEAR G-33
   [13] CHECK POINTS OF EVERY 2 YEARS G-34
   [14] OTHERS G-37
8. SPECIAL TOOLS G-42
   [1] SPECIAL TOOLS FOR ENGINE G-42
   [2] SPECIAL TOOLS FOR TRACTOR G-63
   [3] SPECIAL TOOLS FOR AIR CONDITIONER UNIT G-73
9. TIRES G-75
   [1] TYPE OF TIRES G-75
   [2] TREAD ADJUSTMENT G-76
      (1) Front Wheels [2WD Model] G-76
      (2) Front Wheels [4WD Model] G-77
      (3) Rear Wheels G-78
   [3] WHEEL HUB G-79
   [4] TIRE PRESSURE G-79
   [5] TIRE LIQUID INJECTION G-80
10. IMPLEMENT LIMITATIONS G-83

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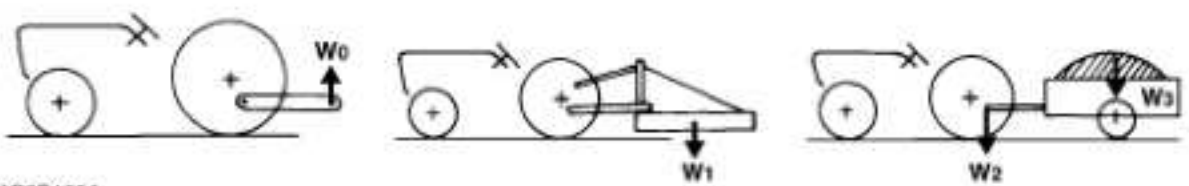
10. IMPLEMENT LIMITATIONS

The KUBOTA Tractor has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which exceed the maximum specifications listed below, or which are otherwise unfit for use with the KUBOTA Tractor may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

Tread (max. width) with farm tires			Lower link end max. loading weight W_0
Front		Rear	
2WD	4WD		
1820 mm (71.7 in.)	1520 mm (59.8 in.)	1720 mm (67.7 in.)	1900 kg (4190 lbs)

Actual figures			
Implement Weight W_1 and / or size	Max. Drawbar Load W_2	Trailer loading weight W_3 Max. capacity	
		2WD	4WD
As in the following list (shown on the next page)	1000 kg (2200 lbs)	4500 kg (9900 lbs)	5000 kg (11000 lbs)

Lower link end max. hydraulic lifting capacity .....W_0
Implement weight.....The implement's weight which can be put on the lower link : W_1
Max. drawbar load .....W_2
Trailer loading weight .....The max. loading weight for trailer (without trailer's weight) : W_3



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■ **NOTE**

- **Implement size may vary depending on soil operating conditions.**

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1. TROUBLESHOOTING

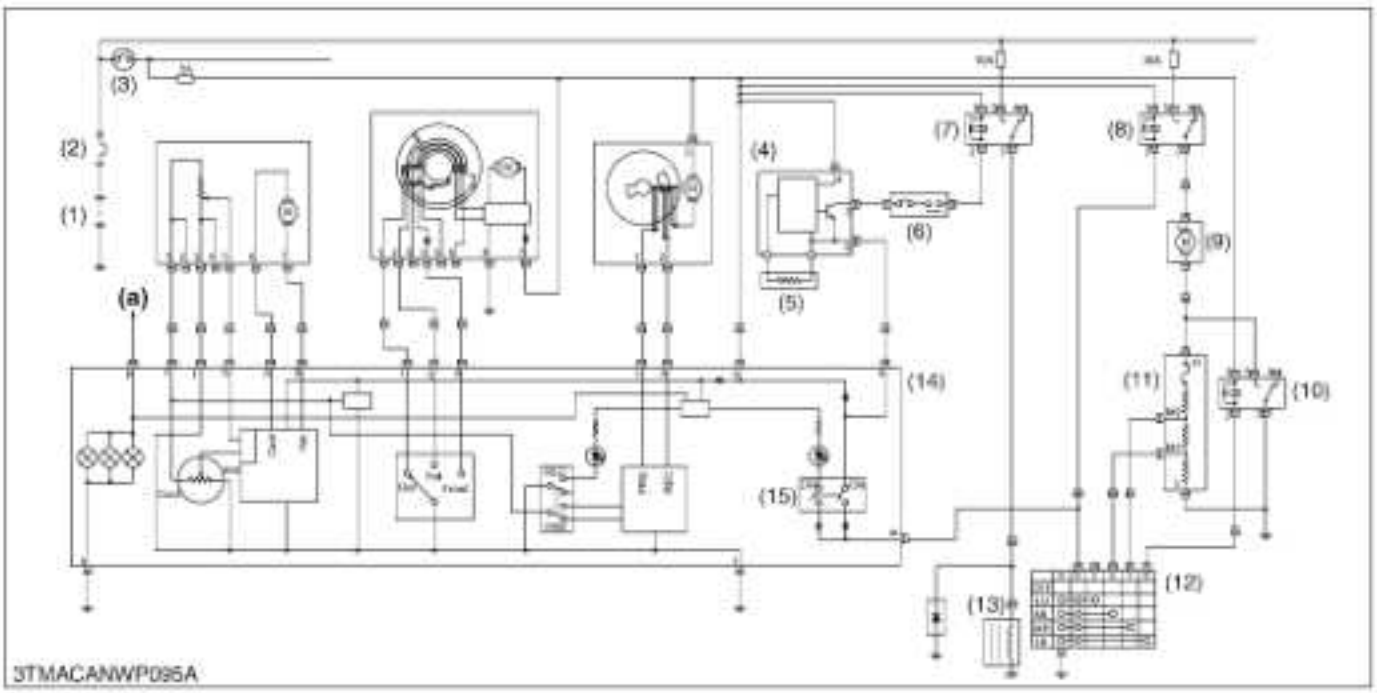
Symptom	Probable Cause	Solution	Reference Page
Excessive or Unusual Nose at All Time	Improper backlash between planetary gear and internal gear	Replace	4-S5, 7
	Bearing worn	Replace	4-S5, 7
	Insufficient or improper type of transmission fluid used	Replace	G-10

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[7] ELECTRICAL SYSTEM

(1) Electrical Circuit



(1) Battery
(2) Slow Blow Fuse
(3) Main Switch
(4) Thermo Amplifier
(5) Frost Thermistor
(6) Pressure Switch
(7) Compressor Relay
(8) Blower Relay
(9) Blower Motor
(10) Blower High Relay
(11) Blower Resistor
(12) Blower Switch
(13) Compressor
(14) A/C Control Panel
(15) A/C Switch

(a) To Light Switch

The process of magnetic clutch being engaged is shown below.

Main Switch (3) **ON** → A/C Switch (15) **ON** → Blower Switch (12) **ON** (Low, Medium 1, Medium 2 or High) → Compressor Relay (7) **ON** → Thermo Amplifier (4) **ON** (the thermostat temperature is more than 3 °C (37.4 °F)) → Pressure Switch (6) **ON** (if refrigerant pressure is between 0.21 MPa (2.1 kgf/cm^2, 30 psi) and 265 MPa (27 kgf/cm^2, 384 psi) → Magnetic Clutch of Compressor Engaged.

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Draft Floating Range Check

1. Attach the weight (2) of approx. 490 N (50 kgf, 110 lbf) to the end of the lower links.
2. Attach the test bar (1) to the top link bracket (3).
3. Start the engine and set the speed at maximum speed.
4. Move the draft and position control lever (5), (4) all the way down.
5. Press the test bar (1) downward until the top link bracket (3) comes in contact with the body.
6. Slowly shift the draft control lever (5) upward until the lift arms begin to rise. Then slowly shift the draft control lever (5) downward until the lift arms begin to down, measure the floating range (**L**) of the draft control lever (5) from the end of the lever guide (4).
7. If floating range (**L**) is not within the factory specification, adjust the draft control rod.

Floating range (**L**)	Factory spec.	More than 15.0 mm 0.59 in.





(1) Test Bar
(2) Weight
(3) Top Link Bracket
(4) Position Control Lever
(5) Draft Control Lever

L : Floating Range

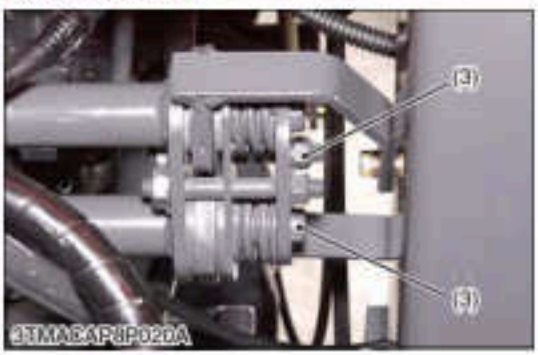
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Position and Draft Control Lever Operating Force

1. Check the position and draft control lever operating force.
2. If measurement is not within the factory specification, adjust the with tightening nuts (3).

Operating force for position and draft control lever	Factory spec.	20 to 40 N 2.0 to 4.1 kgf 4.5 to 9.0 lbf

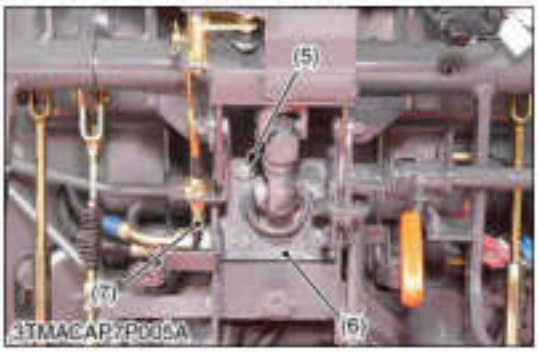


(1) Position Control Lever
(2) Draft Control Lever
(3) Nut

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Steering Controller

1. Disconnect the shuttle cable (7).
2. Disconnect the power steering delivery hose 1 (1) and hose 2 (2) from power steering controller.
3. Disconnect the oil cooler pipes (2), (3).
4. Remove the steering controller mounting screws (5) and steering controller (6).

(When reassembling)

- Be sure to assemble the power steering delivery hose to original position.
- After assembling the power steering controller, be sure to adjust the shuttle lever "**Neutral**" position.

Tightening torque	Power steering delivery hose retaining nut	22.6 to 27.5 N·m 2.3 to 2.8 kgf·m 16.6 to 20.3 lbf·ft
	Controller pipe retaining nut	49.0 to 68.6 N·m 5.0 to 7.0 kgf·m 36.2 to 50.6 lbf·ft
	Oil cooler pipe retaining nut	49.0 to 68.6 N·m 5.0 to 7.0 kgf·m 36.2 to 50.6 lbf·ft
	Power steering controller mounting screw	48.1 to 55.8 N·m 4.9 to 5.7 kgf·m 35.5 to 41.2 lbf·ft

(1) Power Steering Delivery Hose 1
(2) Power Steering Delivery Hose 2
(3) Oil Cooler Pipe
(4) Oil Cooler Pipe
(5) Screw
(6) Steering Controller
(7) Shuttle Cable

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(3) Removing Steering Controller (CABIN Model)





Bonnet

1. Open the bonnet (3) and disconnect the battery negative terminal.
2. Disconnect the connector (2) for head lights.
3. Disconnect the dampers (1).
4. Remove the bonnet (3).

■ **IMPORTANT**

- **When disconnecting the battery cables, disconnect the grounding cable first. When connecting, positive cable first.**

(When reassembling)

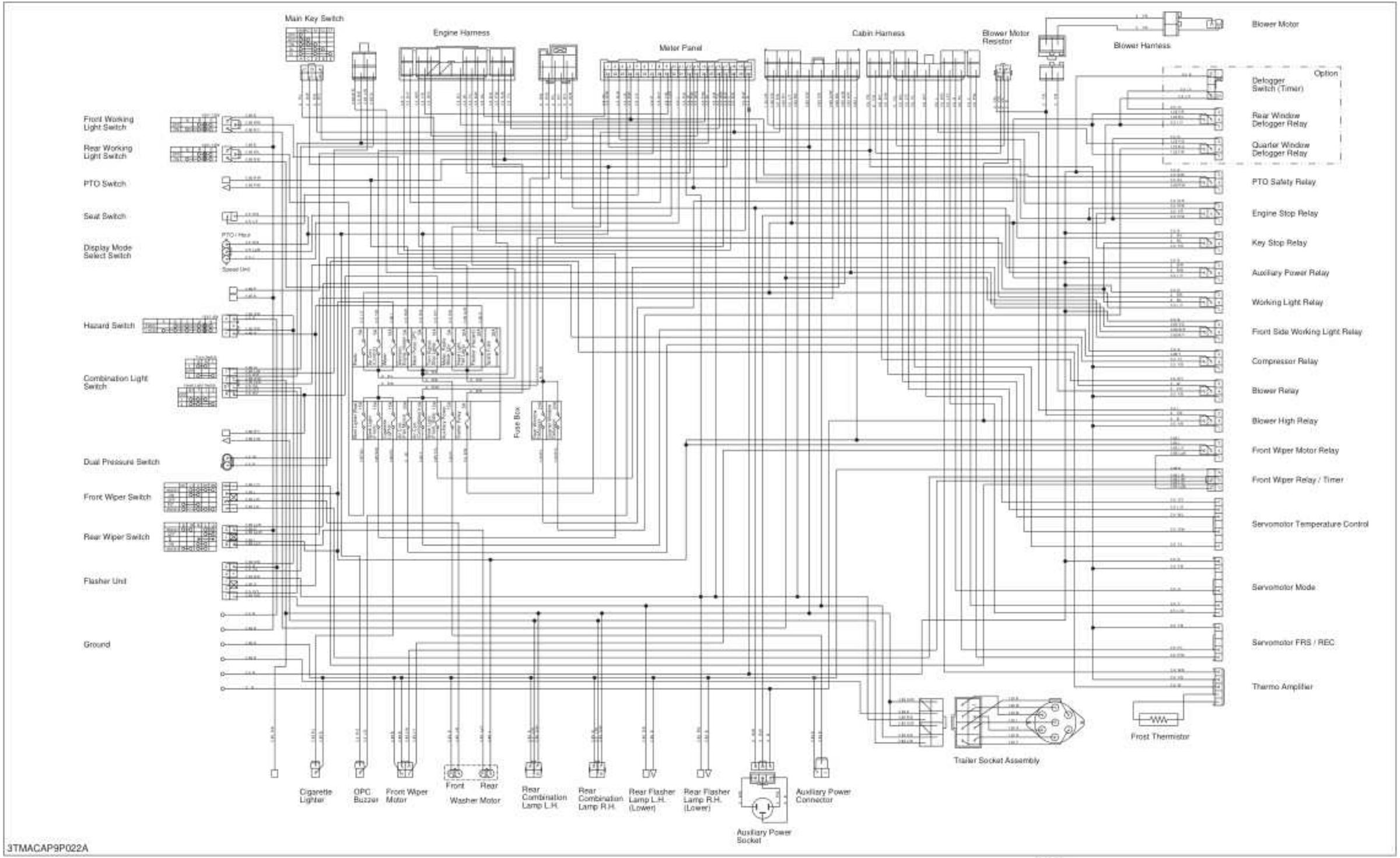
- Connect the engine harness (6) connector and head light harness (5) connector within the space of controller pipe (5), heater hose (7) and delivery hose (8) as shown photo.

(1) Damper
(2) Connector
(3) Bonnet
(4) Wire Harness (Head Light)
(5) Controller Pipe
(6) Wire Harness (Engine)
(7) Heater Hose
(8) Delivery Hose

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[2] MAIN HARNESS (CABIN MODEL)



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