SERVICE MANUAL

TD4040F

Tractor

Part number 48064965

English

September 2016

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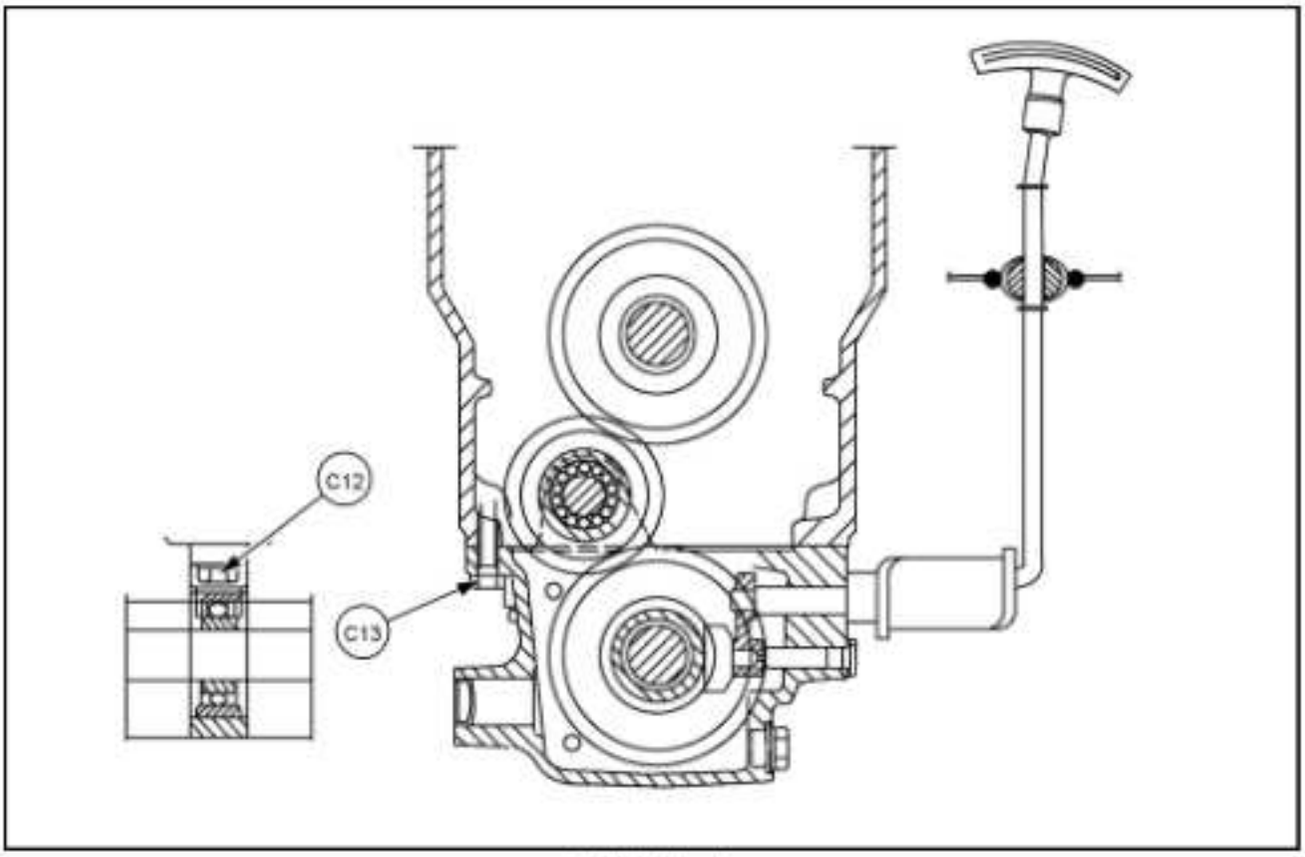
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Electro-hydraulic control - General specification

Main Specifications

Reduction ratio	34/24 x 24/34 = 1 to 1
Relay lever damper width	**7.978 - 8.000 mm (0.3141 - 0.3150) in)**
Driven gear damper support width	**8.280 - 8.370 mm (0.3260 - 0.3295 in)**
Damper clearance in seat	**0.280 - 0.460 mm (0.0110 - 0.315 in)**
Relay lever pivot diameter	**15.973 - 16.000 mm (0.6289 - 0.6299 in)**
Liner pivot casing hole	**16.016 - 16.059 mm (0.6305 - 0.6322 in)**
Pivot clearance in casing	**0.016 - 0.086 mm (0.0006 - 00124 in)**
Relay lever retaining spring length	
- Free	**130 mm (5.1181 in)**
- Under a load of **178.2 - 197.8 N (40 - 44 lb)**	**142.5 mm (5.6102 in)**

Electro-hydraulic control - Torque



Parts	Thread	Torque adjustments
Transmission shaft central support retaining bolt **(C12)**	M12 x 1.5	**98 N·m (72.2811 lb ft)**
Control gear casing retaining bolt **(C13)**	M12 x 1.25	**98 N·m (72.2811 lb ft)**

Electro-hydraulic control - Special tools

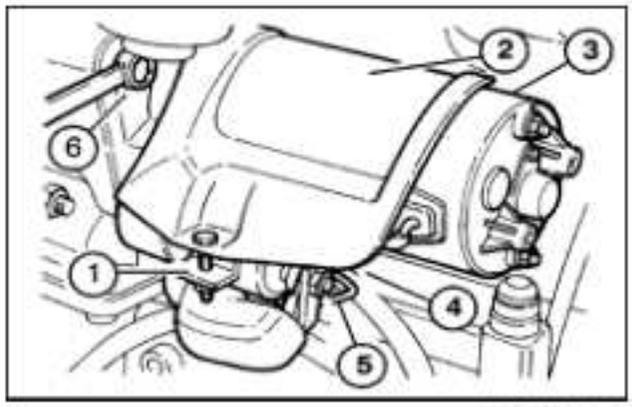
Tools

380000821 Camshaft seal key

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Engine starter - Remove

1. Disconnect the grounding cable from the battery (negative).
2. Loosen the nut and bolt **(1)** and remove the starter solenoid protection plate **(2)**.
3. Loosen the nut and remove the positive cable **(5)** and the emergency switch clamp **(4)**.
4. Remove the starter motor lock bolts **(6)** and remove the starter motor.



Installing the starter motor

1. To install the starter motor, follow the steps for removal in reverse order.

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Wiring harnesses - Electrical schematic sheet 04

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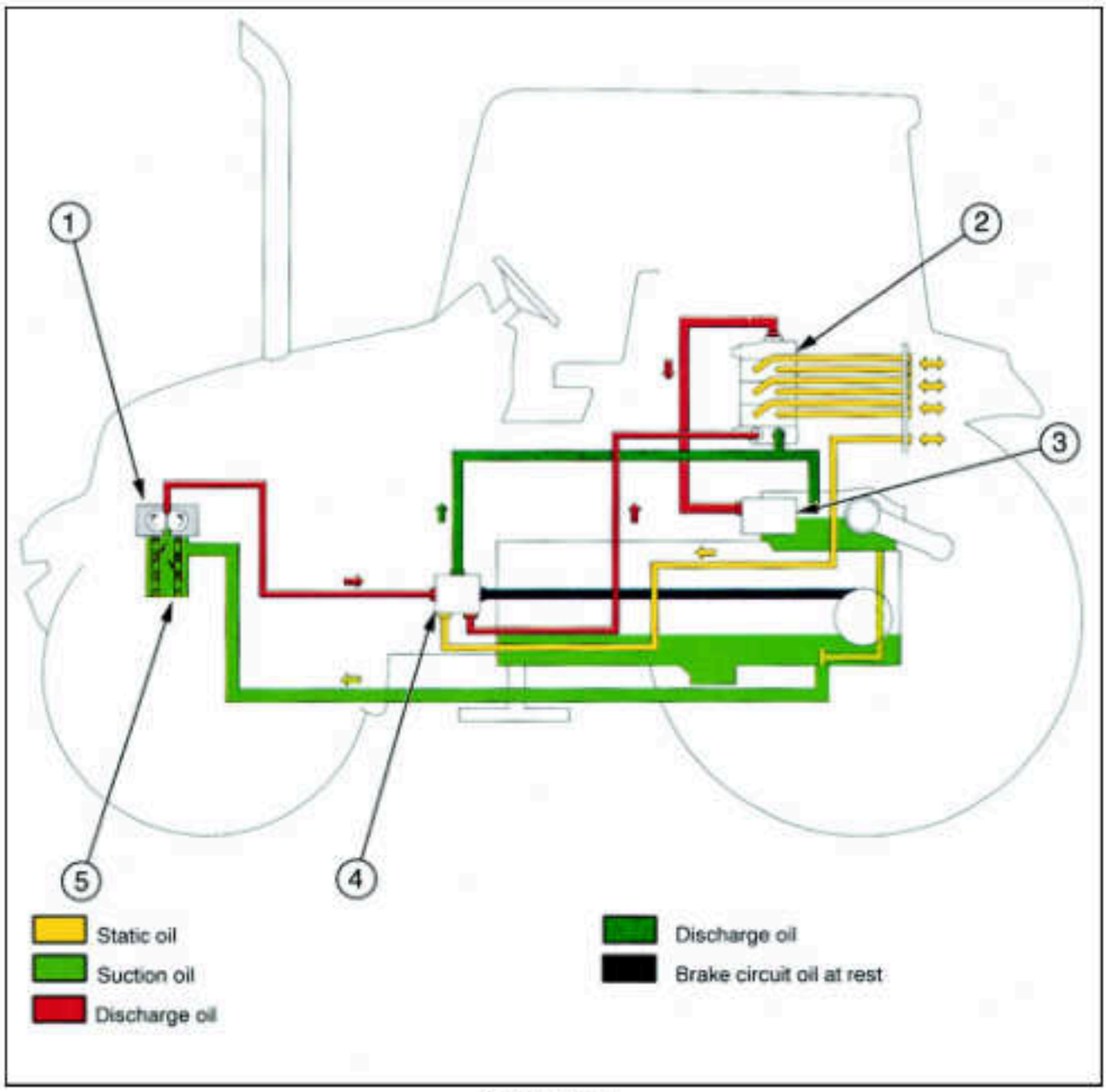
Rear three-point hitch - Dynamic description

The mechanical lift can operate with controlled position or draft control and with a combination of the two.

The lift is controlled by two levers located on the operator's right. It also features the Lift–O–Matic device which raises and lowers the implement without the need to use the position and draft control levers.

Draft control is actuated by the flex bar positioned in the special box mounted under the rear transmission.

The lower lift arms and corresponding control rods are connected to the flex bar.



Hydraulic lift circuit

1. Hydraulic pump
2. Auxiliary control valves
3. Hydraulic lift control valve
4. Trailer brake valve
5. Filter.

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Operating steps of the auxiliary control valve for the dual-acting cylinder (Fig. 3 and Fig. 4) and single-acting cylinder (Fig. 5 and Fig. 6)

Lifting: When the lever is pulled back, the valve spool **(2)** moves to connect: the pressure line **(P)** to the lower chamber of the cylinder by the line **(A)**, and the exhaust line **(T)** by the line **(B)**, intercepting the supply of oil to the lift control valve. Keep the lever back to extend the full cylinder stroke. When the lever is released, it will automatically return to the neutral position, under the action of the return spring, and the full pump flow will be sent to the lift control valve by the line **(P)**.

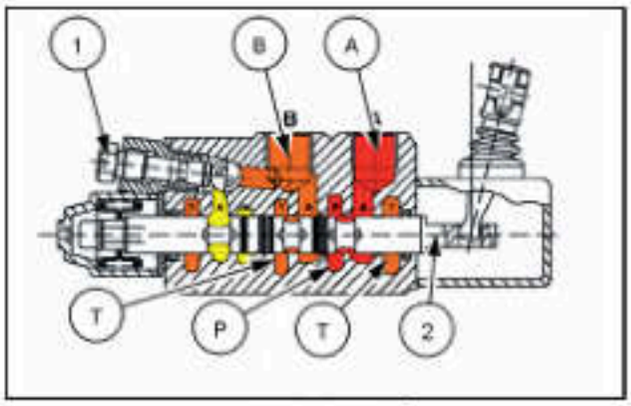
Lowering: To lower the implement, move the lever forward. The spool **(2)** will move to the position indicated in Fig. **4**, which allows oil in the lower chamber to flow to the exhaust **(T)** through the line **(A)**. The upper chamber is connected to the pressure line **(P)** by the **(B)**.

Lifting: When the lever is pulled back, the valve spool **(2)** fig. **5**, moves to connect the cylinder with the pressure line **(P)** from the line **(A)**. The line **(C)**, for control of single-acting cylinders, is used in this step since it is permanently connected to the exhaust **(T)** from the open position of the shift valve **(1)**.

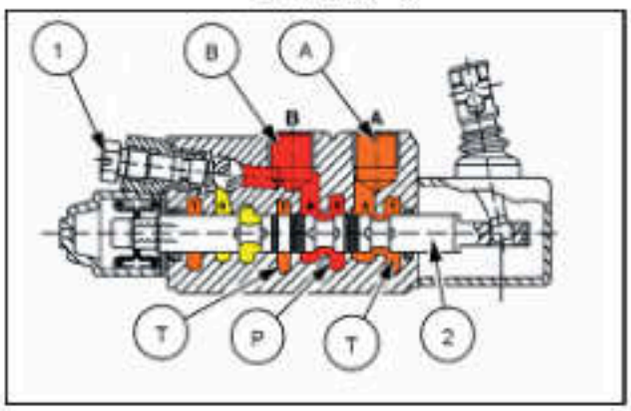
Lowering: When the lever is moved forward, the spool **(2)** will move as indicated by fig. **6**. The oil contained in the cylinder, pressurized by the weight of the implement lifted, will flow to the exhaust **(T)** through the line **(A)**. The full flow of the pump is transported to the exhaust **(T)** by the line **(B)**.

- Pressure Oil
- Suction, discharge, or return oil
- Static oil

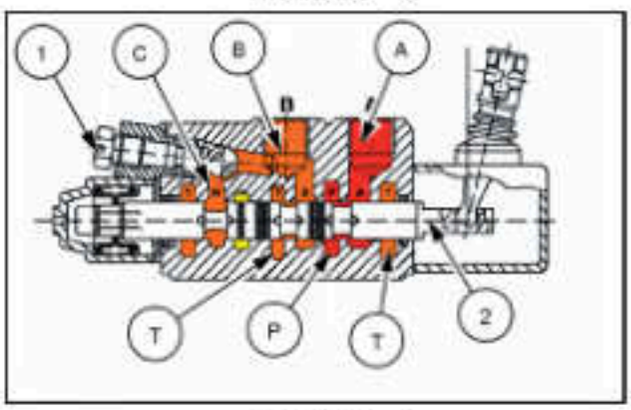
NOTE: *To operate a dual-action cylinder, tighten the bolt **(1)** completely. To operate a single-action cylinder, unscrew the bolt completely **(1)**.*



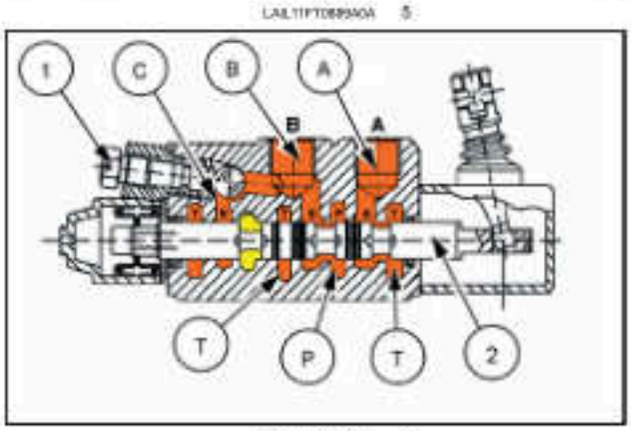
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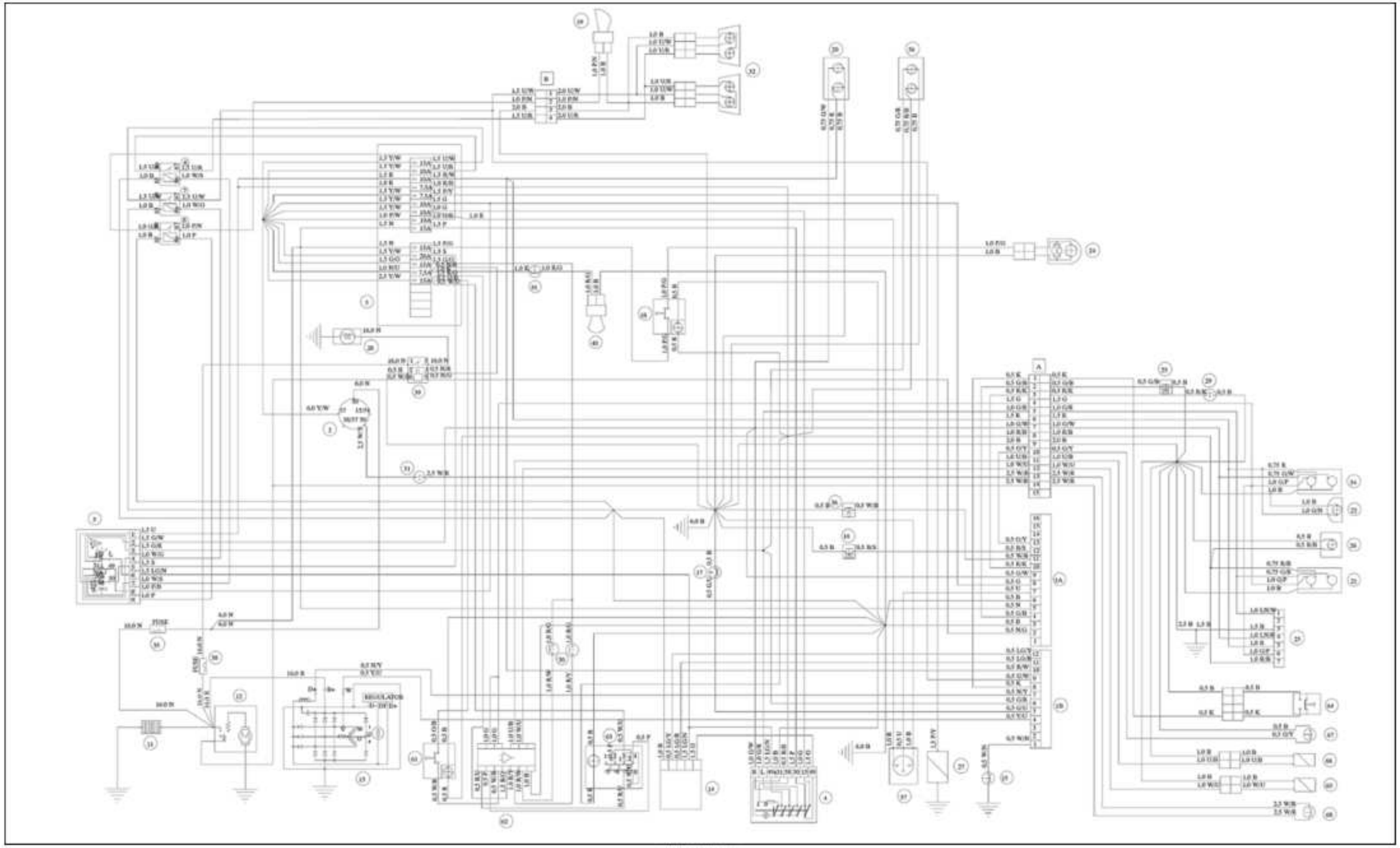


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