



## EntelliGuard® G Circuit Breaker Accessories

### Introduction

#### Fixed Secondary Disconnect (Breaker Mounted):

Fixed breakers are always supplied with a secondary disconnect (auxiliary connection block) suitable for 39 connection points (terminal A). When the number of factory installed accessories exceeds the available number of connection points needed, a 2<sup>nd</sup> connection block is automatically added (terminal B). For cases where the accessories are mounted in the field, an additional auxiliary connection block can be added to provide 39 more additional connections.

### Fixed Secondary Disconnect

	<b>WARNING:</b> Before installing any accessories, turn the breaker OFF, disconnect it from all voltage sources, and discharge the closing
	<b>AVERTISSEMENT:</b> Avant d'installer tout accessoire, mettre le disjoncteur en position OFF, le déconnecter de toute tension d'alimentation, et décharger les ressorts

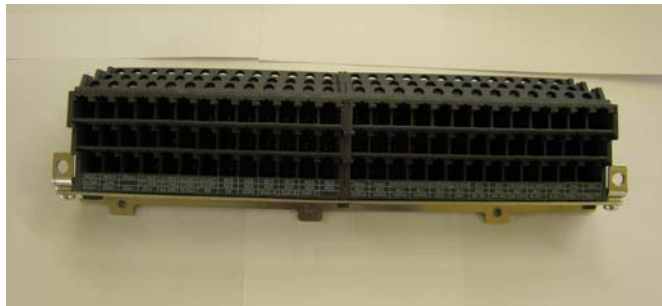


Figure 1. SD Two-Block Kit

Catalog No	Description
GSDFTR1	Aux, Disconnect Top Fixed 39 terminal
GSDFTR2	Aux, Disconnect Top Fixed 78 terminal

Use the following procedure to install Fixed Secondary Disconnect accessory into the circuit breaker.

1. Turn the breaker off and discharge the closing springs by depressing the OFF and ON buttons in the sequence OFF-ON-OFF. Verify that the breaker OFF-ON indicator shows OFF on a green background and that the charge indicator shows DISCHARGE on a white background. If installing in a draw-out type breaker remove breaker from adaptor (cassette) before continuing.
2. Loosen the 6 screws on front cover (fascia) using a posidrive screw driver as shown in Fig 1.B. Rotate the charging handle down and slide the front cover over the handle to remove the front cover as shown in Fig. 1.C.



Figure 1. (A) Front Cover (B) Screw Removal (C) Handle Rotation

3. Remove all the coils (refer to DEH41411.)

4. Remove all the equipment wiring and accessories wiring from the secondary disconnect.

5. Remove the 3 nuts as shown in fig 2.

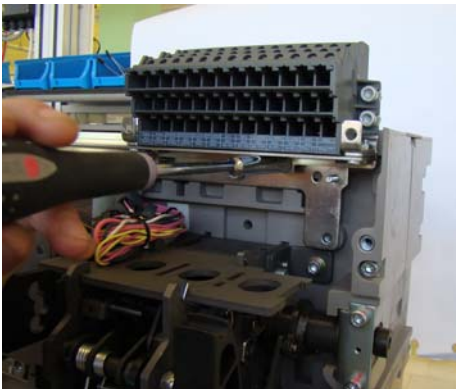


Figure 2. Nut Removal

6. Replace the one block assembly with the 2-block assembly as shown in fig 3.

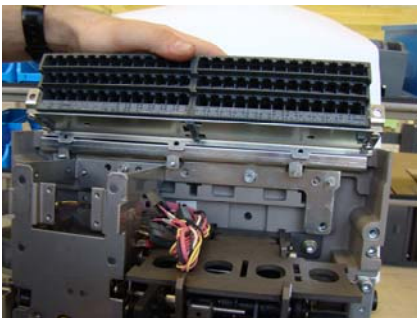


Figure 3. SD assembly

7. Assemble back the 3 nuts as shown in fig 4.

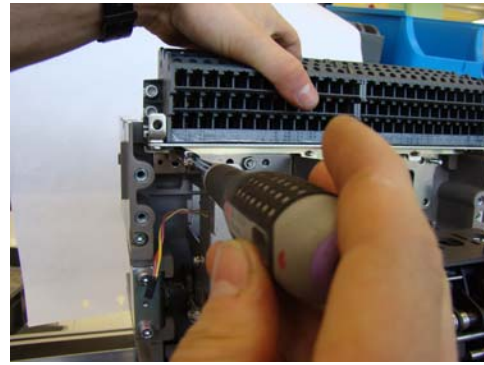


Figure 4. Nuts assembly

8. Complete the SD Wiring.

9. Assemble back all the coil accessories (refer to DEH41411).

10. To reinstall the cover, rotate the charging handle down and slide the front cover over the handle to assemble the front cover to housing as shown in Fig. 5



Figure 5.

11. Ensure the fascia is aligned properly with the trip unit and the pad lock features of the breaker.

12. Fasten the 6 mounting screws of fascia with the housing using a pozidrive screwdriver. Apply torque of 6 Nm (4.42 ft-lbs).

## Secondary Disconnect Wiring Table:

### Block A layout

<b>A1</b> MOTOR	<b>A2</b> MOTOR	<b>A3</b> SPR/ RTC	<b>A4</b> SPR/ RTC	<b>A5</b> ST1	<b>A6</b> ST1	<b>A7</b> UV1	<b>A8</b> UV1	<b>A9</b> CC COM	<b>A10</b> CC IMM	<b>A11</b> CC CMD	<b>A12</b> ST2/UV2	<b>A13</b> ST2/UV2
<b>A14</b> NC3	<b>A15</b> NC3	<b>A16</b> NC2	<b>A17</b> NC2	<b>A18</b> NC1	<b>A19</b> NC1	<b>A20</b> NO3	<b>A21</b> NO3	<b>A22</b> NO2	<b>A23</b> NO2	<b>A24</b> NO1	<b>A25</b> NO1	<b>A26</b>
<b>A27</b> O/P1a	<b>A28</b> O/P1b	<b>A29</b> O/P2 a	<b>A30</b> O/P2b	<b>A31</b> 24V+	<b>A32</b> 24V-	<b>A33</b> BA NC	<b>A34</b> BA NO	<b>A35</b> BA COM	<b>A36</b> N RC-	<b>A37</b> N RC+	<b>A38</b> Eleg- CT	<b>A39</b> Eleg- CT

### Block B layout

<b>B1</b> INPUT1	<b>B2</b> INPUT2	<b>B3</b> I/P com	<b>B4</b> ST1 NO / NC8	<b>B5</b> ST1 NO / NC8	<b>B6</b> UV1 NO / NC7	<b>B7</b> UV1 NO / NC7	<b>B8</b> NC6	<b>B9</b> NC6	<b>B10</b> NC5	<b>B11</b> NC5	<b>B12</b> NC4	<b>B13</b> NC4
<b>B14</b>	<b>B15</b>	<b>B16</b>	<b>B17</b> CC NO/ NO8	<b>B18</b> CC NO/ NO8	<b>B19</b> ST2/UV2 NO /NO7	<b>B20</b> ST2/UV2 NO /NO7	<b>B21</b> NO6	<b>B22</b> NO6	<b>B23</b> NO5	<b>B24</b> NO5	<b>B25</b> NO4	<b>B26</b> NO4
<b>B27</b> ZSI OUT+	<b>B28</b> ZSI OUT+	<b>B29</b> ZSI IN+	<b>B30</b> ZSI IN-	<b>B31</b> Iso GND	<b>B32</b> 5V Iso	<b>B33</b> Tx_EN_1	<b>B34</b> RX	<b>B35</b> TX	<b>B36</b> GND	<b>B37</b> Volt-A	<b>B38</b> Volt-B	<b>B39</b> Volt-C

These instructions do not purport to cover all details or variations in equipment nor, to provide contingency to be met in connection with installation, operation, or maintenance. Should further information be desired, or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to GE.

GE  
41 Woodford Ave, Plainville, CT 06062  
www.geelectrical.com

© 2009 General Electric Company



DEH-41417 R1 (03/09)