ROOM EXTENSION CYLINDER REPLACEMENT
LATERAL ARMROOM EXTENSION
(WITH SYNCHRONIZING CYLINDER)

IMPORTANT: The following instructions must be
followed or air lock of the synchronizing cylinder and
unsynchronized operation of the room cylinders may
result causing damage to the room. Please read the
instructions before replacing the cylinder. DO NOT
reverse direction of the room unless the room is fully
extended or retracted.

1. Retract the room fully to gain access to the cylinder rod
mounting nuts.

2. Loosen the extend valve “T” Handle/Valve release nut.

3. Loosen the retract valve “T” Handle/Valve release nut.

4. Remove the upper rod nut and lock washer from the
rod mount plate for both the front and rear room cylinders.

5. Retract cylinder until rod clears rod mount plate.

6. Remove and cap the hoses at the end of the cylinder that
is to be replaced.

7. Remove the cylinder mount bolt and lockwasher and
remove both the front and rear room cylinders from
the mechanism channels.

NOTE: Do not remove the caps from the new cylinder
hose connections until you are ready to reattach the
hoses. Save the caps.

8. Remove the lower rod nut from the old cylinder and install
onto the rod of the new cylinder in the same exact position.

IMPORTANT: DO NOT PULL THE CYLINDER ROD OUT
OF THE NEW CYLINDER. ATTACH THE NEW CYLINDER
WITH THE ROD RETRACTED AS IT WAS SHIPPED.

9. Attach the hoses to the cylinder. Do not over tighten the
hose ends. See MP45.9436 for tightening of hoses.

10. Remove Hose A from the room extension manifold. Use
a cap from the new cylinder to cap the fitting in the manifold.
Direct Hose A into the fluid reservoir.


12. Push and hold the room control switch to “RETRACT”
until both cylinders are fully extended plus five seconds.

13. Reattach Hose A to the room extension manifold.

14. Push and hold the room control switch to “EXTEND”
until both cylinders are fully retracted, plus 5 seconds.
Extend and retract the cylinders at least twice or until they
are running fully synchronized.

NOTE: DO NOT replace the cylinders until they are
running fully synchronized.

15. Retract (Push Extend) both cylinders fully before
installing the cylinders.

IMPORTANT: BEFORE INSTALLING THE CYLINDERS,
CLEAN ALL EXCESS OIL FROM THE ROOM
EXTENSION CHANNEL AND SWAB THOROUGHLY
WITH A MILD SOLVENT AND RAGS. EXCESS OIL LEFT
IN THE CHANNEL MAY LEAK OUT GIVING THE
APPEARANCE OF A LEAKY CYLINDER OR HOSE
CONNECTION.

16. Install both cylinders in the room extension channel.
Replace both cylinder mount bolts and washers, but do not
fully tighten to aide in ease of rod connection.

CAUTION: DO NOT TRY TO LINE THE ROOM
CYLINDER ROD UP WITH THE MOUNTING HOLE WHILE
THE ROD IS EXTENDING.

17. Extend both cylinder rods through the rod mount plate so
that each lower rod nut is making contact under full pressure.

18. Replace both upper rod nuts and lockwashers and fully
tighten.

IMPORTANT: Make sure that the fittings are centered
in the channel to avoid damaging hoses and fittings
with room travel.

19. Fully tighten cylinder mount bolt.

IMPORTANT: Do not reverse direction of the room until
the room is fully extended or retracted.

20. Push the room control switch to extend and hold until the
room is fully extended plus 5 seconds. Watch for excessive
racking of the room. Some racking can occur do to air in the
system. If the room starts to bind up, release the room
control switch immediately. If the room does not bind up,
proceed to Step 21. If the room is bound up, go to Step 20.

21. If the room is bound up, repeat Steps 2 and 3.
Manually push the room in to its full retraction. Now repeat
Steps 4, 11, 14, 16, and 17. If the room will still not run
properly, contact HWH CORPORATION Customer Service at
(800)321-3494 or at (563)724-3396.

22. Retract the room fully again. Do not reverse direction
until the room is fully retracted. Repeat retracting and
extending the room several times being careful not to reverse
directions until the room is fully extended or retracted.

23. With the room fully retracted, check seals for proper
compression. If the seal is not compressed or needs more
compression, decrease dimension “A” on the in stop
adjustment. If the seal is compressed too much, increase
dimension “A” on the in stop adjustment.

24. Check all hose connections and mounting nuts and bolts
for tightness and leaks.


NOTE: ROD AND CAP END HOSE CONNECTIONS WILL BE THE SAME FOR MULTIPLE ROOM EXTENSIONS.

ROOM EXTENSION MANIFOLD
SYNCHRONIZING CYLINDER
3/16” HIGH PRESSURE HOSE

TIGHTENING OF HOSE ENDS: IF TIGHTENING A NEW HOSE END, MAKE THE HOSE END SNUG (FINGER TIGHT) ON THE FITTING, THEN TIGHTEN THE HOSE END 1/3 TURN (2 FLATS). IF TIGHTENING AN EXISTING HOSE END, TIGHTEN THE HOSE END TO SNUG PLUS 1/4 TURN (1 FLAT).