ENGINE—MERCURY 110 AND 140 (6-CYL) WITH INDICATOR LIGHT

STARTING MOTOR WITH INTEGRAL STARTER SOL-NOID

IGNITION COIL

OIL PRESSURE SENDER

WATER TEMPERATURE SENDER

ALTERNATOR

BATTERY

BATTERY

GROUND AT SOL-NOID

GROUND AT PRIMARY WIRE TERMINAL BLOCK

VOLTAGE REGULATOR TERMINAL BLOCK

INSTRUMENT PANEL

TERM.

NOTE: A COMPLETE INSTRUMENT PANEL CIRCUIT MOUNTED IN INSTRUMENT PANEL SHOULD BE INDIVIDUALLY GROUNDED.
ENGINE—MERCRUISER 110, 120 AND 150 WITH AMMETER AND TRANSISTOR REGULATOR

Connect Leads with Screw & Nut.
Insulate With Neoprene Sleeve.

Typical 2-Place.

Shift Ignition Cut-Out Switch

Tilt Switch

Red

Blue

White

Black

Transistor Voltage Regulator

OIL PRESSURE SENDER

WHITE

BLACK

BLACK

YELLOW

STARTER SOLENOID

Engine Ground

STARTER MOTOR WITH INTEGRAL START SOLENOID

DISTRIBUTOR (4 or 6 Cylinder)

IGNITION COIL

Note: If a Metal Instrument Panel Is not used, each Instrument Case to be Individually Grounded.
ENGINE—MERCURY 110, 140 (4-CYL) AND 150 WITH AMMETER, TRANSISTOR REGULATOR AND BALLAST RESISTORS
ENGINE—MERCURYER 120, 140 and 165 WITH CIRCUIT BREAKER AND VACUUM GAUGE

INSTRUMENT PANEL

WATER TEMPERATURE
OIL PRESSURE
VACUUM GAUGE

TACHOMETER
AMMETER

OPTION: (See Note 1)
Connect Accessory Panel as Shown.

ALTERNATIVE CONNECTIONS OF INSTRUMENT GROUPS TO EXTENSION HARNESS

NORMALY CLOSED REVERSE INTERLOCK SWITCH
NORMALY CLOSED TRIM LIMIT SWITCH

NOTES:
1. Connect to Neutral Safety Switch. If a Switch is Not Used at This Position, Connect with Screw and Nut, and Insulate with Neoprene Sleeve.
2. Electrical Accessory Load Cannot Exceed 150 Amps.

HARNESS AND GAUGES 6378A1-A2 and 63781A1-A2

CONNECT TO 12 VOLS AT STARTER MOTOR AND GROUND AT FLYWHEEL COVER.
ENGINE—MERCRUISER 120 (SERIAL NO. 3770650 AND UP), 140 (3771645 AND UP) AND 165 (3774665 AND UP)

INSTRUMENT PANEL

WATER TEMPERATURE

OIL PRESSURE

VACUUM GAUGE

AMMETER

WARNING LIGHT

TACHOMETER

NOTEs:
1. Connect to Neutral Safety Switch. If a Switch is Not Used at This Position, Connect with Screw and Nut, and Insulate with Neoprene Sleeve.
2. Electrical Accessory Load Cannot Exceed 25 Amps.

EXTENSION HARNESS 84-63796-445

84-63715

84-63780A1-A2

84-63781A1A2

TERMINAL BLOCK

HYDRAULIC PUMP MOTOR

SOLENOID

TERMINAL BLOCK

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ENGINE—MERCRUISER 160 AND 165 WITH INTEGRAL ALTERNATOR

NOTE: If a metal instrument panel is not used, each instrument case must be individually grounded.

TYPE OF CONNECTION
1. Plug-in Connector — Secure with Clamp
2. Plug-in Connectors
3. Plug-in Connectors
4. Plug-in Connectors
5. Red - Mog Black - Screw
6. Plug-in Connectors
7. Screws And Nuts — Insulate with Neoprene Sleeves
8. Wing Nut or Tapered Post
ENGINE—MERCRUISER 21bH

TRIM LIMIT SWITCH

OIL PRESSURE SENSOR

ELECTRIC CHOKE (HEATER)

STARTER SOLENOID

WEIGHT TEMP. METER

STARTER MOTOR

ALTERNATOR

MALE CONNECTOR (PIN END)

ALTERNATE WIRING 45 FT. INSTALLATION

TRIM PANEL

MALE CONNECTOR

NORMALLY CLOSED REVERSE INTERLOCK SWITCH

TERMINAL BLOCK

SOLENOIDS

NOTE: If a Metal Instrument Panel Is Not Used, Each Instrument Case Must Be Individually Grounded.

CONNECT TO 12-VOLT POSITIVE AT STARTER MOTOR
ENGINE—MERCRUISER 190 AND 229 WITH ELECTROMECHANICAL REGULATOR AND AMMETER

NOTE: Oil Temp. Light Pink Lead & Oil Temp. Sender Used Only in MerCruiser "310" Installation

NOTE: If a Metal Instrument Panel Is Not Used, Each Instrument Case to Be Individually Grounded
ENGINE—MERCURY 225 WITH TRANSISTOR REGULATOR

- Shift Interlock Switch
- Oil Pressure Sender
- Slave Start Solenoid
- Slave Cylinder Distributor
- Engine Ground
- Ignition Coil
- (3) Ballast Resistor
- Yellow
- Red
- White
- White
- Tan
- Red
- Black
- Blue
- Water Temperature Sender
- Alternator
- 12 Volt Battery

NOTE:
If a metal instrument panel is not used, each instrument case to be individually grounded.

- Terminal Block
- Red/White
- Orange
- Brown
- Black
- Green
- Red
- Yellow
- White
- Yellow
- White
- Red
- Blue
- White
- Black
- Oil Pressure Panel Light
- Tachometer
- Panel Light
- Water Temperature
- Panel
- Fuel Switch
- Fuse Block
- Ammeter
- To Throttle Position/Cut-Out Switch
ENGINE—MERCRUISER 225II-TR (SERIAL NO. 3779775 AND UP), 255IITR AND 255IITRS (3938788 AND UP)

WIRING DIAGRAMS

[Diagram of wiring connections and labels for engine components, including battery, starter, neutral switch, oil pressure sensor, water temperature sensor, etc.]
ENGINE—MERCURY 228-TR, 255-TR (SERIAL NO. 4175500 AND UP),
280-TRS, 330-TR AND 330-TRS

- 12-VOLT BATTERY
- STARTER SOLENOID
- STARTER MOTOR
- NEUTRAL SAFETY SWITCH
- ENGINE GROUND
- 40 AMP CIRCUIT BREAKER
- ALTERNATOR
- RESISTANCE CABLE
- WATER TEMPERATURE SENDER
- OIL PRESSURE SENDER
- IGNITION COIL
- DISTRIBUTOR
- ELECTRIC SHIFT CONTROL

Cable Colors:
- Red
- Black
- Tan
- Yellow
- Orange
- Green
- White
- Brown

Stud Colors:
- +12 Stud

Switches:
- NEUTRAL: Orange
- FORWARD: Green
- REVERSE: Blue
ENGINE—MERCURY 228 AND 250 (SERIAL NO. 4657551 AND UP)

- Shift Interrupter Switch: Brown, Black
- Shift Bracket: Terminal Block
- Taped Back (Not Used)
- Engine Ground
- 40-Amp Circuit Breaker
- Starter Solenoid
- Start Motor
- Water Temperature Sender
- 12-Volt Battery
- Oil Pressure Sender
- Alternator
- Ignition Coil
- Distributor
- 12-Volt Battery
ENGINE—MERCRUISER 250 AND 325 WITH SWITCH BOX
ENGINE—MERCRUISER 2S0 AND 325 WITH WATER TEMPERATURE SWITCH
ENGINE—MERCURY 325 WITH WATER TEMPERATURE SWITCH AND TRIM SENDER

NOTE: If a Metal Instrument Panel Is Not Used, Each Instrument Case Must Be Individually Grounded.
ENGINE—MERCURY 470 WITH WATER-COOLED VOLTAGE REGULATOR

SHIFT INTERRUPTER SWITCH

VOLTAGE REGULATOR

TERMINAL BLOCK

ENGINE GROUND

40 AMP CIRCUIT BREAKER

WATER TEMPERATURE SENDER

OIL PRESSURE SENDER

RESISTANCE CABLE

12-VOLT BATTERY

DISTRIBUTOR
NOTES:

1. If Remote Control Is Not Equipped with Throttle Position Cut-Out Switch, (A) Connect Leads with Screw and Nut; Insulate with Neoprene. (B) Connect to Neutral Safety Switch. If a Switch Is Not Used at This Position, Connect with Screw and Nut; Insulate with Neoprene Sleeve.

2. The Sum of the Electrical Loads Drawn from the Upper and Lower Accessories Taps Cannot Exceed 35 Amps.

SEE NOTE 2
ENGINE—MERCRUISER 888 (SERIAL NO. 3777490 AND UP) AND 225-S (3836888 AND UP)
POWER TRIM—MERCRUISER 215, 225II-TR AND 255II-TR

TRIM CONTROL

TRAILER

DUAL TRIM ADAPTOR B-58366

To SECOND TRIM CONTROL PANEL, if REQUIRED

Red
Green
Blue
Purple

Blue-No-Connection

TRIM LIMIT SWITCH

GROUND ON ENGINE BLOCK, CONNECT TO STARTER MOTOR

NORMALLY CLOSED REVERSE INTERLOCK SWITCH

HYDRAULIC PUMP MOTOR

WIRING DIAGRAMS
POWER TILT

Key Switch
Connections:
Off  D-E
On   A-F

Brow-White

Connect to Brown Sift Inter-Lock Switch Cable
Connect to Black Tilt Switch Cable

Terminal Block
Blue
Green
Red
Plug & Connector

Pump Motor
Green

Solenoid
Blue
Red

Connect to + 12V.
Connect to +12V.
POWER TRIM WITH PUSH BUTTON (EARLY)

POWER TRIM WITH ROCKER SWITCH
POWER TRIM WITH TRIM SENDER (DOUBLE SOLENOID SYSTEM)

POWER TRIM CONTROLS
"A" II-TR[B] Trim Handle
"B" 3-Button Panel

TRIM LIMIT SWITCH

TRIM SENDER

SOLENOID (DOWN)
HYDRAULIC PUMP MOTOR

SOLENOID (UP)

HYDRAULIC PUMP MOTOR

TRIM CONTROL "A"

TRIM CONTROL "B"

CONNECTIONS:
- Purple: "A" Trim Control
- Blue: "B" Trim Control
- Black: Connect to NEGATIVE (-) BATTERY TERMINAL
- Red: Connect to POSITIVE (+) BATTERY TERMINAL
ENGINE—MERCRUISER 888 (SERIAL NO. 3777480 AND UP),

225-S (383888 AND UP) AND 233

...
INSTRUMENT PANEL

MALE CONNECTOR PIN END

1. RED-WHITE
2. ORANGE
3. BLACK
4. BROWN
5. GREEN
6. RED
7. YELLOW
8. WHITE
9. PURPLE

OPTION: CONNECT ACCESSORY FUSED PANEL AS SHOWN. MAX. LOAD 35 AMPS.

CONNECT WITH SCREW & NUT
INSULATE WITH NEOPRENE SLEEVE

WATER TEMPERATURE
TACHOMETER
WHITE AMMETER
OIL PRESSURE
VACUUM GAUGE
MECH.

KEY SWITCH
INSTRUMENT CLUSTER WITH WARNING LIGHT (THUNDERBOLT IGNITION)

NOTES:
1. Connect to neutral start switch. If a switch is not used at this position, connect with screw and nut and insulate with neoprene sleeve.
2. Electrical accessory load cannot exceed 35 amps.
NOTES:
1. Connect neutral start switch. If a switch is not used, connect with screw and nut and (See Note 3)
2. Electrical accessory must connect and exceed 30 amperes.

WARNING LIGHT

WATER TEMPERATURE

VACUUM GAUGE

AMMETER

OIL PRESSURE

INSTRUMENT CLUSTER WITH WARNING LIGHT (BREAKER POINT)

MALE CONNECTOR (PIN END)
INSTRUMENT CLUSTER WITHOUT WARNING LIGHT (BREAKER POINT)

Strap Position Allows Use with 4, 6 or 8-Cyl. Engines Standard Ignition (Shown in 4-Cyl. Position).

**NOTES:**
1. Connect in Neutral Start Switch. If Switch Is Not Used at This Position, Connect These Leads with Screw and Nut and Insulate with a Neoprene Sleeve.
2. An Accessory Fused Panel May Be Connected at This Point. Load May Not Exceed 35 Amps.
3. Purple Lead Is Taped Back at Instrument End and at Engine End -- May Be Used for Accessories. Limit: 5 Amps.
INSTRUMENT CLUSTER SECOND STATION (THUNDERBOLT IGNITION)

NOTES:
1. Connect to Neutral Safety Switch. If a Switch Is Not Used at This Position, Connect with Screw and Nut; Insulate with Neoprene Sleeve.
2. The Sum of the Electrical Loads (Drawn from the Upper and Lower Accessories Taps) Cannot Exceed 35 Amperes.
INSTRUMENT CLUSTER SECOND STATION (BREAKER POINT)

NOTES:
1. Connect to neutral start switch if a switch is not used at this position. Connect with screw and nut and insulate with neoprene sleeves.
2. The sum of the electrical loads drawn from the upper and lower accessories taps cannot exceed 30 amps.