

PARTS MANUAL

Gen 2 / Cyncra 2016 / MVP / MVP Hydra - Rev 2015.5

Last Revision: Nov 13, 2015



3 Group MVP



3 Group
Cyncra 2016



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Table of Contents

Section	Pages
Body Panels, MVP	2
Body Panels, MVP & MVP Hydra Fasteners	3
Water Inlet, Right Side	4
Water Outlet, Left Side / Brew Tank Drain Assemblies	5
Part Numbers & Descriptions for MVP Series Parts, Wood Packages	6-7
Side Panel Drawings, MVP & MVP Hydra	8
Side Panel Assemblies, MVP & MVP Hydra	9
4 Magnet Flowmeters, MVP & MVP Hydra Flowmeter Assemblies	10
Group Tops, Handles, Actuator,	11
Shot Timer, "S" Logo, Leg Assembly, Display Controller	12
Tech Bulletin for New Display Controller	13
Body, Gen 2	14-16
Group Tops, Actuators	17-19
Hydraulic System	20-24
Sight Glass	25
Pumps & Motors	26-27
Electronics, Gen 2	28-29
Portafilters & Baskets	30
Parts & Kits (Electrical Box on Page 35)	31-35
Wood Packages	36-37
Retrofit Kits	
Steam & Brew Tank	38-40
Water Control Valve Kits, Switches	41
Drain Manifold & Electronics, Gen 1 Electronics	42-43
Options & Accessories	
Line Pressure Boost System	44
Shot Mirrors	45
Cup Riser for Drip Tray	45
Trim Kits	46
Breaker Blocker Posts / Foot & Leg Stabilizer Gen 1 & 2, Cyncra	46
T-Shirts / Shot Glasses	47
MVP Series Log Book	48

Body - MVP



Body - MVP Hydra with Black Nickel Accents



The 1 Group MVP Hydra is sold with the 4" Synesso "S" Logo and not the "Synesso" name plate.

MVP Series Fasteners

Polished Stainless Steel

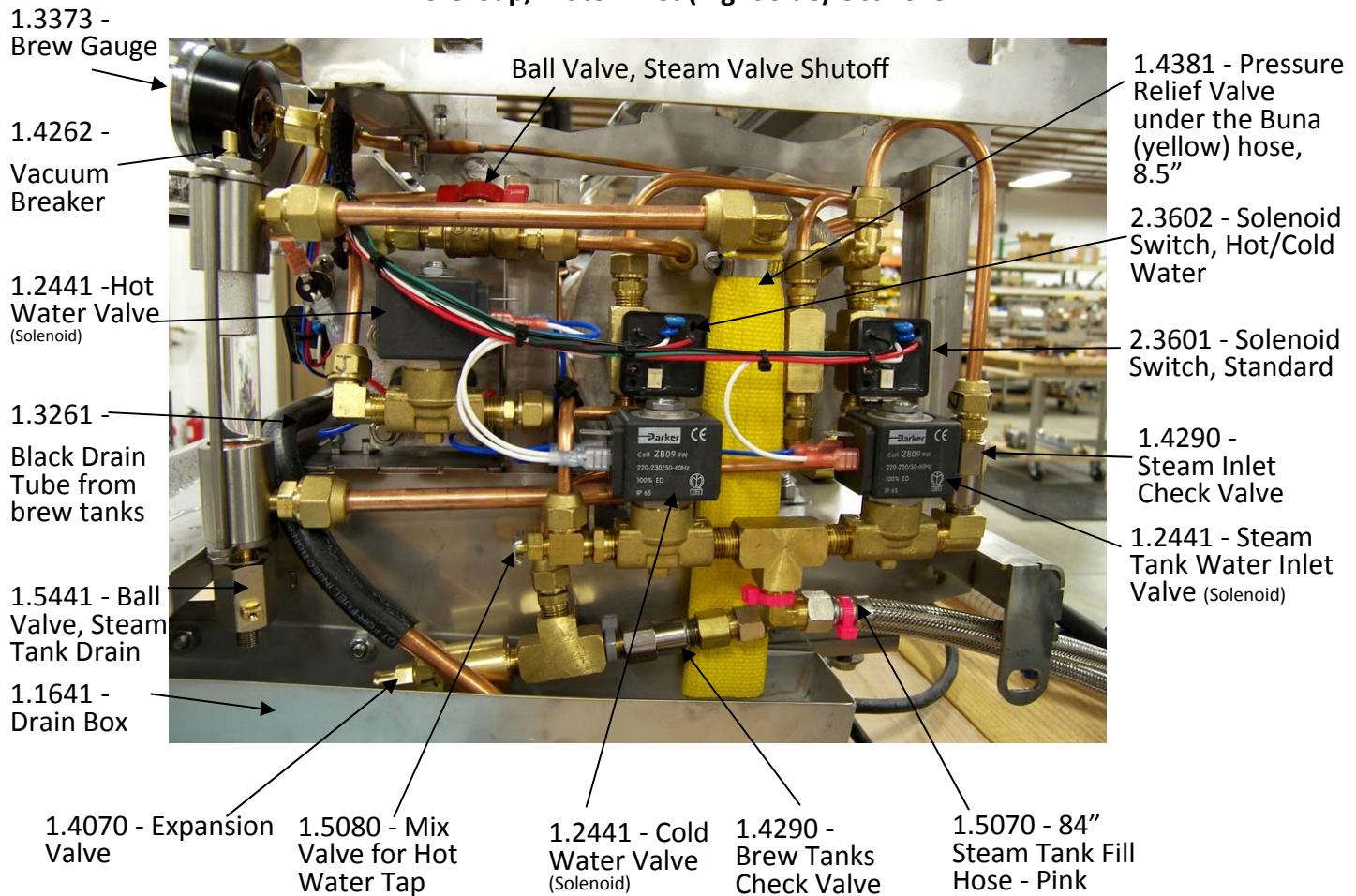
Black Nickel



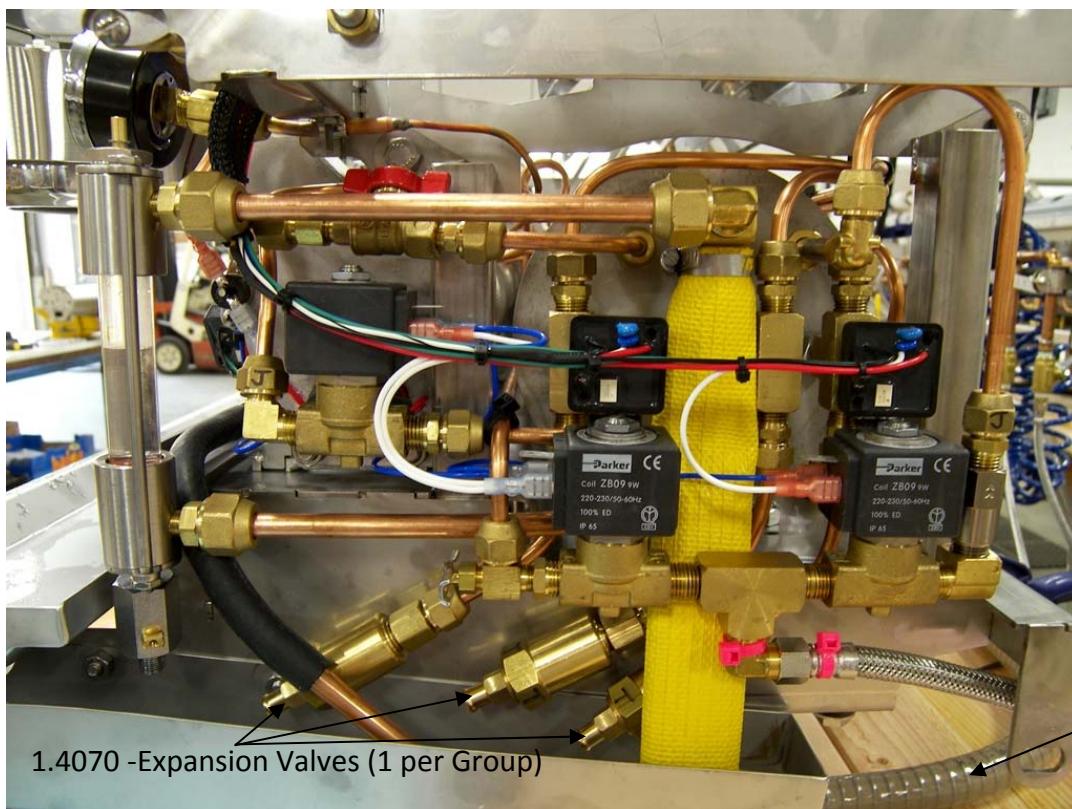
	1.8131	3.8020	3.8015	3.8021	3.8016
Side Panel MVP Series	MVP	MVP	MVP	MVP Hydra	MVP Hydra

Major Components, Water Inlet (Right Side)

MVP 3 Group, Water Inlet (Right Side) Oct 2015

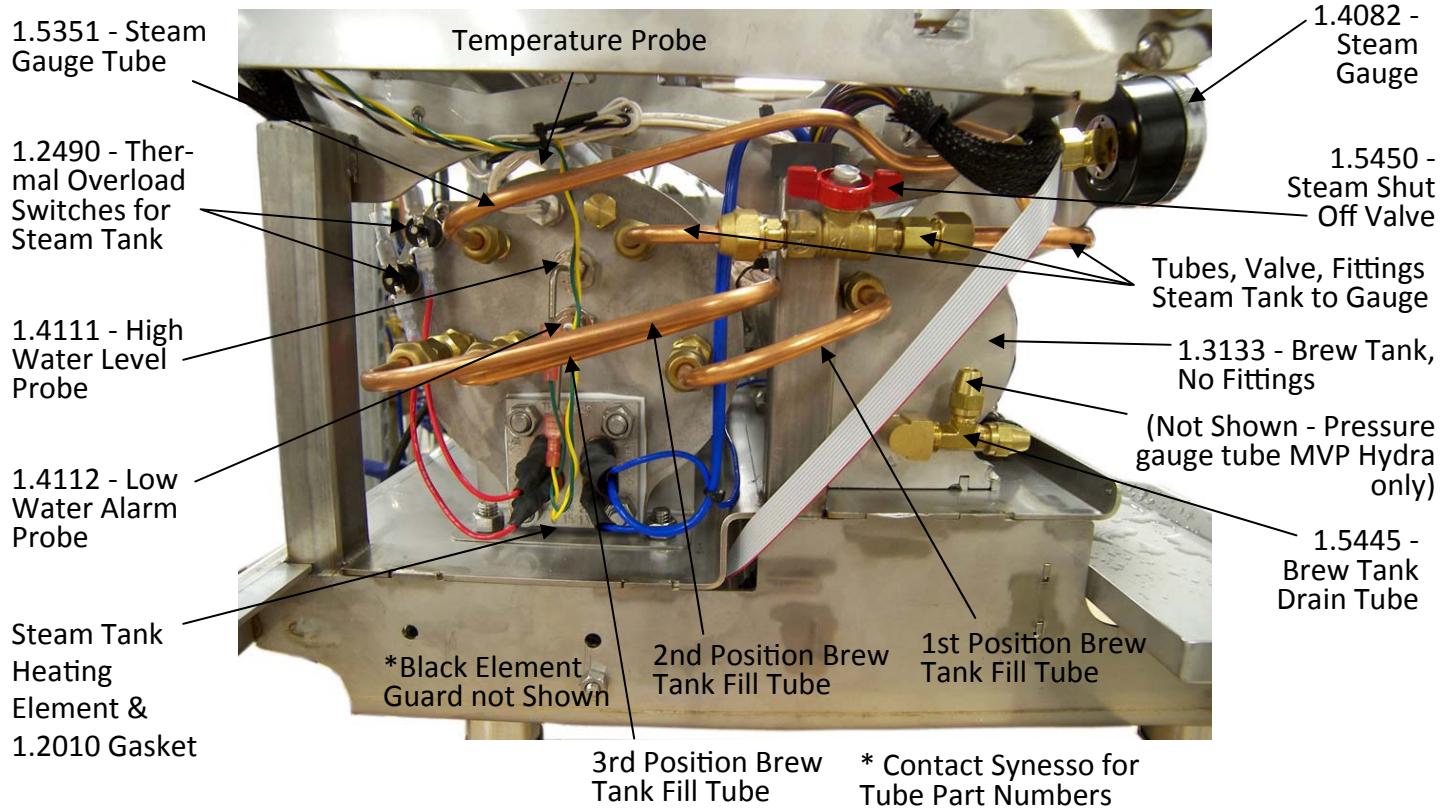


MVP Hydra 3 Group, Water Inlet (Right Side) Oct 2015



Major Components, Water Outlet (Left Side)

MVP or MVP Hydra - Oct 2015



Brew Tank Drain Assemblies



1.5443 - Brew Tank Drain, Single Cap (For Hydra Gauge Tube)



1.5445 - Brew Tank Drain, Dual Cap

MVP Series Wood Packages - Includes Portafilter & Steam Handles + Tamper.

(Group Top Handles are powder coated black until further notice)

	Bubinga	Maple	Black Walnut	Zebra
1 group	# 2.7160_1	# 2.7170_1	# 2.7180_1	# 2.7190_1
2 group	# 2.7160_2	# 2.7170_2	# 2.7180_2	# 2.7190_2
3 group	# 2.7160_3	# 2.7170_3	# 2.7180_3	# 2.7190_3

MVP & MVP Hydra Body Panels and Parts

#8 - refers to a #8 Mirror polish on stainless steel / #4 - refers to a #4 Brushed polish on stainless steel

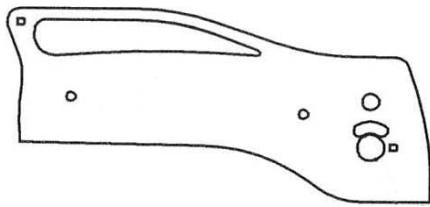
SS - means Stainless Steel / Gp - means Group Top / Ga. - refers to gauge or thickness of panel

Part #	Description
1.1016	Group Top, MVP Hydra, Black Nickel Plated, Handle Not Included (2015)
1.1045	Group Top Housing MVP Series [Skirt], (2015)
1.1046	Group Top Mount Plate, MVP Series, (2015)
1.1135	Group Top Housing, Hall Effect, MVP Series (2015)
1.1140	Group Top Actuator Only, MVP Series (Sell w Bearing 1.3241)(2015)
1.1351	Panel, Upper Back, 1 Group, #8 SS, MVP Series (2015)
1.1352	Panel, Upper Back, 2 Group, #8 SS, MVP Series (2015)
1.1353	Panel, Upper Back, 3 Group, #8 SS, MVP Series (2015)
1.1659	Group Top Handle, Deco, Black, MVP Series (2015)
1.1701_1	Panel, Black Powder Coated, Back Grill, 1 Gp, MVP Series (2015)
1.1702_2	Panel, Black Powder Coated, Back Grill, 2 Gp, MVP Series (2015)
1.1703_3	Panel, Black Powder Coated, Back Grill, 3 Gp, MVP Series (2015)
1.1711	Panel, Back, Lower, #8 SS, 1 Group, MVP Series (2015)
1.1712	Panel, Back, Lower, #8 SS, 2 Group, MVP Series (2015)
1.1713	Panel, Back, Lower, #8 SS, 3 Group, MVP Series (2015)
1.1721	Panel, Back, Inner, #8 SS, 1 Group, MVP Series (2015)
1.1722	Panel, Back, Inner, #4 SS, 2 Group, MVP Series (2015)
1.1723	Panel, Back, Inner, #4 SS, 3 Group, MVP Series (2015)
1.1732	Panel, Back, Synesso Logo, #8 SS, 2 Group, MVP Series (2015)
1.1733	Panel, Back, Synesso Logo, #8 SS, 3 Group, MVP Series (2015)
1.1782	Synesso "S" Logo, 4" Diameter, Cast & Polished (2015)
1.1853	Panel, Upper Front, 1 Gp, Timer Control, Mirror Polish, Stainless Steel, (2015)
1.1866	Panel, Upper Front, 2 Gp, Timer Control, Mirror Polish, Stainless Steel, (2015)
1.1867	Panel, Upper Front, Hydra 2 Gp, Timer Control, Mirror Polish, Stainless Steel, (2015)
1.1906	Panel, Upper Front, 3 Gp, Timer Control, Mirror Polish, Stainless Steel, (2015)
1.1907	Panel, Upper Front, Hydra 3 Gp, Timer Control, Mirror Polish, Stainless Steel, (2015)
1.1941	Side Panel, MVP Top Inner Bearing Plate, LH, 12 Ga. #4 (2015)
1.1942	Side Panel, MVP Top Inner Bearing Plate, RH, 12 Ga. #4 (2015)
1.1943	Side Panel, MVP Outer Trim, LH, 12 Ga. #8 (2015)
1.1944	Side Panel, MVP Outer Trim, RH, 12 Ga. #8 (2015)
1.1945	Side Panel, MVP Series, Lower LH, 12 Ga. #4 (2015)
1.1946	Side Panel, MVP Series, Lower RH, 12 Ga. #4 (2015)
1.1951	Side Panel, MVP Hydra, Top Outer, LH, 14 Ga. #8 (2015)
1.1952	Side Panel, MVP Hydra, Top Outer, RH, 14 Ga. #8 (2015)
1.1995	Leveling Adjustable Leg Base, 1 3/4" Diameter, MVP Series (2015)
1.1996	Leg, Adjustable 4", NSF compliant, MVP Series, (2015)
1.2190	Snubber Only, *Order 4.2780 Snubber Assembly with Terminals (2015)

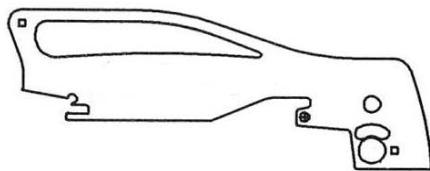
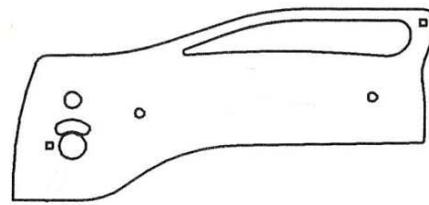
MVP & MVP Hydra Body Panels and Parts

1.2485	Spacer for Paddle Shifter, Brass, MVP Series(2015)
1.2534	Overlay for Display Controller, 6 Key Membrane Switch, (2015)
1.7075	MVP Series Log Book (2015) - See Page 48
1.7235	Safari Rack, Cup Rail Tube, 3 Group, MVP (2015)
1.7236	Safari Rack, Cup Rail, Black Nickel Plated, 3 Gp, MVP Hydra, (2015)
1.7245	Safari Rack, Cup Rail, Tube 2 Gp, MVP (2015)
1.7246	Safari Rack, Cup Rail, Black Nickel Plated, 2 Gp, MVP Hydra, (2015)
1.7256	Safari Rack, Cup Rail, Black Nickel Plated, 1 Gp, MVP Hydra, (2015)
1.7579_1	Trim, 3 Sided Base, 1 Gp, Stainless Steel, #8 Finish (2015)
1.7579_2	Trim, 3 Sided Base, 2 Gp, Stainless Steel, #8 Finish (2015)
1.7579_3	Trim, 3 Sided Base, 3 Gp, Stainless Steel, #8 Finish (2015)
1.7877	Line Pressure Boost w/ Pressure Regulator, MVP (2015)
1.7878	Line Pressure Boost w/ Pressure Regulator, MVP Hydra (2015)
1.8131	Bolt, MVP Series, Side Panel, 3/4" Hex Head Cap, Polished (2015)
2.1141	Panel, Top Inner Side, Black Nickel Plated Bearing Plate, MVP Hydra, LH (2015)
2.1142	Panel, Top Inner Side, Black Nickel Plated Bearing Plate, MVP Hydra, RH (2015)
2.1143	Panel, Side, Black Nickel Plated Trim Plate, MVP Hydra, LH (2015)
2.1144	Panel, Outer Trim Side, Black Nickel Plated Trim Plate, MVP Hydra, RH (2015)
2.1157	Panel, Upper Inner Side, Black Nickel Plated Trim Plate, MVP Hydra, RH, 1 Gp (2015)
2.1158	Panel, Outer Trim Side, Black Nickel Plated Trim Plate, MVP Hydra, 1 Gp, LH (2015)
2.3022	Keypad / Button Pad Assembly, Includes Adapter & Jumper (2015)
2.3054	Flowmeter Assembly, Sabre and MVP, 4 Magnet, (Sept 2015)
2.3055	Flowmeter Assembly, MVP Hydra , 4 Magnet (2015)
2.3057	Flowmeter 4 Magnet - POST Serial #307152754 & all MVP models (No Fittings) (2015)
2.3523	Shot Timer Control Board with Electronics (2015)
2.3524	Hall Effect Board, MVP Series (2015)
2.3527	Stainless Steel Retainer for Timer Control (2015)
2.3529	Digital Shot Timer & Control w/ Housing, MVP Series (2015) *[Sell 2.3529 with 1.6160 Black Mask Installed for Cyncra 2016]
2.3709	Bumpers for Display Box, Black, Urethane (2015)
2.3720	Handheld Display/Controller (Board Only 2015)
2.3729	Display Board, Housing, Overly & Cable (2015) - Complete Replacement Part
2.3801	Main Electronics Board, Programmed for MVP Series, No Wires (2015) *[Sell 2.3800 for Gen 2 & Cyncra 2016 Software Board]
3.8015	Bolt, Side Panel, Polished Stainless, MVP (2015)
3.8016	Bolt, Side Panel, Black Nickel, MVP Hydra (2015)
3.8020	Bolt, Group Top, Polished Stainless, MVP (2015)
3.8021	Bolt, Group Top , Black Nickel, MVP Hydra (2015)

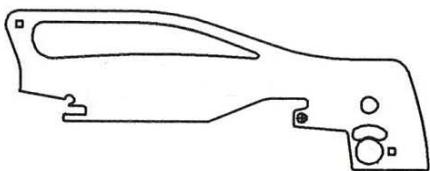
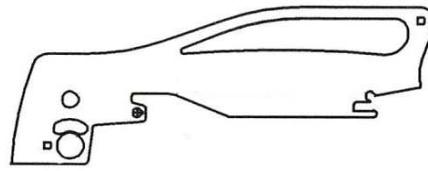
Body - Side Panels, MVP & MVP HYDRA



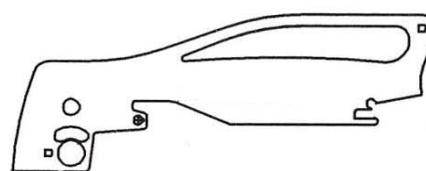
MVP Hydra
Top Outer Panel
#8 Mirror Finish
Left Side - 1.1951
Right Side - 1.1952



MVP Hydra
Inner Bearing Plate
Black Nickel Finish
Left Side - 2.1141
Right Side - 2.1142



MVP
Inner Bearing Plate
#4 Brushed Stainless
Left Side - 1.1941
Right Side - 1.1942



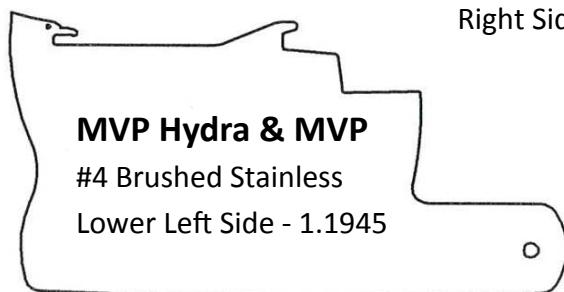
MVP Hydra
Outer Trim Plate
Black Nickel Finish
Left Side - 2.1143
Right Side - 2.1144



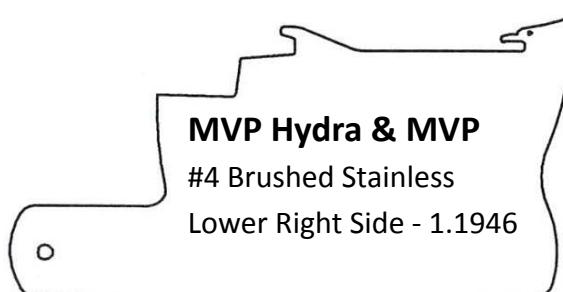
MVP
Outer Trim Plate
#8 Mirror Finish
Left Side - 1.1943
Right Side - 1.1944



MVP Hydra →
Outer Trim Plate - 1 Gp
Black Nickel Finish
Right Side - 2.1158



MVP Hydra & MVP
#4 Brushed Stainless
Lower Left Side - 1.1945



MVP Hydra & MVP
#4 Brushed Stainless
Lower Right Side - 1.1946

Body - MVP Series

MVP

Inner Bearing Plate

#4 Brushed Stainless

Right Side - 1.1942

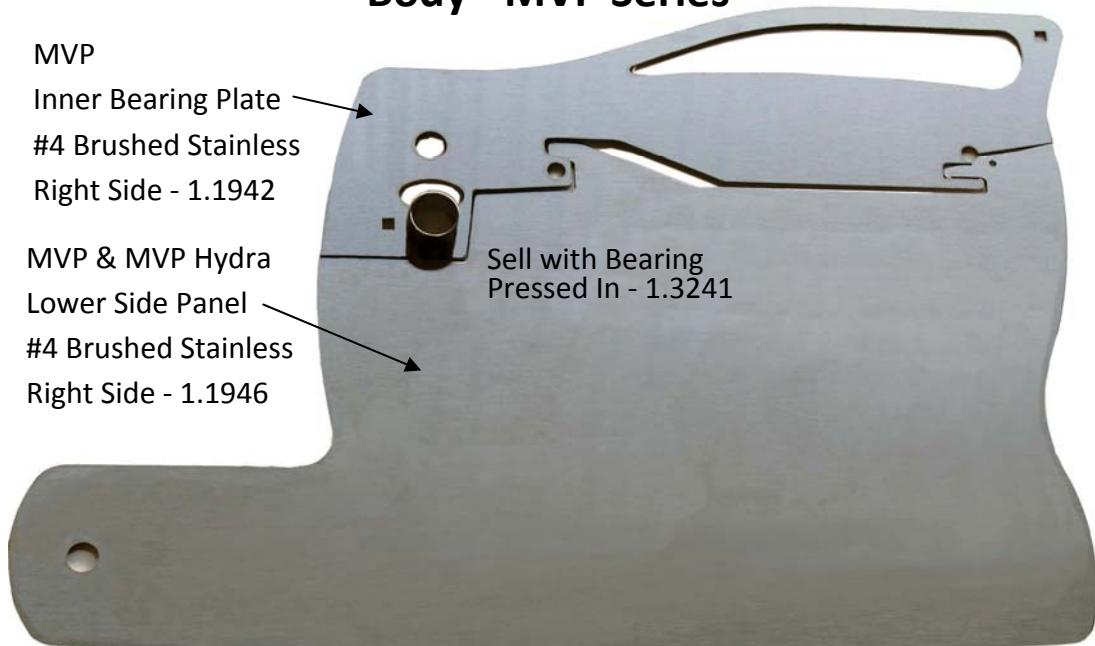
MVP & MVP Hydra

Lower Side Panel

#4 Brushed Stainless

Right Side - 1.1946

Sell with Bearing
Pressed In - 1.3241



Upper Top 2 Panels for MVP, Right Side

1.1942 - Inner Bearing Plate, #4 Brushed Stainless

1.1944 - Trim Plate, MVP, #8 Polished Stainless

1.1954 - Inner bearing Plate, Resides behind 1.1952

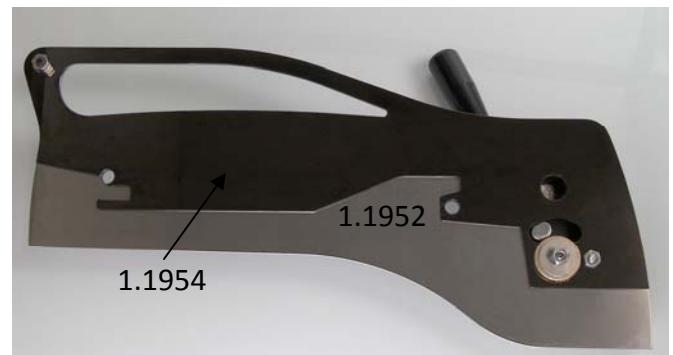
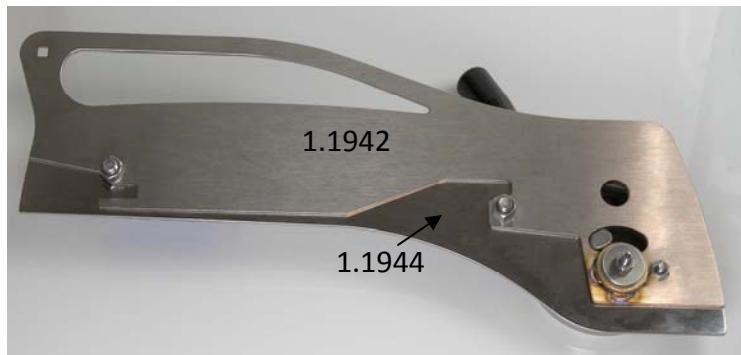


Upper Top 3 Panels for MVP Hydra, Right Side

1.1952 - Top Outer Plate, #8 Polished Stainless

1.1954 - Inner Bearing Plate, Black Nickel Plated

1.1956 - Trim Plate, MVP Hydra, Black Nickel



Flowmeter Configurations for MVP and MVP Hydra

MVP & MVP Hydra use a 4 Magnet Flowmeter

2.3057 -
Flowmeter
4 Magnet



NOT Interchangeable w Gen 2 Sabre and Hybrid

2.3057

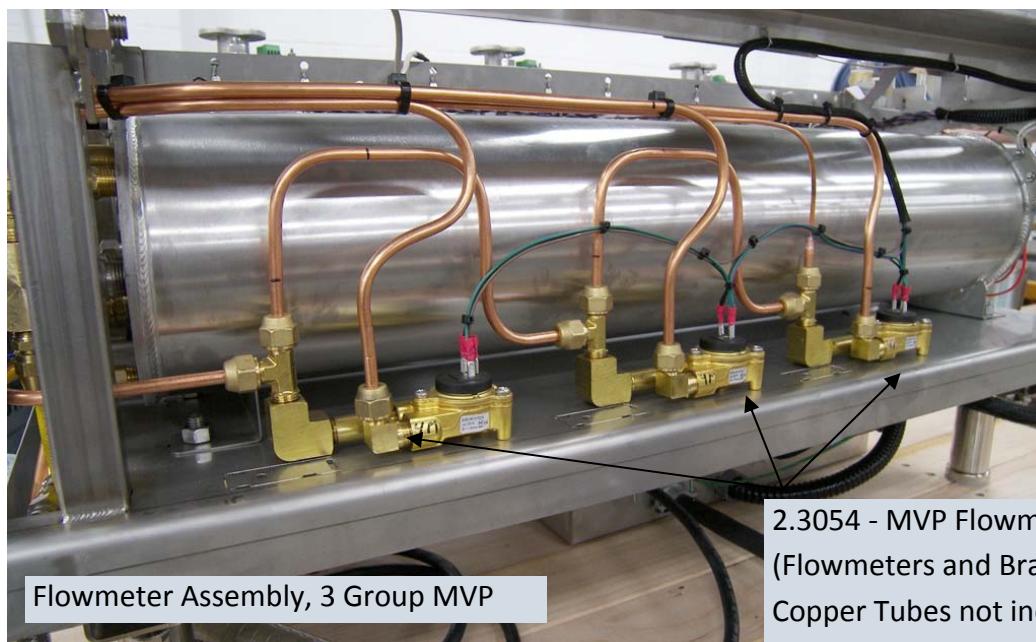


2.3052

4 Magnet Turbine

2 Magnet Turbine

2 Magnet Flowmeters
are used on Gen 2 Sabre
and on the Volumetric
Groups on Gen 2 Hybrid.

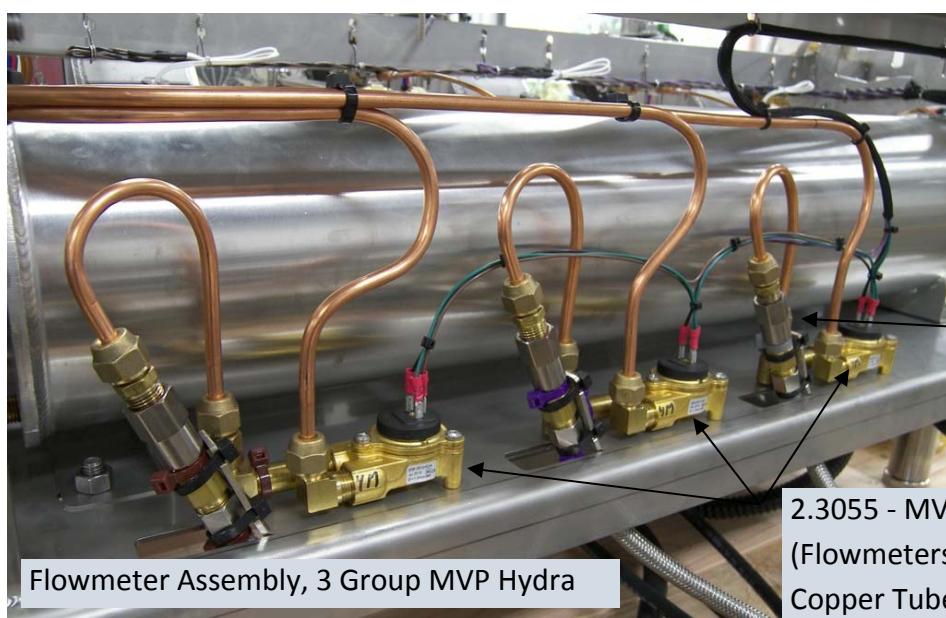


Flowmeter Assembly, 3 Group MVP

2.3054 - MVP Flowmeter Assembly

(Flowmeters and Brass Fittings)

Copper Tubes not included in the assembly.



Flowmeter Assembly, 3 Group MVP Hydra

1.4290 - Check Valve,
1/4", 1 Per Group

2.3055 - MVP Hydra Flowmeter Assembly

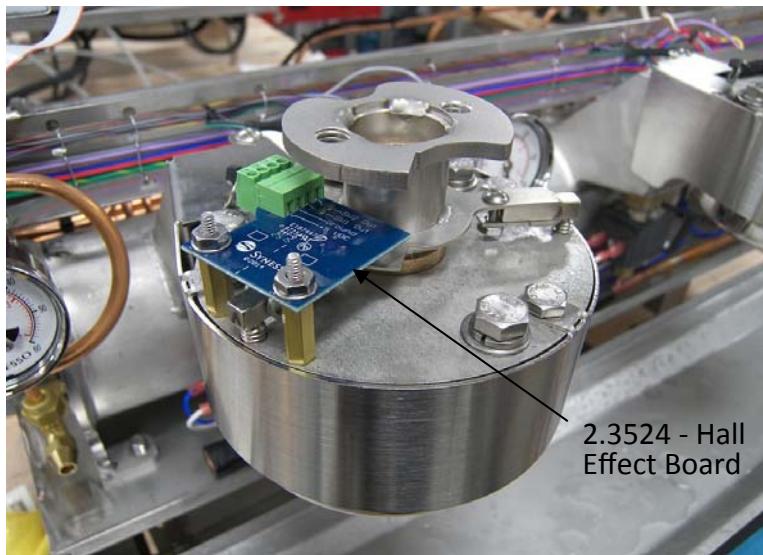
(Flowmeters and Brass Fittings)

Copper Tubes not included in the assembly.

1.1014 - Group Top for All Manual Machines
EXCEPT - MVP Hydra



1.1016 - Group Top, MVP Hydra, Black Nickel Plating

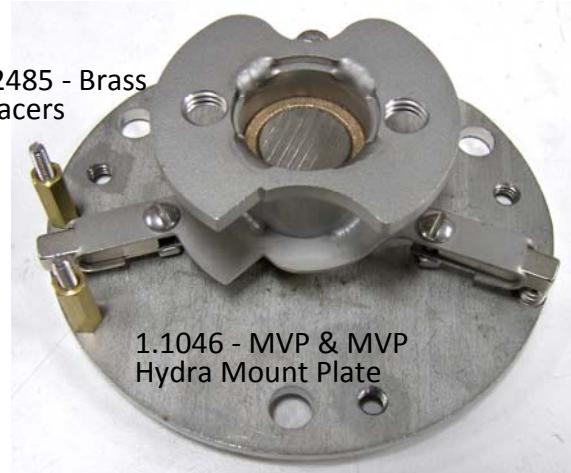


1.1135 - MVP & MVP Hydra Group Top Assembly
with Hall Effect Board, Mount Plate, Skirt, Magnets &



1.1140 - MVP & MVP Hydra Actuator, shown

1.2485 - Brass
Spacers



1.1046 - MVP & MVP
Hydra Mount Plate



2.3529 - Board, Housing, Springs & Acrylic Cover

2.3523 - Replacement Display Board ONLY.



1.1782 - Synesso Logo, 4" Diameter, Cast & Polished. Comes on the back panel of 1 Gp MVP Hydra and the 2016 Cyncra

MVP & MVP Hydra Legs - 1.1996

Per our sanitation regulations, machines will be shipped with the leg in a 4" Configuration

A shorter leg can be configured by removing 1 of the aluminum round bar posts.



1.1996 - Leg, 4" Assembly



1.1932 - Rubber Pad, 40 mm Diameter



2.3729 - Complete Display Controller with Cable, 2015

1.2534 - Overlay with flexible printed circuit (Key membrane)
*See Tech Bulletin on next page.



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TECHNICAL BULLETIN



BULLETIN NUMBER	DATE OF BULLETIN	DATE OF IMPLEMENTATION	SERIAL #
T001.15	September 2015	For Parts: September 2015 For Machines: <ul style="list-style-type: none">• Cyncra 2016 in Sept 2015• MVP & MVP Hydra in November 2015	

REASON FOR CHANGE	RETROFIT STATUS		PRIORITY OF UPDATE
RELIABILITY	X	NON-RETROFITTABLE	HIGH
SERVICEABILITY	X	GEN 1 ONLY	MEDIUM
AESTHETICS/INTERFACE	X	GEN 2 ONLY	X LOW
MANUFACTURING	X	UNIVERSAL	OPTIONAL X

SUMMARY OF CHANGES:

- A flexible printed circuit is now incorporated into the display label
- Improved tactile feedback and response
- More ergonomic design
- Position of buttons on overlay is a more intuitive layout
- Increased resistance to water
- Overall improved look, function and feel
- Retrofittable to all existing handheld display controllers



Discontinued Part # 2.3701
Complete Display Controller Assembly with Round Cable



New Part # 2.3729
Complete Display Controller Assembly with Round Cable

Body - Gen 2

1.4160 - Steam Wand

Upper Front Panels
(Remove White Film)

1.18XX— Descriptions
on Page 6

Side Panels

1.1973—Left Hand

1.1963—Right Hand

1.1983—1 Group Right



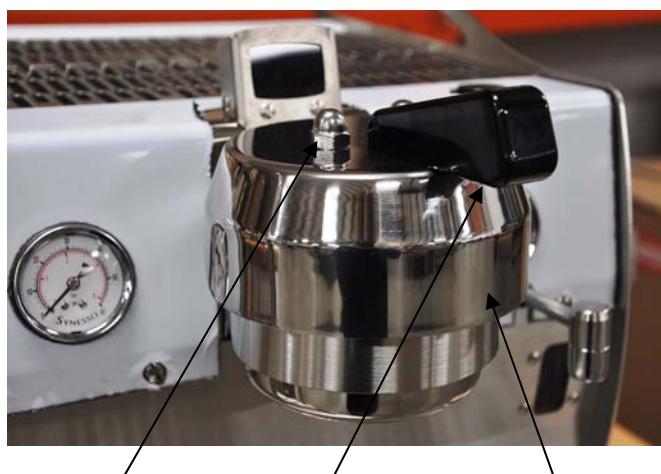
Lower Front Panel

1.1560 (3 Gp)

1.1570 (2 Gp)

1.1580 (1 Gp)

O-Ring 1.6010, Washer 1.8440, Nut 1.8300



Cap Nut 1.8300

Manual Gp Top 1.1014

Black Group Top Handle 1.1656



Steam Actuators: Left 2.4245 / Right 2.4235

Steam Actuator Handle 1.4253 (w/ Set Screw)

Drip Tray (Grate)

1.1524 (3 grp)

1.1534 (2 grp)

1.1544 (1 grp)

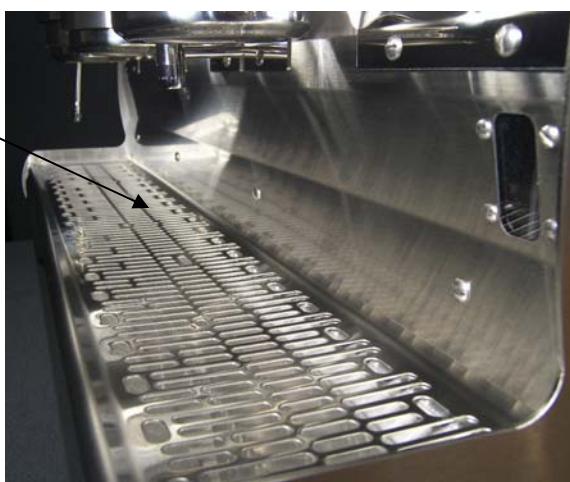
Drip Pan

(Not Shown,
Below Tray)

1.1523 (3 Gp)

1.1533 (2 Gp)

1.1543 (1 Gp)



2.3022 - Keypad



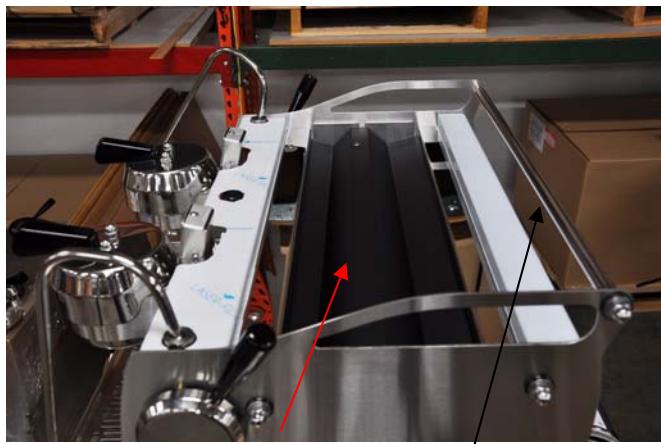
2.1021 - Volumetric Group
Top Housing, Stainless Steel

Body - Gen 2



Lower Back Panel
1.1680 (3 Gp)
1.1690 (2 Gp)
1.7000 (1 Gp)

Upper Back Panel (Remove White Film)
1.1320 (3 Gp)
1.1330 (2 Gp)
1.1340 (1 Gp)



Cup Drip Pan (Black)
1.1481 (3 Gp)
1.1491 (2 Gp)
1.1501 1 Gp)

Safari Rack Tube (Rail)
1.7231 (3 Gp)
1.7241 (2 Gp)
1.7251 91 Gp)

Cup Drip Grates (per piece)

1.1441 (3 Gp)

1.1451 (2 Gp)

1.1461 (1 GP)



1.2316 - Piezo Hot Water Switch , as of June 18, 2015. Replaces 1.2314



Steam Actuator Handle
1.4253 (w/ Set Screw)

**Stainless Steel Actuators
Replaces Black Cast Handles**

Stainless Steel Steam Actuator w Bearing, Nut, Washer and O-Ring Assembly

2.4245—Left Hand / 2.4235—Right Hand



**Black Cast Handles are Discontinued,
Replace with Stainless Steel.**

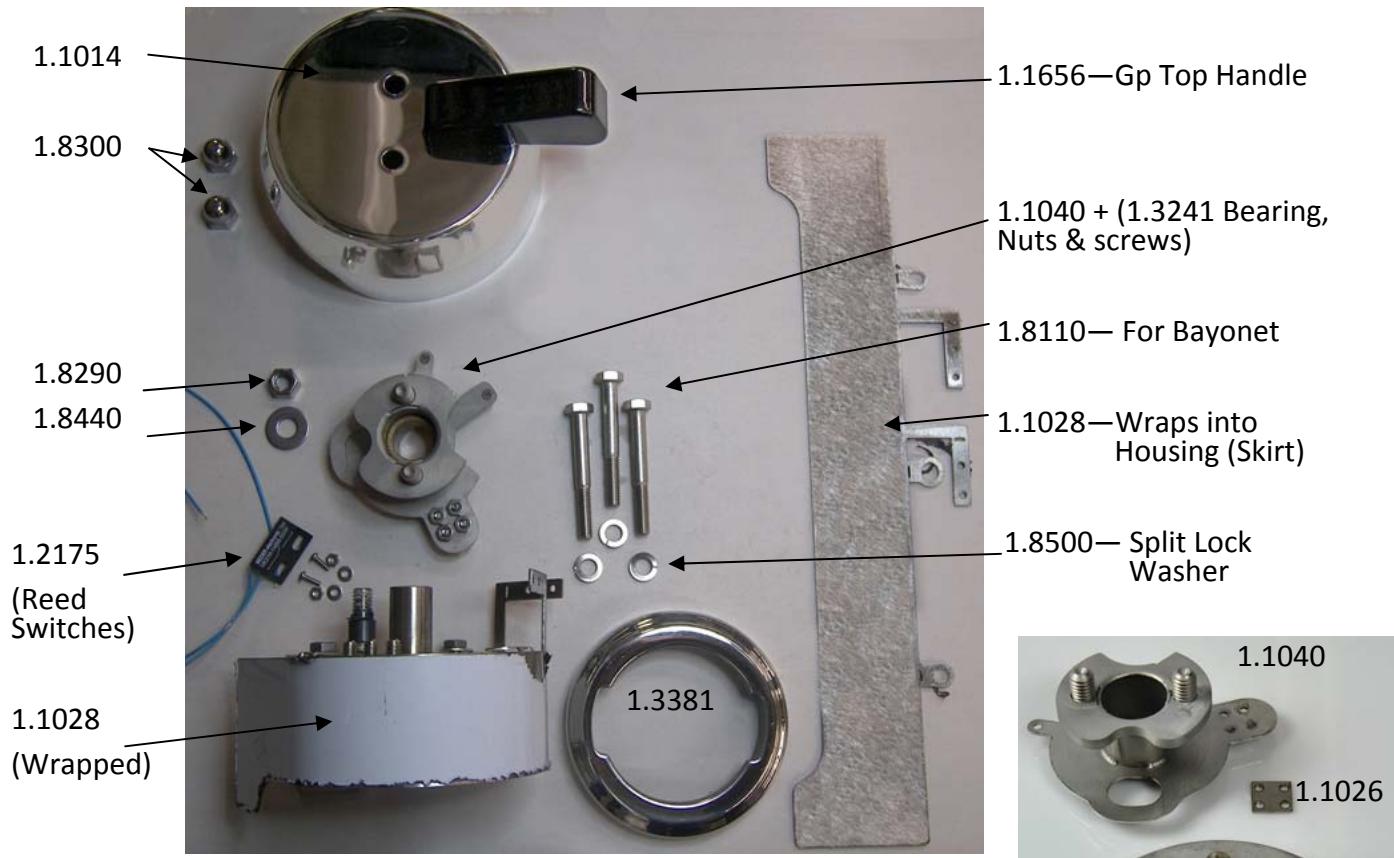
Part #	Description
1.1014	Group Top, Manual (Handle Not Included)
1.1320	Upper Back Panel, 3 Group, Mirror Finish
1.1330	Upper Back Panel, 2 Group, Mirror Finish
1.1340	Upper Back Panel, 1 Group, Mirror Finish
1.1441	Cup Grate, 3 Group, 2010
1.1451	Cup Grate, 2 Group, 2010
1.1461	Cup Grate, 1 Group, 2010
1.1481	Cup Drip Pan, 3 Gp, Black
1.1491	Cup Drip Pan, 2 Gp, Black

Body - Gen 2

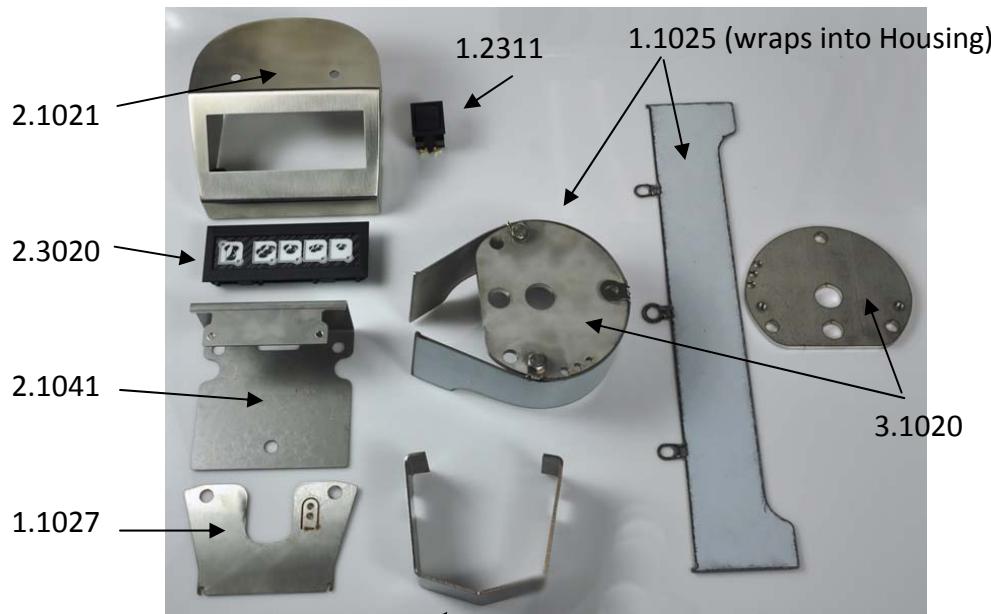
Part #	Description
1.1501	Cup Drip Pan, 1 Gp, Black
1.1523	Drip Pan 3 Gp
1.1524	Drip Tray (Grate) 3 Gp
1.1533	Drip Pan 2 Gp
1.1534	Drip Tray (Grate) 2 Gp
1.1543	Drip Pan 1 Gp
1.1544	Drip Tray (Grate) 1 Gp
1.1560	Lower Front Panel, 3 Gp
1.1570	Lower Front Panel, 2 Gp
1.1580	Lower Front Panel, 1 Gp
1.1656	Group Top Handle, High Gloss Black
1.1680	Lower Back Panel, 3 Gp, with Synesso Logo
1.1690	Lower Back Panel, 2 Gp, with Synesso Logo
1.1700	Lower Back Panel, 1 Gp, with Synesso Logo
1.1852	Upper Front Panel for Shot Timers, 1 Gp, Mirror Polish
1.1864	Upper Front Panel for Shot Timers, 2 Gp, Mirror Polish
1.1865	Upper Front Panel, Hydra/Hybrid, for Shot Timers, 2 Gp, Mirror Polish
1.1874	Upper Front Panel for Shot Timers, 3 Gp, Mirror Polish
1.1875	Upper Front Panel, Hydra/Hybrid, for Shot Timers, 3 Gp, Mirror Polish
1.1963	Side Panel, Right Hand w/ Safari Rack Integrated, 2010 (Sell w/ Bearing 1.3241)
1.1973	Side Panel, Left Hand w/ Safari Rack Integrated, 2010 (Sell w/ Bearing 1.3241)
1.1983	Side Panel, Right Hand w/ Safari Rack Integrated, 2010
1.1990	Machine Legs, 4" High, Price per Leg
1.1930	Silicone Leg Pad, Set of 4 or 1.1931 for Single Pad
1.4161	Steam Wand Assembly, Cool Touch, Includes: Nut, Spool, Gasket, O-Ring (No Tip)
1.6010	Side Trim O-Ring, Black
1.7231	Safari Rack Tube (Rail), 3 Group Machines, 2010 & Newer
1.7241	Safari Rack Tube (Rail), 2 Group Machines, 2010 & Newer
1.7251	Safari Rack Tube (Rail), 1 Group Machines, 2010 & Newer
1.8300	Acorn Cap Nut (Group Top and Side Panels) Stainless Steel
1.8400	Washer for Cap Nut
1.8882	Side Panel Knob (Thumb Screw), Black w/ O-Ring & Threaded Rod
2.4235	Steam Actuator, Right Hand, Stainless Steel, Bearing & Hardware (No Handle)
2.4245	Steam Actuator, Left Hand, Stainless Steel, Bearing & Hardware (No Handle)

Manual Group Top

Group Tops - Gen 2



Volumetric Group Top



Manual Group Top Parts
As of February 2015 -
1.1026, Magnet Plate, is no longer needed.
1.1040 Actuator has been redesigned.



1.1040 - Redesigned Actuator
to Eliminate the Magnet Plate
1.1026. February 2015

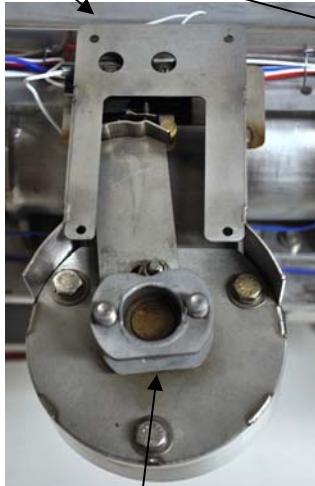
Group Tops - Gen 1 & Gen 2

Manual Group Top Actuator Progression

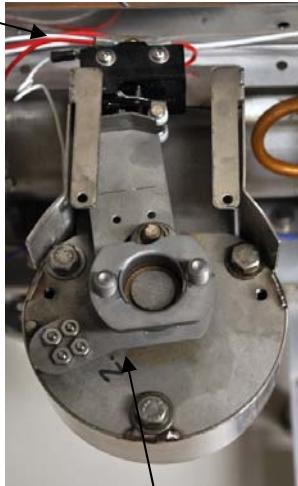
Machines with these style of Group Tops use Gen 1 Electronics



Original Style—No longer available. Replace entire Group Top with 1.1035

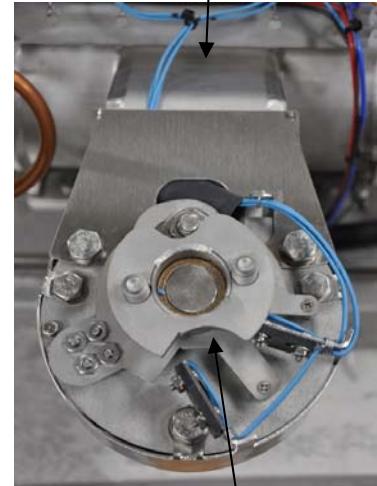


Replace with 1.1029 Actuator Only with Newer Style 1.1029



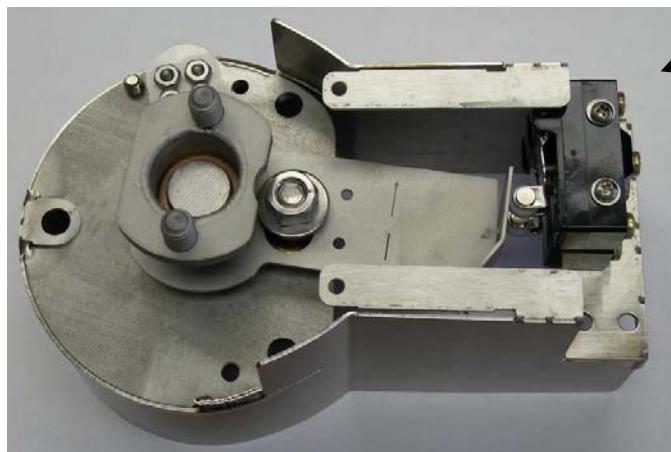
1.1029 - Newer Actuator
Use with Roller Switches, Magnetic Detents

Machines with this style of Group Top use Gen 2 Electronics



1.1040 - Actuator Only
Use with Reed Switches

Manual Group Top Replacement Assemblies



1.1035 - Gen 1 Replacement
Replacement Group Top complete with Roller Switches (1.2170) for machines manufactured between 2004 and 2011 with Gen 1 Electronics



1.3235



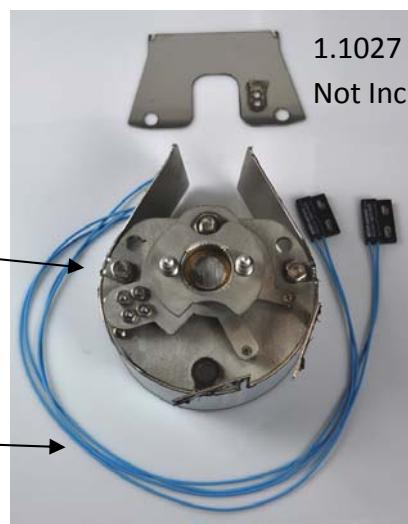
1.3232

1/4" Post, Serial # 0001 to ~0300 (July 2004 to July 2007)
1/2" Post, Serial # ~0300 to Present

1.1031

Replacement Group Top complete with Reed Switches (1.2175) for machines manufactured 2011 moving forward with Gen 2 Electronics

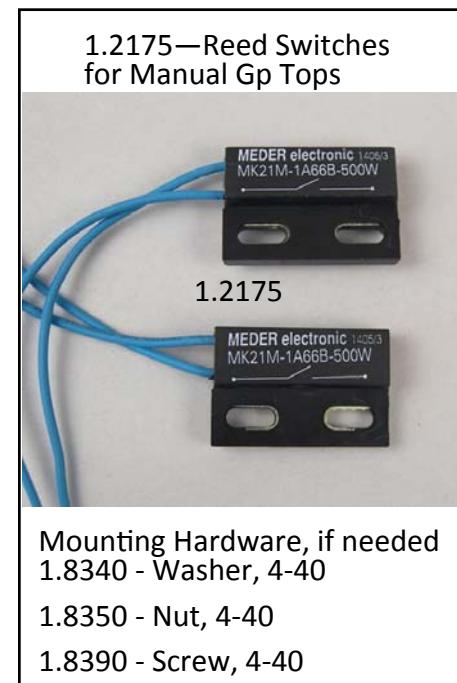
1.2175
Reed Switches



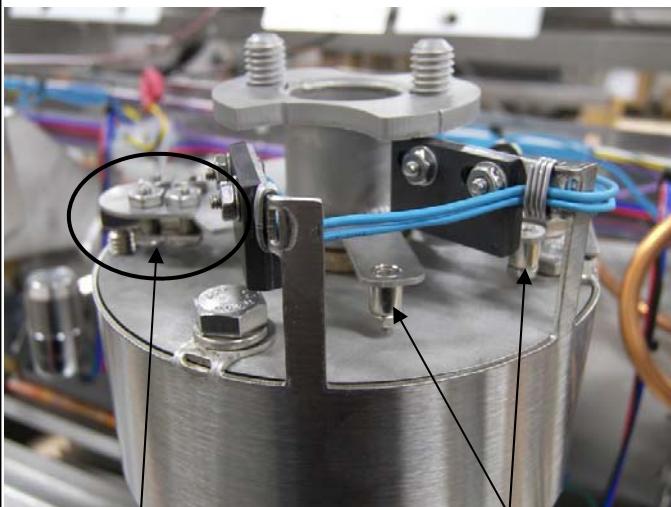
1.1027
Not Included

Group Tops - Gen 1 & Gen 2

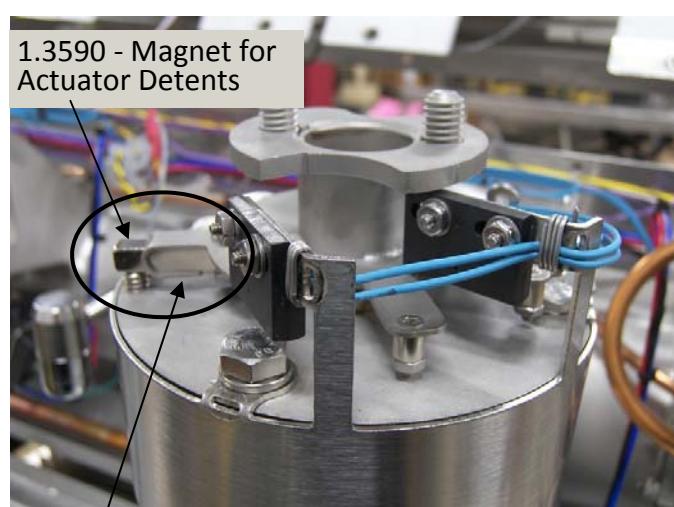
Part #	Description	
1.1014	Group Top, Manual, Polished (Handle not Included)	1.2170 - Cherry Roller Switch for Gen 1 Group Tops.
1.1022	Group Top Housing Support	
1.1024	Group Top Mount Plate, Manual	
1.1025	Group Top Housing (Skirt) Volumetric	
1.1026	Group Top Magnet Clamp Plate, Manual	
1.1027	Group Top Cover Plate	
1.1028	Group Top Housing (Skirt) Manual	
1.1029	Group Top Actuator (Sell with Bearing 1.3241)	
1.1031	Group Top Housing Complete, Reed Switches—Gen 2 Electronics	
1.1035	Group Top Housing Complete, Roller Switches—Gen 1 Electronics	
1.1040	Group Top Actuator (Sell with Bearing 1.3241)	1.2175—Reed Switches for Manual Gp Tops
1.1656	Group Handle, Gloss Black	
1.2170	Roller Switch (Cherry Roller) Group Top, Gen 1 Machines	
1.2175	Reed Switches, Group Top Brew & Pump	
1.2311	Switch, Sealed Hot Water and Volumetric Group Top	
1.3381	Bayonet Ring, Stainless Steel	
1.8110	Screws, Stainless Steel, 2.5" Long	
1.8290	Nuts, Stainless Steel	
1.8300	Acorn Cap Nut (Group Top and Side Panels) Stainless Steel	
1.8440	Flat Washer, Stainless Steel	
1.8500	Split Lock Washer, Stainless Steel	
2.1021	Group Top Housing, Volumetric	
2.1041	Group Top Conversion Bracket, Volumetric	
2.3020	Keypad (Button Pad) Volumetric	



Manual Group Top Actuator: 1.1040 - Evolutionary Change as of February 2015

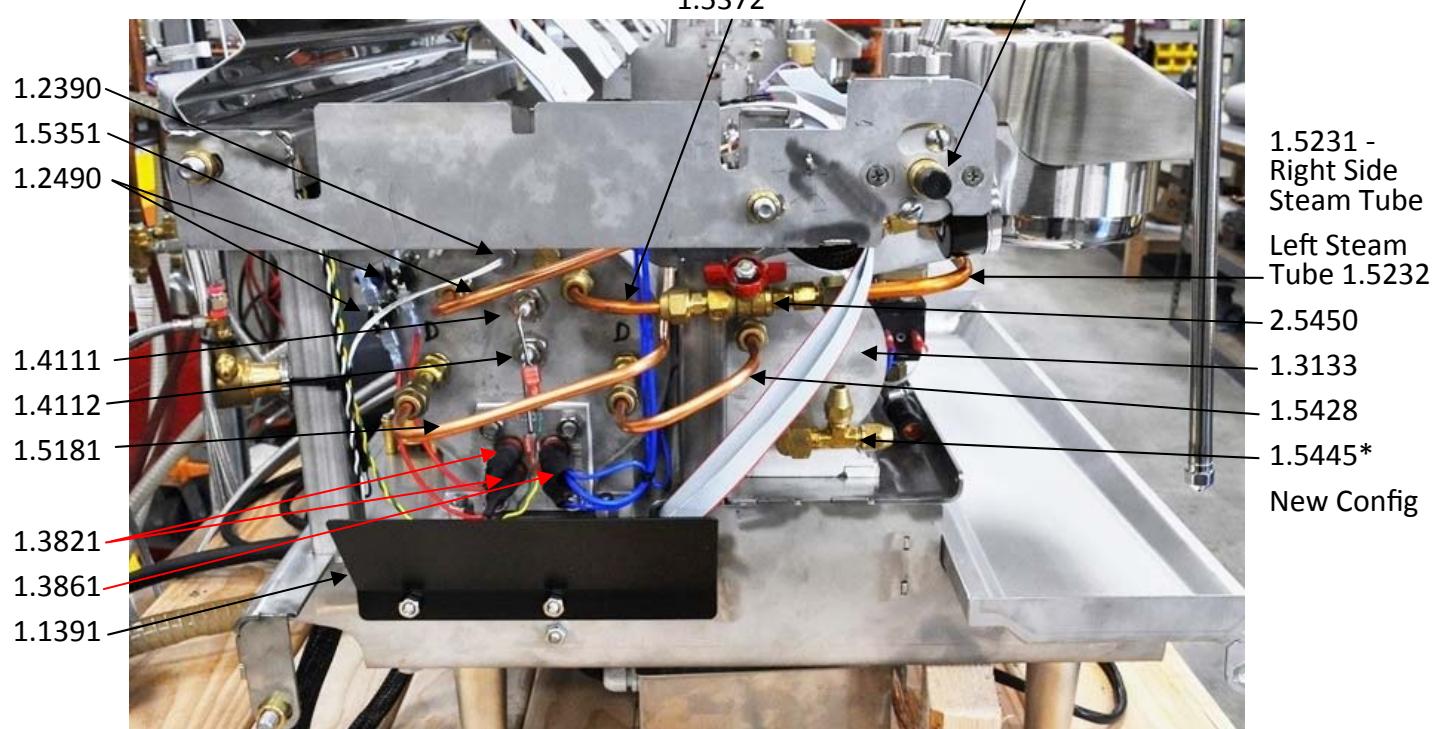


1.3580 - Magnets to Activate Reed Switches



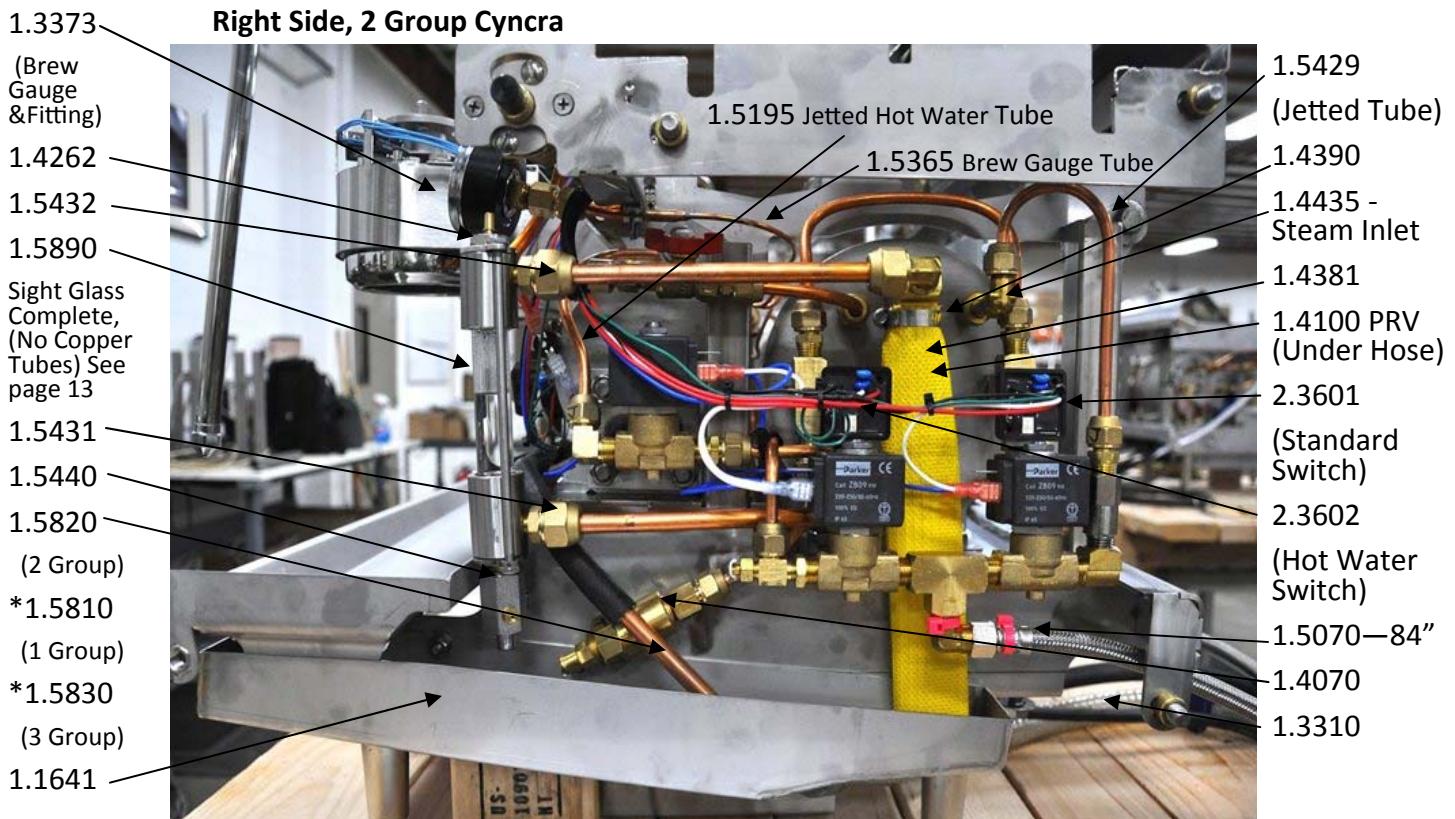
Hydraulic System

Left Side, 2 Group Machine



Part #	Description
1.1391	Heating Element Guard, Black
1.2490	Thermal Overload Switch, Manual Reset
1.3133	Brew Tank, Stainless Steel, Heat Treated, No Fittings
1.3821	Heat Shrink Tube, 1/2", 1.5" Long
1.3861	Heat Shrink Tube, 3/4", Steam Element Lower Right Post, 1.5" Long
1.4111	Level Probe, High Position, Water Level & Auto Fill
1.4112	Level Probe, Low Position, Low Water Alert
1.4192	Gasket, Teflon for Level Probes
1.4611*	Steam Valve Pusher, *1st Generation, Stainless Steel Handles (see page 24)
1.4612	Steam Valve Pusher, Black Cast and Current SS Handles (see page 24)
1.5428	Copper Tube, 1/4", 1st Group, Water Inlet from Steam Tank to Brew Tank (160 mm)
1.5181	Copper Tube, 1/4", 2nd Group, Water Inlet from Steam Tank to Brew Tank (530 mm)
1.5471	Copper Tube, 1/4", 3rd Group, Water Inlet from Steam Tank to Brew Tank (755 mm)
1.5351	Copper Tube, 1/4", Steam Gauge (294 mm)
1.5445*	Drain Valve Fittings Assembly, *Nov 2014—New Configuration

Hydraulic System



2.2430 Water Control Assembly

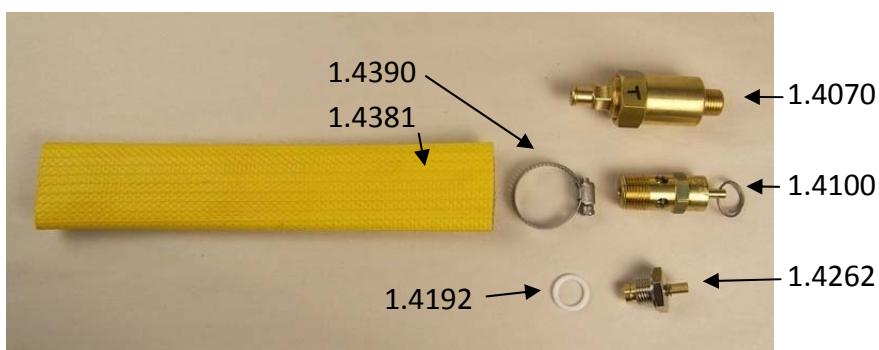


Level Probes

- 1.4110— Straight
- 1.4111— High, Level
- 1.4112— Low, Alarm
- 1.4192—O-Ring



Expansion Valve, Pressure Relief Valve & Vacuum Breaker



Hydraulic System

Part #	Description
1.1641	Drain Box, Stainless Steel & Passivated
1.2441	Water Control Valve, Parker ZB09 220-230 Volts
1.2390	Temperature Probe, 2000 ohm, Brew & Steam Tanks (Not pictured)
1.2591	Temperature Probes, 100 ohm, Original Style Machines (Not pictured)
1.3310	Drain Hose, 3/4" (19.05 mm) OD, Priced by the Foot
1.3373	Brew Gauge (Plain Face) with Fitting 1.5540
1.4070	Expansion Valve with Teflon Reinforcement
1.4100	Pressure Relief Valve, 3/8"
1.4110	Level Probe, Straight, Sell with 1.4192 O-Ring
1.4111	Level Probe, High Position, Water Level & Auto Fill, Sell with 1.4192 O-Ring
1.4112	Level Probe, Low Position, Low Water Level Alarm, Sell with 1.4192 O-Ring
1.4192	Teflon O-Ring (Gasket) for Vacuum Breaker & Level Probes
1.4262	Vacuum Breaker, Stainless Steel
1.4290	Check Valve, 1/4" Inlet
1.4381	Buna Hose for Pressure Relief Valve, 8.5" Long
1.4390	Clamp for Buna Hose 1.4381
1.4435	Steam Tank Inlet Assembly, Stainless Steel Tube & Brass Fittings
1.5060	Hose, Braided Stainless Steel, 48" Long (Not Pictured)
1.5070	Hose, Braided Stainless Steel, 84" Long
1.5080	Fitting, Mix Valve for Tea Tap (Hot Water), 320,
1.5150	Spout for Hot Water Tap, Aerator Not Included (Not Pictured)
1.5195	Copper Tube, 1/4", Jetted, Hot Water to Tap, 358 mm Long
1.5250	Aerator for Hot Water Spout (Not pictured)
1.5340	Fitting, Water Control Valve
1.5365	Copper Tube, Brew Gauge Tube
1.5429	Copper Tube, 1/4", Jetted, Steam Tank Fill, 178 mm Long
1.5431	Copper Tube, 3/8", Lower Sight Glass
1.5432	Copper Tube, 3/8" Upper Sight Glass
1.5440	Ball Valve, Sight Glass Tube
1.5570	Fitting, Brass Pipe Tee, 3700x4, 1/4" NPT Female
1.5620	Fitting, Braided Hose Elbow Adapter, 69x6, 3/8" Compression x 1/4" Male Pipe Tapered
1.5700	Fitting, Steam Tank Tube Fitting, 48x4x4, 1/4" NPT Male x 1/4" Male Flare
1.5810	Copper Drain Manifold, 1 Group Machines
1.5820	Copper Drain Manifold, 2 Group Machines
1.5830	Copper Drain Manifold, 3 Group Machines
1.5890	Sight Glass Complete (Not Copper Tubes 1.5431 & 1.5432) (see page 25)
2.3601	Solenoid Switch, Standard, Wires and Mounting Plate
2.3602	Solenoid Switch, Hot Water, Wires and Mounting Plate
2.5100	Fitting, Reducing Bushing, 3220x4x2, 1/8" to 1/4"

Hydraulic System

Plain Face Gauges, Sold with Fitting Attached
Current Style as of 2011

1.4083—Steam 0-60

1.3373—Brew 0-300



SS Face Gauges, Discontinued. Use Plain Face



Ball Valves



1.5450— Steam Valve Shut Off



1.5440—Sight Glass Drain

Temperature Probe, Brew & Steam Tanks

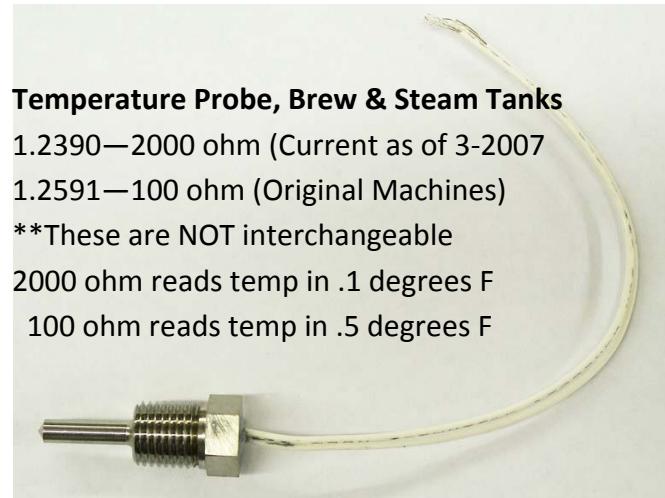
1.2390—2000 ohm (Current as of 3-2007)

1.2591—100 ohm (Original Machines)

**These are NOT interchangeable

2000 ohm reads temp in .1 degrees F

100 ohm reads temp in .5 degrees F



2.3052—Flowmeter 2 Magnet, Green Brass, Volumetric Models Only



1.3191—Ruby Jet Kit for Brew Valve
1 of 1.3192 Synthetic Ruby Jet, .6 mm
2 of 1.7400 O-Rings for Brew Valve



1.2460—Brew Valve, 220V, Rubi Seat, F Class

Hydraulic System



Pressure Regulator, 1 Per Machine, Fittings will vary slightly depending upon machine

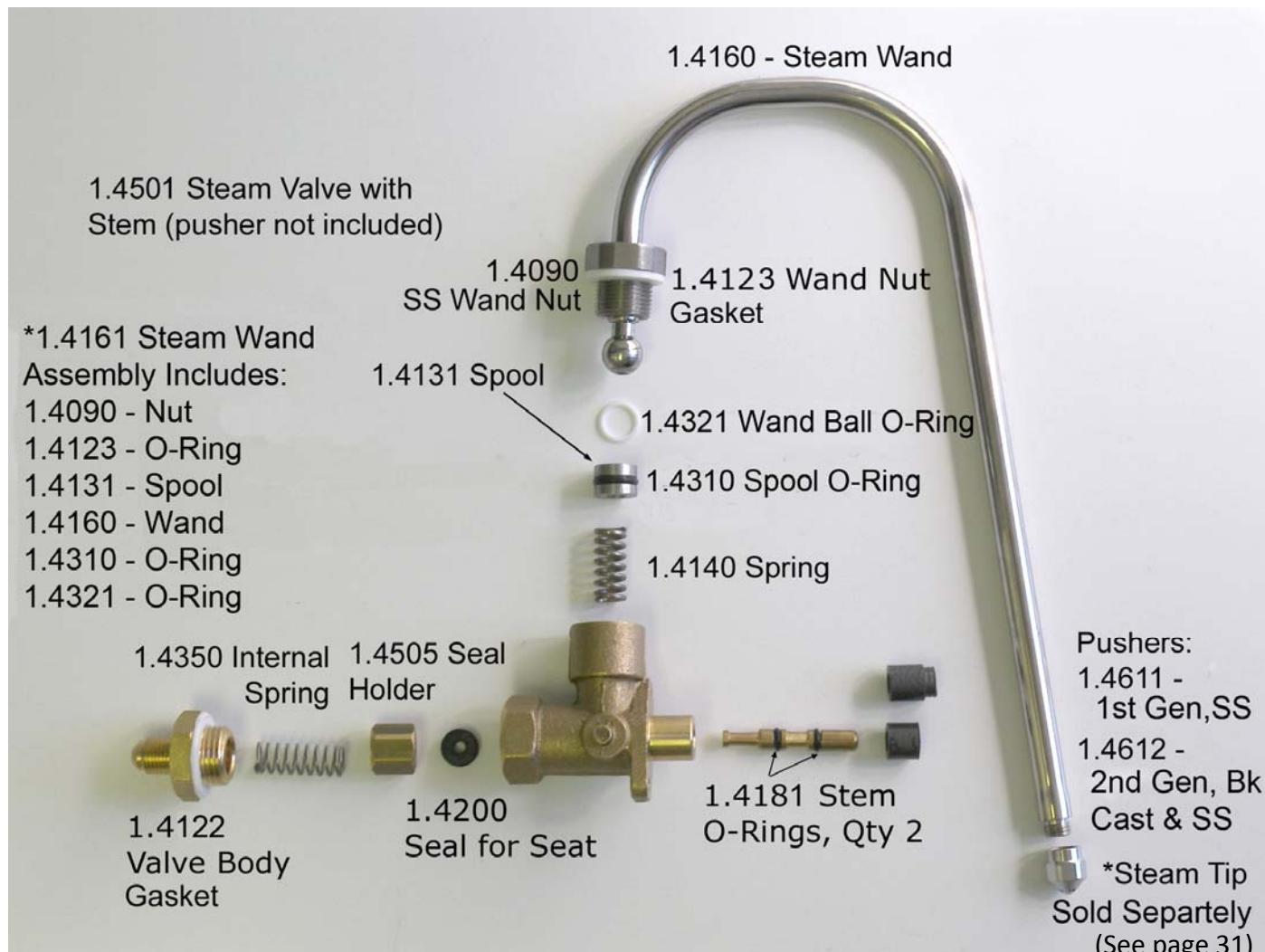
1.7635 —Single Pump Machine w/ 48" Hose

1.7636— 2 Group Hydra / Hybrid

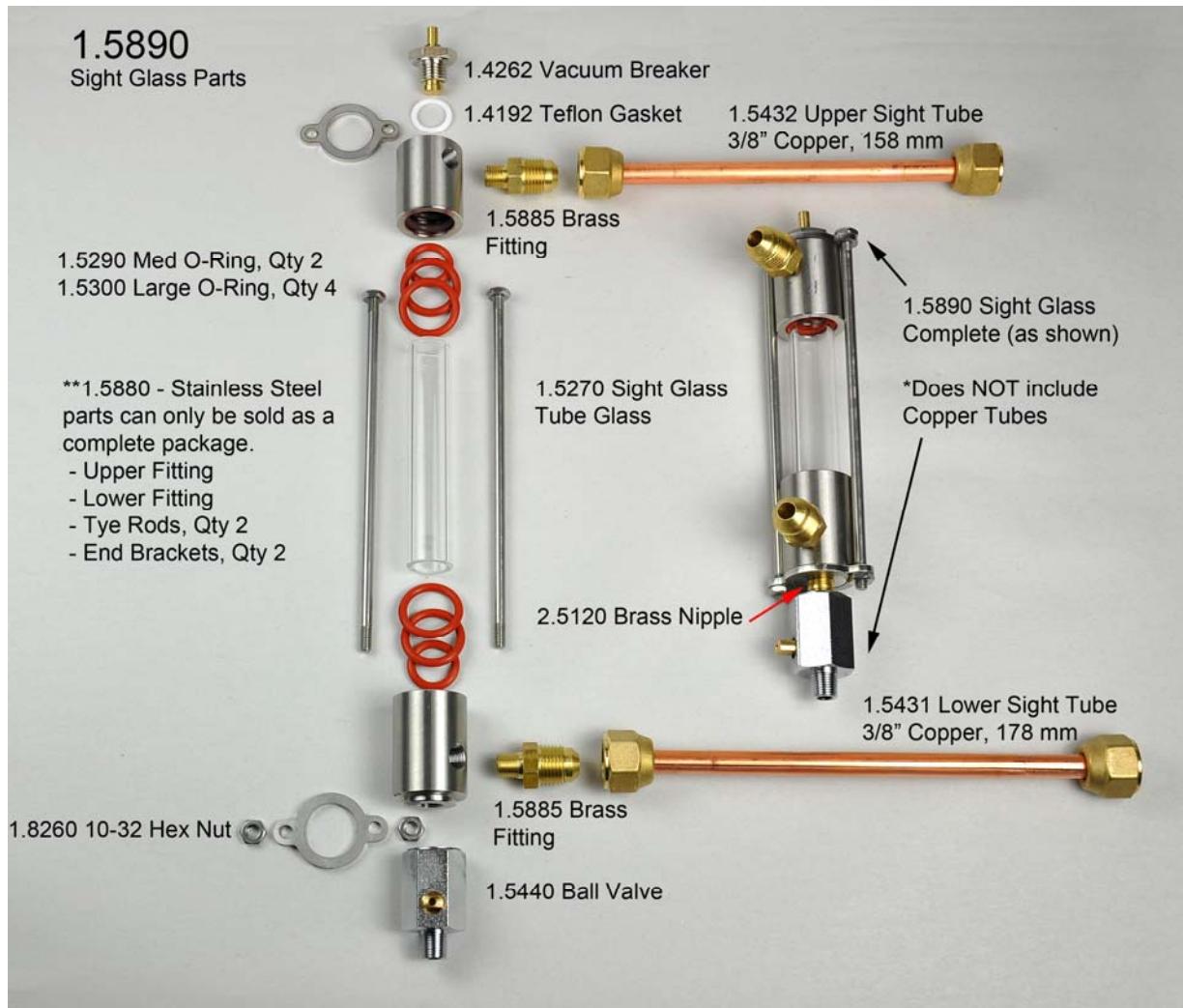
1.7637—3 Group Hydra / Hybrid

* 1.7630—Pressure Regulator Only, Lead Free Brass, NO Fittings or Hoses

1.4160 - Steam Wand Only / 1.4161 Steam Wand Assembly



Sight Glass



1.5890—Sight Glass Complete:

- 1.4192 - O-Ring
- 1.4262 - Vacuum Breaker
- 1.5270— Sight Glass Tube
- 1.5290—O-Ring, Silicone, 2 Per
- 1.5300— O-Ring, Silicone, 4 Per
- 1.5440— Ball Valve, Drain
- 1.5852— Brass Fitting for Ball Valve
- 1.5856—Brass Fitting for Tube
- 1.5880 * - Stainless Steel Parts
- 1.8260—Hex Nuts

Except for Copper Tubes:

1.5431— 3/8", Lower, 178 mm Long

1.5431—3/8", Upper, 158 mm Long

Sold Separately

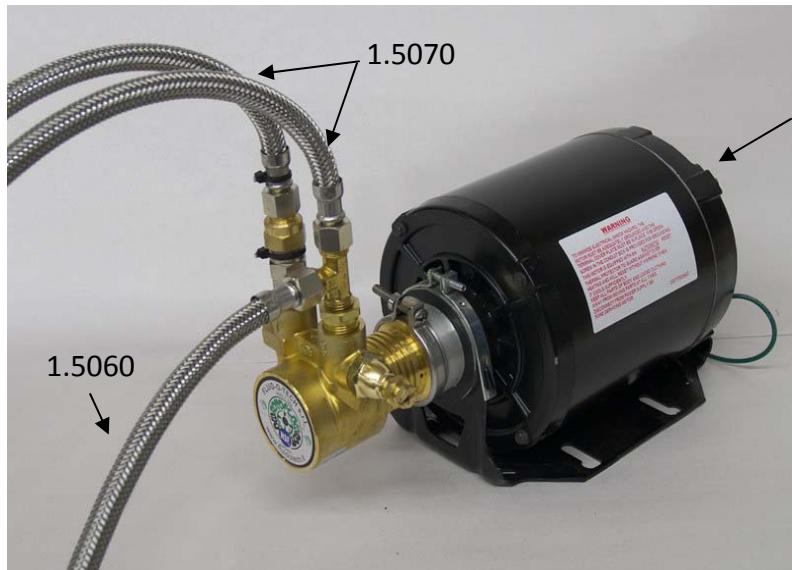


1st Gen Sight Glass Configuration. Stainless Steel Parts are Not Available, must purchase 1.5890

Rebuild O-Rings:

1.5280, 1 Per / 1.5290, 2 Per / 1.5300, 4 Per

Pump & Motors



1.5093— Motor with Terminals, 1/3 HP,
Configured to 220 Volts, 50/60 Hz

* Can be configured for 100/120 Volts
upon Request

Stainless Steel Braided Hoses,
3/8" Compression

1.5060— 48" Long

1.5070— 84" Long

Pump Configurations



1.5690—Fitting

1.4060—Check
Valve 3/8"

1.5115— Pump
& Clamp, Lead
Free, 60 Gallons
per Hour



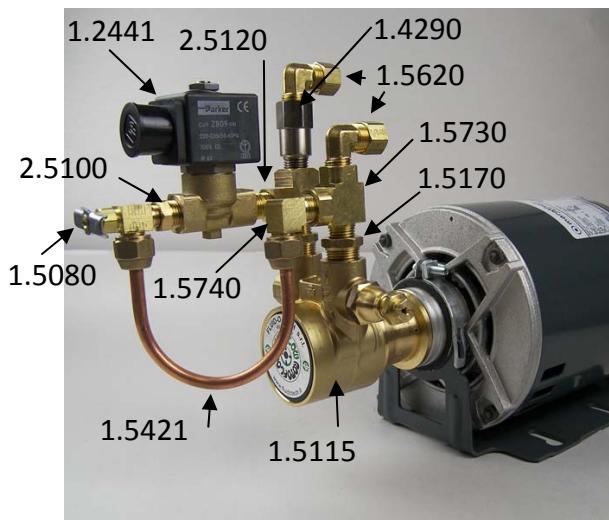
1.5112—Hydra Pump Assembly,
without the Bypass System

1.5111—Single Pump Machine
Assembly, Dual Hose

Pump & Motors

Hydra / Hybrid Models Only, Bypass Valve Assembly

Show with motor that is already included with Hydra / Hybrid Models



1.7654— Bypass Pump Assembly, (Does NOT include the Motor or By-Pass Box)

1.2441— Water Control Valve

1.4290— Check Valve

1.5080—Brass Mix Valve Fitting

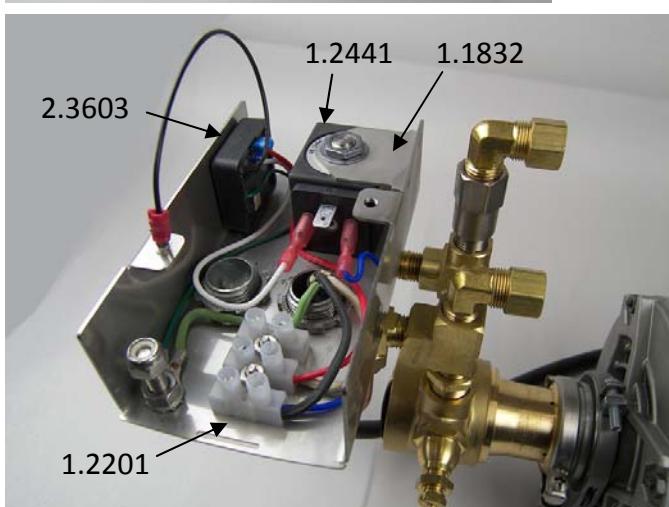
1.5115—Pump

1.5421—Copper Tube, 160 mm Long

1.5170 - Fitting / 1.5620 - Fitting

1.5730 - Fitting / 1.5740 - Fitting

2.5100 - Fitting / 2.5120 - Fittings



Parts of the By-Pass Assembly

1.1832 - Bypass Housing Base

1.2201 - Terminal Strip, 3 Position

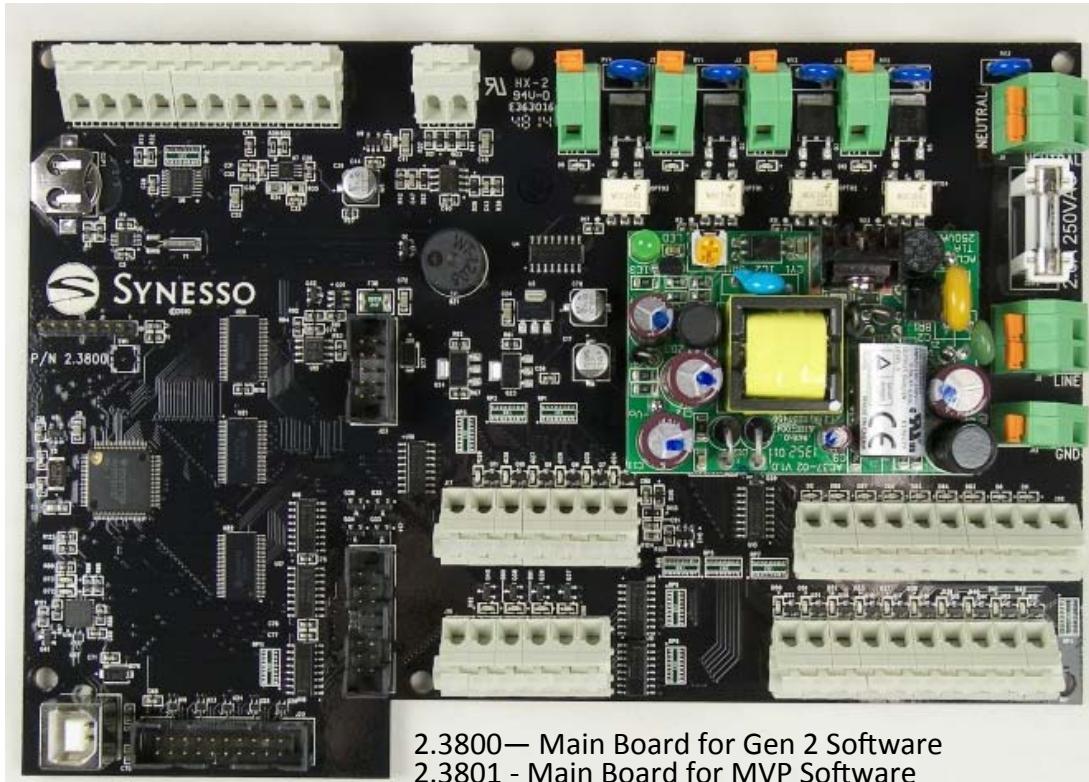
1.2320 - Strain Reliefs, 3/8" Metal

2.3603 - Bypass Solenoid Switch with Wires

Bypass Assembly, Complete, shown without SS Hoses



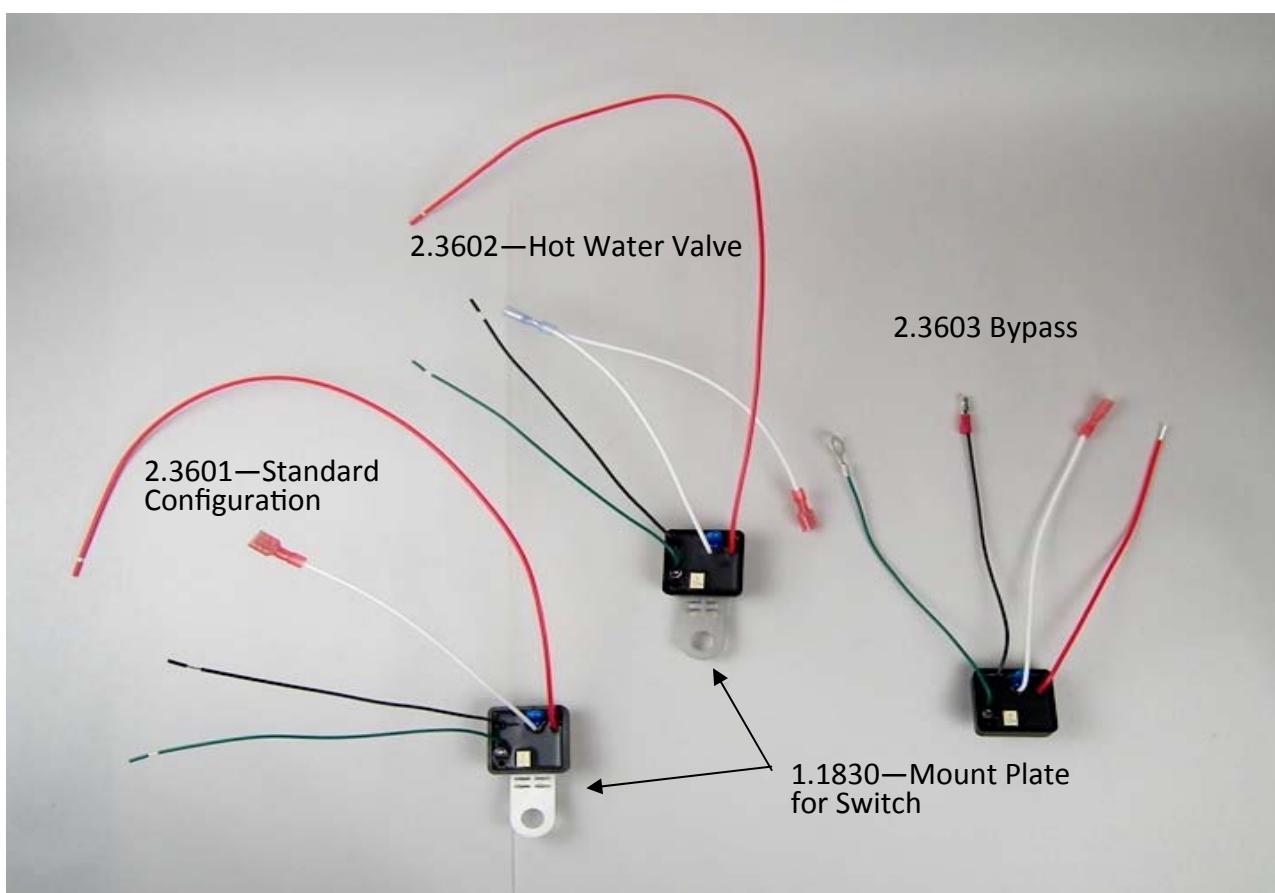
Electronics: 2nd Generation (Gen 2) (Circa: April 2011 to Sept 2015)



Main Electronics Board for the 2nd Generation Machines & MVP - Software is different

Solenoid Switches—Used on All Water Control and Brew Valves

(Gen 2 & MVP Machines ONLY, Not Gen 1)



Electronics: 2nd Generation (Gen 2) (Circa: April 2011 to Sept 2015)

Display Board



2.3701—Display Screen Complete with Round Ribbon.
Discontinued as of Sept 2015. Use 2.3729 (see page 13)



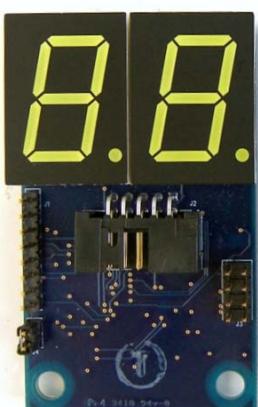
2.3700—Display Board -Discontinued



Digital Shot Timers



2.3509—Digital Shot Timer Complete,
(except for Ribbon Cable). Specify which position you need. Group 1, 2 or 3—the configuration is different, but can be changed in the field by moving the Pin.



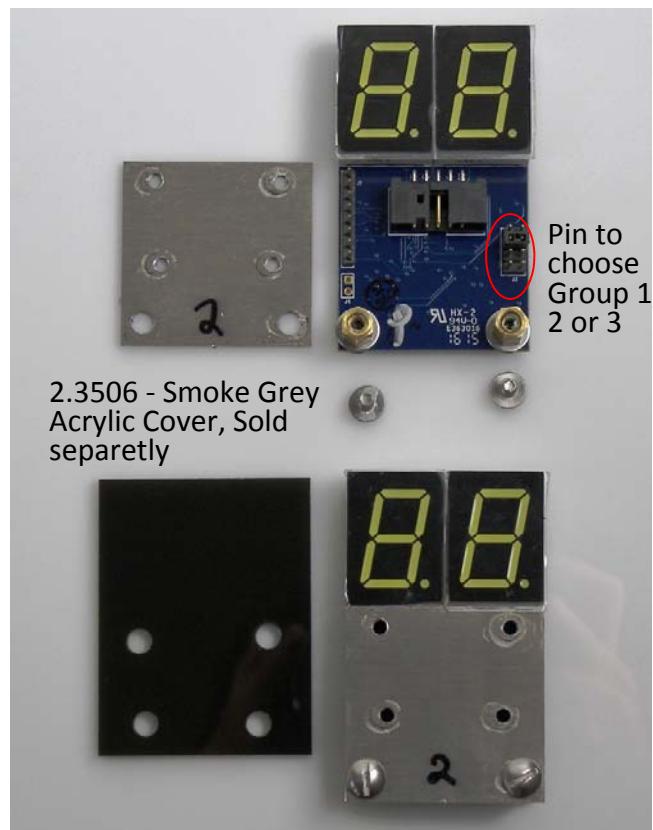
2.3500—Digital Shot Timer Board

Shot Timer Replacement Ribbon Cables:

2.3511—1 Group Machine

2.3512—2 Group Machine

2.3513—3 Group Machine



2.3506 - Smoke Grey Acrylic Cover, Sold separately



2.3501 - Timer Replacement.
No Housing or Cover Included

Portafilters & Baskets



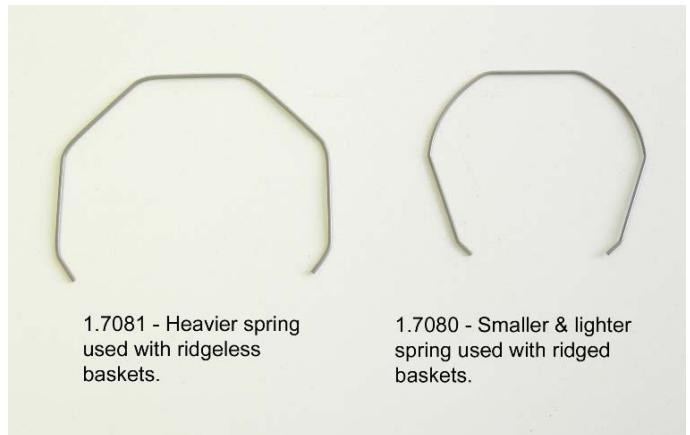
1.7030 - Portafilter Head, Black Handle & End Plug - NO Spring, Basket or Spout is Included



1.7100 - Bottomless (Naked) Portafilter Head, Black Handle & End Plug - NO Spring, Basket or Spout is Included



Filter Baskets, 58 mm



Portafilter Springs, Stainless Steel

1.7080 - Thinner, 1.1 mm, Ridged Baskets

1.7081 - Thicker, 1.2 mm, Ridgeless Baskets

Parts & Kits



Portafilter Gaskets with Grooved Outside Edges for Easy Installation & Venting of Trapped Water and Air



1.4170 - Chrome Plated Brass Steam Tip,
Acorn Style, 4 Holes - Still Available



Parts & Kits



1.7320—Steam Valve Rebuilt Kit

1.4505—Steam Valve Seal Holder, Brass

1.4200—Seal for Seat

1.4122—O-Ring, Valve Body @ Hex Nut

1.4123—O-Ring, Wand Nut

*1.4310—O-Ring, Stainless Spool

*1.4321—O-Ring, Wand Ball

*1.4181—O-Rings, Valve Stem

*Use Food Grade Lubricant when Assembling, we recommend Super Lube, Part # 1.8600

Descaling Powder, Primary ingredient is Citric Acid. It is Non-Toxic, Biodegradable, Fast and Effective.

Always Use Proper Precautions.

Food Grade Synthetic Grease

Permanent Strength, Releases with Heat

Always Use Proper Precautions.



1.7601 - Dezcal, 7 oz., Activated Scale Remover,



1.8600 - Super Lube, 3 oz. Tube



1.8630 - 0.2 oz. Tube of Thread Sealant

Parts & Kits

**1.3300 - Diffuser Screw,
Stainless Steel**



**1.3292 - Diffuser Screen, Synesso Logo,
Custom, Special Reinforced Screen**



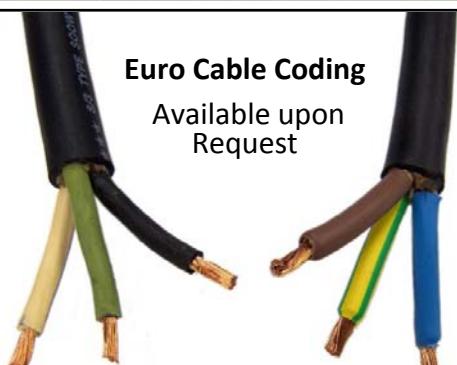
**1.8882 - Side Panel Knob Assembly
(Thumb Screw)**

**1.4501 - Steam
Valve, Brass with
Teflon Gasket.
Pusher is Sold
Separately**



Euro Cable Coding

Available upon
Request



North American Configuration:
White: 110 Volts
Green: Ground
Black: 110 Volts

Euro Colored Configuration:
Brown (White): 220 Volts
Yellow/Green (Green): Ground
Blue (Black): Neutral

Exterior Panel Hardware

**1.8300 -
Cap Nut**



**1.6010 -
O-Ring**



1.8440 - Washer

Piezo Hot Water Switch



**1.2316 - Raised Rim, Anti-
Rotation Groove, with Terminals,
(Replaces 1.2314 as of June 2015)**

1.4611



1.4612



Steam Valve Pushers:

**1.4611 - Original Style
Stainless Steel Handles**

**1.4612 - Black Cast and
Current Stainless Handles**

**1.3870 - Heat Shrink,
1/8" x 1.25" Long**



**Temperature Probe &
Solenoid Wires**

1.5020 - Euro Hose and Fitting Kit

North American Hose is 3/8" Compression
European is 3/8" BSP Parallel



1.5000 - Euro Fitting / 1.5010 - Euro Hose

Parts & Kits



Steam Elements, 220 Volts:

- 1.2030 - 5000 Watts, 3 Group
- 1.2040 - 4000 Watts, 2 Group
- 1.2050 - 2000 Watts, 1 Group

Brew Elements, 220 Volts:

- 1.2060 - 700 Watts
All Machines

Special Application Elements

200 Volt:

- 1.3630 - 5000 Watts, 3 Group
- 1.3620 - 4000 Watts, 2 Group
- 1.3640 - 700 Watts, Brew

*110 Volt:

- 1.2071 - 700 Watt, Brew
- 1.2081 - 1000 Watt, Steam

*Synesso has Discontinued Production of the 110 V, 1 Group



Drain Manifold &
Expansion Valve
Hose (Black Hose)

1.3261 - Bulk

1.3262 - Copper
Drain Manifold
Connection

1.3263 - Manifold
to Drain Box

1.3265 -
Expansion Valve

1.3268 - End Cap
Assembly,
Includes Hose,
Clamp & Copper
Cap



1.2010 - Teflon Gasket for
Heating Elements

1.3821 - Heat Shrink, 1/2"
Wide, 1.5" Long - Used to
Protect a Single Wire Attached
to the Element Post

1.3861 - Heat Shrink, 3/4"
Wide, 1.5" Long - Used when
2 Wires are Attached to an
Element Post

REPLACE BLACK HOSE EVERY FEW YEARS TO PROTECT AGAINST LEAKS

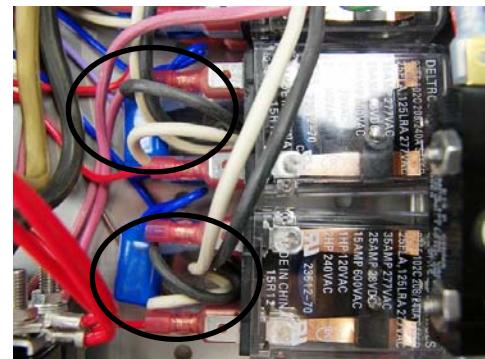
Electrical Box Parts & Kits



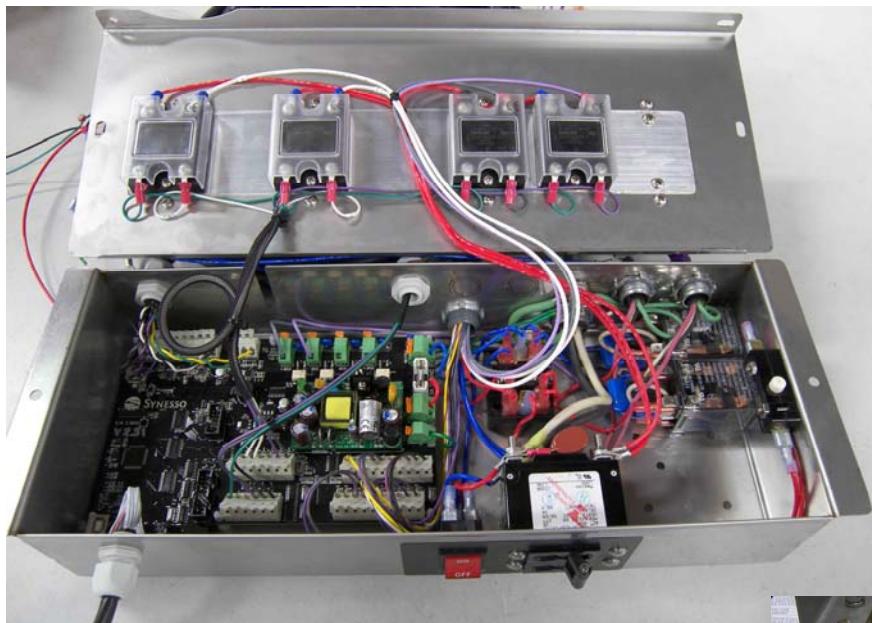
1.3740 - Solid State Low Voltage Relay, 40 amp. Used on Electrical Box Lids to Switch the Brew and Steam Elements.



1.3751 - Solid State High Voltage Relay, 50 amps



4.2780 - Snubber Assembly. Attached to 1.2133 Deltrol Pump Relay in the electrical box to reduce electrical noise spikes. 1 Per Relay.



1.2133 - Deltrol Pump Motor Relay, 208/240 Volts



Electrical Box for 2 & 3 Group Machines

- 1.2420 - On/Off Red Lighted Electronics Switch
- 1.2631 - 40 amp Element Breaker, 3 Gp Machines
- 1.2621 - 30 amp Element Breaker, 2 Gp Machines
- 1.3121 - Heat Sink, Aluminum for Lid Relays

Wood Packages - Due to the Organic Nature of Wood, Color and Grain will Vary



Optional Bubinga Wood Package
shown on a 3 Group Cyncra.

Portafilters can be configured as:
Bottomless (Naked), Double or
Single Spouted

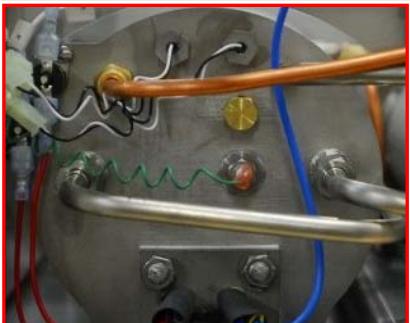


Part #	Wood Packages and Parts
2.7121	Wood Package, Bubinga, 1 Group Machine - 1 Steam Handle,1 Tamper, 1 Grp Top Handle & 2 Portafilters
2.7122	Wood Package, Bubinga, 2 Group Machine - 2 Steam Handles,1 Tamper, 2 Grp Top Handles & 3 Portafilters
2.7123	Wood Package, Bubinga, 3 Group Machine - 2 Steam Handles,1 Tamper, 3 Grp Top Handles & 4 Portafilters
2.7124	Wood, Bubinga, Group Top Handle
2.7125	Wood, Bubinga, Portafilter Handle Only, No Filter Head
2.7126	Wood, Bubinga, Steam Actuator Handle Only
2.7127	Wood, Bubinga, Tamper, 58.4 mm Stainless Steel Base, US Curve, Synesso Logo
2.7128	Wood, Bubinga, Portafilter Handle & PF Head (Spring, Spout & Basket Sold Separately)
2.7129	Wood, Bubinga, Steam Actuator Handle with Hanger Bolt
2.7131	Wood Package, Maple, 1 Group Machine - 1 Steam Handle,1 Tamper, 1 Grp Top Handle & 2 Portafilters
2.7132	Wood Package, Maple, 2 Group Machine - 2 Steam Handles,1 Tamper, 2 Grp Top Handles & 3 Portafilters
2.7133	Wood Package, Maple, 3 Group Machine - 2 Steam Handles,1 Tamper, 3 Grp Top Handles & 4 Portafilters
2.7134	Wood, Maple, Group Top Handle
2.7135	Wood, Maple, Portafilter Handle Only, No Filter Head
2.7136	Wood, Maple, Steam Actuator Handle Only
2.7137	Wood, Maple, Tamper, 58.4 mm Stainless Steel Base, US Curve, Synesso Logo
2.7138	Wood, Maple, Portafilter Handle & PF Head (Spring, Spout & Basket Sold Separately)
2.7139	Wood, Maple, Steam Actuator Handle with Hanger Bolt
2.7141	Wood Package, Black Walnut, 1 Group Machine - 1 Steam Handle,1 Tamper, 1 Grp Top Handle & 2 Portafilters
2.7142	Wood Package, Black Walnut, 2 Group Machine - 2 Steam Handles,1 Tamper, 2 Grp Top Handles & 3 Portafilters
2.7143	Wood Package, Black Walnut, 3 Group Machine - 2 Steam Handles,1 Tamper, 3 Grp Top Handles & 4 Portafilters
2.7144	Wood, Black Walnut, Group Top Handle
2.7145	Wood, Black Walnut, Portafilter Handle Only, No Filter Head
2.7146	Wood, Black Walnut, Steam Actuator Handle Only
2.7147	Wood, Black Walnut, Tamper, 58.4 mm Stainless Steel Base, US Curve, Synesso Logo
2.7148	Wood, Black Walnut, Portafilter Handle & PF Head (Spring, Spout & Basket Sold Separately)
2.7149	Wood, Black Walnut, Steam Actuator Handle with Hanger Bolt
2.7151	Wood Package, Zebra, 1 Group Machine - 1 Steam Handle,1 Tamper, 1 Grp Top Handle & 2 Portafilters
2.7152	Wood Package, Zebra, 2 Group Machine- 2 Steam Handles,1 Tamper, 2 Grp Top Handles & 3 Portafilters
2.7153	Wood Package, Zebra, 3 Group Machine - 2 Steam Handles,1 Tamper, 3 Grp Top Handles & 4 Portafilters
2.7154	Wood, Zebra, Group Top Handle
2.7155	Wood, Zebra, Portafilter Handle Only, No Filter Head
2.7156	Wood, Zebra, Steam Actuator Handle Only
2.7157	Wood, Zebra, Tamper, 58.4 mm Stainless Steel Base, US Curve, Synesso Logo
2.7158	Wood, Zebra, Portafilter Handle & PF Head (Spring, Spout & Basket Sold Separately)
2.7159	Wood, Zebra, Steam Actuator Handle with Hanger Bolt

Retrofit

Retrofit / Replace a Steam or Brew Tank for a Machine that has an Outdated Assembly

Which version of **STEAM TANK** is being replaced?



37° Welded Steel Flare and Steel Tubing
Approx S/N range: 0001-0344

For 1 group machine:
Order kit # 2.4610

For 2 group machine:
Order kit # 2.4620

For 3 group machine:
Order kit # 2.4630



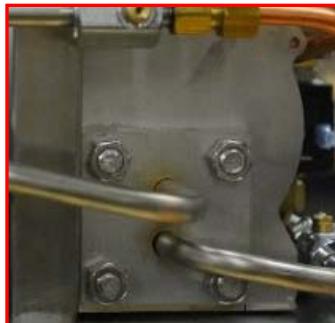
1/8" MPT with Standard Fare and Copper Tubing
Approx S/N range: 0345-0890

For 1G machine:
Order steam tank # 2.4533

For 2G machine:
Order steam tank # 2.4523

For 3G machine:
Order steam tank # 2.4513

Which version of **BREW TANK** is being replaced?

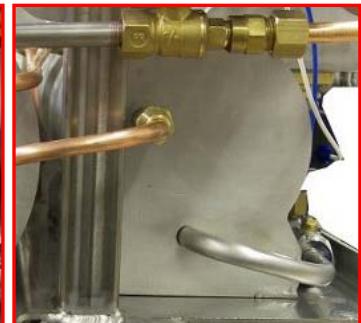


Welded Steel Tubing Direct to Steam Tank
Approx S/N range: 0001-0344

Replacement of BG1:
Order kit # 2.4611

Replacement of BG2:
Order kit # 2.4621

Replacement of BG3:
Order kit # 2.4631



1/8" MPT Standard flare and Copper Tubing – OR – 1/4" FPT
Approx S/N range: 0345-0890

Replacement of BG1:
Order kit # 2.4612

Replacement of BG2 or BG3:
Order kit # 2.4622

BOM - Kit number 2.4610

Qty

1.5423	Tube, 1/4" Copper, Group 1 Inlet, 160 mm Long	1
1.5530	Fitting, Heat Exchange Outlet, 46x4 (formerly steam tank inlet)	1
2.4533	Steam Tank, Universal 1 Gp, Retro Fit for CYNRA, Sight Glass, Tubes & Fittings, Passivated	1
1.3222	Adapter - brew tank inlet - 1 group	1
1.2010	Gasket, Heating Elements - Virgin Teflon	1



1.3222 - Brew Tank Inlet, 1st Tank Position

BOM - Kit number 2.4620

Qty

1.5423	Tube, 1/4" Copper, Group 1 Inlet, 160 mm Long	1
1.5530	Fitting, Heat Exchange Outlet, 46x4 (formerly steam tank inlet)	1
2.4523	Steam Tank, Universal 2 Gp, Retro Fit for CYNRA, Sight Glass, Tubes & Fittings, Passivated	1
1.5181	Tube, 1/4" Copper, Group 2 Inlet, 530 mm Long	1
1.5130	Fitting, Water Inlet, 90 Elbow, 1/8" Pipe by 1/4" Flare, 50x4	1
1.3222	Adapter - brew tank inlet - 1 group	1
1.3212	Adapter - brew tank inlet - 2 and 3 group	1
1.2010	Gasket, Heating Elements - Virgin Teflon	2



1.3222 - Brew Tank Inlet, 1st Tank Position

BOM - Kit number 2.4630

Qty

1.5423	Tube, 1/4" Copper, Group 1 Inlet, 160 mm Long	1
1.5530	Fitting, Heat Exchange Outlet, 46x4 (formerly steam tank inlet)	1
2.4513	Steam Tank, Universal 3 Gp, Retro Fit for CYNRA, Sight Glass, Tubes & Fittings, Passivated	1
1.5181	Tube, 1/4" Copper, Group 2 Inlet, 530 mm Long	1
1.5130	Fitting, Water Inlet, 90 Elbow, 1/8" Pipe by 1/4" Flare, 50x4	2
1.3222	Adapter - brew tank inlet - 1 group	1
1.3212	Adapter - brew tank inlet - 2 and 3 group	2
1.5471	Tube, 1/4" Copper, Group 3 Inlet, 755 mm Long	1
1.2010	Gasket, Heating Elements - Virgin Teflon	3



1.3212 - Brew Tank Inlet, 2nd & 3rd Tank Positions

BOM - Kit number 2.4611

Qty

1.5851	Fitting, 5x6, 45 Deg Elbow, 3/8" OD, Male Pipe 1/4", Sight Glass	1
1.3133	Brew Tank, Increased Welded Interior, SS, Passivated, No Fittings, 11-2010	1
1.5443	Drain Valve Fittings Assembly, Feb 2011	1
1.3268	Black Hose Drain End Assembly	1
1.3201	Tube, 3/8" Copper, 1st Grp Fill, Convert from Stainless Tube	1

BOM - Kit number 2.4621

Qty

1.5851	Fitting, 5x6, 45 Deg Elbow, 3/8" OD, Male Pipe 1/4", Sight Glass	1
1.3133	Brew Tank, Increased Welded Interior, SS, Passivated, No Fittings, 11-2010	1
1.5443	Drain Valve Fittings Assembly, Feb 2014	1
1.3211	Tube, 3/8" Copper, 2nd Grp Fill, Convert from Stainless Tube	1

BOM - Kit number 2.4631

Qty

1.5851	Fitting, 5x6, 45 Deg Elbow, 3/8" OD, Male Pipe 1/4", Sight Glass	1
1.3133	Brew Tank, Increased Welded Interior, SS, Passivated, No Fittings, 11-2010	1
1.5443	Drain Valve Fittings Assembly, Feb 2011	1
1.3221	Tube, 3/8" Copper, 3rd Grp Fill, Convert from Stainless Tube	1

BOM - Kit number 2.4612

Qty

1.5700	Fitting, Steam Tank Gauge, Brass, 48x4x4	1
1.3133	Brew Tank, Increased Welded Interior, SS, Passivated, No Fittings, 11-2010	1
1.5443	Drain Valve Fittings Assembly, Feb 2011	1

BOM - Kit number 2.4622

Qty

1.5740	Fitting, Hot Water Valve, 49x4x4 (no jet)	1
1.3133	Brew Tank, Increased Welded Interior, SS, Passivated, No Fittings, 11-2010	1
1.5443	Drain Valve Fittings Assembly, Feb 2014	1

Retrofit, Brew Tanks

BULLETIN NUMBER	DATE OF BULLETIN	DATE OF IMPLEMENTATION	S/N OF IMPLEMENTATION
T003.14	11/1/2014	11/17/2014	2412

REASON FOR CHANGE	RETROFIT STATUS	PRIORITY OF UPDATE
RELIABILITY	NON-RETROFITABLE	HIGH
SERVICEABILITY	X GEN 1 ONLY	MEDIUM
AESTHETICS/INTERFACE	GEN 2 ONLY (2010 +)	x LOW
MANUFACTURING	x UNIVERSAL	OPTIONAL

SUMMARY OF CHANGE:

In order to decrease variations of machine parts, Synesso will be changing to a universal brew tank that will simplify both the production of machines as well as the ordering of parts going forward.

This change will be compatible with all Gen. 2 machines. When replacing an existing brew tank there will be slight alterations that will need to be made to gauge tubes and the 2nd and 3rd brew tank inlet tubes. These tube alterations can be accomplished in the field with a tube bender, with low to mild difficulty, however, Synesso recommends new tubes for machines that have been in use for multiple years due to the brittle nature that sustained heat can produce in copper.

Image series 1: 2010 to Current style of brew tank configurations showing inlet and drain fittings.

Image 2: New universal brew tank showing new fittings in all effected configurations.

Image Series 1

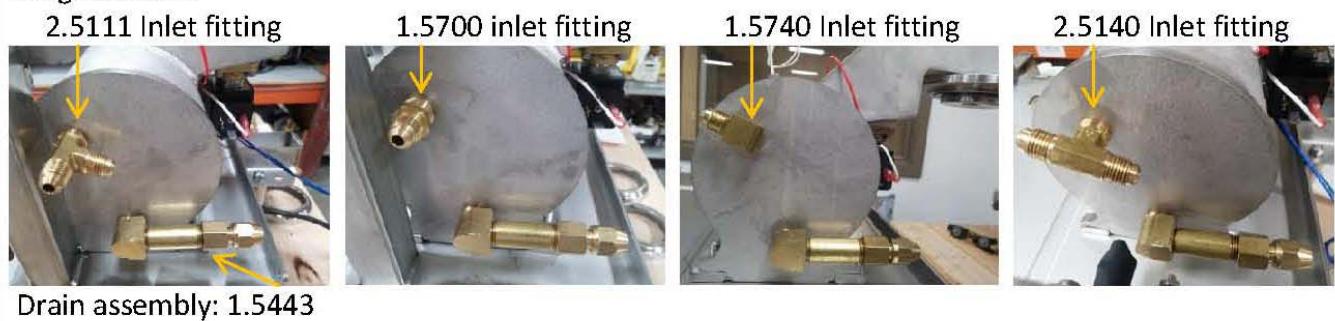


Image 2: New universal brew tank.



Retrofit, Brew Tanks

PART NUMBER(S) AFFECTED	DESCRIPTION	NEW PART NUMBER(S)	DESCRIPTION
1.5740 	1/4 flare x 1/4 pipe 90 degree male elbow	1.5700 	1/4 flare x 1/4 male pipe
2.5111 	1/4 flare x 1/4 pipe male run tee	1.5700 	1/4 flare x 1/4 male pipe
2.5140 	1/4 flare x 1/4 pipe male run tee	1.5700 	1/4 flare x 1/4 male pipe
1.5443 	Brew tank drain assembly	Same #(1.5443) 	2014 Brew tank drain assembly
1.5181 	2 nd position inlet tube 530mm	Same #(1.5181) 	New bend in 2 nd position inlet tube 530mm
1.5471 	3 rd position inlet tube 755mm	Same #(1.5471) 	New bend in 3 rd position inlet tube 755mm
1.5365 	Brew gauge tube 750mm	Same #(1.5365) 	New bend in brew gauge tube 750mm

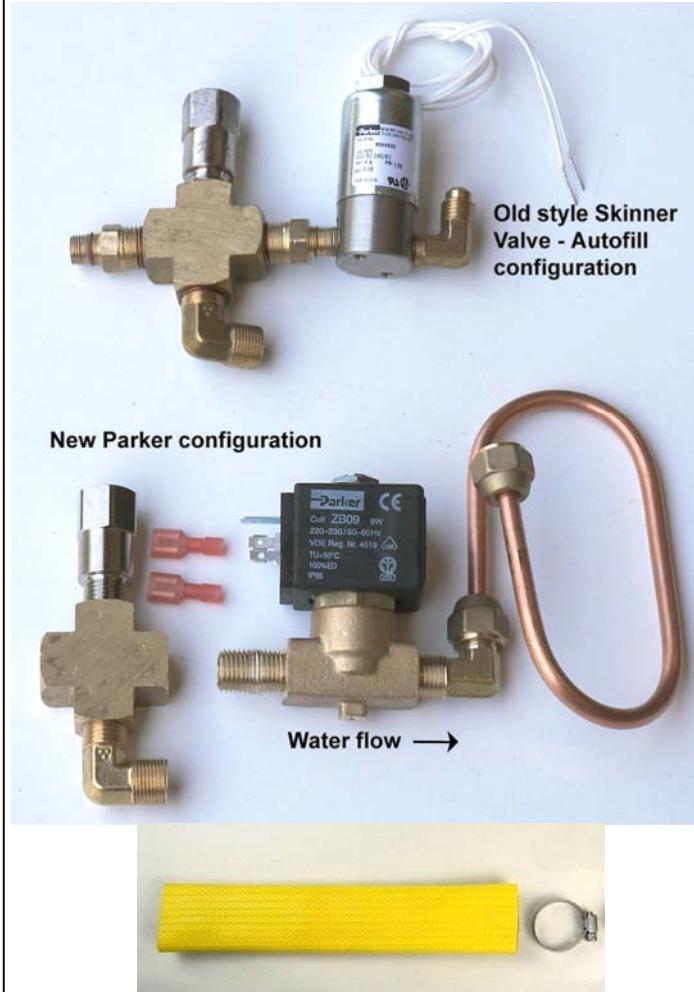
Retrofit

Retrofit Kits to replace the Skinner Water Controls on machines built from 2004 to October 2007 (Serial numbers 0001 to 0341)

1.2442 — Retro Fit Kit: Water Control Valve for Hot Water Tap



1.2443 — Retro Fit Kit: Water Control Valve for Steam Tank Fill



1.2444—Retro Fit Kit: Water Control Valve for Cold Water



Buna Hose & Clamp comes with the 1.2443 to cover the Pressure Relief Valve and this protects the Wire Terminal Connections from any Moisture.

*Full Instructions and parts breakdown are available for these Retrofit Kits.

Email: parts@synesso.com / info@synesso.com



1.2310 - Hot Water Switch, Maintained

1.2410 - Manual Fill Switch, Momentary
(They look the same)

Retrofit (Gen 1)



1.5830 - 3 Group Machines / 1.5820 - 2 Group Machines / 1.5810 - 1 Group Machines

1st Generation Electronics—Power Boards

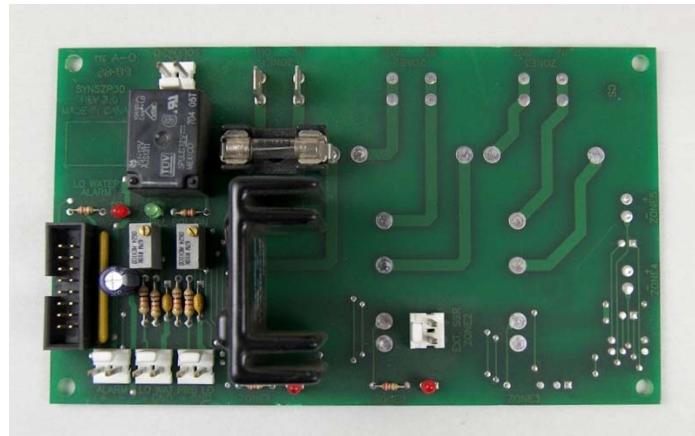
Power Boards—Uses Low Voltage Lid Mounted Solid State Relays for the Steam Elements



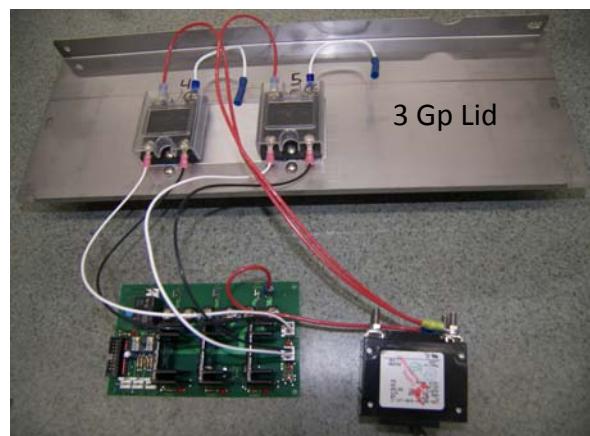
1.2162—Power Board, 2 Group Machines, Low Voltage Lid Mounted Relays for Steam Element



1.2163—Power Board, 3 Group Machines, Low Voltage Lid Mounted Relays for Steam Element



1.2651— Power Board, 1 Group Machine, Low Voltage Lid Mounted Relay for Steam Element



Example: 1st Gen Electronics shown with the Low Voltage Lid Mounted Relays for the Steam Element

Retrofit - Gen 1

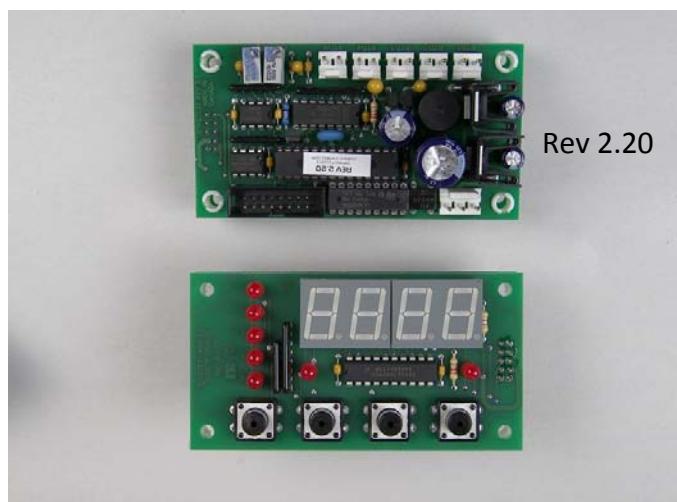
1st Generation Electronics—Display Boards

Display Boards—100 Ohm and 2000 Ohm (2K). These are not interchangeable unless all the Temperature Probes are changed from 100 Ohm to 2K

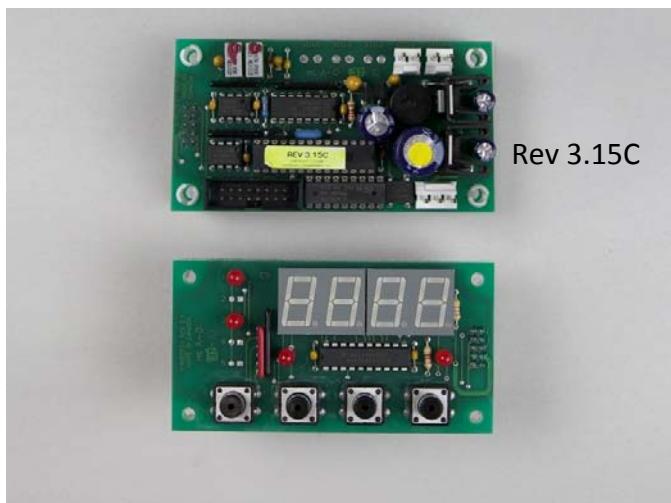
1.2151—5 Zone, 2K Ohm Display for 2 & 3 Group Machines



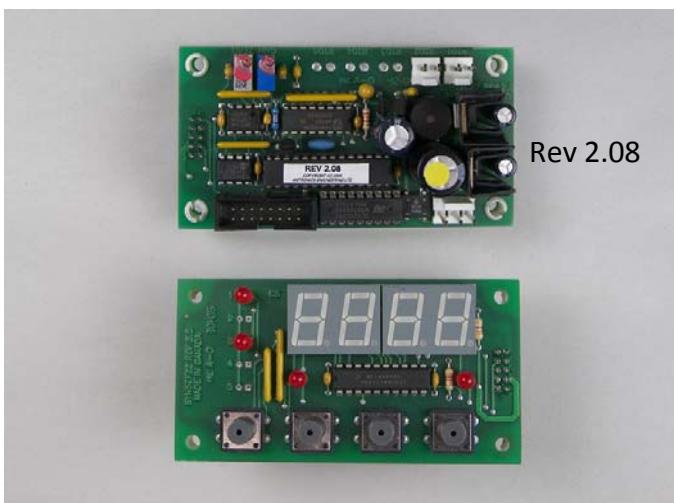
1.2150 — 5 Zone, 100 Ohm Display for 2 & 3 Group Machines



1.2661—2 Zone, 2K Ohm Display for 1 Group Machines



1.2660 — 2 Zone, 100 Ohm Display for 1 Group Machines



Temperature Probe, Brew & Steam Tanks

1.2390—2000 ohm (Current as of 3-2007)

1.2591—100 ohm (Original Machines)

**These are NOT interchangeable

2000 ohm (2K) reads temp in .1 degrees F

100 ohm reads temp in .5 degrees F

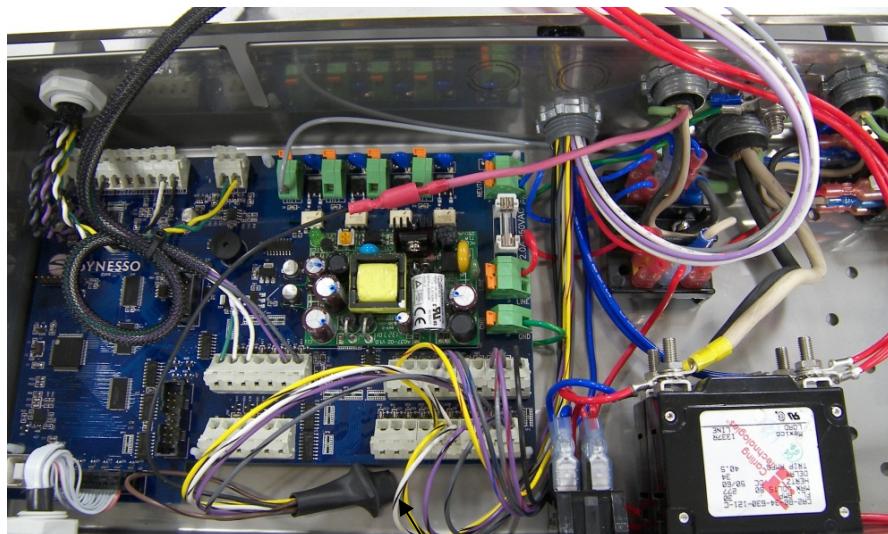


Options & Accessories

Line Pressure Boost System for 2nd Generation Machines with Wired Hand Controller

Synesso has developed a system that interfaces with the 2nd generation control board to operate an auxiliary pump and motor whenever line pressure is required. This allows the machine to be used in situations of very low line pressure, or where no line pressure is available. Ideally, the system will be installed when the machine is built, but it can be installed at a later time.

NOTE: Due to the low pressure generated by this system, some brewing pressure drop can occur when water fills the steam tank, leaves the hot water tap, or is used by another group. The brew pressure can lose up to 20psi if multiple actions occur simultaneously. Increase the boost pump pressure to 80psi and install a line pressure regulator to eliminate this pressure drop. Synesso recommends installing a pressure regulator when using this system in any industrial application. Synesso is now including the Pressure Regulator with the Line Pressure System.

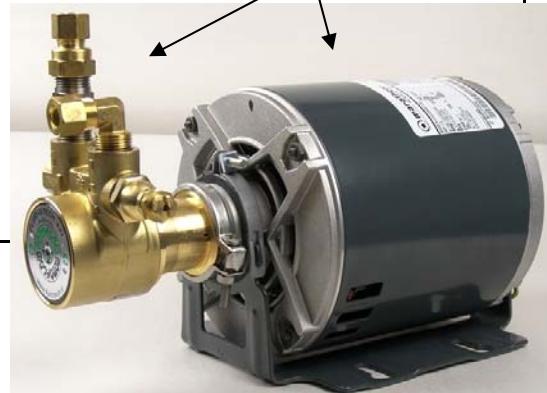


Controller Unit



Auxiliary Pump Control Box

Pump & Motor for Line Boost System



Line Pressure Boost System with Pressure Regulator

1.7875_1 - Single Pump/Motor Machines

1.7875_2H - 2 Group Hydra / Hybrid Machines

1.7875_3H - 3 Group Hydra / Hybrid Machines

Options & Accessories

1.1555 - Shot Mirror for Drip Tray, Polished Stainless Steel



Front Facing View



Side View



1.1550 - Cup Riser, Stainless Steel



Height 1.5" (38 mm)

Works with Punch Slotted Drip Trays,
Secured in Place by Inserting Tabs into
Slots on Drip Tray

Watch your Shot Develop & Pour with the
Synesso Shot Mirror.

Great Training Tool, Especially when used
with a Bottomless Portafilter.

Cup Riser & Shot Mirror Shown on 2 Group
Hybrid with a Black Walnut Wood Package



Options & Accessories



Trim Kit for Synesso Espresso Machines

1.7582 - Trim Kit Corners and Hardware, Stainless Steel

Order Center Stainless Steel Piece Separately for Desired Machine

1.7583 - 1 Group

1.7584 - 2 Group

1.7585 - 3 Group

1.7586 - 4 Group (As Shown)



3.2011 - Breaker Blocker Kit for Electrical Box

Easy to Install. Helps to Protect Against Inadvertently Switching the Element Breaker to the Off Position

Keep your machine from moving or sliding on the countertop



1.1936 - Foot / Leg Stabilizer Plate & Screws. Priced per Each. Fits Gen 1 & Gen 2 and Cyncra 2016 Machines

Options & Accessories

Synesso T-Shirts

Available Colors:

Grey, Cranberry & Coffee

Available Sizes: Unisex

Small, Medium, Large, X-Large, XX-Large

Shirts are made from Ring Spun Cotton. They are Softer, Lighter Weight and More Durable than Regular Cotton Shirts



1.7772 - Synesso Shot Glass, Red Logo, 3 oz., Single Glass

1.7782 - Synesso Shot Glass, Red Logo, 3 oz., 6 Pack of Glasses

Marketing Materials:

** Subject to Availability

Cloth Patches - "Synesso - Made in the USA", 3" Round, Adhesive Back

Beverage Wrenches - Red & Black, Metal

Buttons - 1" Round, "S" Logo, Gauge or Machine Drawing, Various Colors





1.7075 - Log Book, MVP Series

This book has the Quick Start Guide, Recipe pages and pages for notes.

1 Book comes with each MVP Series machines, but they are readily available to purchase as well.

BREW RECIPE		DATE:	GROUP #	PRG #
BARISTA:		TEMP:		
COFFEE:		PREINFUSION TIME:		
ROAST DATE:		RAMP UP TIME:		
DOSE IN:		RAMP DOWN %:		
TARGET WT. OUT:		TOTAL WATER COUNT:		
BREW TIME:				

BREW RECIPE		DATE:	GROUP #	PRG #
BARISTA:		TEMP:		
COFFEE:		PREINFUSION TIME:		
ROAST DATE:		RAMP UP TIME:		
DOSE IN:		RAMP DOWN %:		
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