HYDRAULIC
LINE CONNECTION DIAGRAMS

HWH® SPACEMAKER® SLIDE-OUT SYSTEMS

FEATURING:
Dual-Cylinder "Universal Level-Out (ULO)" Slide-Out System
FOR CONNECTION CLARITY, ONLY THE ROOM CYLINDERS ARE SHOWN

C - HOSES MUST BE HIGH PRESSURE HOSE AND THEY MUST BE EQUAL LENGTH
D - HOSE MUST BE EQUAL LENGTH AND THE SAME TYPE OF HOSES
E & F - LINES ARE HIGH PRESSURE HOSE OR TUBE SUPPLIED WITH THE MECHANISMS
G - HOSES MUST BE HIGH PRESSURE HOSE AND THEY MUST BE EQUAL LENGTH

PROPER HOSE CONNECTIONS ARE CRITICAL

ROOM CYLINDERS CAP END MANIFOLD CONNECTION
ROOM CYLINDERS ROD END MANIFOLD CONNECTION

SEE MP64.9900 FOR PUMP MANIFOLD CONNECTION VARIATIONS
SLIDE-OUT LINE CONNECTIONS AT THE MANIFOLD

ALL HWH SLIDE-OUT MECHANISMS

Hose connections at the manifold are critical. Improper hose routing will cause incorrect slide-out function and can cause severe damage to slide-out cylinders or solenoid valves. If a rod and cap end hose are reversed for a slide-out, the slide-out cylinder(s) will extend but not retract.

The rod and cap hoses must go to the correct fittings in line with the correct extend and retract valves for the slide-out. If the rod end or cap end hoses for two slide-outs are swapped, extreme pressure will damage the solenoid valves or slide-out cylinders.

Connection information on this page is the same for systems equipped with auxiliary hand pumps or remote slide-out manifolds.

★ If the vehicle only has one slide-out and the manifold is not equipped with an auxiliary hand pump, the rod end hose connection may be at a fitting that is on either end of the slide-out manifold. If the power unit has a leveling manifold, there will not be a spacer with fittings between the leveling and slide-out manifolds.

Top View of 4 Slide-Out Manifold

Slide-Out Cylinder Connections

Rod End Connections (4)

Cap End Connections (4)

Slide-Out Cylinder Retract Valves (4)

Pump Motor

Power Unit Without Leveling Manifold (including systems equipped with hand pump)

Slide-Out Cylinder Connections

Rod End Connections (4)

Cap End Connections (4)

Slide-Out Cylinder Extend Valve

Power Unit With Leveling Manifold

Jacks

Solenoid Valves

Spacer

Slide-Out Cylinder Extend Valve

Slide-Out Cylinder Retract Valve

★ Rod End Connection Single Slide-Out Systems
INCLUDED WITH ROOM MECHANISM

A  ROD END - ALWAYS PRESSURIZED

B  CAP END

C  ROD END - ALWAYS PRESSURIZED
MUST BE HOSES OF EQUAL LENGTH
AND DIAMETER

D  CAP END
MUST BE HOSES OF EQUAL LENGTH
AND DIAMETER

E  CAP END
MUST BE HOSES OF EQUAL LENGTH
AND DIAMETER

TO ROD END OF MANIFOLD

TO CAP END OF MANIFOLD

NOTE: LIFT SYNC MUST BE MOUNTED
WITH THE CAP END POINTING UP.

*LH ASSY

*RH ASSY

TOP VIEW
SINGLE SLIDE-OUT MANIFOLD

SIDE VIEW
MULTIPLE SLIDE-OUT MANIFOLD
WITH LEVELING MANIFOLD

SIDE VIEW
REMOTE MANIFOLD OR SLIDE-OUT MANIFOLD
WITH NO LEVELING MANIFOLD OR
WITH AUXILIARY HAND PUMP

MP64.9990E
20JUN12