WSM

# WORKSHOP MANUAL
# TRACTOR

# ME8200DTN
# (SUPPLEMENT)

Kubota

KiSC issued 04, 2006 A

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| No. | Implement | | Remarks | | Limitation |
|---|---|---|---|---|---|
| 1 | Trailer | | Max. Load Capacity | | 5000 kg (11025 lbs) |
| | | | Max. Drawbar Load | | 800 kg (1764 lbs) |
| 2 | Mower | Rotary-Cutter | Max. Cutting Width | | 2130 mm (84 in.) |
| | | | Max. Weight | | 540 kg (1190 lbs) |
| | | Flail Mower (Heavy) | Max. Cutting Width | | 3050 mm (81 in.) |
| | | | Max. Weight | | 800 kg (1760 lbs) |
| | | Sickle Bar | Max. Cutting Width | | 2130 mm (84 in.) |
| 3 | Sprayer | | Max. Tank-capacity | Mid | 680 L (200 U.S.gals 170 Imp.gals) |
| | | | | Rear 3P | 680 L (200 U.S.gals 170 Imp.gals) |
| | | | | Drawbar | 4000 L (1200 U.S.gals 990 Imp.gals) |
| 4 | Rotary Tiller | | Max. Tilling Width | | 2130 mm (84 in.) |
| | | | Max. Weight | | 800 kg (1760 lbs) |
| 5 | Bottom Plow | | Max. Size | | 14 in. x 3<br>16 in. x 2<br>18 in. x 1 |
| | | | Max. Weight | | 450 kg (1000 lbs) |
| 6 | Disc-harrow | 3P Type | Max. Size | | 18 in. x 24 |
| | | | Max. Harrowing Width | | 2130 mm (84 in.) |
| | | | Max. Weight | | 450 kg (1000 lbs) |
| | | Drawbar Type | Max. Harrowing Width | | 2750 mm (108 in.) |
| 7 | Disc Plow | | Max. Size | | 24 in. x 3, 26 in. x 2 |
| | | | Max. Weight | | 450 kg (1000 lbs) |
| 8 | Sub Soiler | | Numbers of Cultivating Tines | | 2 |
| | | | Cultivating Depth | | 400 mm (16 in.) |
| 9 | Cultivator | | Max. Width | | 3660 mm (144 in.) |
| | | | Number of Rows | | 4 |
| | | | Max. Weight | | 450 kg (1000 lbs) |

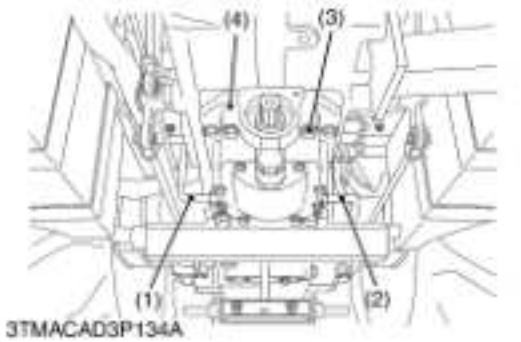
**■ NOTE**

- **Implement size may very depending on soil operating conditions.**
  *** Must remove front weight with this implement.**

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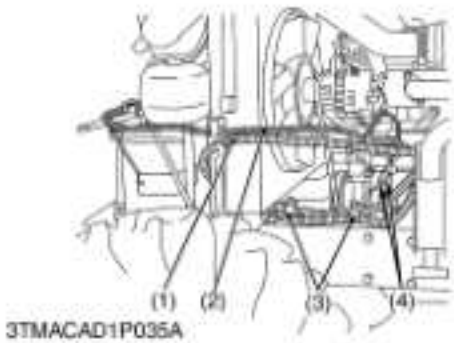
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4WD / Bi-speed Turn Gear Case Assembly

1. Disconnect 4WD / Bi-speed turn pipes (1), (2).
2. Remove the 4WD / Bi-speed turn gear case mounting screw (3) and mounting nut.
3. Remove the 4WD / Bi-speed turn gear case assembly (4).

(1) Pipe
(2) Pipe
(3) Mounting Screw
(4) Gear Case Assembly

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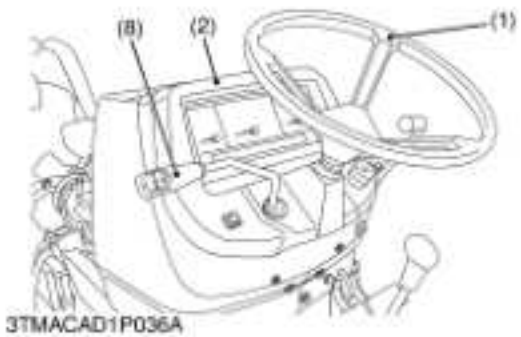
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Wiring Harness L.H.

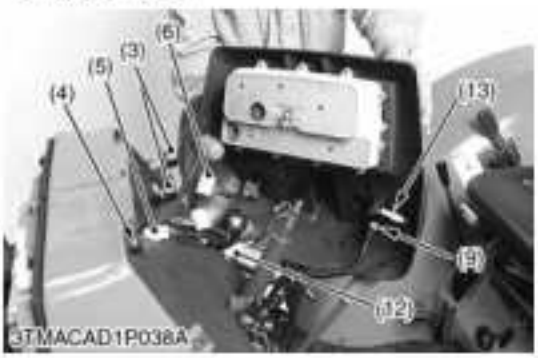
1. Disconnect the battery positive cable (1).
2. Disconnect the head light cable (2) and 4WD / Bi-speed turn connectors (4).
3. Remove the hose clamps (3).

(1) Battery Positive Cable
(2) Head Light Cable
(3) Hose Clamp
(4) 4WD / Bi-speed Turn Connector

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Steering Wheel, Meter Panel and Rear Bonnet

1. Remove the steering wheel (1) with a steering wheel puller (Code No. 07916-51090).
2. Remove the shuttle lever grip (8).
3. Remove the meter panel mounting screws and open the meter panel (2).
4. Disconnect the two connectors (3) and meter cable (4).
5. Disconnect the main switch connector (5) and combination switch connector (6).
6. Disconnect the hazard switch connector (9), 4WD / Bi-speed switch connector (12) and 4WD indicator connector (13).
7. Disconnect the engine stop cable (7) at the engine side.
8. Remove the rear bonnet (10) and lower cover (11).

(1) Steering Wheel
(2) Meter Panel
(3) Connector
(4) Meter Cable
(5) Main Switch Connector
(6) Combination Switch Connector
(7) Engine Stop Cable
(8) Shuttle Lever Grip
(9) Hazard Switch Connector
(10) Rear Bonnet
(11) Lower Cover
(12) 4WD / Bi-speed Switch Connector
(13) 4WD Indicator Connector

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# 1. TROUBLESHOOTING

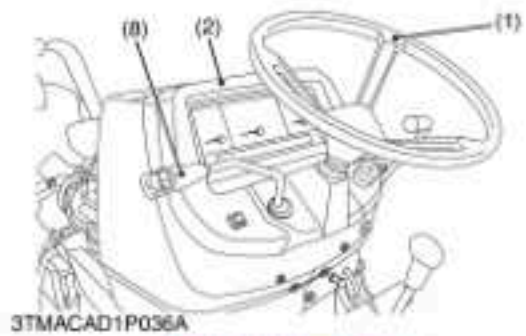
**4WD / BI-SPEED TURN**

| Symptom | Probable Cause | Solution | Reference Page |
|---|---|---|---|
| **Front Wheel Can Not Drive Bi-speed Turn** | ● 4WD / Bi-speed switch or wiring harness is defective | Replace | N9-S2 |
| | ● Turning angle inspection switch or wiring harness is defective | Repair or Replace | N9-S3 |
| | ● 4WD / Bi-speed relay defective | Replace | N9-S3 |
| | ● 4WD / Bi-speed solenoid valve defective | Replace | N9-S4 |
| **Front Wheel Drive Can Not Be Cancelled Bi-speed Turn** | ● 4WD / Bi-speed switch or wiring harness is defective | Repair or Replace | N9-S2 |
| | ● Turning angle inspection switch or wiring harness is defective | Repair or Replace | N9-S3 |
| | ● 4WD / Bi-speed relay defective | Replace | N9-S3 |
| | ● 4WD / Bi-speed solenoid **ON** / **OFF** valve defective | Replace | N9-S4 |

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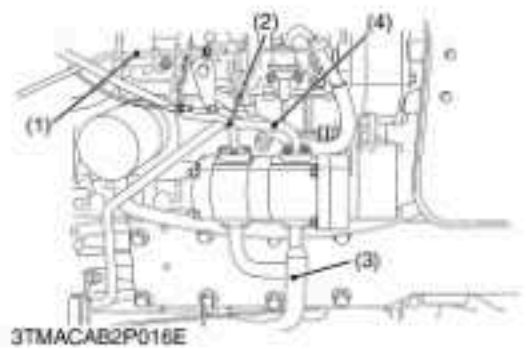
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Steering Wheel, Meter Panel and Rear Bonnet

1. Remove the steering wheel (1) with a steering wheel puller (Code No. 07916-51090).
2. Remove the shuttle lever grip (8).
3. Remove the meter panel mounting screws and open the meter panel (2).
4. Disconnect the two connectors (3) and meter cable (4).
5. Disconnect the main switch connector (5) and combination switch connector (6).
6. Disconnect the hazard switch connector (9), 4WD / Bi-speed switch connector (12) and 4WD indicator connector (13).
7. Disconnect the engine stop cable (7) at the engine side.
8. Remove the rear bonnet (10) and lower cover (11).

| | | | |
|---|---|---|---|
| (1) | Steering Wheel | (8) | Shuttle Lever Grip |
| (2) | Meter Panel | (9) | Hazard Switch Connector |
| (3) | Connector | (10) | Rear Bonnet |
| (4) | Meter Cable | (11) | Lower Cover |
| (5) | Main Switch Connector | (12) | 4WD / Bi-speed Switch Connector |
| (6) | Combination Switch Connector | (13) | 4WD Indicator Connector |
| (7) | Engine Stop Cable | | |

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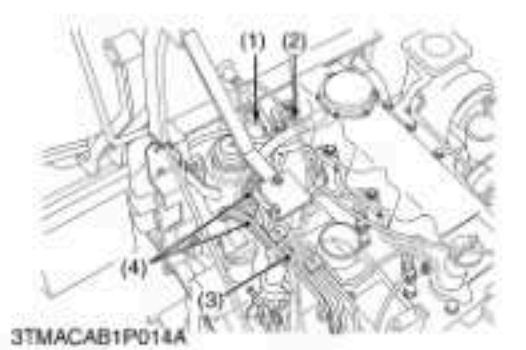
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Piping for 3-Point Hydraulic System

1. Remove the accelerator rod (1).
2. Remove the suction pipe (3).
3. Remove the delivery pipe (4) for 3-point hydraulic system.
4. Remove the delivery pipe (2) for power steering.

| | | | |
|---|---|---|---|
| (1) | Accelerator Rod | (3) | Suction Pipe |
| (2) | Delivery Pipe | (4) | Delivery Pipe |

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Wiring Harness R.H. and Fuel Pipes

1. Disconnect the **3P** connector for solenoid valve (3).
2. Disconnect the wiring lead (2) from the glow plug.
3. Disconnect the coolant thermo sensor **1P** connector (1).
4. Remove the fuel pipes (4).

| | | | |
|---|---|---|---|
| (1) | Coolant Thermo Sensor **1P** Connector | (3) | **3P** Connector for Solenoid Valve |
| (2) | Wiring Lead for Glow Plug | (4) | Fuel Pipe |

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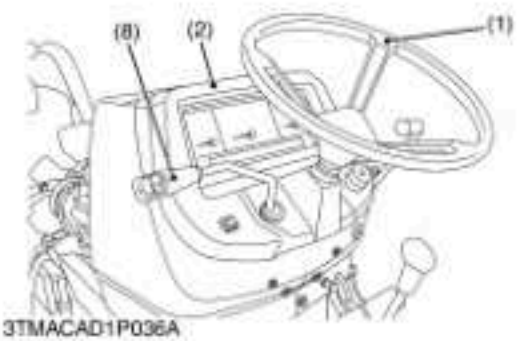
## Front Axle Support as a Unit

1. Check the front axle and clutch housing case are securely mounted on the disassembling stands.
2. Separate the front axle support as a unit after removing the front axle support mounting screws.

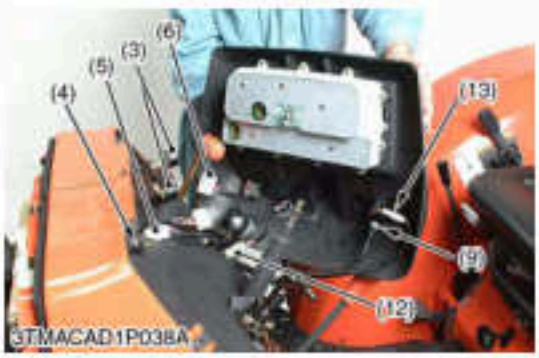
**(When reassembling)**

| | | |
|---|---|---|
| Tightening torque | Front axle support mounting screw (M14, UBS) | 167 to 196 N·m<br>17.0 to 20.0 kgf·m<br>123 to 144 ft-lbs |

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## Steering Wheel, Meter Panel and Rear Bonnet

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7. Disconnect the engine stop cable (7) at the engine side.
8. Remove the rear bonnet (10) and lower cover (11).

| | | | |
|---|---|---|---|
| (1) | Steering Wheel | (8) | Shuttle Lever Grip |
| (2) | Meter Panel | (9) | Hazard Switch Connector |
| (3) | Connector | (10) | Rear Bonnet |
| (4) | Meter Cable | (11) | Lower Cover |
| (5) | Main Switch Connector | (12) | 4WD / Bi-speed Switch Connector |
| (6) | Combination Switch Connector | (13) | 4WD Indicator Connector |
| (7) | Engine Stop Cable | | |

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## Piping for 3-Point Hydraulic System

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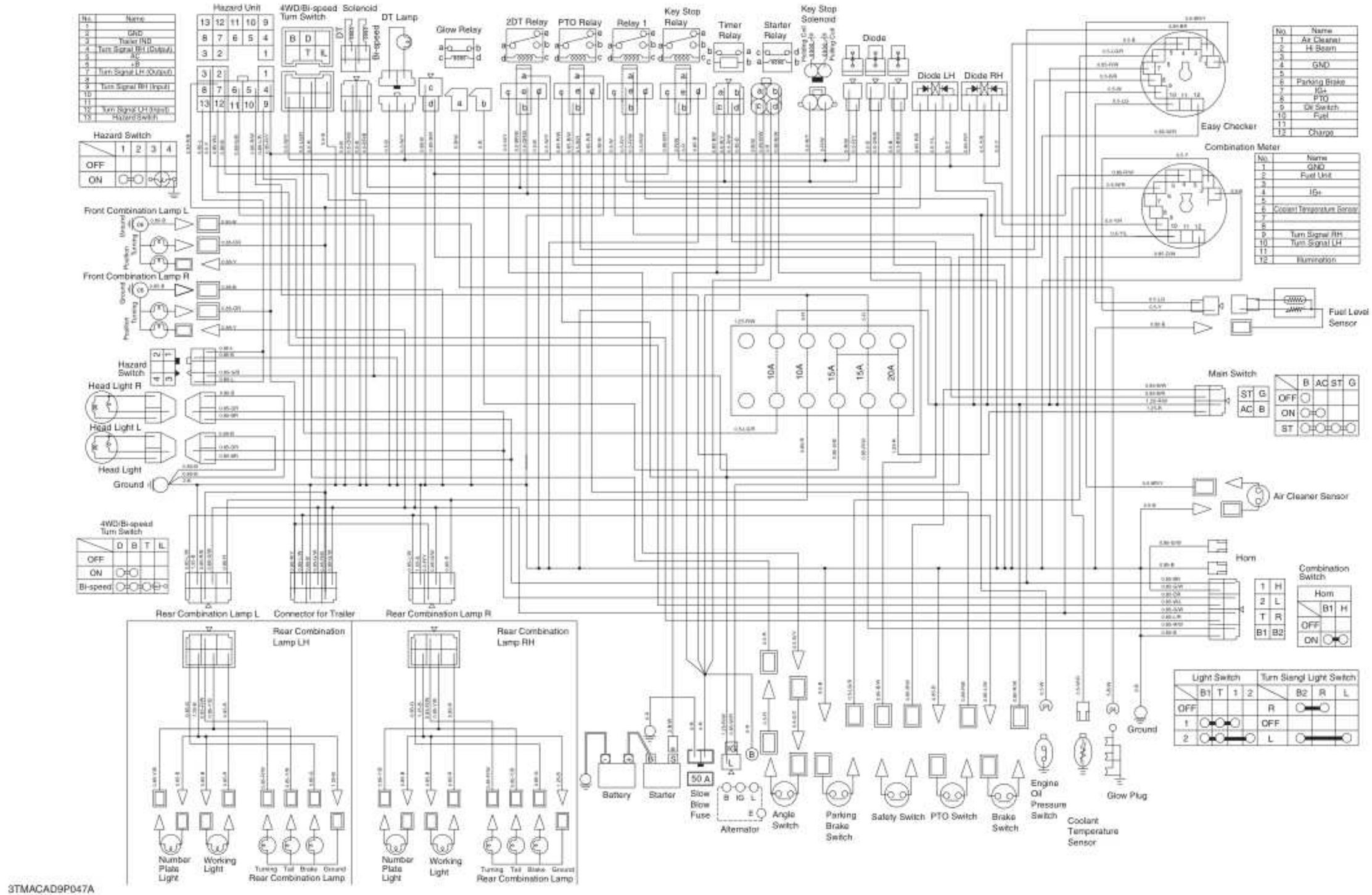
| | | | |
|---|---|---|---|
| (1) | Accelerator Rod | (3) | Suction Pipe |
| (2) | Delivery Pipe | (4) | Delivery Pipe |

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# 1. WIRING DIAGRAM




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N9-M1

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