

Technical Information:

Date: 07/30/04
Subject: Install and Check Drops-Out and Pacing Relay
Product: Gala
Category: Relay
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Retrofitting relays

Delivery range:

1 relay circuit set with 2 screw fasteners
1 relay cable set with socket
1 seal

Press-out relay opening

WARNING

Disconnect gamma/ L from the power supply and rinse liquid end before commencing work!

NOTICE

When preparing the opening, ensure that the punch is not forced through the entire pump base!

Pump circuits may become damaged.

Assembly and Installation

- Place the gamma/ L on a firm surface with the relay opening press-out section at the top
(see fig. 15:a)
- Place a punch (dia. 8-15 mm) in the center of the relay opening press-out section, and strike briefly and sharply with a hammer (approx. 250 g)
- If necessary clean up the edges of the opening
- Remove the pressed out section from the gamma/ L

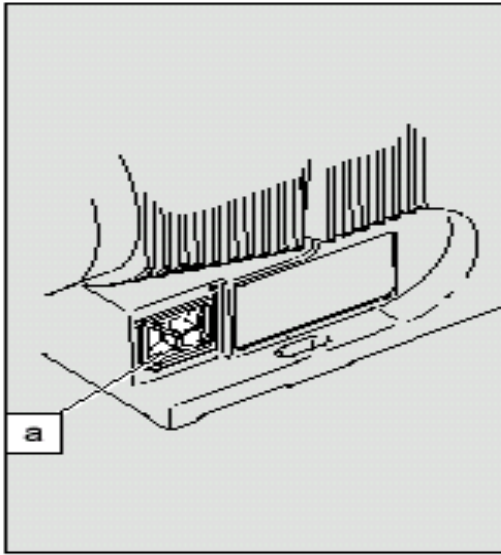


Fig. 15

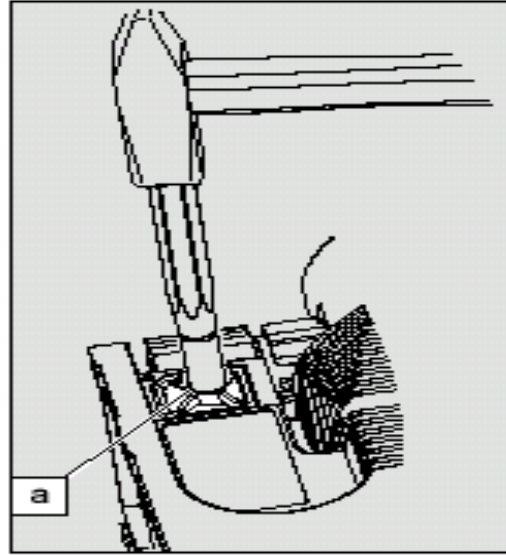


Fig. 16

Inserting the relay component

- Hold the relay component with your right hand gripping the left and right hand edges of the relay cover, and tilt the front end slightly to the left (see fig. 17)
- Push the relay component through the relay opening, holding the upper corner of the lower edge against the guide rail on the pump base, until the contact of the relay component has reached the controller contact. (See fig. 18: test: can you still move the end of the circuit back and forth?)
- Gently push the relay component right into the opening.
- Screw the relay cover firmly onto the housing using the screws provided.
- Insert the relay cable plug seal into the relay cover and screw on the plug (see fig. 19)

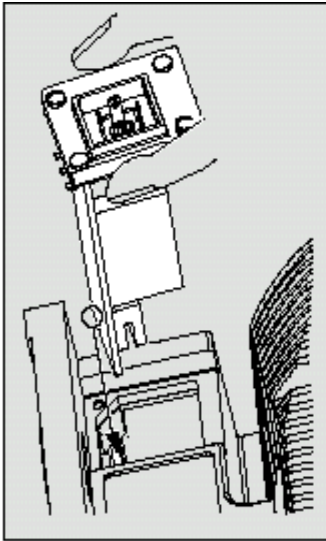


Fig. 17

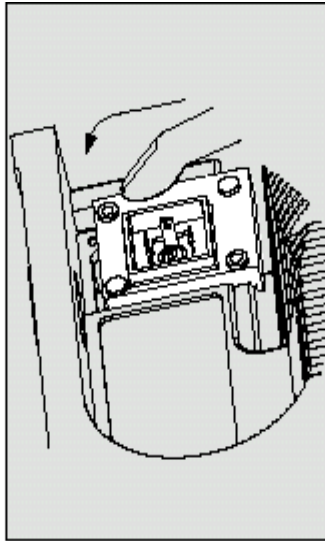


Fig. 18

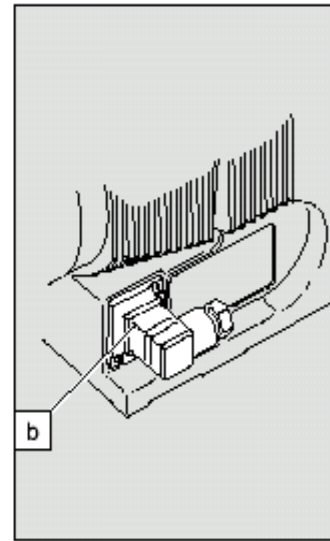


Fig. 19

Testing Drops-Out and Pacing Relay

- Attach a continuity tester to Yellow and Green wire on relay cable.
- Continuity should exist between the two wires.
- Plug pump into power source.
- Continuity should not exist between the two wires.
- Simulate an error condition with the pump.(eg. Level switch, analog signal)
- Continuity should exist between the two wires.
- Attach a continuity tester to White and Brown wire on relay cable.
- Run the pump in manual mode.
- Continuity should pulse between the two wires.
- Relay is good.