

OEM Guide Page

HWH SpaceMaker Equipment for **MORRISON VIP COACH Vehicles**

(File: MR404550.DOC | Revised: 19APR17)

[> Printable PDF File](#)

PROCEDURE:

1. Locate the HWH identification tag on the SpaceMaker mechanism to get the correct mechanism part number.
2. Find the correct SpaceMaker mechanism part number in the left column below.
3. Refer to the listed HWH Parts Manual Page for general replacement parts information and item number arrangements.
4. Note that two-cylinder mechanisms with a synchronizing cylinder have two part numbers. One number is for the left assembly and one is for the right assembly. If the mechanism assembly originally had one number, that number is listed with the new numbers.

SLIDE-OUT Mechanisms	
MECHANISM AP1700	<p>CYLINDER ASSEMBLY – 39.0” STROKE (CYLINDER ONLY) – AP1993 AND AP2262 KITS</p> <p>CYLINDER ASSEMBLY_____ RAP90007 (39.0” STROKE)- REPLACES AP1700</p>
MECHANISM AP10066	<p>CYLINDER ASSEMBLY – 34.0” STROKE (CYLINDER ONLY)</p> <p>CYLINDER ASSEMBLY_____ RAP90351 (34.0” STROKE)- REPLACES AP10066</p>
MECHANISM AP14766 AP14767	<p>VERTICAL ARM ROOM EXTENSION – 24.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP14765 KIT SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION.</p> <p>CYLINDER ASSEMBLY_____ ITEM 1 - RAP90426 (9.689” STROKE) REPLACES AP14028</p> <p>SYNCHRONIZING CYLINDER_____ ITEM 6 - RAP90427 (3.815” STROKE) REPLACES AP14027</p> <p>HOSE ASSEMBLIES_____ ITEM 4 - RAP49245 (AP49245) ITEM 5 - RAP49245 (AP49245)</p>
MECHANISM AP15030 AP15031	<p>VERTICAL ARM ROOM EXTENSION – 35.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP14929 KIT</p> <p>NO INFORMATION AVAILABLE.</p>
MECHANISM AP15033 AP15034	<p>VERTICAL ARM ROOM EXTENSION – 33.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP15032 KIT SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION.</p> <p>CYLINDER ASSEMBLY_____ ITEM 1 - AP22902 (13.225” STROKE) CONTACT HWH CORPORATION</p> <p>SYNCHRONIZING CYLINDER_____ ITEM 6 - RAP90454 (5.310” STROKE) REPLACES AP15282</p> <p>TUBE KIT_____ RAP91223 - REPLACES AP19936</p> <p>HOSE ASSEMBLIES_____ ITEM 4 - RAP49517 (AP49517) ITEM 5 - RAP24653 (AP24653)</p>
MECHANISM AP16190 AP16191	<p>VERTICAL ARM ROOM EXTENSION – 17.0” STROKE (WITH SYNCHRONIZING CYLINDER) SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION.</p> <p>CYLINDER ASSEMBLY_____ ITEM 1 - RAP90387 (6.68” STROKE) REPLACES AP14283</p> <p>SYNCHRONIZING CYLINDER_____ ITEM 6 - RAP90383 (2.565” STROKE) REPLACES AP14281</p> <p>HOSE ASSEMBLIES_____ ITEM 4 - RAP49245 (AP49245) ITEM 5 - RAP24642 (AP24642)</p>

MECHANISM AP16195 OR AP19296 AP19297	DUAL CYLINDER ROOM EXTENSION – 39.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP16163 KIT SEE > MR412005.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP90521 (40.0” STROKE) REPLACES AP16202 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90443 (15.865” STROKE) REPLACES AP16196 TUBE KIT_____ ITEM 2 - RAP90481 - REPLACES AP15379
MECHANISM AP17359	SINGLE CYLINDER ROOM EXTENSION – 24.0” STROKE – AP17358 KIT SEE > MR411100.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91021 (27.0” STROKE) REPLACES AP28682 HOSE ASSEMBLIES_____ ITEM 3 - RAP50907 (AP50907) ITEM 4 - RAP16434 (AP16434)
MECHANISM AP17400 AP17851 AP17852	FOUR CYLINDER ROOM EXTENSION – 20.5” STROKE (WITH SYNCHRONIZING CYLINDER) AP22398 KIT SEE > MR412601.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLIES_____ ITEM 1 - RAP90647 (20.5” STROKE) REPLACES AP17851 ITEM 2 - RAP90648 (20.5” STROKE) REPLACES AP17400 ITEM 3 - RAP90650 (20.5” STROKE) REPLACES AP17852 SYNCHRONIZING CYLINDER_____ ITEM 4 - RAP90875 (2.780” STROKE) REPLACES AP25558 SEE > MR418002.HTML FOR ADDITIONAL SYNC CYL REPLACEMENT PARTS
MECHANISM AP19151 AP19152	FLAT FLOOR ROOM EXTENSION – 32.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP19150 KIT SEE > MR412200.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP90696 (36.0” STROKE) REPLACES AP19256 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90466 (12.980” STROKE) REPLACES AP14301 HOSE ASSEMBLIES_____ ITEM 2 - RAP24648 (AP24648)
MECHANISM AP21881 AP21882	DUAL CYLINDER ROOM EXTENSION – 24.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP21880 KIT SEE > MR412005.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP90484 (24.5” STROKE) REPLACES AP15252 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90472 (9.685” STROKE) REPLACES AP13224 TUBE KIT_____ ITEM 2 - RAP90480 - REPLACES AP13252
MECHANISM AP22945	FOUR CYLINDER ROOM EXTENSION – 24.0” STROKE – AP22944 KIT NO INFORMATION AVAILABLE.
MECHANISM AP26889 AP26890	DUAL CYLINDER ROOM EXTENSION – 36.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP39957 KIT SEE > MR412005.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91799 (36.5” STROKE) REPLACES AP23577 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90474 (14.630” STROKE) REPLACES AP12484 TUBE KIT_____ ITEM 2 - RAP90480 - REPLACES AP13252

MECHANISM AP27131 AP27132	VERTICAL ARM ROOM EXTENSION – 24.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP27130 KIT SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91200 (10.172” STROKE) REPLACES AP24733 SYNCHRONIZING CYLINDER_____ ITEM 6 - RAP91019 (3.935” STROKE) REPLACES AP13180 TUBE KIT_____ RAP91224 - REPLACES AP23196 HOSE ASSEMBLIES_____ ITEM 4 - RAP24643 (AP24643) ITEM 5 - RAP24647 (AP24647)
MECHANISM AP27137 AP27138	LATERAL ARM ROOM EXTENSION – 20.0” STROKE – AP27136 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91351 (6.775” STROKE) REPLACES AP27997 TUBE KIT_____ ITEM 2 - RAP91774 - REPLACES AP28035 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP27140 AP27141	VERTICAL ARM ROOM EXTENSION – 32.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP27139 KIT SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91197 (12.18” STROKE) REPLACES AP23170 SYNCHRONIZING CYLINDER_____ ITEM 6 - AP23400 (5.115” STROKE) CONTACT HWH CORPORATION HOSE ASSEMBLIES_____ ITEM 4 - RAP24642 (AP24642) ITEM 5 - RAP24641 (AP24641)
MECHANISM AP27339 AP27340	LATERAL ARM ROOM EXTENSION – 16.0” STROKE – AP27338 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91203 (6.150” STROKE) REPLACES AP26255 TUBE KIT_____ ITEM 2 - RAP91226 - REPLACES AP27031 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP27836 AP27837	X-SLIDE ROOM EXTENSION – 20.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP36357 KIT SEE > MR412670.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91208 (9.20” STROKE) REPLACES AP27862 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90587 (3.455” STROKE) REPLACES AP17199 TUBE KIT_____ ITEM 2 - RAP91229 - REPLACES AP27587 HOSE ASSEMBLIES_____ ITEM 4 - RAP24641 (AP24641) ITEM 5 - RAP24640 (AP24640)
MECHANISM AP28280 AP28281	VERTICAL ARM ROOM EXTENSION – 21.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP28279 KIT SEE > MR412500.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91198 (9.104” STROKE) REPLACES AP23197 SYNCHRONIZING CYLINDER_____ ITEM 6 - RAP90587 (3.455” STROKE) REPLACES AP17199 TUBE KIT_____ RAP91224 - REPLACES AP23196 HOSE ASSEMBLIES_____ ITEM 4 - RAP24643 (AP24643) ITEM 5 - RAP24647 (AP24647)
MECHANISM AP32027 AP32028	X-SLIDE ROOM EXTENSION – 25.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP32026 KIT SEE > MR412670.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91350 (11.400” STROKE) REPLACES AP27865 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP91701 (4.300” STROKE) REPLACES AP30260 TUBE KIT_____ ITEM 2 - RAP91229 - REPLACES AP27587 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)

MECHANISM AP32030 AP32031	X-SLIDE ROOM EXTENSION – 32.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP32029 KIT SEE > MR412670.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91210 (14.300” STROKE) REPLACES AP29191 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90726 (5.750” STROKE) REPLACES AP15042 TUBE KIT_____ ITEM 2 - RAP91230 - REPLACES AP29192 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP32431 AP32432	UNIVERSAL SLIDE OUT ROOM EXTENSION – 25.0” STROKE (WITH SYNC. CYLINDER) AP33847 KIT SEE > MR412680.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91702 (34.0” STROKE) REPLACES AP31461 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90473 (12.155” STROKE) REPLACES AP13192 TUBE KIT_____ ITEM 2 - RAP91703 - REPLACES AP31486 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP32870 AP32871	UNIVERSAL SLIDE OUT ROOM EXTENSION – 30.0” STROKE (WITH SYNC. CYLINDER) AP32869 KIT SEE > MR412680.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91702 (34.0” STROKE) REPLACES AP31461 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90473 (12.155” STROKE) REPLACES AP13192 TUBE KIT_____ ITEM 2 - RAP91703 - REPLACES AP31486 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP33322 AP33323	UNIVERSAL SLIDE OUT ROOM EXTENSION – 30.0” STROKE (WITH SYNC. CYLINDER) AP51526 KIT SEE > MR412680.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91702 (34.0” STROKE) REPLACES AP31461 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92077 (10.540” STROKE) REPLACES AP37881 TUBE KIT_____ ITEM 2 - RAP91703 - REPLACES AP31486 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP36205 AP36206	UNIVERSAL LEVEL OUT ROOM EXTENSION – 25.0” STROKE (WITH SYNC. CYLINDER) AP35154 KIT SEE > MR412683.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91072 (34.0” STROKE) REPLACES AP31461 LIFT CYLINDER ASSEMBLY_____ ITEM 10 - RAP91992 (2.75” LIFT) REPLACES AP34390 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90440 (10.095” STROKE) REPLACES AP16509 LIFT SYNCHRONIZING CYLINDER_ ITEM 11 - RAP92473 - REPLACES AP34576 TUBE KIT_____ ITEM 2 - RAP91703 - REPLACES AP31486 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP36590 AP36591	LATERAL ARM ROOM EXTENSION – 20.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP36589 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91351 (6.775” STROKE) REPLACES AP27997 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90524 (2.385” STROKE) REPLACES AP14881 TUBE KIT_____ ITEM 2 - RAP91774 - REPLACES AP28035 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)

MECHANISM AP36593 AP36594	LATERAL ARM ROOM EXTENSION – 16.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP36592 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91203 (6.150” STROKE) REPLACES AP26255 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP91013 (1.810” STROKE) REPLACES AP28566 TUBE KIT_____ ITEM 2 - RAP91226 - REPLACES AP27031 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP36598 AP36599	LATERAL ARM ROOM EXTENSION – 16.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP36597 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91203 (6.150” STROKE) REPLACES AP26255 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP91013 (1.810” STROKE) REPLACES AP28566 TUBE KIT_____ ITEM 2 - RAP91226 - REPLACES AP27031 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP36608 AP36609	LATERAL ARM ROOM EXTENSION – 20.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP36607 KIT SEE > MR412825.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP91351 (6.775” STROKE) REPLACES AP27997 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP90524 (2.385” STROKE) REPLACES AP14881 TUBE KIT_____ ITEM 2 - RAP91774 - REPLACES AP28035 HOSE ASSEMBLIES_____ ITEM 4 - RAP24627 (AP24627) ITEM 5 - RAP24627 (AP24627)
MECHANISM AP38251 AP38252	UNIVERSAL STRAIGHT OUT – 30.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP42236 KIT SEE > MR412685.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP92076 (30.5” STROKE) REPLACES AP38072 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92077 (10.540” STROKE) REPLACES AP37881 TUBE KIT_____ ITEM 2 - RAP92079 - REPLACES AP38267 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP38383 AP38384	UNIVERSAL LEVEL OUT – 26.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP40756 KIT SEE > MR412690.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP92076 (30.5” STROKE) REPLACES AP38072 LIFT CYLINDER ASSEMBLY_____ ITEM 11 - RAP92260 (2.75” LIFT) REPLACES AP38604 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92469 (9.130” STROKE) REPLACES AP39275 LIFT SYNCHRONIZING CYLINDER_ ITEM 12 - RAP92316 - REPLACES AP38264 TUBE KIT_____ ITEM 2 - RAP92079 - REPLACES AP38267 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)

MECHANISM AP38944 AP38945	UNIVERSAL LEVEL OUT – 30.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP40757 KIT SEE > MR412690.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP92076 (30.5” STROKE) REPLACES AP38072 LIFT CYLINDER_____ ITEM 11 - RAP92260 (2.75” LIFT) REPLACES AP38604 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92077 (10.540” STROKE) REPLACES AP37881 LIFT SYNCHRONIZING CYLINDER_ ITEM 12 - RAP92316 - REPLACES AP38264 TUBE KIT_____ ITEM 2 - RAP92079 - REPLACES AP38267 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP39645 AP39646	UNIVERSAL STRAIGHT OUT – 26.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP40755 AND AP49898 KITS SEE > MR412685.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP92076 (30.5” STROKE) REPLACES AP38072 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92469 (9.130” STROKE) REPLACES AP39275 TUBE KIT_____ ITEM 2 - RAP92079 - REPLACES AP38267 HOSE ASSEMBLIES_____ ITEM 4 - RAP24632 (AP24632) ITEM 5 - RAP24638 (AP24638)
MECHANISM AP40822 AP40823	UNIVERSAL STRAIGHT OUT – 20.0” STROKE (WITH SYNCHRONIZING CYLINDER) AP48831 KIT SEE > MR412685.HTML FOR DRAWING AND PARTS INFORMATION. CYLINDER ASSEMBLY_____ ITEM 1 - RAP92075 (20.5” STROKE) REPLACES AP39251 SYNCHRONIZING CYLINDER_____ ITEM 3 - RAP92099 (7.010” STROKE) REPLACES AP39221 TUBE KIT_____ ITEM 2 - RAP92092 - REPLACES AP39321 HOSE ASSEMBLIES_____ ITEM 4 - RAP24631 (AP24631) ITEM 5 - RAP24637 (AP24637)