HYDRAULIC
LINE CONNECTION DIAGRAMS

HWH® SPACEMAKER® SLIDE-OUT SYSTEMS

FEATURING:
Dual-Cylinder "Universal Level-Out (ULO)" Slide-Out System
With Center Lift Cylinder
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

SEE MP64.9900 FOR PUMP MANIFOLD CONNECTION VARIATIONS
HYDRAULIC LINE CONNECTION DIAGRAM
SLIDE-OUT LINE CONNECTIONS AT THE MANIFOLD
ALL HWH SLIDE-OUT MECHANISMS

POWER UNIT WITH LEVELING MANIFOLD
JACK SOLENOID VALVES
SPACER
SLIDE-OUT CYLINDER EXTEND VALVE

POWER UNIT WITHOUT LEVELING MANIFOLD
(INCLUDING SYSTEMS EQUIPPED WITH HAND PUMP)
SLIDE-OUT CYLINDER EXTEND VALVE

SLIDE-OUT LINE 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.

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
F CAP END

TO ROD END OF MANIFOLD
TO CAP END OF MANIFOLD

CENTER LIFT
ASSY

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

LIFT SYNC CYL.

F6006

SIDE VIEW
MULTIPLE SLIDE-OUT MANIFOLD
WITH LEVELING MANIFOLD
LEVELING MANIFOLD

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

TOP VIEW
SINGLE SLIDE-OUT MANIFOLD

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

LH AND RH LABELED AS
VIEWED FROM OUTSIDE
OF ROOM

FOR CONNECTION CLARITY ONLY
THE CYLINDERS ARE SHOWN

*RH ASSY

*CAP END

*RH ASSY

*CAP END

INCLUDE 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
F CAP END

TO ROD END OF MANIFOLD
TO CAP END OF MANIFOLD

CENTER LIFT
ASSY

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

LIFT SYNC CYL.

F6006

SIDE VIEW
MULTIPLE SLIDE-OUT MANIFOLD
WITH LEVELING MANIFOLD
LEVELING MANIFOLD

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

LH AND RH LABELED AS
VIEWED FROM OUTSIDE
OF ROOM

FOR CONNECTION CLARITY ONLY
THE CYLINDERS ARE SHOWN

*RH ASSY

*CAP END

*RH ASSY

*CAP END

INCLUDE WITH ROOM MECHANISM

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AND DIAMETER
D CAP END
MUST BE HOSES OF EQUAL LENGTH
AND DIAMETER
E CAP END
MUST BE HOSES OF EQUAL LENGTH
AND DIAMETER
F CAP END

TO ROD END OF MANIFOLD
TO CAP END OF MANIFOLD

CENTER LIFT
ASSY

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

LIFT SYNC CYL.

F6006

SIDE VIEW
MULTIPLE SLIDE-OUT MANIFOLD
WITH LEVELING MANIFOLD
LEVELING MANIFOLD

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

LH AND RH LABELED AS
VIEWED FROM OUTSIDE
OF ROOM

FOR CONNECTION CLARITY ONLY
THE CYLINDERS ARE SHOWN

*RH ASSY

*CAP END

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INCLUDE WITH ROOM MECHANISM

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MUST BE HOSES OF EQUAL LENGTH
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MUST BE HOSES OF EQUAL LENGTH
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