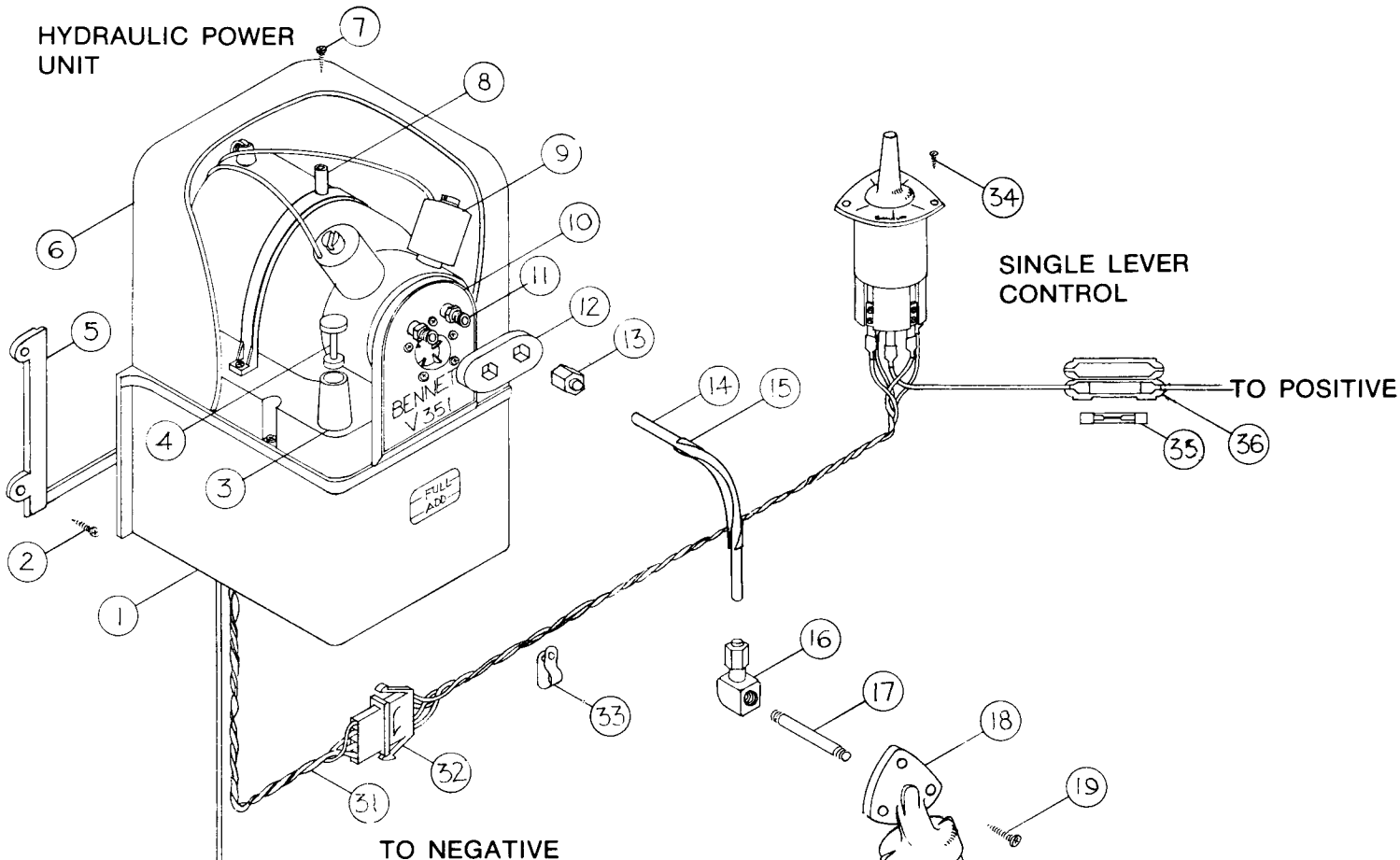


HYDRAULIC POWER UNIT



- 1 Reservoir
- 2 # 10 x 1" screw
- 3 Filler stack
- 4 Filler plug
- 5 Mounting bracket
- 6 Lexan cover
- 7 Type 25 thread-cutting screw
- 8 Motor strap
- 9 Solenoid valve
- 10 Pump face
- 11 1/8" pipe to 1/4" tube
- 12 Hex retainer
- 13 Nut w/ferrule
- 14 Hydraulic tubing
- 15 Tube bending clip
- 16 Female elbow
- 17 Brass pipe nipple
- 18 Upper hinge
- 19 # 14 x 1 1/2" screw
- 20 Cylinder
- 21 Piston
- 22 Pin
- 23 Lower hinge
- 24 Wooden shim, as required (not included in set)
- 25 Backing plate
- 26 Mounting plates
- 27 Hinge plate
- 28 # 10 x 1 1/4" screw
- 29 Trim plane
- 30 1/4" - 20 x 3/4" machine screw
- 31 Wire harness (led down channel in back of reservoir)
- 32 Plug
- 33 Nylon hangers
- 34 # 4 x 1/2" screw
- 35 20-amp fuse
- 36 Fuse holder



BASICS OF THE V351

WIRING. Harness colors and functions:

| | |
|--------|-----------------|
| Red | Port Valve |
| Green | Starboard Valve |
| Blue | Pump Pressure |
| Yellow | Pump Retract |
| Black | Ground |

Control is marked on bottom for color coding.

Markings on top of control refer to hull action. When the toggle is moved to port down, for example, the starboard trim plane lowers which in turn lowers the port side of the bow. Thus, when under way, the operator merely moves the control toggle in the direction of the high quarter of the boat and that quarter lowers.

TUBING CONNECTIONS. Facing pump, the left side goes to port (left) actuator, right to starboard. Note that solenoid valve wire on left is red and right valve wire is green matching the navigation light colors — easy to remember.

TESTING FUNCTION OF CONTROL. (Refer to color coding above and it will clarify the following.) Remove wires from control. Touching the positive lead to the colors as shown at left should provide results as shown at right.

| | |
|-----------------------------------|--------------------------|
| Positive with blue & red | Port plane down |
| Positive with blue & green | Starboard plane down |
| Positive with blue, red & green | Both down simultaneously |
| Positive with yellow & red | Port plane up |
| Positive with yellow & green | Starboard plane up |
| Positive with yellow, red & green | Both up simultaneously |

If the opposite plane moves to that described above, the tubing is reversed at the pump.

The control toggle operates through an arc of about 45° in the “both-up” and “both-down” positions (about 20°-25° either side of straight forward or straight aft). To get one plane only, the toggle should be moved to the 45° marks on the control.

If trim planes go down but will not come up, it is normally caused by low voltage. To ascertain low voltage, check voltage while pump is running with a voltmeter at the pump end of the wires. If the voltage is less than 9V, the valves will not open.

Telephone help may be obtained by calling (305) 427-1400.

