



Allen-Bradley 1336 Load Reactor

Cat. No. 1336-MOD-LR

Installation Data

What This Option Provides

This installation data describes how to replace a Motor Terminal Bus Bar assembly with a 1336-MOD-LR Load Reactor. The 1336-MOD-LR Load Reactor is a group of coils located in the upper left corner of the drive at TB1 Terminals M1, M2, and M3.

Where This Option is Used

The 1336-MOD-LR Load Reactor is used on drives rated 1336 B150 – B200, C150 – C200, and VT B200 – B250.

What This Kit Contains

Each kit contains:

- (1) 1336-MOD-LR Load Reactor
- (1) Publication 1336-5.68

Tools Required

You need the following tools to disassemble and assemble the drive:

- #1 Phillips screwdriver
- Torque wrench, metered in inch-pounds (lb-in.) or Newton-meters (N-m).
- 7/16-inch socket for torque wrench
- 3/8-inch Allen (hex) for torque wrench

Installation Procedure

Precautions

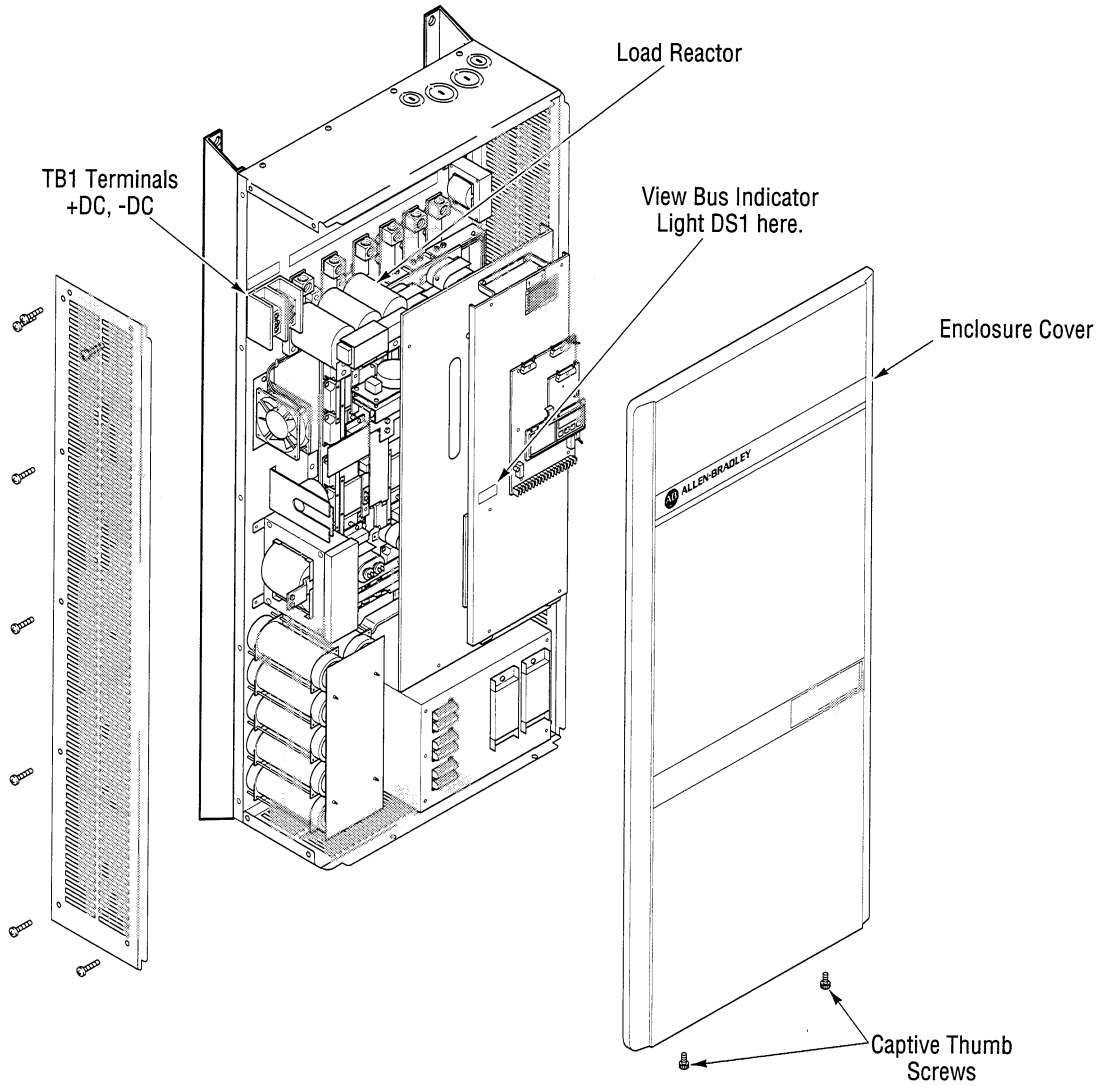


WARNING: Disconnect and lock out power from the drive before disassembling the drive. Failure to disconnect power may result in death or serious injury. A bus charge neon indicator provides visual indication that bus voltage is present. Verify bus voltage by measuring the voltage between +DC and –DC on Terminal Block TB1. Do not attempt to service the drive until the neon indicator has extinguished and the bus voltage has discharged to zero volts.



CAUTION: This assembly contains parts and sub-assemblies that are sensitive to electrostatic discharge. Static control precautions are required when servicing this assembly. Component damage may result if you ignore electrostatic discharge control procedures. If you are not familiar with static control procedures, reference Allen-Bradley Publication 8000–4.5.2, Guarding Against Electrostatic Damage, or any other applicable ESD protection handbook.

Remove the Enclosure Cover



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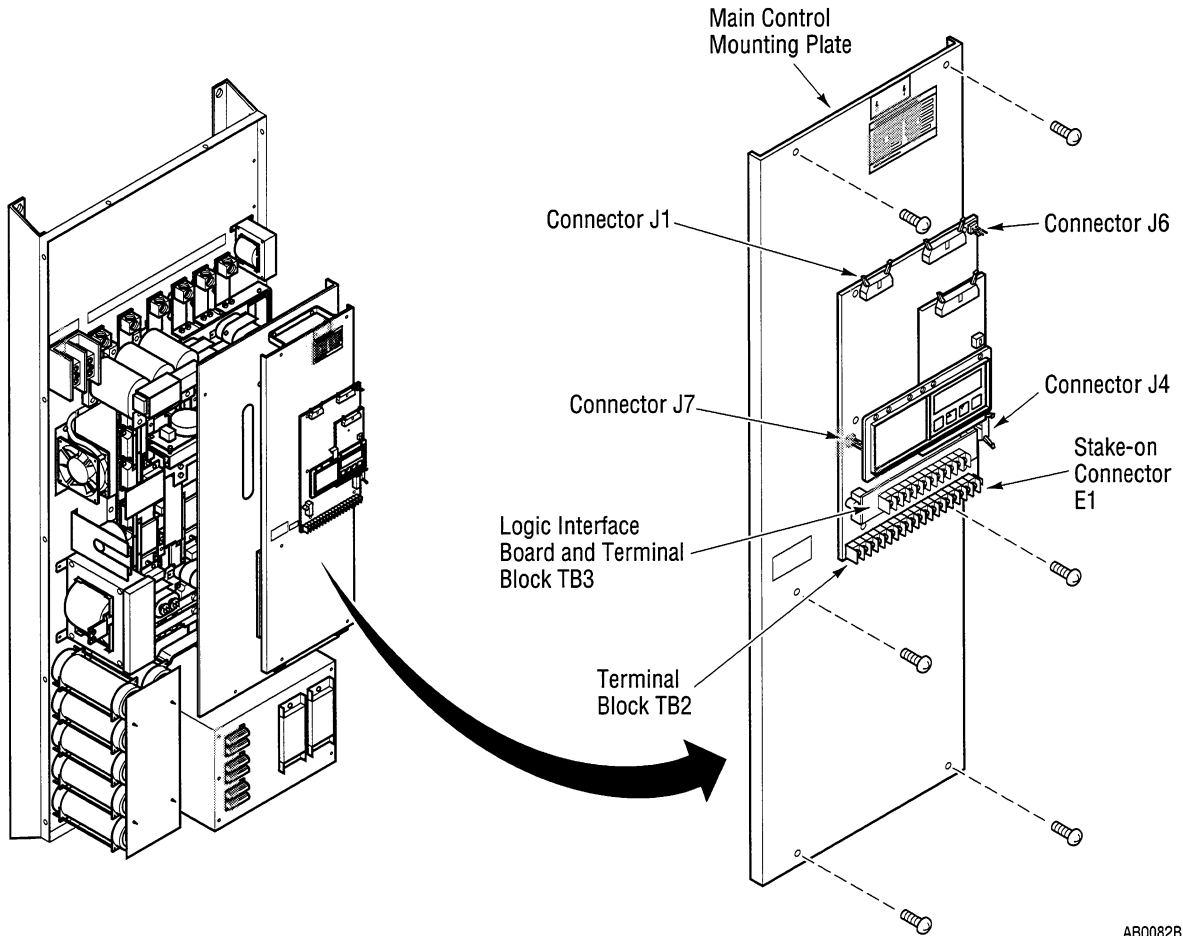


WARNING: Drive heatsink surface temperature may be at or near 100°C. Avoid contact with the drive heatsink.

1. Remove Power From the Drive
2. Remove the captive thumb screws fastening the Enclosure cover to the bottom of the Enclosure frame.
3. Pull the bottom of the cover outward, then lift the cover upward to remove the cover.
4. Wait for the Bus Indicator Light DS1 to turn off. Check for zero volts at TB1 Terminals +DC and -DC before proceeding with internal component disassembly.

Allen-Bradley Parts

Remove the Main Control Mounting Plate



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IMPORTANT: Before you remove connections, bus bars, and wires from the drive components, mark the connections, bus bars, and wires to correspond with their component connections and terminals to guard against incorrect wiring during assembly.

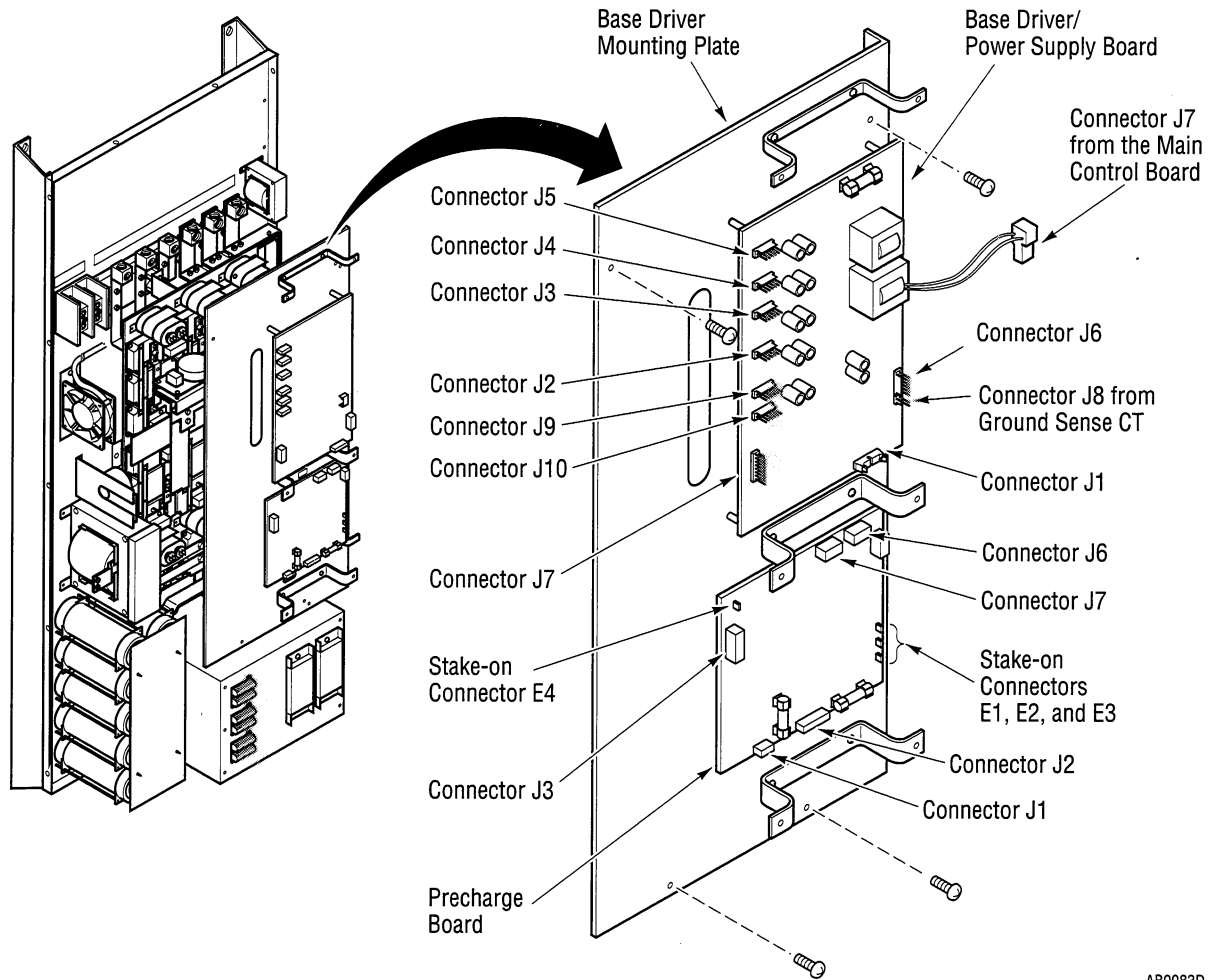
1. Remove the following from the Main Control Board:

- J6 connector
- J7 connector
- E1 stake-on connector
- J4 ribbon cable connector if MOD-S1 is used
- All wires from the TB2 terminals.

2. Remove the ribbon cable from Base Driver/Power Supply Board Connector J1. Reach through the hole below the Main Control Board on the Main Control Mounting Plate to access the connection.

3. Remove all wires from the TB3 terminals if a Logic Interface Board is being used.
4. Remove the screws fastening the Main Control Mounting Plate to the Base Driver Mounting Plate.

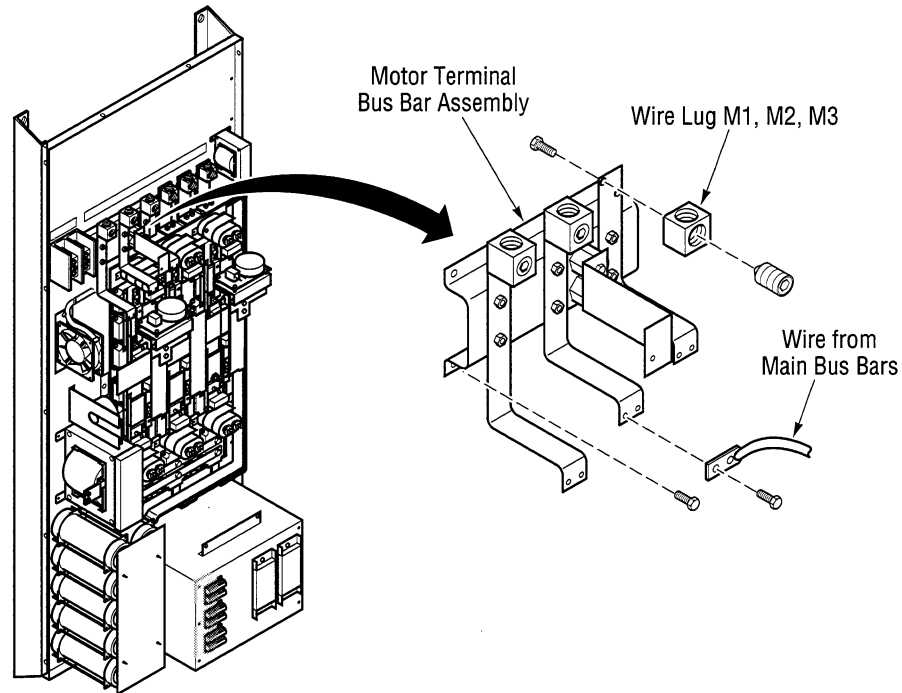
Remove the Base Driver Mounting Plate



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1. Remove connectors J2 – J5 and J7 – J10 from the Base Driver Board.
2. Remove the following from the Precharge Board:
 - J1 – J3 connectors
 - J6 connector
 - J7 connector
3. Remove the screws fastening the Base Driver Mounting Plate to the drive chassis.

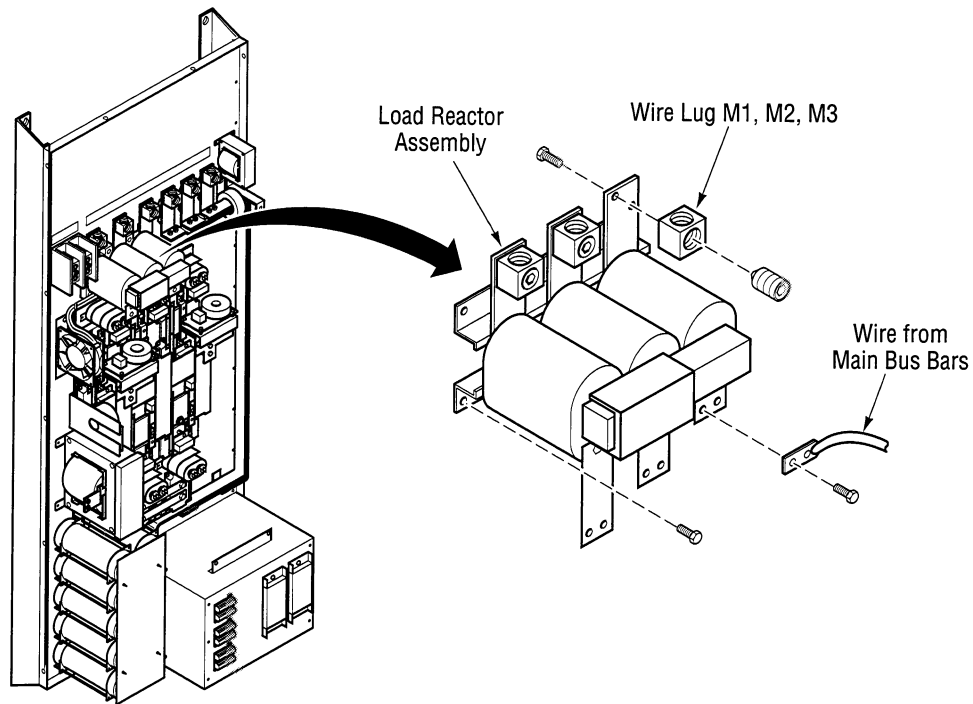
Remove the Motor Terminal Bus Bars



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1. Loosen the socket-head screws fastening the motor wires to Wire Lugs M1, M2, and M3.
2. Remove the screws fastening the bus wires to the Motor Terminal Bus Bar terminals.
3. Remove the screws fastening the Motor Terminal Bus Bar assembly to the Main Chassis.
4. Remove the screws fastening Wire Lugs M1, M2, and M3 to the Motor Terminal Bus Bar assembly.

Install the Load Reactor



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1. Fasten Wire Lugs M1, M2, and M3 to the Load Reactor. Torque the screws to 108 lb-in. or 12 N-m.
2. Fasten the Load Reactor to the Main Chassis. Torque the screws to 108 lb-in. or 12 N-m.
3. Fasten the bus wires to the Load Reactor coil terminals. Torque the screws to 108 lb-in. or 12 N-m.
4. Insert the motor wires into Wire Lugs M1, M2, and M3. Torque the screws to 375 lb-in. or 42 N-m.

Assembling the Drive

Install the Base Driver Mounting Plate, the Main Control Mounting Plate, and the Enclosure cover in reverse order of removal.



WARNING: Replace all guards before applying power to the drive. Failure to replace guards may result in death or serious injury.



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WORLD HEADQUARTERS

Allen-Bradley
1201 South Second Street
Milwaukee, WI 53204 USA
Tel: (1) 414 382-2000
Telex: 43 11 016
Fax: (1) 414 382-4444

**EUROPE/MIDDLE EAST/
AFRICA HEADQUARTERS**

Allen-Bradley Europe B.V.
Amsterdamseweg 15
1422 AC Uithoorn
The Netherlands
Tel: (31) 2975/43500
Telex: (844) 18042
Fax: (31) 2975/60222

ASIA/PACIFIC HEADQUARTERS

Allen-Bradley (Hong Kong) Limited
Room 1006, Block B, Sea View Estate
2-8 Watson Road
Hong Kong
Tel: (852) 887-4788
Telex: (780) 64347
Fax: (852) 510-9436

CANADA HEADQUARTERS

Allen-Bradley Canada Limited
135 Dundas Street
Cambridge, Ontario N1R 5X1
Canada
Tel: (1) 519 623-1810
Fax: (1) 519 623-8930

**LATIN AMERICA
HEADQUARTERS**

Allen-Bradley
1201 South Second Street
Milwaukee, WI 53204 USA
Tel: (1) 414 382-2000
Telex: 43 11 016
Fax: (1) 414 382-2400