

SYNESSO INC.

PARTS MANUAL



CYNCRA MODEL 2008

Synesso, Inc.
309 S. Cloverdale, C41, Seattle, WA 98108
Tel: 206.764.0600 / Fax 206.764.0601
www.synesso.com

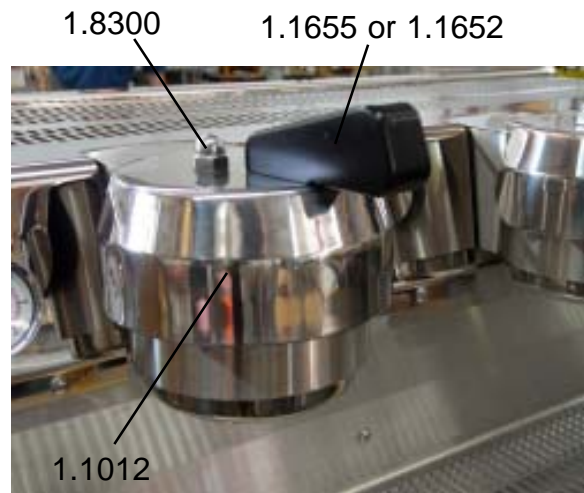
TABLE OF CONTENTS

Body.....	4-7
Hydraulic components.....	8-15
Electrical components.....	16-20
Parts kits.....	21-22
Accessories.....	23-24
Options.....	25-26

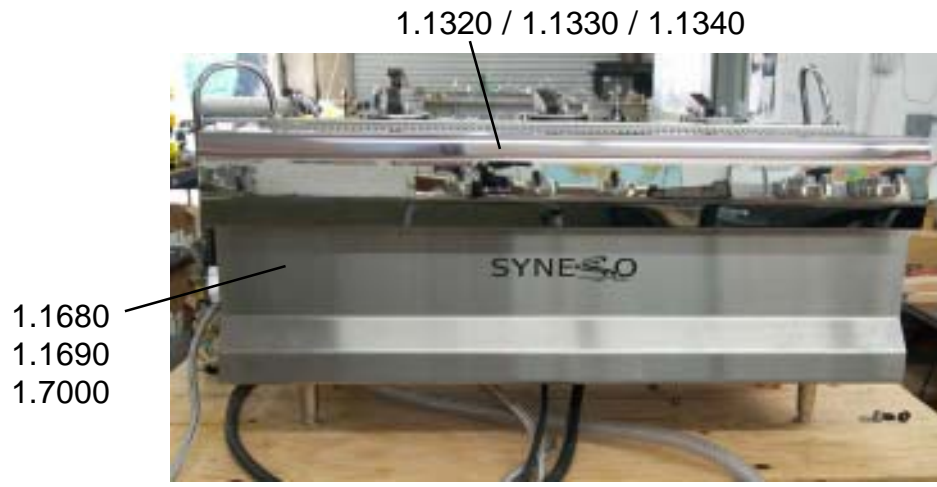
Body



1.1440 / 1.1450 / 1.1460



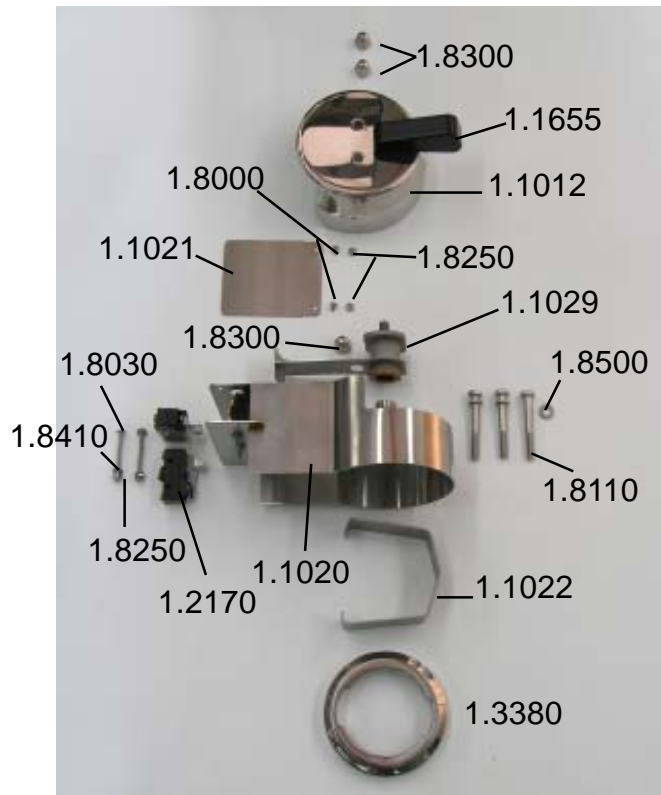
Body



Body

Part number	Description
1.1012	Group Top, SS, Polished
1.1320	Panel, Upper Back, 3 Group, #8 Mirror Finish, Stainless Steel
1.1330	Panel, Upper Back, 2 Group, #8 Mirror Finish, Stainless Steel
1.1340	Panel, Upper Back, 1 Group, #8 Mirror Finish, Stainless Steel
1.1440	Cup Grate, 3 Group, Stainless Steel
1.1450	Cup Grate, 2 Group, Stainless Steel
1.1460	Cup Grate, 1 Group, Stainless Steel
1.1480	Pan, Cup Drip, 3 Group
1.1490	Pan, Cup Drip, 2 Group
1.1500	Pan, Cup Drip, 1 Group
1.1521	Drain Pan, 3 Group
1.1522	Drip Tray (grate) 3 Group machines
1.1531	Drain Pan, 2 Group
1.1532	Drip Tray (grate) 2 Group machines
1.1541	Drain Pan, 1 Group
1.1542	Drip Tray (grate) 1 Group machines
1.1560	Panel, Front Lower, 3 Group, Stainless Steel
1.1570	Panel, Front Lower, 2 Group, Stainless Steel
1.1580	Panel, Front Lower, 1 Group, Stainless Steel
1.1652	Group Top Handle, Acrylic Black, High Polish
1.1655	Group Top Handle, Pwd Coat Black, Cast
1.1680	Panel, Bottom Back, Bk Synesso Logo, 3 Group
1.1690	Panel, Bottom Back, Bk Synesso Logo, 2 Group
1.1700	Panel, Bottom Back, Bk Synesso Logo, 1 Group
1.1850	Panel, Upper Front with for Hot Water, 1 Group, #8 Mirror Finish
1.1860	Panel, Upper Front with for Hot Water, 2 Group, #8 Mirror Finish
1.1870	Panel, Upper Front with for Hot Water, 3 Group, #8 Mirror Finish
1.1961	End Plate + Washer, Right, 2 & 3 Group Machines, for Cast Handle
1.1971	End Plate + Bearing, Left Hand, for Cast Handle
1.1981	End Plate + Bearing, Right Hand, 1 Group for Cast Handle
1.1990	Machine Legs, 4" High, NSF
1.4160	Steam Wand, Cool Touch, No Tip
1.8300	Nuts, SS, 3/8-16 Acorn (Cap Nut)

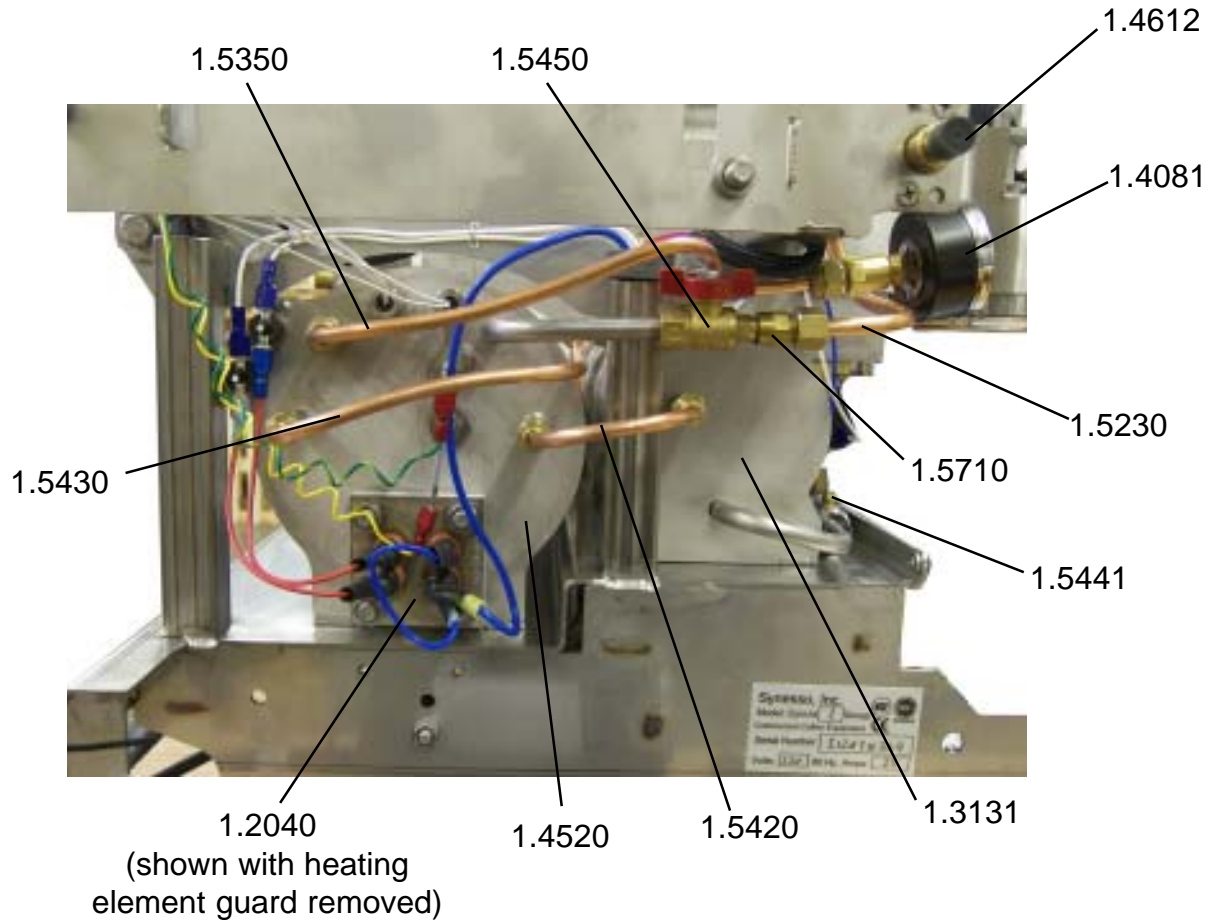
Body



Part number	Description
1.1012	Group Top, SS, Polished
1.1020	Group Top Housing
1.1021	Group Top Housing Cover,#4 Finish
1.1022	Group Top Housing Support
1.1029	Switch Actuator Assembly Only with Pressed Bearing
1.1655	Group top handle, Powder coat black, cast
1.2170	Switch, Brew & Pump
1.3380	Bayonet Ring, 304 Stainless Steel, Mirror Polish Finish
1.4230	Steam Valve Actuator, Stainless Steel, w/o Handle, Right Hand
1.4240	Steam Valve Mount, Stainless Steel, w/o Handle, Left Hand
1.4232	Steam Valve Actuator, Blk., Right, with Bearing, Washers & Nuts
1.4242	Steam Valve Actuator, Blk., Left, with Bearing, Washers & Nuts
1.4250	Steam Valve Handle, Black Acrylic (Thin 3/4") for 1.4230 and 1.4240
1.8000	Screws, SS, 6-32 Truss Hd Slot, 1/4"
1.8030	Screws, SS, 6-32, Phil Pan, 2"
1.8110	Screws, SS, 5/16-18 Hex Hd Cap, 2 1/2"
1.8250	Nuts, SS, 6-32 Hex
1.8300	Nuts, SS, 3/8-16 Acorn (Cap Nut)
1.8410	Flat Washer, SS, # 6
1.8500	Split Lock Washer, SS, 5/16"

Hydraulic Components

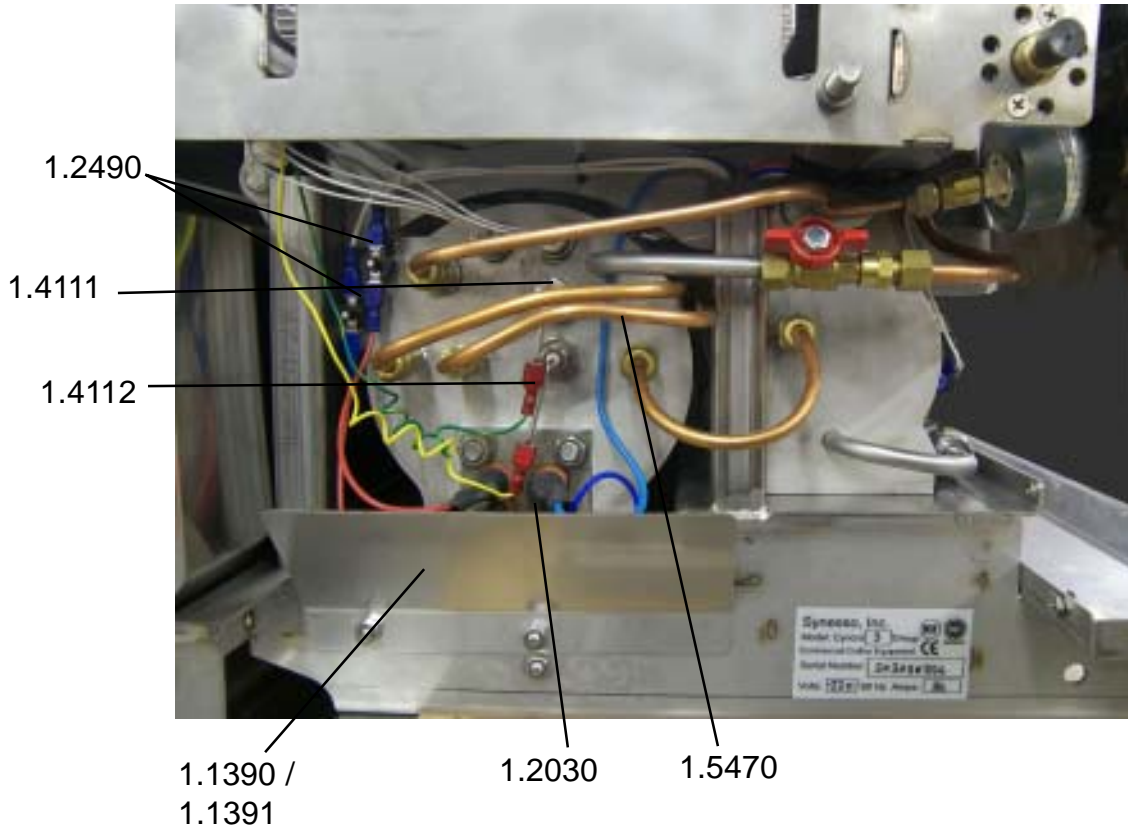
Left side view (2 group)



Part number	Description
1.2040	Element, Steam Tank, 220V, 4000 Watts, Incoloy 800®, 2 Group
1.3131	Brew Tank, Stainless Steel, For use with copper inlet tubes
1.4081	Gauge, Steam Pressure, 0-60 PSI + Fitting
1.4520	Steam Tank Weldment, Stainless Steel, 2 Group, Inlet Manifold Included, Passivated
1.4612	Steam Valve Pusher for Black Cast Handle
1.5230	Tube, 5/16" Copper with Fittings, Steam Valve, Left Hand, 230 mm
1.5350	Tube, 1/4" Copper with Fittings, Steam Gauge, 294 mm
1.5420	Tube, 1/4" Copper with Fittings, 1st Group Fill, 160 mm
1.5430	Tube, 1/4" Copper with Fittings, 2nd Group Fill, 550 mm
1.5441	Ball Valve, General Purpose (#40790)
1.5450	Ball Valve, Steam Valve Shut-Off
1.5710	Fitting, Steam Tube at Ball Valve, 46x5

Hydraulic Components

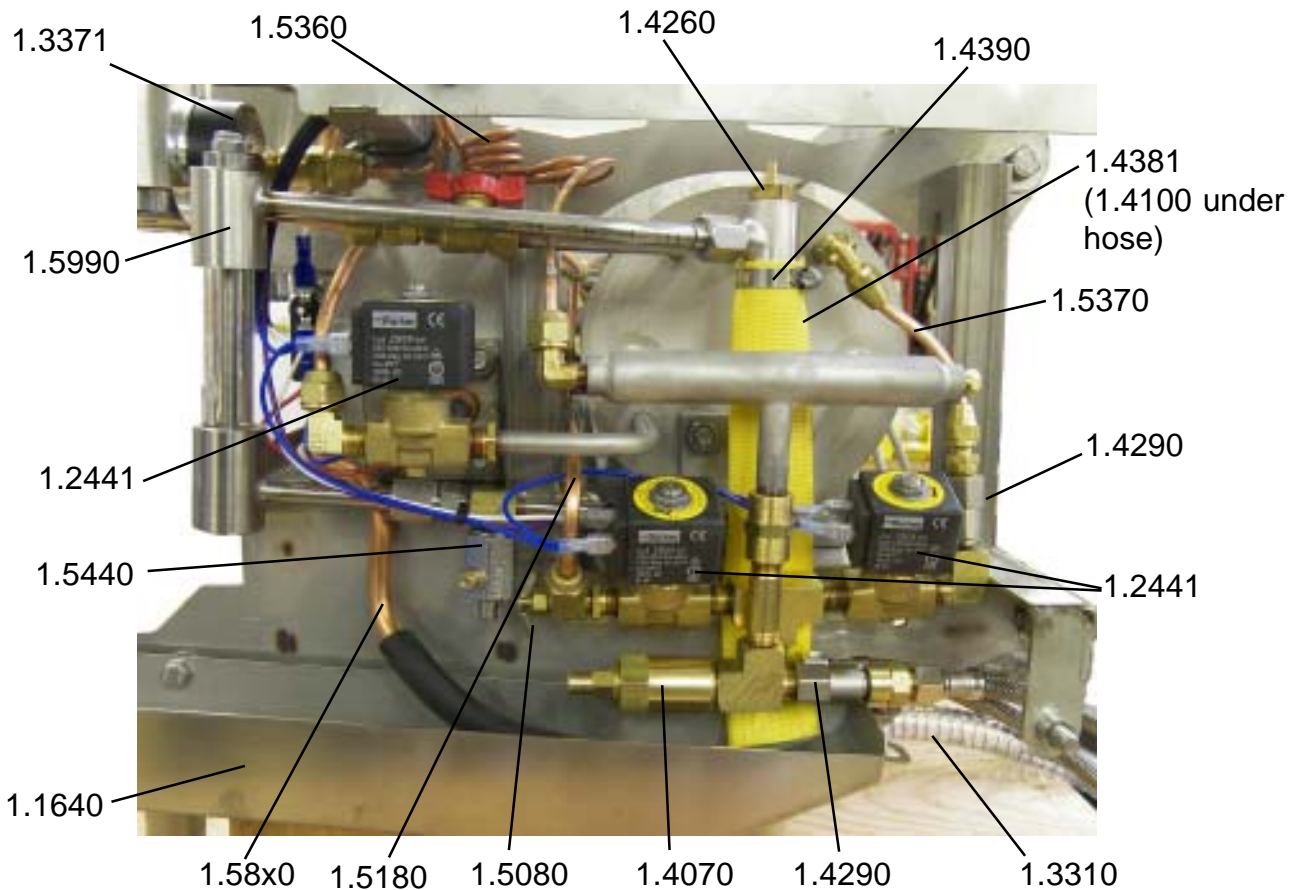
Left side view (3 group)



Part number	Description
1.1390	Heating Element Guard, Stainless Steel
1.1391	Heating Element Guard, Black Powder Coat
1.2030	Element, Steam Tank, 220V, 5000 Watts, Incoloy 800®, 3 Group
1.2490	Switch, Selco 250 Thermal Overload, Manual Reset
1.4111	Level Probe, High Position, Water Level & Auto Fill
1.4112	Level Probe, Low Water Alert
1.4510	Steam Tank Weldment, Stainless Steel, 3 Group, Inlet Manifold Included, Passivated
1.5470	Tube, 1/4" Copper with Fittings, 3rd Group Fill, 755 mm

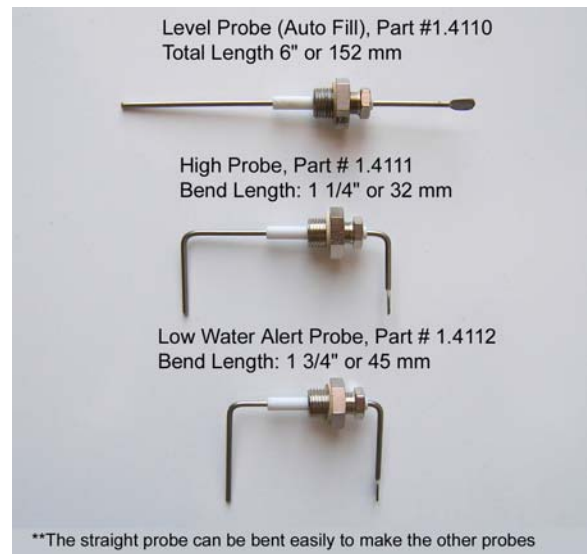
Hydraulic Components

Right side view (2 group)



Part number	Description
1.1640	Drain Box, Stainless Steel
1.2441	Parker ZB09 Water Control Valve, 1/4"
1.3310	Drain Hose, 3/4 OD, Flexible, Priced per foot
1.3371	Gauge, Brew Pressure, 0-300 PSI + Fitting
1.4070	Expansion Valve
1.4100	Pressure Relief Valve, 3/8"
1.4260	Vacuum Breaker
1.4290	Check Valve, 1/4" Inlet
1.4381	Hose, High Pressure Buna (covering pressure relief valve)
1.4390	Clamp, Hose clamp for 1.4381
1.5080	Mix valve, Hot Water Tap Brass
1.5180	Tube, 1/4" Copper with Fittings, Cold Water, 530 mm
1.5360	Tube, 1/4" Copper at Fittings, Brew Gauge, 750 mm
1.5370	Tube, 1/4" Copper with Fittings for Steam Tank Fill, 80 mm
1.5440	Ball Valve, Multi-Purpose Shut Off Valve, Synesso Standard
1.58x0	Drain manifold (x = number of groups, i.e. 1.5830 is for a 3 group)
1.5990	Sight Glass Complete, Stainless Steel Parts, Glass and O-Rings

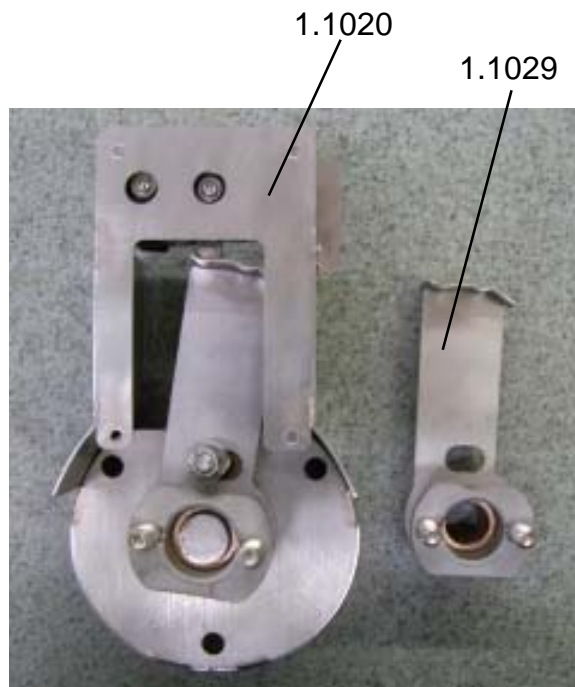
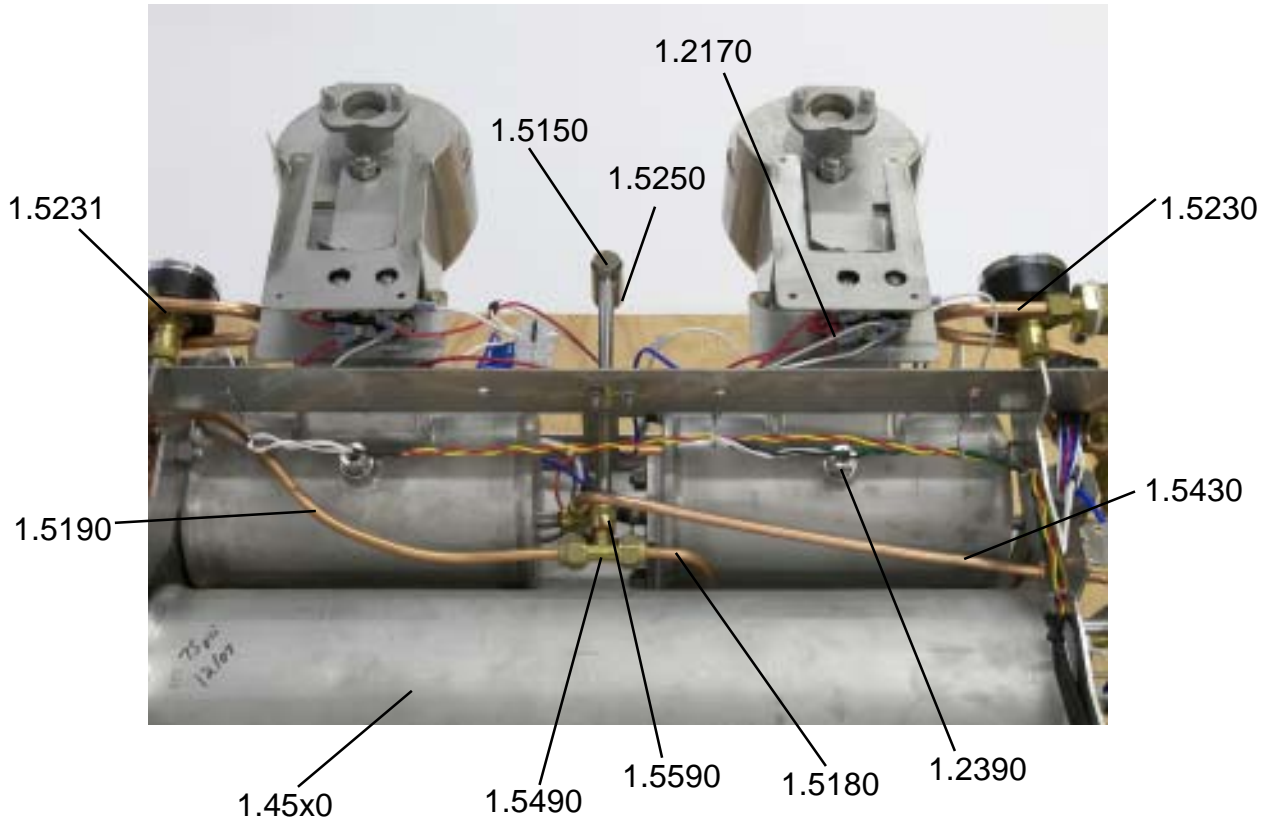
Hydraulic Components



Part number	Description
1.4070	Expansion valve
1.4100	Pressure relief valve, 3/8"
1.4110	Probe, Water Level (Auto Fill) Straight
1.4111	Level Probe, High Position, Water Level & Auto Fill
1.4112	Level Probe, Low Water Alert
1.4260	Vacuum breaker
1.4360	Vacuum breaker washer, copper (not pictured)
1.5190	Tube, 1/4" Copper with Fittings, Hot Water, 358 mm

Hydraulic Components

Top view (2 group)

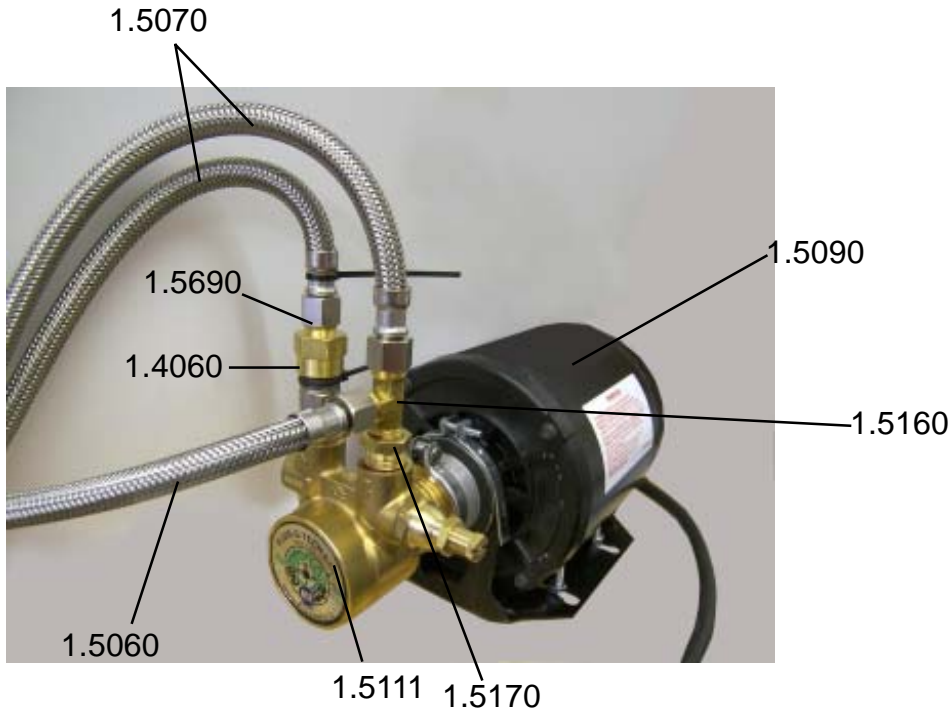


Hydraulic Components



Part number	Description
1.2170	Switch, Brew & Pump
1.2390	Probe, Temperature - 2000 ohm, 316L Stainless Steel
1.3371	Gauge, Brew Pressure, 0-300 PSI + Fitting
1.4081	Gauge, Steam Pressure, 0-60 PSI + Fitting
1.4510	Steam Tank Weldment, Stainless Steel, 3 Group, Inlet Manifold Included, Passivated
1.4520	Steam Tank Weldment, Stainless Steel, 2 Group, Inlet Manifold Included, Passivated
1.4530	Steam Tank Weldment, Stainless Steel, 1 Group, Passivated
1.5150	Spout for Hot Water Tap, No Aerator Included, Stainless Steel
1.5180	Tube, 1/4" Copper with Fittings, Cold Water, 530 mm
1.5190	Tube, 1/4" Copper with Fittings, Hot Water, 358 mm
1.5230	Tube, 5/16" Copper with Fittings, Steam Valve, Left Hand, 230 mm
1.5231	Tube, 5/16" Copper with Fittings, Steam Valve, Right Hand, 230 mm
1.5250	Aerator for Hot Water Spout, 3/4"
1.5430	Tube, 1/4" Copper with Fittings, 2nd Group Fill, 550 mm
1.5490	Fitting, Hot Water Tee, 69x6x6
1.5590	Fitting, Brass Pipe Coupling at Hot Water Spout, 3300x2

Hydraulic Components

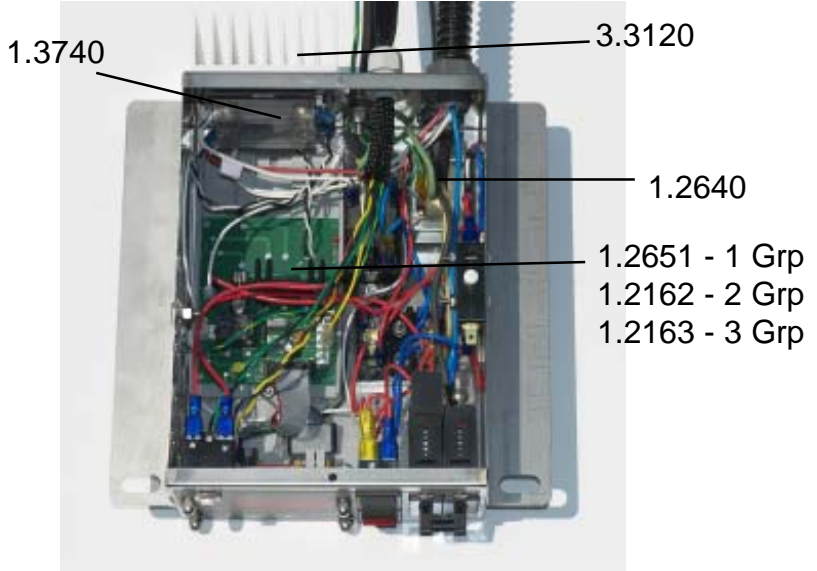
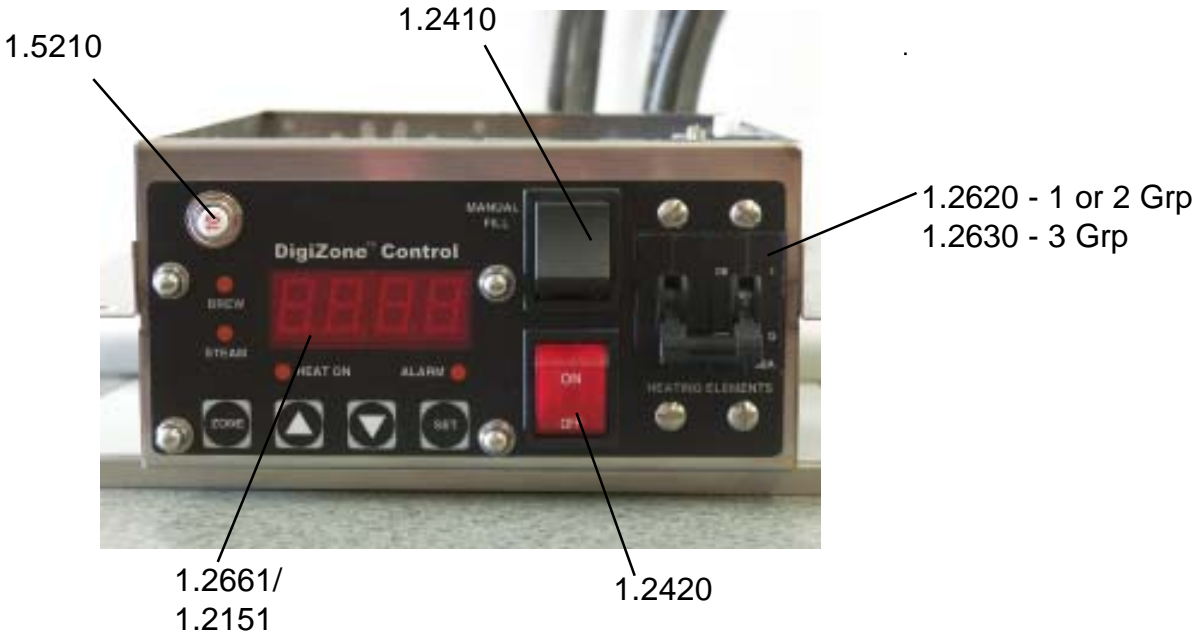


Hydraulic Components

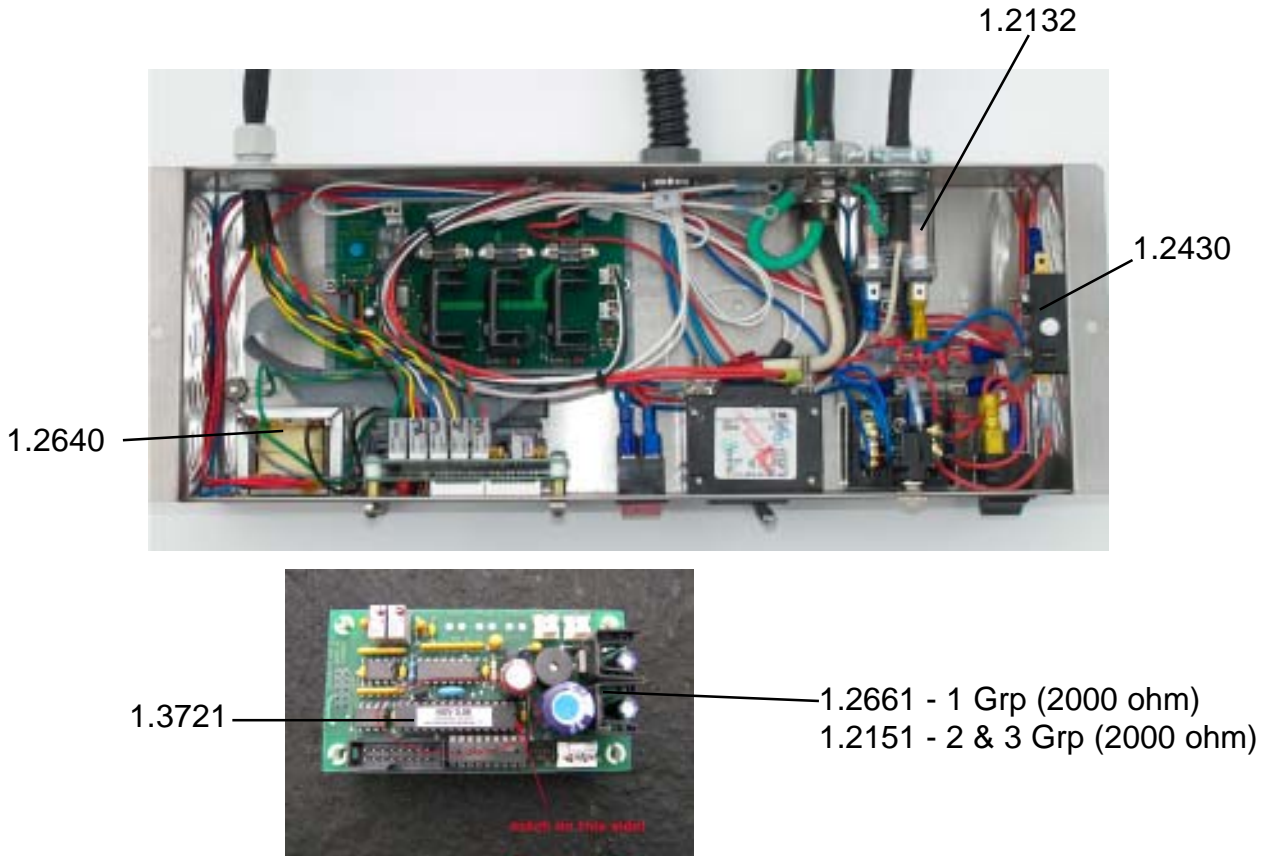


Part number	Description
1.4060	Check Valve, 3/8" Pump
1.5060	Hose, 48" Braided Stainless Steel
1.5070	Hose, 84" Braided Stainless Steel
1.5090	Motor, 110/220V, 50/60 Hz
1.5091	Motor, Emerson. 100/120V, 200/240V, 50/60 Hz
1.5111	Pump, Clamp & Fittings, Adapts to Single or Dual Hose Config
1.5160	Fitting, 3/8" comp x 3/8" comp x 1/4" pipe, 71x6
1.5170	Fitting, Pump 1/4" NPT F by 3/8" NPT M, 3220x6x4
1.5440	Ball Valve, Multi-Purpose Shut Off Valve, Synesso Standard
1.5450	Ball Valve, Steam Valve Shut-Off
1.5510	Fitting, Brass Pump Inlet 90 Degree 3/8" NPT x 3/8" Comp, 69x6x6
1.5560	Plug for 3/8" Comp Fitting, 1/2" Teflon Disk and Cap
1.5690	Fitting, Pump Outlet, 66x6x6

Electrical Components



Electrical Components



Part number	Description
1.2132	Relay, Pump Motor, 220V, Deltrol
1.2151	5 Zone Display/CPU - DigiZone Control, 2000 ohm (2 and 3 groups)
1.2162	Power Board, 2 Gp for Low Voltage Lid Mount Relays
1.2163	Power Board, 3 Gp for Low Voltage Lid Mount Relays
1.2410	Manual fill switch / momentary on/off
1.2420	On/off switch, red, lighted
1.2430	Safety switch, electronic box
1.2620	2 Pole Element Breaker, 30 amp, 1 or 2 Group Machines
1.2630	2 Pole Element Breaker, 40 amp, 3 Group Machines
1.2640	Transformer FD5-24
1.2651	2 Zone Power Board for Lid Mounted Steam Relay, 1 G
1.2661	2 Zone Display/CPU, 2000 ohm, 1 Group
1.3120	Heat Sink, Aluminum, .64", 2 & 3 Group Machines
1.3721	Computer Chip, 2K, Version 3.14 Software as of Sept 2008
1.3740	Solid State Relay, Low Voltage
1.5210	Reset Switch for Pump, 10 amps
3.3120	Heat Sink, Aluminum, 3", 1 Group

Electrical Components



1.2430



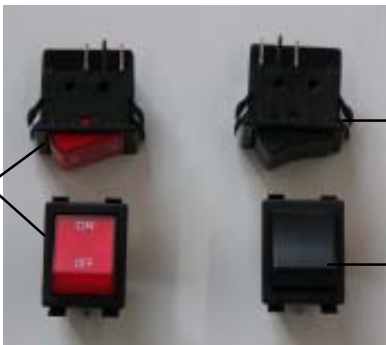
1.5210



1.2490



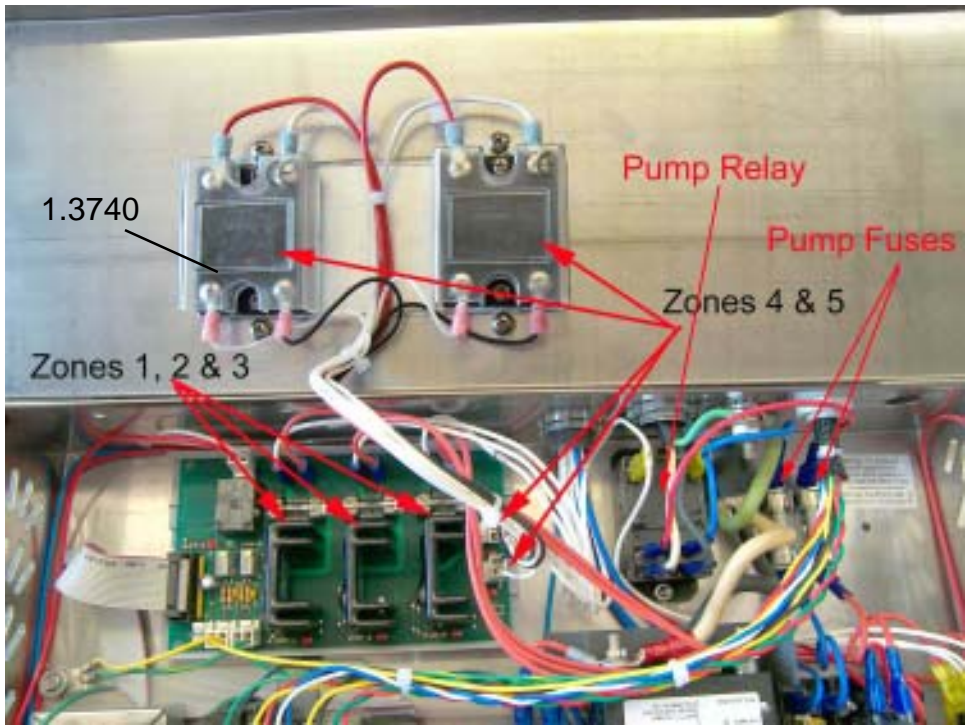
1.2170



1.2420

1.2410

1.2310



1.3740

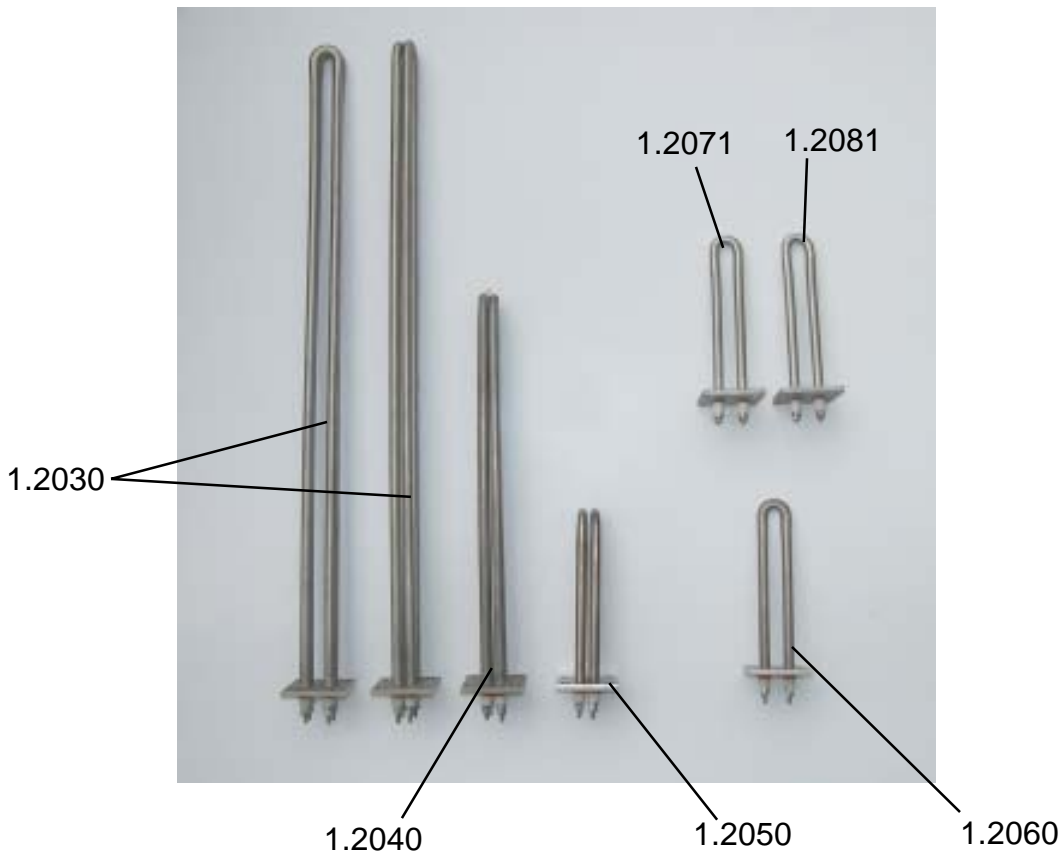
Zones 1, 2 & 3

Pump Relay

Pump Fuses

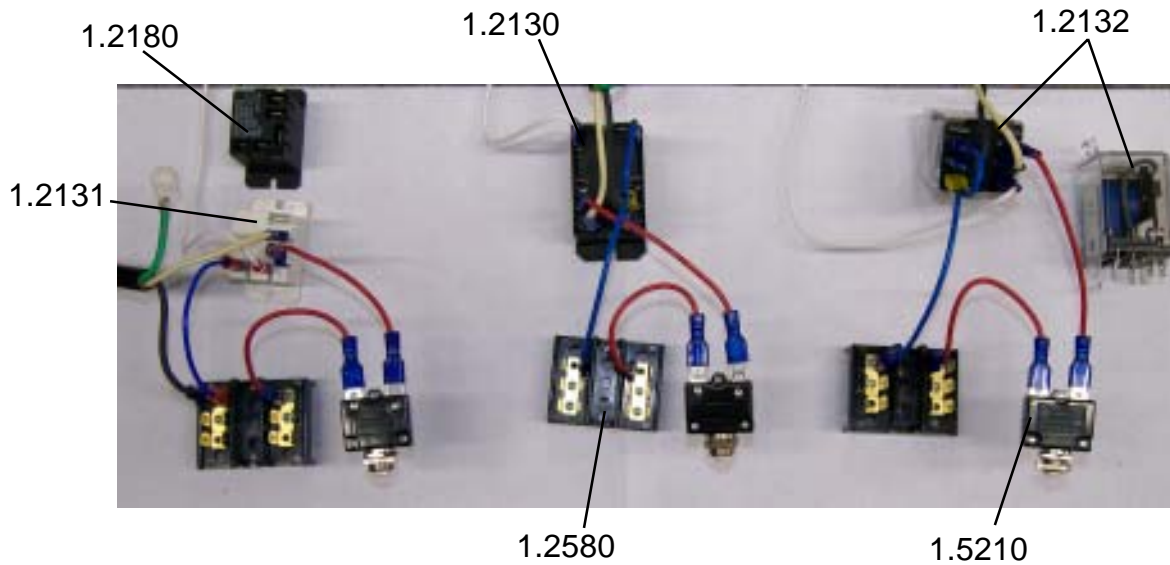
Zones 4 & 5

Electrical Components



Part number	Description
1.2030	Element, Steam Tank, 220V, 5000 Watts, Incoloy 800®, 3 Group
1.2040	Element, Steam Tank, 220V, 4000 Watts, Incoloy 800®, 2 Group
1.2050	Element, Steam Tank, 220V, 2000 Watts, Incoloy 800®, 1 Group 220 Volt Only
1.2060	Element, Brew Tank, 220V, 700 Watts, Incoloy 800®, All 220 Volt Machines
1.2071	Element, Brew Tank, 110V, 700 Watts, Incoloy 800®, 1 Group 110 Volt Only
1.2081	Element, Steam Tank, 110V, 1000 Watts, Incoloy 800®, 1 Group 110 Volt Only
1.2170	Switch, Brew & Pump
1.2310	Switch, Hot Water, Maintained On/Off
1.2410	Switch, Manual Fill, Momentary On/Off
1.2420	Switch, On/Off, Lighted, Red
1.2430	Switch, Safety for Electronics Box Lid
1.2490	Switch, Selco 250 Thermal Overload, Manual Reset
1.3740	Solid State Relay, Low Voltage
1.5210	Switch, Pump Reset, 10 amps

Electrical Components



Part number	Description
1.2130	TTI pump relay, 220v (do not use: replaced with 1.2132)
1.2131	Hasco pump relay, 220v
1.2132	Deltrol pump relay 220v
1.2180	Relay, pump motor, 110v
1.2580	Power dispersion block
1.5210	Switch, Pump Reset, 10 amps

Parts Kits



1.2442



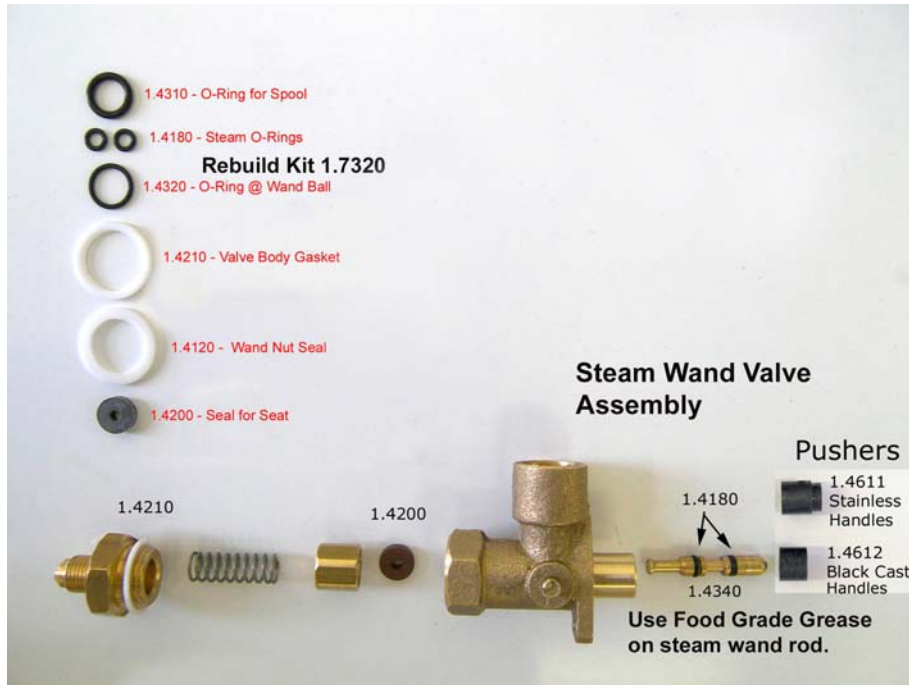
1.2443



1.2444

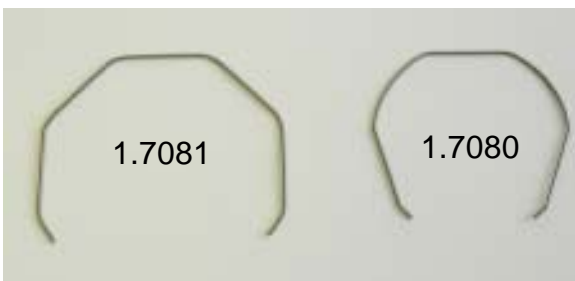


Parts Kits

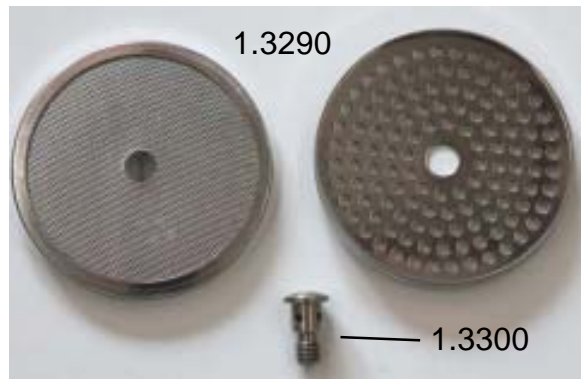


Part number	Description
1.2442	Valve Replacement Kit, Hot Water Tap, Skinner to Parker Valve (new tube is included in kit)
1.2443	Valve Replacement Kit, Steam Tank Fill, Skinner to Parker Valve (the tube shown is not included in the kit--reusable from original)
1.2444	Valve Replacement Kit, Cold Water, Skinner to Parker Valve
1.2460	Brew Valve, 220V, Rubi Seat, F Class
1.2470	Brew Valve Coil, 110V, F Class, Skinner
1.4180	O-Rings, Stem in Steam Valve & Vacuum Breaker Seal
1.4200	Cup seat gasket for Steam Valve
1.4210	Teflon Gasket for Steam Valve Body
1.4611	Steam Valve Pusher, Stainless handles
1.4612	Steam Valve Pusher, Black Cast Handles
1.5270	Sight Glass Tube (Glass Only)
1.5280	O-Ring 202, Sight Glass Rebuild, 1 per
1.5290	O-Ring 207, Sight Glass Rebuild, 2 per
1.5300	O-Ring 210, Sight Glass Rebuild, 4 per
1.5981	Sight Glass, Upper Fitting - Short Style, Stainless Steel
1.5983	Sight Glass Tye Rod, Stainless Steel
1.5984	Sight Glass Seal Washer, Stainless Steel
1.5990	Sight Glass Complete, Stainless Steel Parts, Glass and O-Rings
1.7320	Rebuild kit for Steam Valve
1.7360	Rebuild & Reinforcement Kit for Expansion Valve 1.4070
1.7400	Lucifer Brew Valve O-Ring, Qty 2 per valve
1.8280	Nuts, SS, 1/4-20 Nylock

Accessories



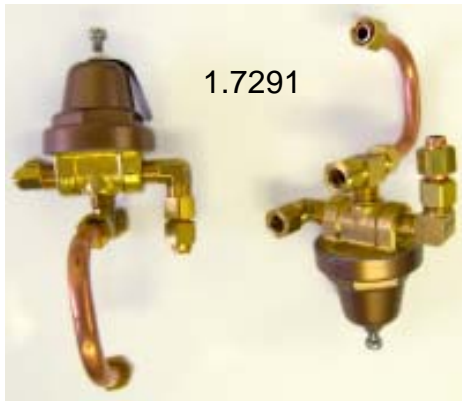
Accessories



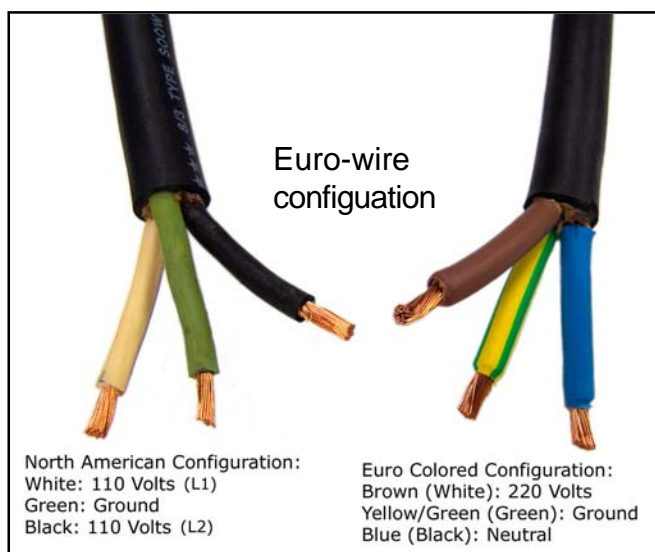
1.7770 / 1.7780

Part number	Description
1.3290	Diffuser Screen, Stainless Steel
1.3300	Diffuser Screw, Stainless Steel
1.7000	Filter Basket, Double 14 Grams, Ridgeless
1.7010	Filter Basket, Single 7 Grams
1.7020	Filter Basket, Blind (Back Flush)
1.7030	Portafilter with 15 Degree Handle Angle and Spring (basket not included)
1.7040	Double spout
1.7050	Single spout
1.7060	Tamper
1.7080	Spring, Portafilter Basket, Smaller & Thinner Spring
1.7081	Spring, Portafilter Basket, Larger & Thicker
1.7090	Filter Basket, Triple, 18 Grams, Sloped Sides, Ridgeless
1.7100	Portafilter, Bottomless (basket not included)
1.7170	Filter Basket, Triple, 21 Grams, Straight Sides, Ridged
1.7770	Synesso Shot Glass, 3 oz, Single
1.7780	Synesso Shot Glass, 3 oz, 6 Pack
T-shirt	Synesso SS T-shirt (specify size, color, and men's/women's)

Options



Options



Part number	Description
1.1920	Machine legs, 2.5" price/each
1.1930	Rubber leg pads, set of 4
1.1990	Machine legs, 4" high, NSF, price each
1.3350	Gasket, Portafilter 8 mm, Grooved Outside Edge, Synesso Standard
1.3420	Gasket, Portafilter, 8.6 mm - Non Standard
1.3430	Gasket, Portafilter, 9 mm - Non Standard
1.4170	Steam Wand Tip, 4 hole, Acorn Style (1.80mm holes, 1/8"BSP)
1.4980	Steam Wand Tip, High Pressure: Low Volume (limited availability) (1.20mm holes, 1/8"BSP)
1.5000	Fitting, Euro 3/8" Comp to 3/8" BSP
1.5010	Hose, Euro 3/8F to 3/8F, 50cm, Stainless Steel
1.5070	Hose, 84" Braided Stainless Steel
1.7180	Black Accent Side Panels and Bolts, 2 & 3 Group Machines (machine must also have Safari racks)
1.7190	Black Accent Side Panels and Bolts, 1 Group Machines (machine must also have Safari racks)
1.7291	Back Pressure Valve with Fittings and Copper Tubing
1.75x0	Safari rack, Cup Retaining Rail, x Group (1.7510 = 1 Group rail, etc.)