Low-Voltage Power Circuit Breakers

Programmer Disconnect Accessory

GENERAL

These instructions detail the installation of the programmer disconnect accessory to the Type AKR Drawout Substructures.

Disconnect Kit Cat. No.	Substructure Typical Cat. No.	Breaker Types _
343L806G2,G9	TAK_SR_ _	AKR-_D-30/50 AKRT-_D-50H
343L808G3,G10	TAK8SS02 TAK9SS02	AKR-_F-75 AKR-_F-100

DESCRIPTION

For G2 & G3, the remote target and zone selective interlocking options of the Microversatrip® programmer require external breaker connections. For G9 & G10. the zone selective interlocking & EPIC MVT options require external breaker connections. The programmer disconnect accessory automatically makes these connections.

INSTALLATION-DISCONNECT ASSEMBLY

1. Install the disconnect assembly to the left-hand substructure frame, as shown in Figure 1 or Figure 2. Use the hardware provided.

2. Consideration should be given to securing the disconnect assembly support bracket to the equipment frame. This would provide increased rigidity and better disconnect alignment.

INSTALLATION-WIRE CONNECTOR

The kits provide the connector and wire leads required to make up the "to breaker" end of the control harness. For G2 & G3: The connector is an AMP # 1-640515 modified by removal AMP # 640545-2. See Figure 3. Use AMP extraction tool # 455822-2 provided with the kit if pin removal required. No insertion tool is required: slide pin in until it locks. Refer to Table 1 for the pin identification code. Insert the connector into the disconnect assembly as shown in Figure 4.

For G9 & G10: The connector is an AMP # 211758-1. The sockets on the wire leads are AMP # 200333-1. Use AMP extraction tool # 305183-R provided with the kit if socket removal required. No insertion tool is required: slide socket in until it locks. Refer to Table 2 for the socket identification code. Assemble the connector to the disconnect bracket using the mtg kit as shown in Figure 5.

NOTE: For all groups, secure the control harness to the equipment frame so it does not interfere with the rack in or withdrawal of breakers.

OUTLINES

Disconnect Cat. No.	Outline
343L806G2,G9	139C5001 SH.4
343L806G3,G10	139C4595 SH.2

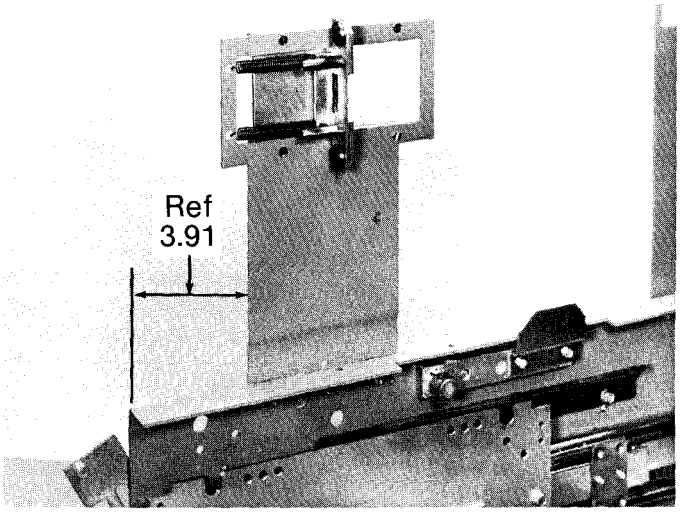

Figure 1 343L806G2 Disconnect assembly (24 pin) installed. 343L806G9 similar except 12 pin disconnect.

Table 1. Pin Number Identification, G2 & G3

Function				Pin No.
Zone Selective Interlock	Short	Input	+	1
			–	2
	Time	Output	+	3
			–	4
	Ground	Input	+	5
			–	6
	Fault	Output	+	7
			–	8
Fault Trip Indication	Overload			9
	Short Circuit			10
				11
	Ground Fault			12
				13
	Overload Pickup			14
				15
				16

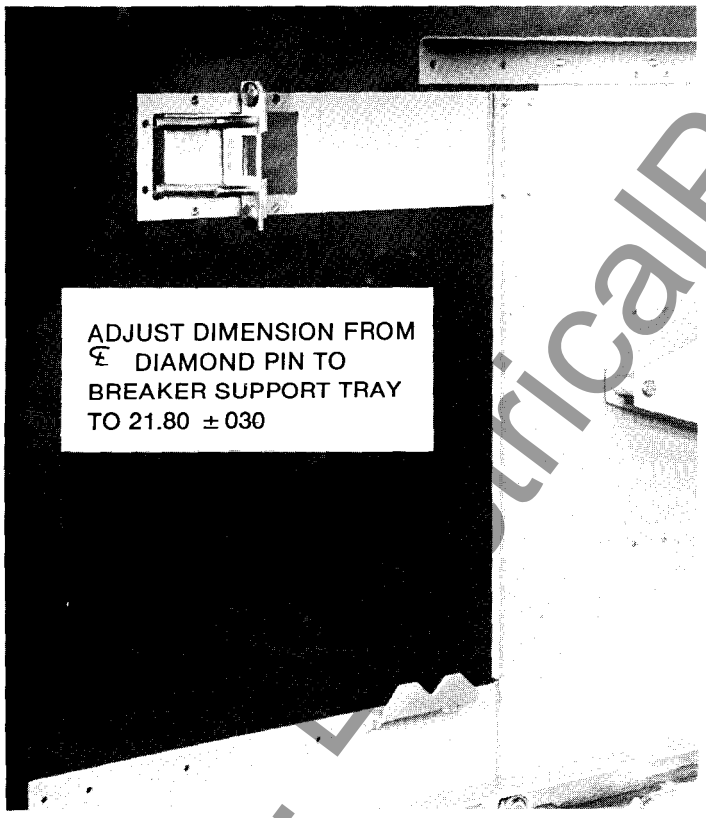

Figure 2. 343L806G3 Disconnect assembly (24 in) installed. 343L806G10 similar except 12 pin disconnect.

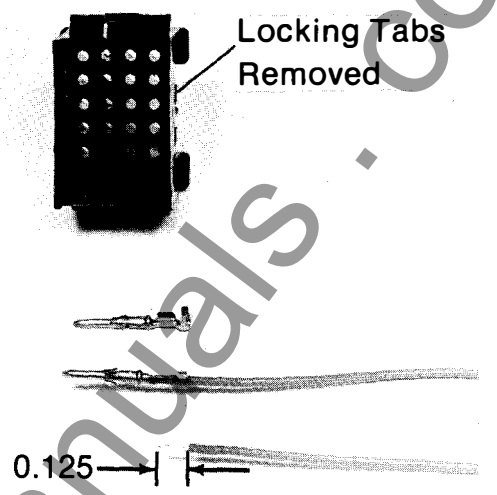

Figure 3. Wire connector hardware.

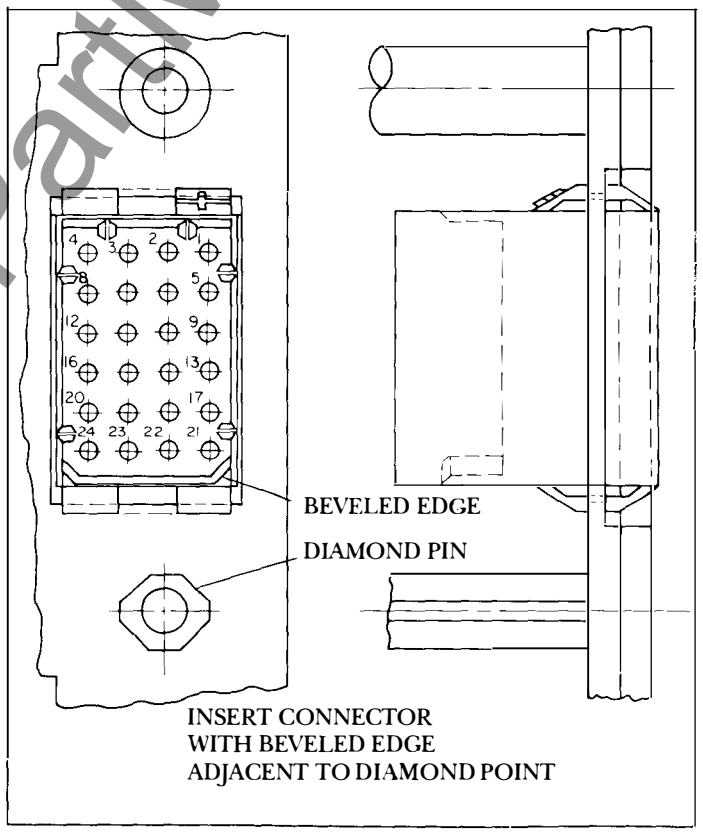

Figure 4. Connector orientation, G2, G3.

Table 2. G9, G10

	Socket No.		
Zone Selective Interlock	5	+	Gnd. Fault Inputs
	6	–	
	7	+	Gnd. Fault Outputs
	8	–	
Epic MVT	11	–	Homnet
	12	+	
	9	Spare	
	10	VC	
	1	V3	
	4	VA	
	2	24 Ret	
	3	+24 VDC	

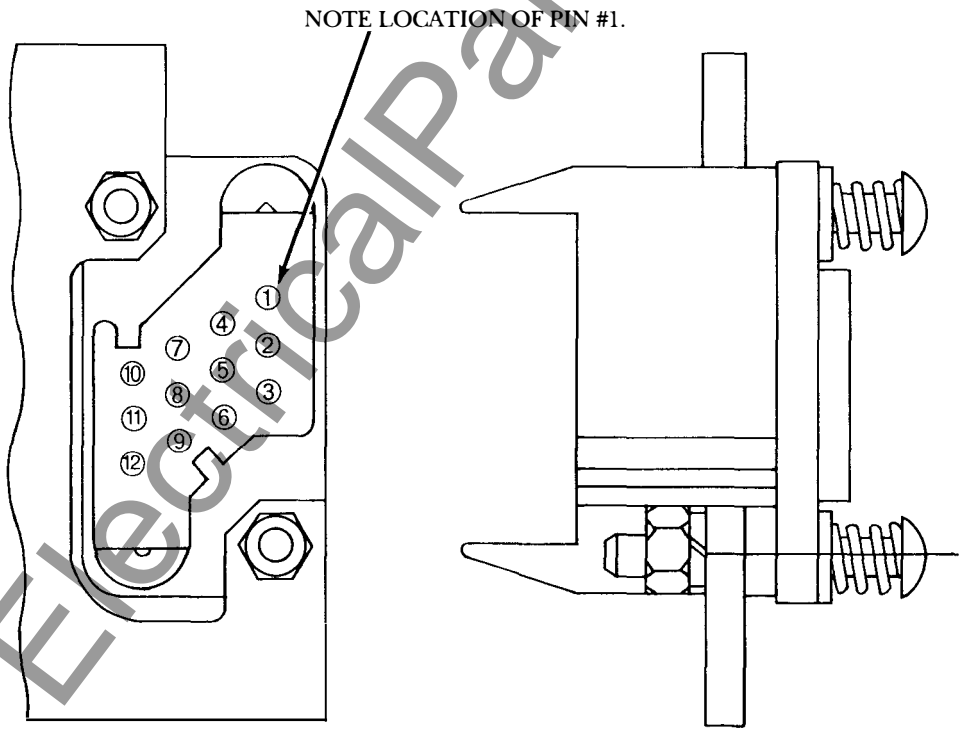

Figure 5. Connector orientation, G9, G10.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible 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 the GE Company.

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