

HWH® INSTALL & SERVICE INFORMATION

VALVES (Air & Hydraulic)

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[? Electric \(Solenoid\) Valves](#)

[? Mechanical Valves \(Velocity Valves, etc.\)](#)

[? Wiring of Solenoid Valves](#)

ELECTRIC (SOLENOID) VALVES

[Click to Link](#)

AIR Solenoid Valves

- **Coil Replacement** on an Air Solenoid Valve
 - ~ RAP90568 **Coil Replacement** Instruction Sheet (Pg. 1 - mi150011) [mi155771](#)
 - ~ AP1940 12 Volt Air Solenoid Valve
 - ~ One-Wire to Two-Wire (Pg. 2 - mi1551)
- **Air Solenoid Valve Replacement** (3 Pages) [ML36113.PDF](#)
 - ~ 2005 Newmar® Essex® Coaches
- **Air Solenoid Valve RAP1940 Replacement** [mi156024.pdf](#)

HYDRAULIC Solenoid Valves

- Hydraulic Solenoid Valve Identification - Manual Valve Release Operations - Replacement Information [ML60078](#)
 - ~ Manual **Cam/Flipper Release** Information
 - ~ Manual **1/4" Nut Release** Information
 - ~ Slide-Outs or Jacks
- Hydraulic Solenoid Valve Manual Release [mi150063.pdf](#)
 - ~ Manual **Cam/Flipper Release Replacement/Adjustment**
 - ~ Large & Small Valves
 - ~ Slide-Outs or Jacks
- **325 (Long-Board) Series, Touch Panel-Control Hydraulic Leveling** [mi44725.pdf](#)
 - ~ Solenoid **Valve Replacement** Concerning Slow Jack Retraction
 - ~ Jack Retraction Times (Page 2 - MI9553)
(Information Bulletin - DDAPR09)
- **610 Series Leveling** [ML55193](#)
 - ~ Relay Schematic - Series/Parallel Operation - Hydraulic Solenoid Operation - System Off (Pg 1 - MI1546)
 - ~ Relay Schematic - Hydraulic Solenoid Operation - All Solenoids Activated Extend or Retract (Pg 2 - MI1547)
 - ~ Relay Schematic - Hydraulic Solenoid Operation - All Solenoids Activated Two Seconds After Retract Starts (Pg 3 - MI1548)
 - ~ Relay Schematic - Hydraulic Solenoid Operation - Retract Mode with Shorted Solenoids (Pg 4 - MI1549)
- **Slide-Out** [mi957603.pdf](#)
 - ~ Solenoid **Valve Identification and Replacement**
(Product/Service Bulletin - 28APR03)
- **Slide-Out** [mi159502.pdf](#)
 - ~ Solenoid **Valve Replacement** Instruction Sheet

- **Slide-Out** Link Assembly / Roller Replacement Quick Reference
 - ~ **Locating Solenoid Valves** (Pg 1 - MI150068)
 - ~ Disassembly / Assembly (Pg 2 - MI150069)

[ml36149.pdf](#)

MECHANICAL VALVES

[Click to Link](#)

Velocity Valves

- Velocity Valve Installation Instructions

[mi1581](#)

WIRING OF SOLENOID VALVES

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- **Adapter Wires**
 - ~ Replacement of One-Wire Components with Two-Wire Components
 - ~ Parts (valves, switches, etc.) with Two-Wire Packard® Connectors with AP1403 or AP0909 Adapter Wire

[mi1551.pdf](#)