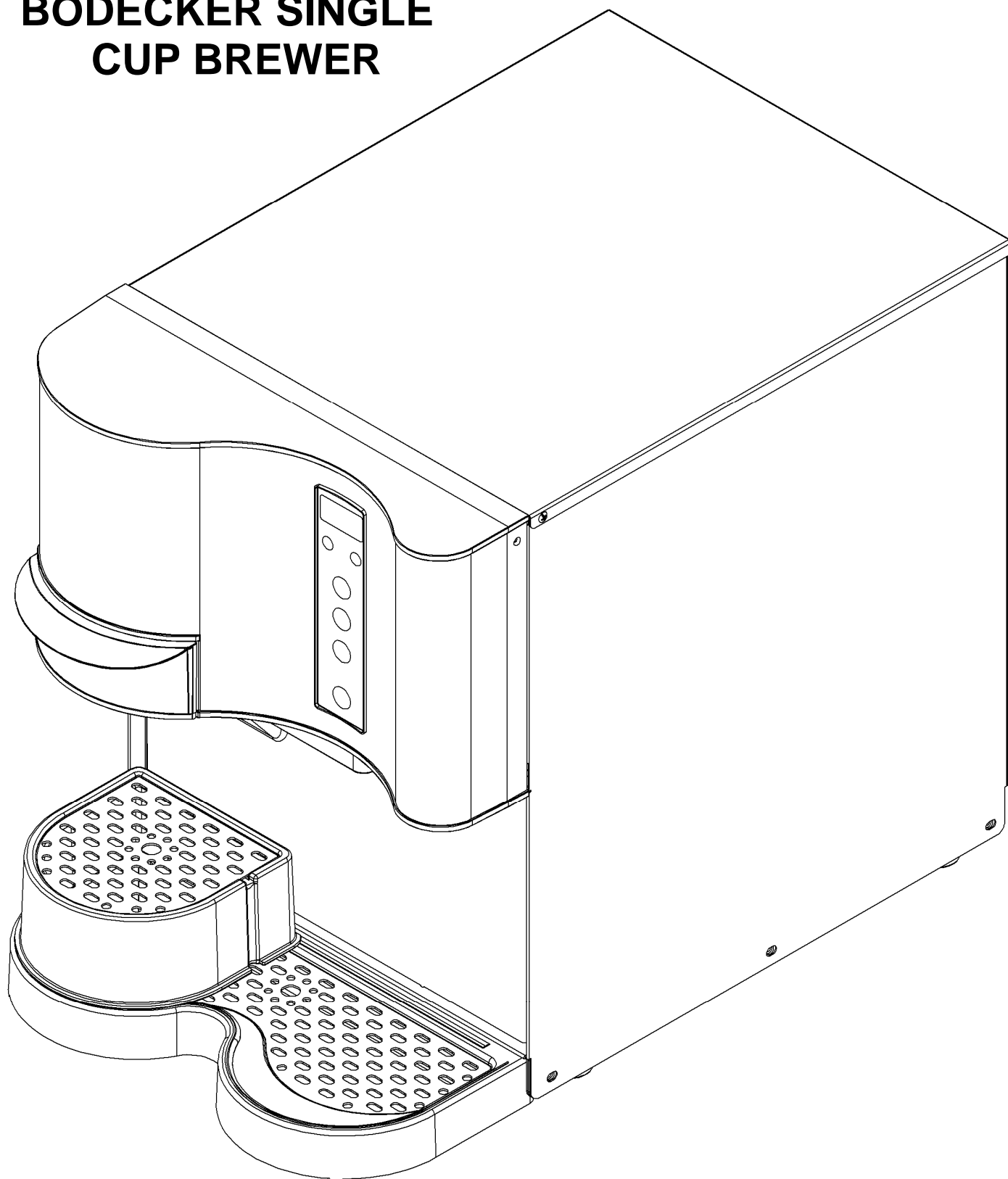


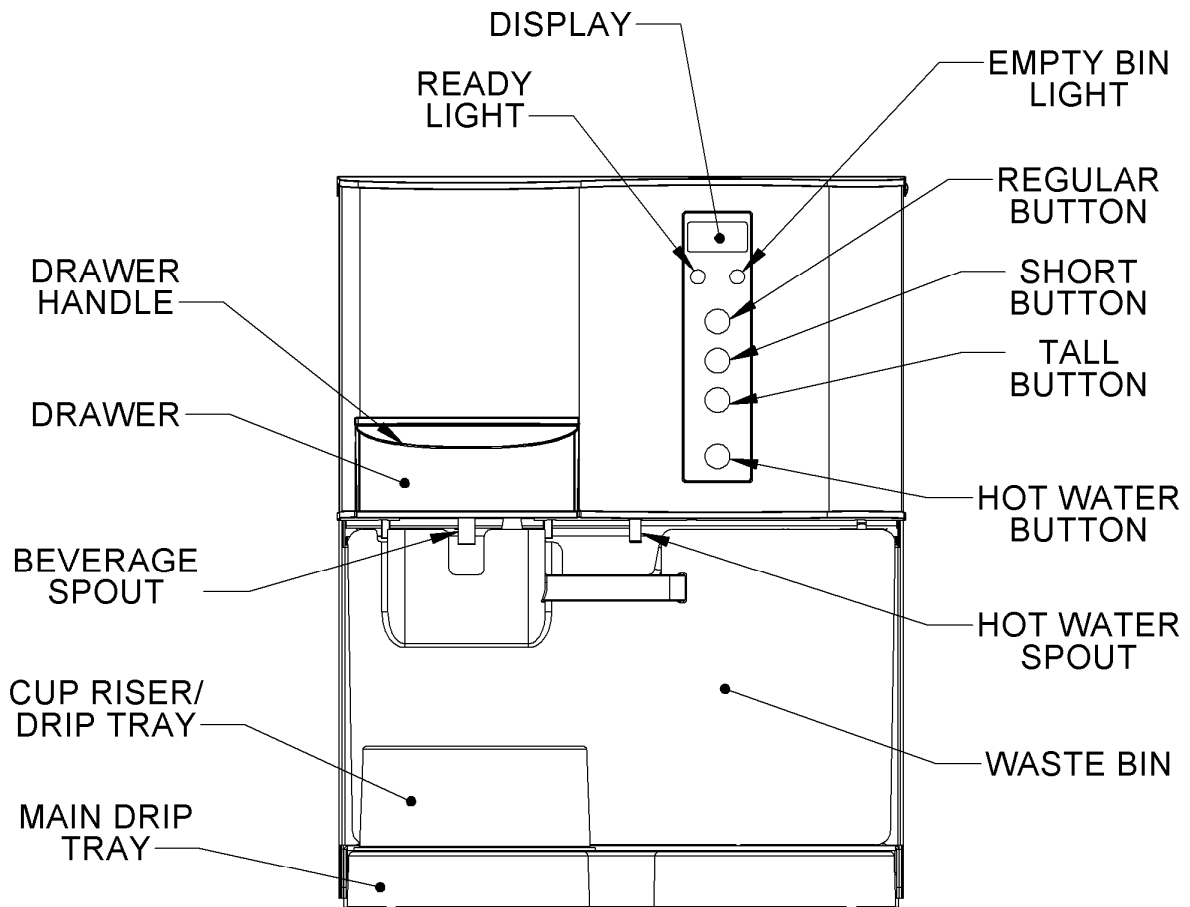
BODECKER SINGLE CUP BREWER



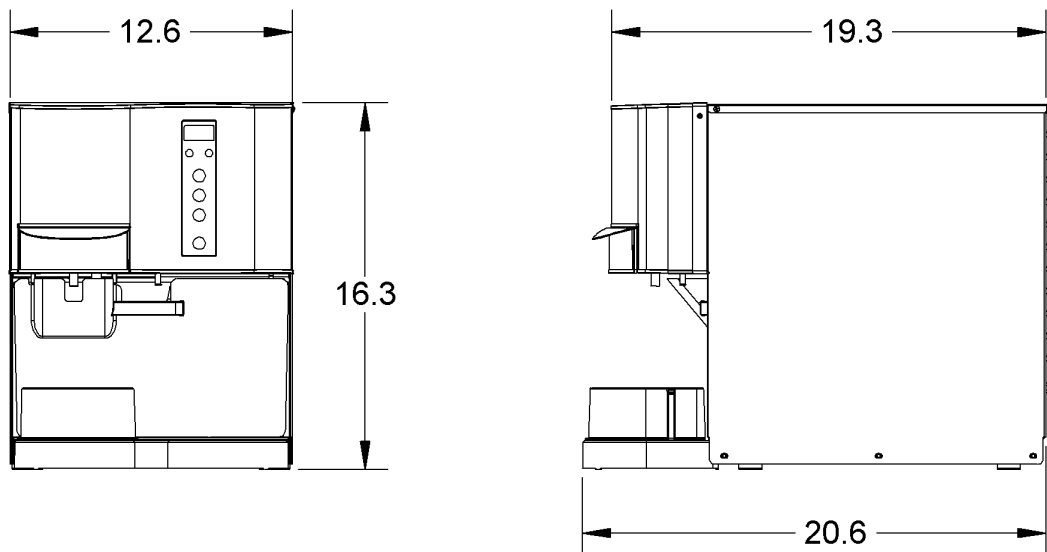
ELECTRICAL RATING

Available as 120 V, 1400 W, 11.7 A for Canada/US or as 120 V, 1750 W, 14.6 A for US only

GENERAL FEATURES DIAGRAM



DIMENSIONAL DIAGRAM



PLUMBER'S INSTALLATION INSTRUCTIONS

- 1) Flush water line before installing brewer. Brewer should be connected to COLD WATER LINE for best operation.
- 2) Water pressure should be at least 20 lbs. For less than a 25 ft run, use 1/4" copper tubing and connect to 1/2" or larger water line. For longer runs, use 3/8" copper tubing & connect to 1/2" or larger water line and provide an adapter fitting for connection to the brewer.
- 3) If installed with saddle valve, the valve should have a minimum of 1/8" port hole for up to 25 ft run, and 5/16" port hole for over 25 ft runs.
- 4) Manufacturer strongly recommends use of a water filter to reduce scale and sediment as well as to provide for a better tasting beverage. Connect water line from filter to the flow control attached to the elbow extending from the back of the brewer. Manufacturer recommends connecting to copper tubing.

INSTALLATION INSTRUCTIONS

WARNING: - Read and follow installation instructions before plugging or wiring in machine to electrical circuit. Warranty will be void if machine is connected to any voltage other than that specified on the name plate.

- 1) Make sure that the On/Off switch located on the left rear of the brewer is turned off.
- 2) Plug or wire brewer to appropriate voltage circuit as indicated on serial tag. Turn the switch located on rear of unit to the on position to supply power to the unit. On position is marked with an I and off position is marked with an 0. The tank will begin to fill. The brewer has a probe system mounted on the tank lid. This probe is designed to sense the water level in the tank. The fill solenoid will shut off when the tank has filled.
- 3) Once the tank has filled, the unit will activate the tank element and the tank will begin to come up to operating temperature. The ready light will come on when the brewer gets close to the set point. The heater will continue to heat for an additional minute or two and then shut off. The heater will then cycle on and off periodically to maintain proper temperature as per the programmed value.
- 4) If your brewer is not set up to the parameters you require, go to the BREWER PROGRAMMING section to modify as necessary.
- 5) In higher altitude locations (5000 feet above sea level) the temperature may have to be adjusted lower to prevent boiling. See the BREWER PROGRAMMING section to make adjustment.
- 6) Ensure waste bin is empty and in place. Ensure drip tray is in place at the front of the brewer centered below trash bin.
- 6) **CAUTION:** The water faucet will dispense hot water when the hot water button is depressed except during a brew cycle.

FEATURES

This next generation Bodecker brewer has a number of improvements over previous models. The unit incorporates a DC motor on the brew mechanism to raise and lower the pad which serves to both puncture and seal the product capsule. The DC motor allows automatic reversal of the motor if a jam should occur allowing the operator to clear any obstruction and preventing a service call.

A variable speed gear pump, flow control, and a flow meter allow for consistent volume delivery across a wide range of products including tea, coffee, hot chocolate, and soup. The pump speed and flow control are synchronized to bring the product delivery times as close together as possible. The flow meter then tracks water usage to account for any remaining variance and then adjust the brew time automatically as required for each brew cycle.

The brewer incorporates an “intent to brew” system to minimize the risk of the water fill valve running when the unit is unattended. This could prevent the unit from continually refilling the water tank if a leak were present for instance. The probe system shuts down shortly after a brew or hot water dispense. Subsequent activity, such as opening the capsule drawer or pressing the hot water button will wake up the probe circuit for a period of time.

The brewer also has two optional power save modes that allow either a partial or full power down of the tank heater after a programmable amount of time has elapsed. Note: After 72 hours of no activity the unit will automatically go into a full power down mode. The unit will wake up when it detects any attempt to operate it. Unit will then fill tank and heat up to normal temperature. The 72 hour timer will also be reset.

BREWER OPERATION

The brewer has a green ready light on the front control panel to indicate it is ready to brew. If the brewer is in an energy saving mode, Sav will be displayed and brewer may be woke up by opening capsule drawer or pressing a button. If the brewer is otherwise operating normally it will consider the following criteria to determine if it is ready to brew. The table below explains these criteria. A complete list of errors can be found in SYSTEM MESSAGES.

Message Displayed	Cause	Action
HEAting	Tank temp to low	Wait for green light
bin	Bin missing	Replace bin
bin, empty bin light also flashing	Bin count exceeded	Empty bin (5 secs minimum required to reset counter. Empty bin light will go out)
None, no ready light	Tank filling at power up	Wait for tank to fill
CUP	Drawer open	Close capsule drawer

Hot Water Use

Place cup on the drip tray below the hot water dispense spout. The hot water dispense spout is located near the center of the brewer and has a red tube extending down.

Press and hold the hot water button. Release the button when the desired volume has been dispensed.

Beverage Preparation

Place cup on the drip tray below the capsule drawer. The dispense spout has a black tube extending down from the drawer.

Use the handle to open drawer. Any previously brewed capsule will be ejected into waste bin as drawer is opened. Place selected product into the U-shaped drawer opening. Slide drawer closed. Ready light should come on.

Depress the corresponding button for the desired beverage size. Brewer will dispense product into cup.

Cleaning

Empty drip tray and rinse daily. Wash with mild soap and water if required.

Waste bin should be emptied when prompted, or daily if bin counter is turned off. Wash with mild soap and water as required.

Open drawer and wipe exposed surfaces as required.

Wipe exterior brewer surfaces down as required.

BREWER PROGRAMMING - Version 0br/r01

The brewer programming menu allows setting of various operational characteristics of the Bodecker brewer. Programmable items include settings for water temperature, pump speeds, power mode, etc. Separate programming steps detailed later allow setting the individual brew profile for each button. The section below describes the function and procedure for setting each item. To enter the brewer programming menu, press and hold the “Hot Water” button while turning on the machine. The current firmware revision number will display, such as r0d.

Throughout the programming menu the software first presents a label screen to indicate the item being programmed. Subsequent screen(s) allow setting of the value for that particular item. As an example, the first programmable item is the setting for the tank temperature. tP is displayed as a label for the hot water temperature parameter. Pressing the hot water button will advance to the next screen to show the current setting. Using the regular and short buttons will then increment and decrement the value respectively. A programming table follows the descriptive programming instructions below and will be easier to use once the operator is familiar with the programming process.

tP: This is the tank temperature setting that will be used to maintain the hot water in the tank when the unit is in a normal operational mode. Press the “hot water” button to display the current setting. The temperature may be set at any value in the range of 180-203 degrees Fahrenheit. The default is 200 degrees F. Use the regular and short buttons to increment and decrement the value respectively.

Pressing the “Tall” button while the set point is displayed will show the current tank temperature. Pressing repeatedly will toggle between the set point and the actual temperature detected. In order to distinguish between the set temperature and the actual temperature, the real temperature display has all three decimal points illuminated. Press the hot water button to advance to the next programmable item.

PSA: This is the power save mode that the machine is currently set for. Press the hot water button to display the current setting. The default is OFF. Use the regular and short buttons to increment and decrement the value respectively. Available power modes and their corresponding screen display are shown below. After selecting the desired mode, press the hot water button to advance to the next programmable item.

OFF – Turns off power saving feature. The brewer maintains the tank at the temperature set point at all times. Note: After 72 hours of non use, the tank heater will turn off.

Prt – The brewer will go into a partial power save mode after the user selectable time has been reached with no brewer activity. The tank temperature will be set to 180 degrees until one of the 4 buttons on the brewer is pressed. When this mode is selected the right most decimal point in the display is on.

FUL - The brewer will go into a full power save mode after the user selectable time has been reached with no brewer activity. The tank heater will be turned off until one of the 4 buttons on the brewer is pressed. When this mode is selected the left most decimal point in the display is on.

PSt: - This setting is the power save time. This is the amount of time that the brewer will continue to operate in the normal heater mode before entering the selected power save mode. This entry will not be displayed if the Power Save function has been turned off. Press the hot water button to display the current setting. The power save time may be set from 1 to 4 hours in 1-hour increments. The default is set to 4 hours. Use the regular and short buttons to increment and decrement the value respectively. Press the hot water button to advance to the next programmable item.

bEEPER: - This selection is for setting the beeper volume and tone. Currently there are 14 selections including OFF, and numbers 1 to 13. The default is 13. Press the hot water button to display the current setting. Use the regular and short buttons to change the value until the desired sound level is programmed. Press the hot water button to advance to the next programmable item.

dC P: - This is the pulse-width modulation (PWM) setting that is applied to the DC water pump motor. In this entry the user may set the DC pump PWM. Press the hot water button to display the current setting. A higher PWM equates to more power applied to the pump. Use the regular and short buttons to increment and decrement the value respectively. The PWM may be set from 30 to 60.

CAL: - The calibration value is the volume of water delivered during a 30 second dispense. Brewed volume will be unaffected by this value since a flow meter is used to track the actual water used. This value is only used when calculating the time for the brew countdown display. The amount of time for each brew cycle may fluctuate slightly due to variances in different types of beverage products and other factors. If flow meter quits functioning, this value will be used to calculate the brew times as a backup to allow the brewer to continue to operate. Volume will not be as accurate without the flow meter so this should be serviced as soon as possible. See Error Indicators at the end of this section. (Note: an adjustable orifice flow control is used between the pump and the capsule to create some backpressure against the pump. This prevents the cycle from being too short for proper extraction. Simply slowing the pump would cause irregularities in volume.)

Air: - This setting is used to set the air pump speed in the range of 3 to 5. The default is 4. Press the hot water button to display the current setting. Larger numbers are faster than lower numbers. Use the regular and short buttons to increment and decrement the value respectively. Press the hot water button to advance to the next programmable item.

Air t: - This setting is used to set the air pump on time at the end of a brew cycle. Valid settings are from 4-10 seconds in 1 second increments. The default is 4. Press the hot water button to display the current setting. Use the regular and short buttons to increment and decrement the value respectively. Press the hot water button to advance to the next programmable item.

Pod: - In this entry the user may set the number of pods the brewer will hold before signaling that the bin is full. The range is from 10 to 100 pods, with the default at 35. Setting the pod count under 10 turns off the count so the bin full alarm will never go off. As with most of the entries the Regular button and the Short button will change the Pod Count threshold, incrementing or decrementing by one. Pressing The Hot Water button will exit.

Continued on next page

To perform the calibration function, place a 20 oz or larger container in position to be brewed into. Place a coffee capsule into the capsule drawer of the brewer. When CAL is displayed, press the hot water button to display the current cal value. Next press the tall button to start the calibration cycle. The brewer will run a 30 second water dispense cycle plus the programmed air cycle. Once the cycle completes, adjust the displayed value to match the dispensed volume in tenths of an ounce. The range for the calibration volume is 70 to 110 tenths of an ounce. The default is 9 ounces and is entered as 90 tenths of an ounce. Use the regular and short buttons to increment and decrement the value respectively. Press the hot water button to advance to the next programmable item.

FLO AdJUST: - This setting is used to fine tune the volume dispensed. Valid values are 20 to -20 and the default value is 0. Press the hot water button to display the current value. The value entered represents the amount of liquid in thousandths of an ounce seen for one tick of the flow meter count. If the value programmed for a brew cycle consistently comes up short, entering in a positive value will increase the number of pulses required to satisfy the volume. This will result in more volume. Enter in a negative value if the volume consistently comes up high. This will decrease the volume. Use the regular and short buttons to adjust the value. Press the hot water button to advance to the next programmable item.

FILtEr SELEct: - This entry allows the user to select the filter size for the filter used on the inlet for the water. Choices include OFF, and 500 – 3000 gallon in 250 gallon increments. Note: Display is in tenths of a gallon so 500 displays as 50000. GAL, 1000 GAL and 1500 GAL. The default is OFF. Press the hot water button to display the current value. The value selected sets the counter for the filter warning. Use the regular and short buttons to increment and decrement the value respectively. Whenever water is dispensed the counter is incremented to account for the water used. When the counter is above 90% of the capacity of the chosen filter a warning message, “REPLACE WATER FILTER”, is displayed in place of the “READY” message. To reset the counter the user must enter the programming menu and enter the **RESEt FILtEr** entry described below. If the filter selection is OFF then the following two entries are not available. Press the hot water button to advance to the next programmable item.

FILtEr LEFt: - This item is informational only and can not be changed. Press the hot water button to display the remaining filter capacity. The number of gallons left before the filter should be replaced will scroll across the screen. Press the hot water button to advance to the next programmable item.

rESEt FILtEr: - This item allows resetting the filter capacity when changing the water filter. Press the hot water button to display the reset message, “PrESS tALL tO rESEt”. Press the tall button to reset the filter and to exit this item.

SRV – This screen introduces the service mode submenu. Screens following are for service functions. To bypass the service functions and skip to the end, press the regular button.

CyCLE COUnt – Press the hot water button to display the accumulated brew cycles. The number will scroll across the display. Press the hot water button to advance to the next service menu item.

rESEt tO FACtOry dEFAULtS – This function is used to return all programmable settings to factory defaults. Note: Factory defaults may not be the same values that machine was shipped from the factory set at since each machine is adjusted as required during factory test. Press the hot water button and reset message will display, “PrESS tALL bUttOn tO rESEt”. When displayed, press the tall button and values will be changed. Press the hot water button to advance to the next service menu item.

drAin LinE – This function allows activation of fill valve, faucet valve, and lowers motor for the purpose of draining the water lines after draining the tank. Press the hot water button to display the “rUn” prompt. Ensure the tank has been drained and suitable containers are in place below the 2 dispense nozzles to catch any residual water that may be expelled from the nozzles. When prompt is displayed, press the tall button to actuate the function. Low pressure air may be blown into the inlet fitting on the back of brewer to help drain the lines. Press the hot water button to advance to the next service menu item.

FLOSEnSOR tEST – This function may be used to validate that the flow meter is functioning and that the control board is receiving the input. Press the hot water button to display the last flow meter count. The unit will brew during this test so you will need to place a capsule into the brewer and a cup in place below the brew nozzle. When the number is displayed, press the tall button to start a brew cycle. The display will change as water is dispensed. Dependent on brewer settings, the counter will increment approximately 5 - 9 counts for each ounce dispensed. Press the hot water button to advance to the next service menu item.

CUrrEnt tP – This function is used to display the current tank temperature. Press the hot water button to display the current tank temperature. Press the hot water button to advance to the next service menu item.

PiErCER tEST – This function is used to rotate the motor so that the piercer position switches may be tested. Press the hot water button to advance to the switch display. The display will indicate the up, down, or both switches are on or off. For example, the display will show “1:U-“ if the up switch is activated, such as when the mechanism is in the home position. Use the regular and short buttons to raise and lower the piercer as desired while observing the display to verify proper switch function. Press the hot water button to advance to the next service menu item.

tEST CUP And bin SEnSORs - This function is used to verify the functionality of the cup and bin switches as well as to make any adjustments to those items. Press the hot water button to advance to the switch display. The display will indicate whether the bin, cup, or both switches are activated. For example, the display will show “2:bC“ if both the bin and cup switch are active, such as when the drawer and bin are both in their proper position. Open and close brewer drawer to verify switch is opening and closing. Likewise remove and reinstall the bin to verify that the “b” indicator on display comes on and goes off at the proper time. Press the hot water button to advance to the next service menu item.

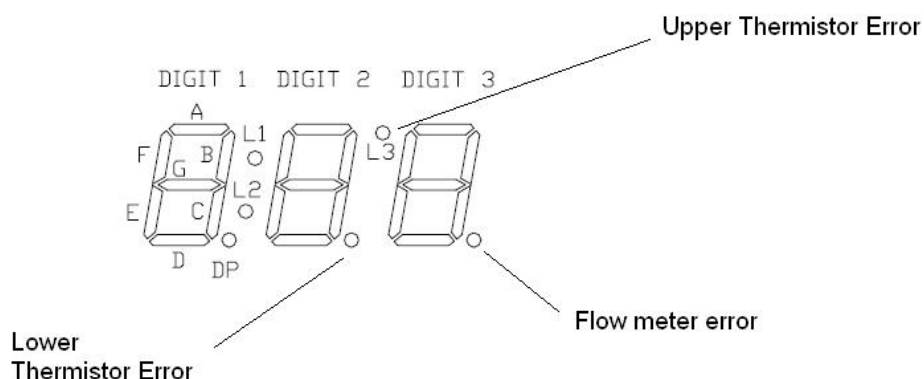
tEST ProBES – This function allows the probe status to be observed. Press the hot water button to display the reported probe status. The display will indicate whether the low, high, or both probes are in contact with the water. For example, the display will show “3:LH” if both probes are in the water. Press the hot water button to advance to the next menu item.

END: - Press the hot water button when displayed to exit the service menu.

END: - Press the hot water button when displayed to exit the programming mode and to save the modified parameters.

Note: For navigation purposes it is possible to use the regular and tall buttons to move forward and backwards through the programmable items noted above. Use these buttons when any of the labels shown above are displayed to jump forward or backwards to quickly get to the area to be programmed.

NEW ERROR INDICATORS – The following discreet error messages are designed to indicate that there is a problem with the brewer but will not alarm user resulting in an emergency service call. If the flow meter circuit experiences a problem, the indicator as shown below will display but the brewer will still operate. The calibration data will be used to estimate the brew time which may result in a short or long dispense depending on the product. The brewer now utilizes a dual thermistor which allows having a built-in backup. The lower thermistor is normally used to determine temperature. If that thermistor fails, the upper thermistor will be used allowing the unit to continue to operate. When the operator services the account, these errors provide the information while allowing them to schedule maintenance at a later time if they are unable to fix immediately.



BREW VOLUME ADJUSTMENT

Each of the 3 brew buttons are individually programmable for the volume to be delivered. To program a button, hold down the button to be programmed while turning on the brewer. Continue to hold the button until the programmed value is displayed.

BREW VOLUME: - This entry sets the volume in tenths of an ounce for the selected button. The buttons may also be turned off. Valid values are OFF, and from 20-160 tenths of an ounce. The default is set to 80, 70, and 90 tenths of an ounce for regular, short, and tall respectively. Use the regular and short buttons to increment and decrement the value respectively. Press the hot water button to save the value and exit the button programming.

BREWER PROGRAMMING TABLE (table on next page)

To enter the brewer programming menu, press and hold the “Hot Water” button while turning on the machine. The current firmware revision number will display. See descriptive text in previous section for more details about an item.

Throughout the programming menu the software first presents a label screen to indicate the item being programmed. Subsequent screen(s) allow setting of the value for that particular item. Pressing the hot water button will advance to the next screen to show the current setting. Using the regular and short buttons will then increment and decrement the value respectively.

BREWER PROGRAMMING TABLE

Program Item	Description	Settings/Value	Default	Note
tP	Tank Temperature	180-203	200	
PSA	Power save mode	OFF, Prt, FUL	OFF	Prt = 180 Deg, FUL = turn off
PSt	Power save time	1, 2, 3, 4 hours	4	No impact if mode is OFF
bEEPEr	Beeper volume	1-13	13	
dC P	DC water pump speed	30-60	30	
CAL	Approx water dispensed in 30 sec calibration cycle	60-110	60	Approx water dispensed in 30 sec calibration cycle
Alr	Air pump speed	3-5	4	
Air t	Air time to run	4-10 seconds	5	
Pod	# pods until bin full	10-100	35	
FLO AdJUST	Used to fine tune brew volume dispensed	20 to -20	0	Positive increases and negative decreases volume.
FiLteR SELEct	Select filter capacity for installed water filter	OFF, 500-3000 gal, 250 gal incr	OFF	Current software displays units in .0001 gal increments.
FILteR LEft	Remaining filter capacity	Non settable	None	
rESEt FiLteR	Allows resetting filter counter	PrESS tALL tO rESEt	N/A	Press tall when message displays to reset counter
SRV	Service submenu label	N/A	N/A	Information only. To skip to end, press regular button while displayed
CyCLE COUnT	Displays total brew cycles	Non settable	N/A	Scrolls across screen
rESEt tO FACtOry dEFAULtS	Allows return of all programmable settings to defaults	PrESS tALL bUttOn tO rESEt	N/A	Press tall when message displays to reset counter. Defaults do not necessarily equal as left factory.
drAin LinE	Allows draining lines	rUn	N/A	EMPTY TANK FIRST. SEE BREWER PROGRAMMING.
FLOSEnSOR tESt	Test flow meter functionality	Non settable, displays value	Last read	SEE BREWER PROGRAMMING.
CUrrEnt tP	Display current tank temperature	Non settable	N/A	
PiErCEr tESt	Use to test position switches of mech	1:U-, 1:-L, 1:UL	N/A	Use regular and short buttons to move piercer. Observe display.
tESt CUP And bin SEnSORs	Use to test cup and bin switches	2:b-, 2:-C, 2:bC	N/A	Open/close drawer or remove bin and observe display.
tESt PrObES	Test probe circuit	3:L-, 3:-H, 3:LH	N/A	Shows probes in water contact.
END	Exits service submenu	N/A	N/A	
END	Exits programming and saves all values			

Note: For navigation purposes it is possible to use the regular and tall buttons to move forward and backwards through the programmable items noted above. Use these buttons when any of the labels shown above are displayed to jump forward or backwards to quickly get to the area to be programmed.

SYSTEM MESSAGES

Error Messages (May Require Service)	Meaning	Possible Cause
UtH	Upper thermistor error *	1 of the 2 thermistors bad
LtH	Lower thermistor error *	1 of the 2 thermistors bad
E2	Bad Thermistor	Check/Replace Thermistor
E3	Heater Run Time Exceeded	Check Heater Circuit: Element, Relay, Limit Thermostat, Thermistor
E4	Fill Time Out	Check Water Supply, Filter, or Valve
E11	Overheat Error	Check Heater Circuit or Board
LOEr	Lower Cam Switch Not Seen	Check Switch, Motor, or Cam
UP	Upper Cam Switch Not Seen	Check Switch, Motor, or Cam
mOtEr	Brew mech motor feedback error	Motor harness connections or motor
Other Messages		
bin	Bin Missing	Replace Bin
bin, "Empty Bin" light flashing	Bin Count Reached	Empty Bin, Allow Reset (5s), Replace
CUP	Drawer Open	Close Drawer
HEAtIng	Tank Temperature Out of Range	Wait for Ready Light
SAV	Brewer in Power Save Mode	Press Button or Open Drawer to Wake
CHAngE FILtEr	Filter Installed has Reached 90% of Capacity	Request/Replace Water Filter Soon
Lo H2O	Water below lower probe. Brewer will wake with button press or drawer activity.	Evaporation or leak. Probe circuit error.

* Lights an indicator dot on display. See "NEW ERROR INDICATORS" in previous section.

Some errors may be caused by an interim condition or unusual circumstance and may not reappear again, such as water to building being turned off. You may turn power switch on left rear off and then back on again to reset the error. If the error continues, call for service.

CONTACT INFO

For Additional Products or Services Contact:



2045 Midland Avenue,
Toronto, Ontario
M1P 3E2

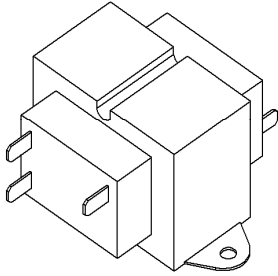
Phone: 416. 293. 0591
Fax: 416. 293. 2980
Toll Free: 877. 293. 3330

For email inquiries, please email:

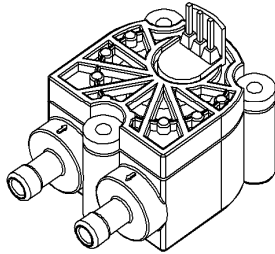
todd@bodeckerbrewed.com
orders@bodeckerbrewed.com
technical@bodeckerbrewed.com

REPLACEMENT PARTS ILLUSTRATIONS

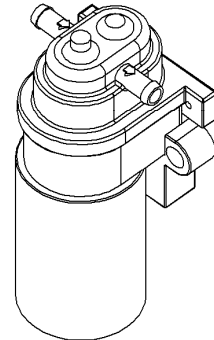
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TRANSFORMER



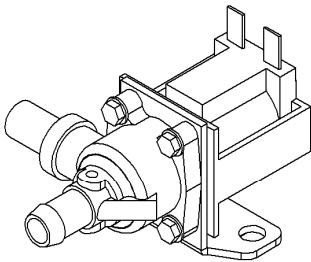
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FLOW METER



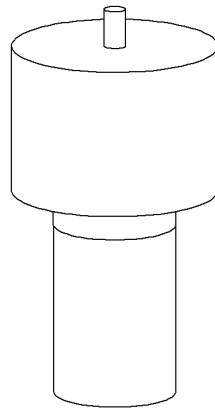
PN 109937
WATER PUMP ASSY



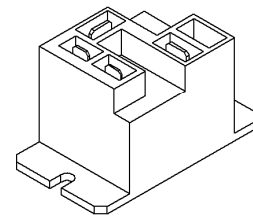
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DUMP VALVE



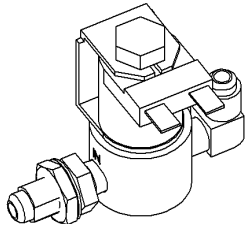
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AIR PUMP ASSY



PN 110958
HEATER RELAY



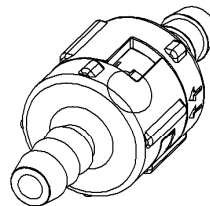
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INLET VALVE ASSY



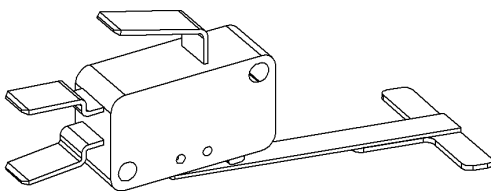
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THERMISTOR ASSY



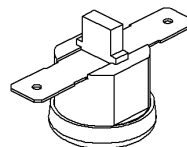
PN 202166
CHECK VALVE



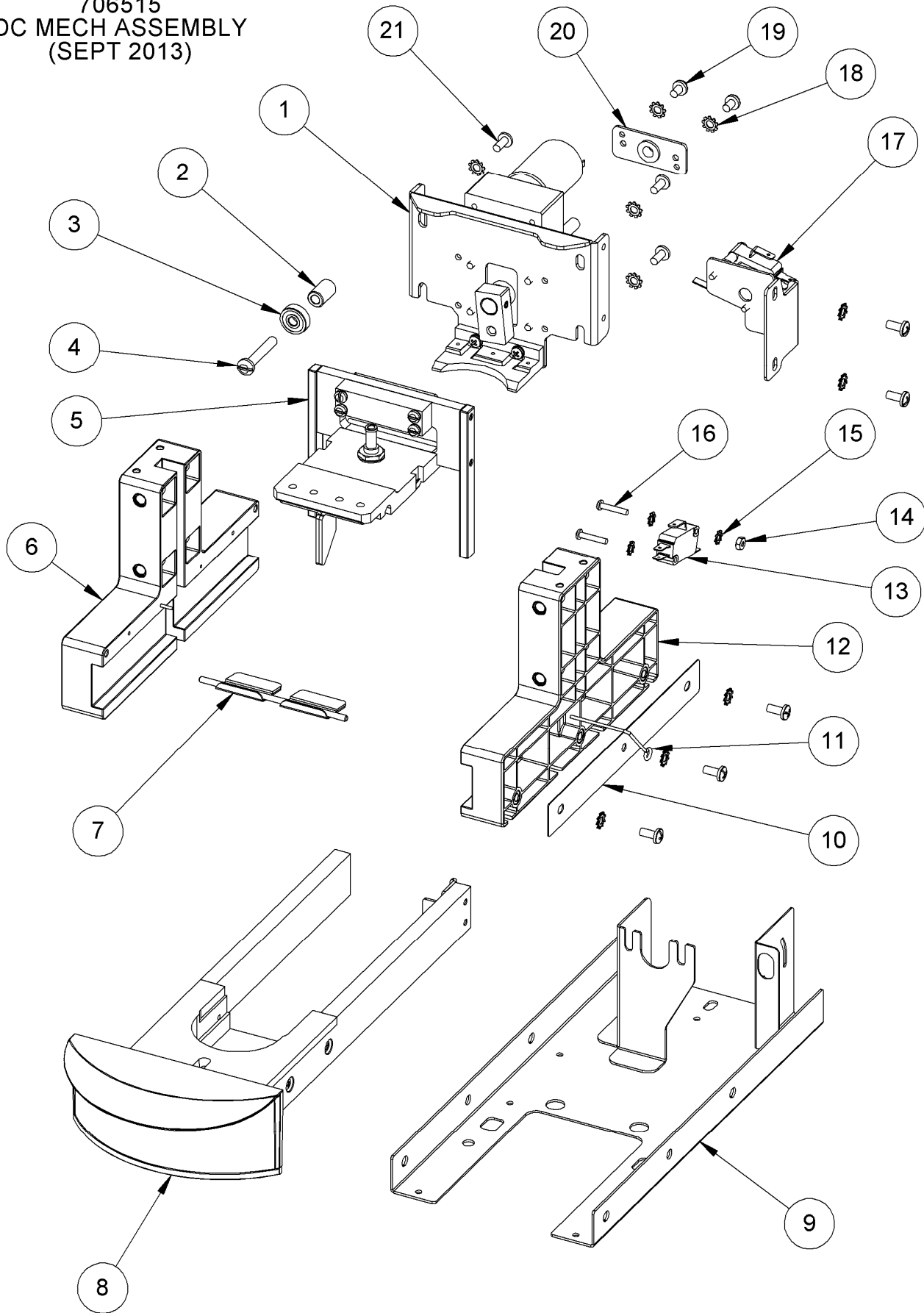
PN 100747
BIN SWITCH ASSY



PN 111592
LIMIT THERMOSTAT

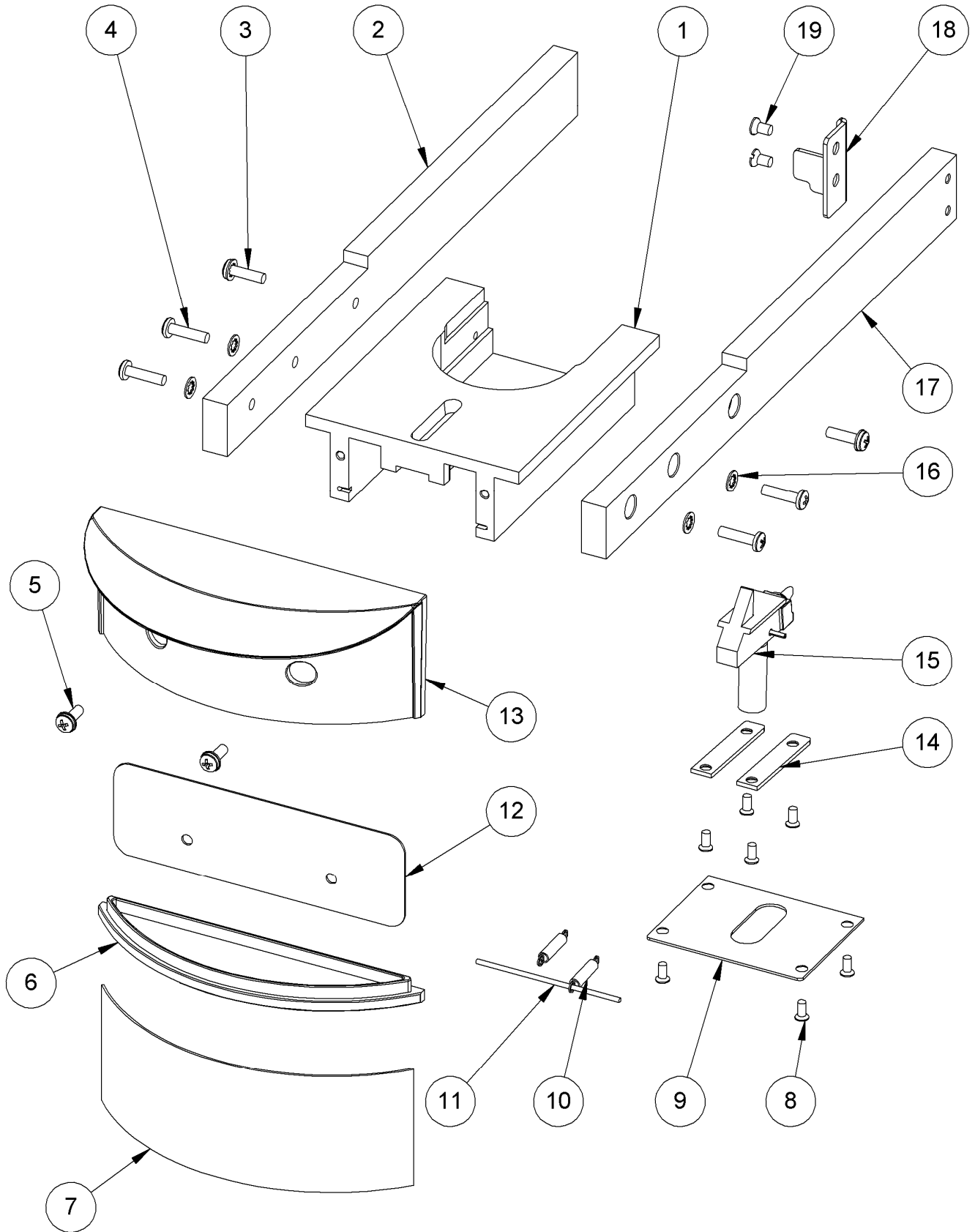


706515
DC MECH ASSEMBLY
(SEPT 2013)



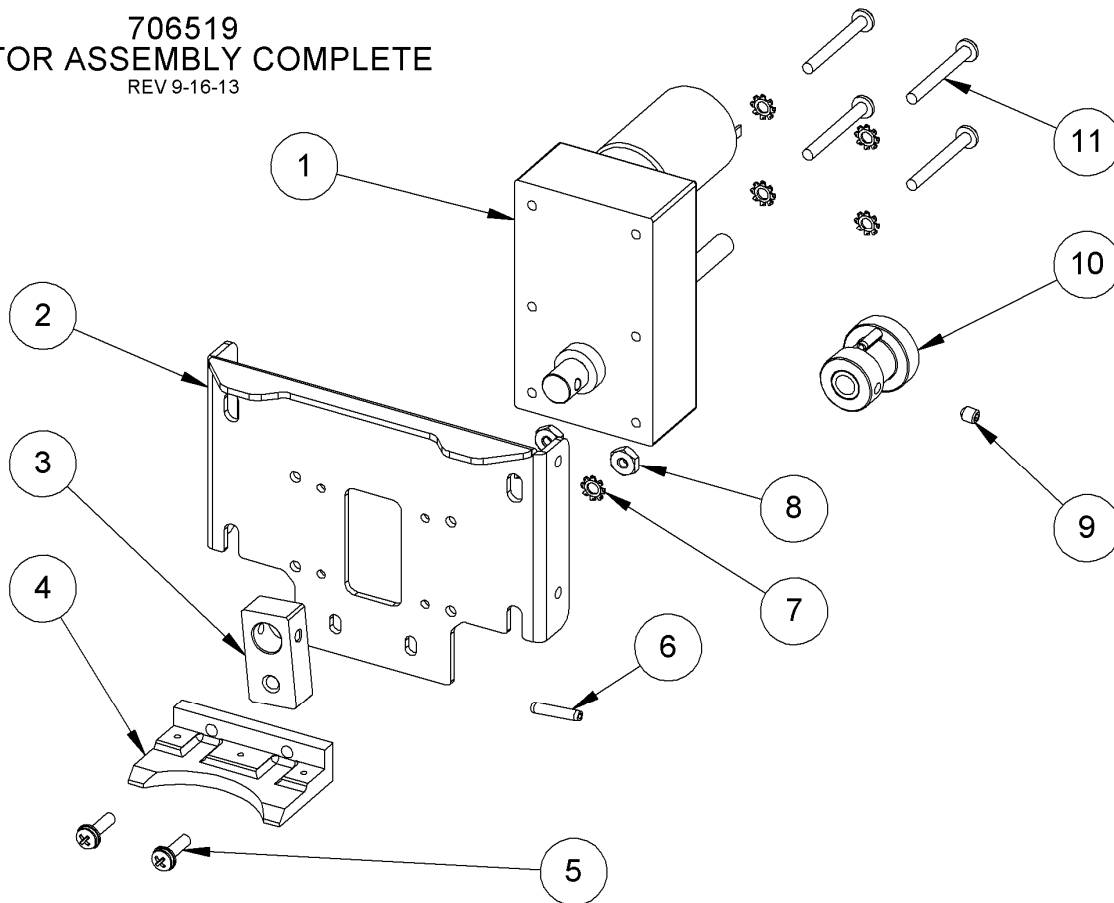
ITEM NO.	PART NUMBER	DESCRIPTION
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2	706224	SPACER, BEARING
3	706245	RADIAL BALL BEARING, #625-2RS1, 5 ID X 16 OD X 5
4	706262	SCREW, SL-PHMS, M5 X .8 X 30mm
5	706466	ACTUATOR ASSY, REV 9/10
6	706470	TEE ASSY, LH DRILLED .067
7	706424	STRIPPER ASSY, REV 10/08
8	706465	DRAWER ASSEMBLY, 09-10
9	706516	BRACKET ASSY, BOD DC MECH
10	706347	SHIM, MECH
11	706457	WIRE, CUP RETAINER, BODECKER
12	706467	TEE ASSY, RH DRILLED .067
13	706246	MICROSWITCH
14	100243	NUT, 4-40 S/S HEX
15	100212	WASHER, #6 EXT TOOTH LOCK, S/S
16	100160	SCREW, 4-40 X 5/8, PPHMS. S/S
17	706528	SWITCH ASSEMBLY, BOD DC MECH CAM
18	100054	WASHER, #8 EXT TOOTH LOCK, S/S
19	100242	SCREW, 8-32 X 1/4, SPHMS, S/S
20	706518	BEARING PLATE ASSY
21	100571-L	SCREW, 8-32 X 3/8 COMBO HEAD MS, S/S

706465
DRAWER ASSEMBLY
(OCT 2013)



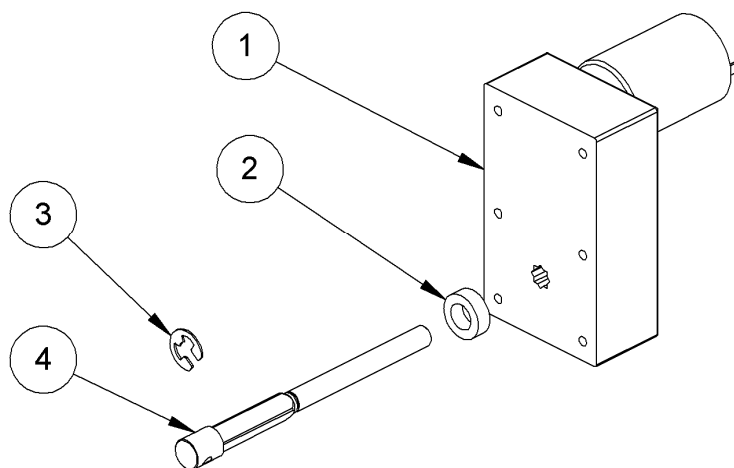
ITEM NO.	PART NUMBER	DESCRIPTION
1	706413	DRAWER, BLOCK, REV, 10/08
2	706429-L	SLIDE, DRAWER, REV 10/08
3	701309	SCREW, 6-32 X 1/2 PPHMS, WASHER, S/S
4	706258	SCREW, 6-32 X 9/16 PPHMS, S/S
5	105043	SCREW, 6-32 X3/8 PPHMS, WASHER, S/S
6	706200	CAP, DRAWER HANDLE
7	706271	LABEL, DRAWER, BODECKER, MAROON
8	706256-L	SCREW, 4-40 X 1/4 PH-FHMS, S/S
9	706206	COVER
10	706254	SPRING, PLUNGER TENSION
11	706204	ROD, SPRING
12	706412	PLATE, DRAWER HANDLE, REINFORCE
13	706199	HANDLE, DRAWER
14	706205	GIB
15	706459	PLUNGER ASSY, REV 9/10
16	110965	LOCK WASHER, #6 INTERNAL TOOTH, S/S
17	706429-R	SLIDE, DRAWER, REV 10/08
18	706480	STOP, MAGNETIC DRAWER
19	102864	SCREW, 6-32 X 1/4 FHMS UC, S/S

706519
MOTOR ASSEMBLY COMPLETE
REV 9-16-13



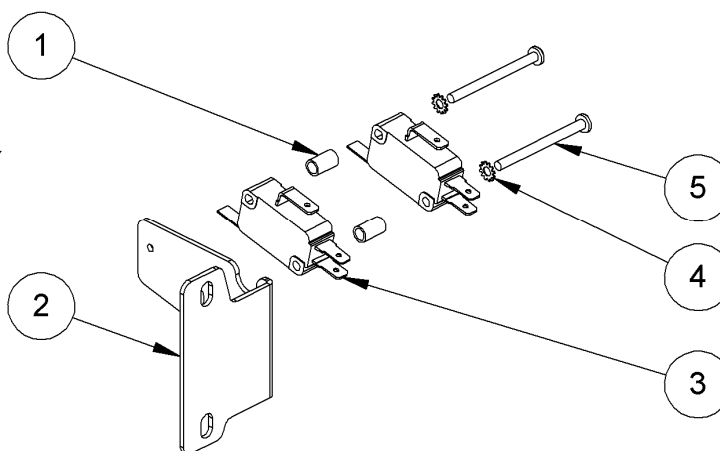
ITEM NO.	PART NUMBER	DESCRIPTION
1	706522	MOTOR ASSY W/SHAFT
2	706520	MOTOR BRACKET, BODECKER DC MECH
3	706227	CRANK
4	706223	BRACKET, CUP
5	701309	SCREW, 6-32 X 1/2 PPHMS, WASHER, S/S
6	706250	SPRING PIN, SLOTTED, .125 X .625
7	100212	WASHER, #6 EXT TOOTH LOCK, S/S
8	100191	NUT, 6-32 S/S HEX
9	706252	SCREW, SET SSCUPSKT 8-32 x 3/16 HX-N
10	706532	CAM ASSEMBLY, SWITCH
11	773195	SCREW, 6-32 X 1-1/4 PPHMS, S/S

706522
MOTOR ASSEMBLY



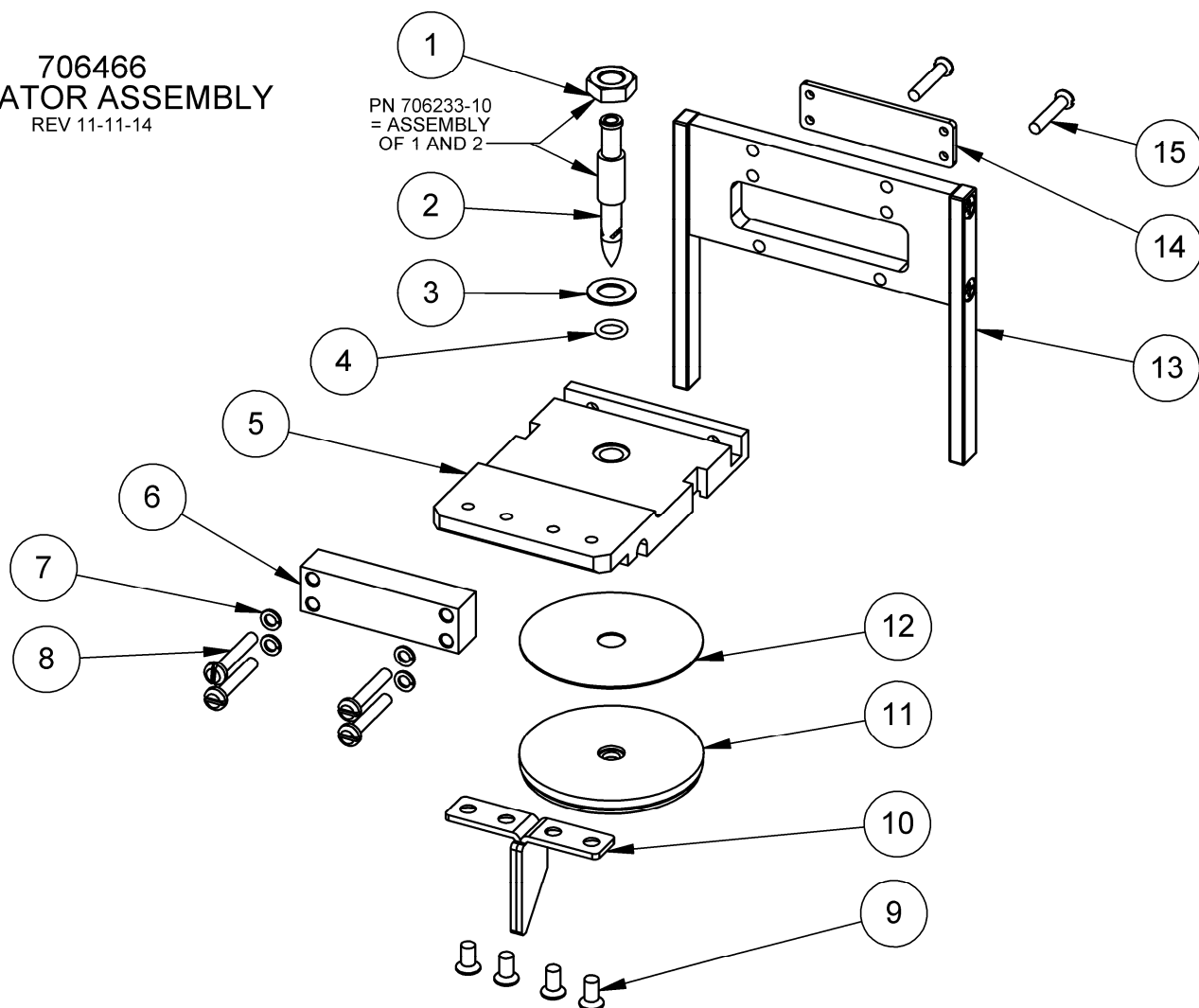
ITEM NO.	PART NUMBER	DESCRIPTION
1	706523	MOTOR, AUGER, REAMED
2	706524	SPACER, BOD MOTOR SHAFT, COMPONENTI
3	706525	RING, EXTERNAL RETAINING, 1/4" S/S
4	706501	SHAFT, BODECKER DC MECH

706528
CAM SWITCH ASSEMBLY



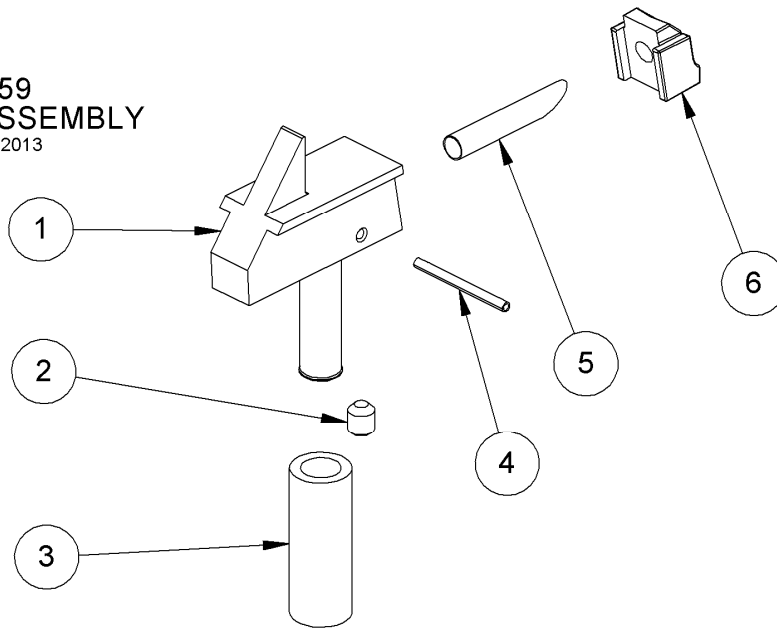
ITEM NO.	PART NUMBER	DESCRIPTION
1	100559	SPLICE, WIRE, 10-12
2	706521	BRACKET, BOD DC CAM SWITCH
3	706246	MICROSWITCH
4	121536	WASHER, #4 EXTERNAL TOOTH LOCK
5	706396	SCREW, 4-40 X 1-3/8 PPHMS, S/S

706466
ACTUATOR ASSEMBLY
REV 11-11-14

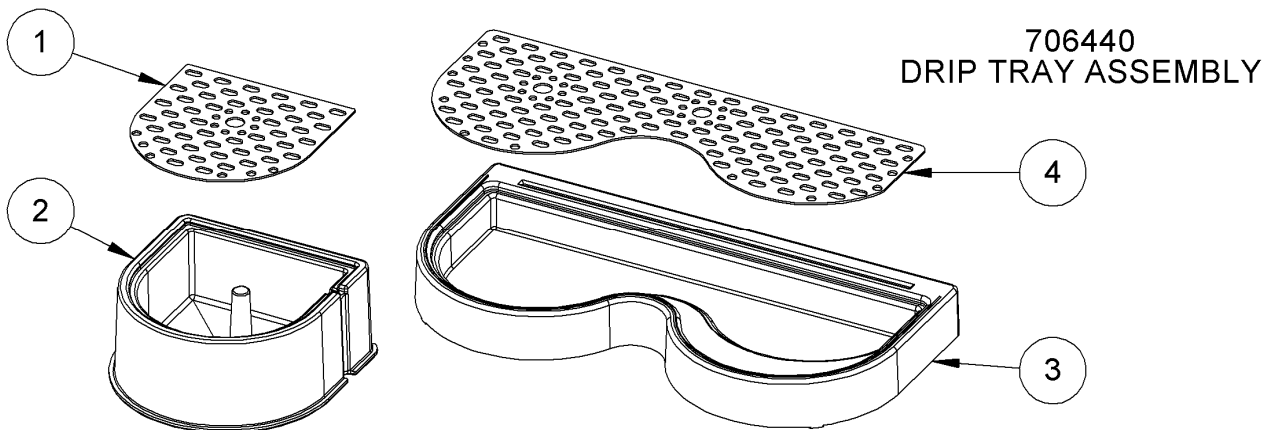


ITEM NO.	PART NUMBER	DESCRIPTION
1	706236	NUT, 5/16-24, NEEDLE
2	706233	NEEDLE, VERTICAL,
3	706354	WASHER, .321 X .562 X .029,
4	110507	O-RING, 1/4 X 3/8,
5	706469	PAD, BODECKER, REV 09/10
6	706235	EXTENSION, BRIDGE,
7	101101	WASHER, #6 SPRING LOCK, S/S
8	704224-L	SCREW, 6-32 X 7/8 SL-PHMS, S/S
9	706432	SCREW, 8-32 X 5/16 PFHMS, S/S
10	706461	ACTUATOR ASSY, REV 9/10,
11	706533	SEAL, BODECKER VERTICAL NEEDLE,
12	706535	DISC, SEAL SHIM, BODECKER - USED AS REQ'D
13	706540	BRIDGE ASSEMBLY WITH SCREWS 11-2014,,
14	706423	PLATE, MOUNTING, BODECKER
15	706313	SCREW, 6-32 x 3/4 SL-FHMS, S/S

706459
PLUNGER ASSEMBLY
REV OCT 2013

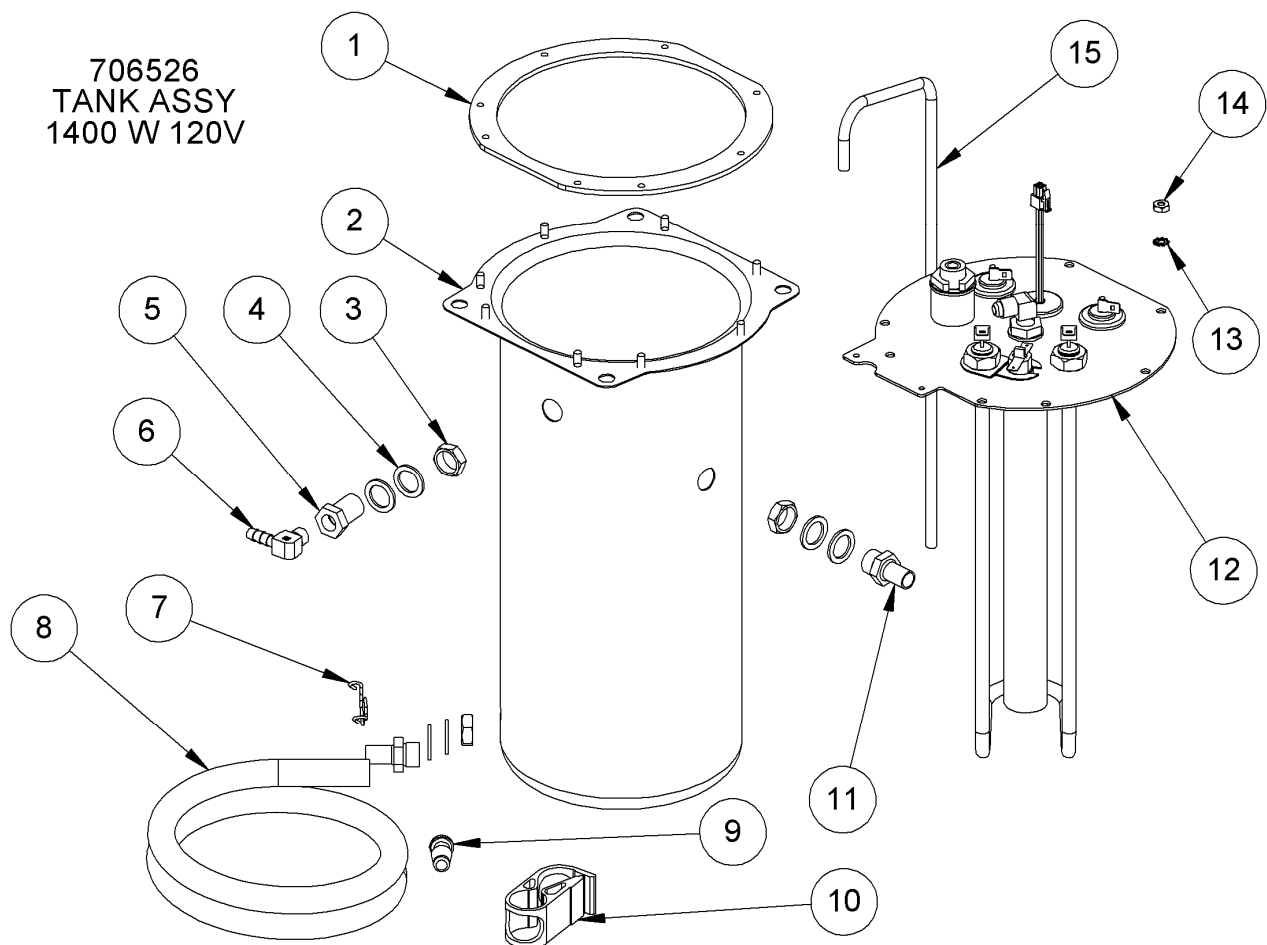


ITEM NO.	PART NUMBER	DESCRIPTION
1	706460	PLUNGER BLOCK AND TUBE ASSY 9/10
2	706252	SCREW, SET SSCUPSKT 8-32 x 3/16 HX-N
3	706371	TUBE, BLACK 1"
4	706212	RETAINER, SPRING
5	706210	NEEDLE, HORIZ BODECKER PIERCING
6	706534	SEAL, HORIZONTAL NEEDLE, BODECKER



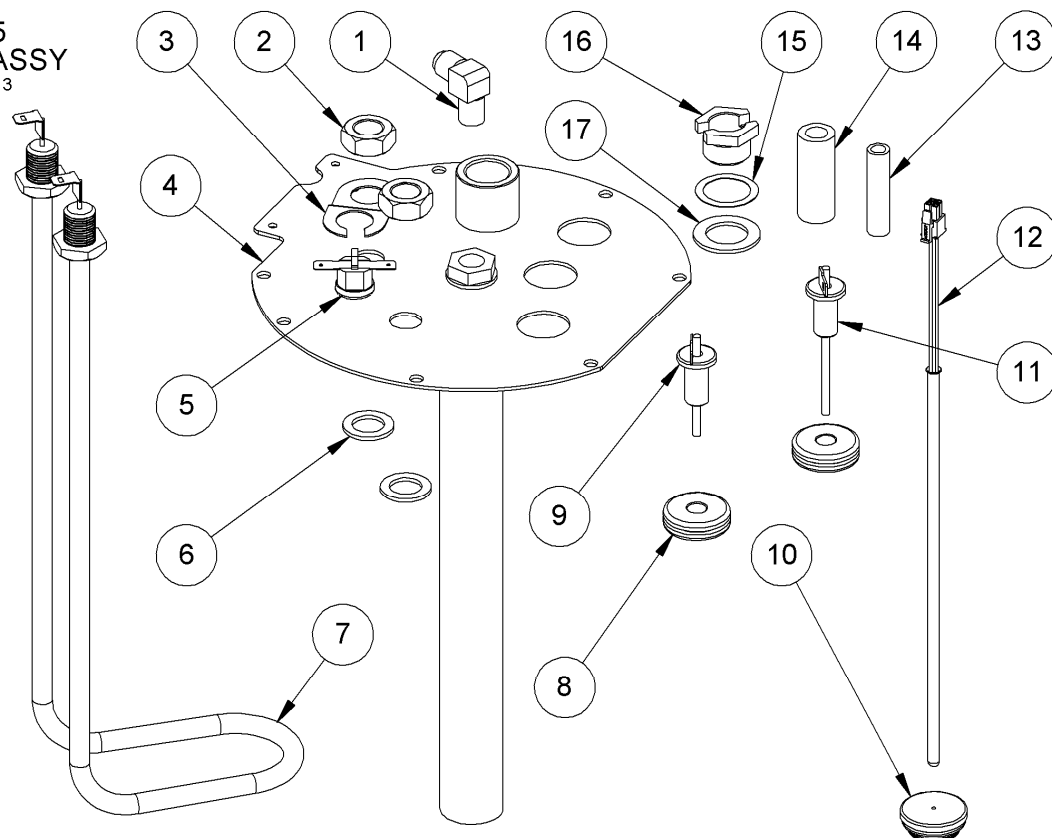
ITEM NO.	PART NUMBER	DESCRIPTION
1	706444	GRID, DRIP TRAY, CUP, BODECKER
2	706442	DRIP TRAY, BODECKER CUP
3	706441	DRIP TRAY, BODECKER MAIN
4	706443	GRID, DRIP TRAY, MAIN, BODECKER

706526
TANK ASSY
1400 W 120V



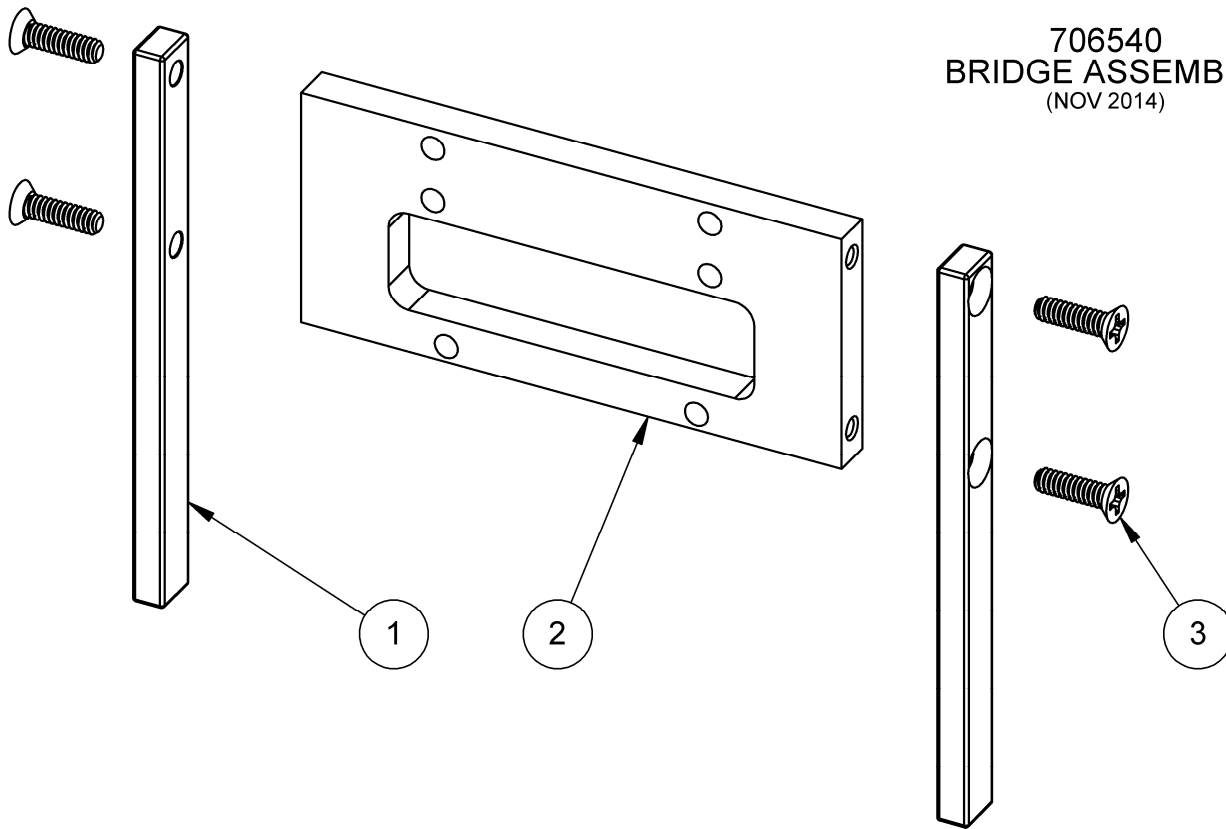
ITEM NO.	PART NUMBER	DESCRIPTION
1	704221	GASKET, K TANK TOP FLANGE
2	706324	TANK, BODECKER PUNCHED
3	100431	NUT, BR, 9/16-24, 11/16HEX
4	100030	GASKET, .566 ID
5	101720	FITTING, BULKHEAD, 3/8 COMP X 1/8 NPT
6	767144	ELBOW, BARBED, 1/4 TUBE X 1/8 NPT
7	111635	CLAMP, HOSE, .574 ID
8	701702	TUBING, SILICONE, 38 ID X 5/8 OD
9	100408	PLUG, 3/8 BARBED, PP
10	701646	HOSE CLAMP, 3/4
11	102835	BULKHEAD FITTING, FAUCET OUTLET
12	706505	TANK LID, BODECKER SPOTWELD
13	100054	WASHER, #8 EXT TOOTH LOCK, S/S
14	100061	NUT, HEX, 8-32 S/S
15	706358	TUBE, OVERFLOW, BODECKER

706505
TANK LID ASSY
REV 11-11-13



ITEM NO.	PART NUMBER	DESCRIPTION
1	100177	ELBOW, 1/4 FLARE X 1/8 NPT (NEW STYLE)
2	100190	NUT, 1/2-20 JAM, BRASS
3	100269	BRACKET, HI-LIMIT THERMOSTAT
4	706506	TANK LID, BODECKER SPOTWELD
5	111592	THERMOSTAT, MANUAL RESET
6	100409	GASKET, .52 ID, BRASS
7	706537	ELEMENT, K TANK, HAIRPIN STYLE
8	500350	GROMMET, BUSHING, PROBE, .875 DIA
9	500398	PROBE ASSEMBLY
10	500038	GROMMET, TANK, SILICONE
11	500413	PROBE ASSEMBLY
12	151677	THERMISTOR ASSY, DUAL ELEMENT
13	706407	TUBE, SIL 6MM X 9MM X 1.5IN
14	706408	TUBE, SIL 9MM X 15MM X 1.5IN
15	700015	WASHER, 3/4 ID X 1 OD, S/S
16	701200	NUT, SLOTTED HEX, 3/4-16
17	700016	GASKET, .672 ID X 1.062 OD, SILICONE
18	700130	LEAD WIRE, 14 GA VI/BK, 5" (NOT SHOWN)

706540
BRIDGE ASSEMBLY
(NOV 2014)

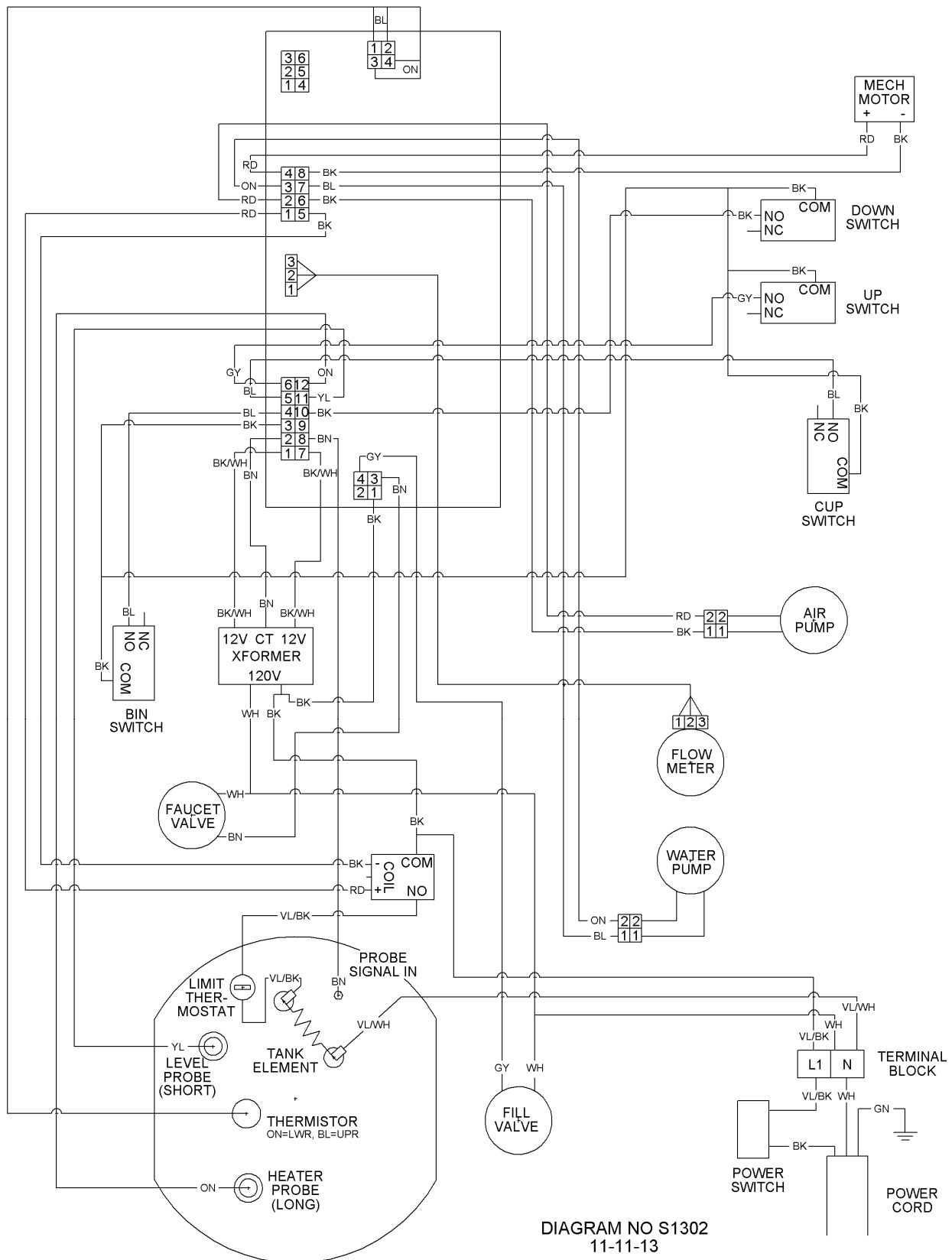


ITEM NO.	PART NUMBER	DESCRIPTION
1	706541	GLIDE
2	706542	BRIDGE
3	701518	SCREW, PFHMS UC, 6-32 X 1/2

ADDITIONAL REPLACEMENT PARTS

Part No	Description
TANK ASSEMBLY AND PARTS	
706526	TANK ASSEMBLY, 1400W 120V
706324	TANK ONLY, S/S
706505	TANK LID ASSEMBLY, 1400W 120V
704221	GASKET, TANK LID
702394	TANK ELEMENT, 1400W 120V
500038	GROMMET, THERMISTOR
500350	GROMMET, WATER LEVEL PROBES
500396	PROBE ASSEMBLY W/BUSHING, 1.53" LONG
500398	PROBE ASSEMBLY W/BUSHING, 1.82" LONG
100408	PLUG, DRAIN TUBE, 3/8 BARBED
ELECTRICAL COMPONENTS	
706502	CONTROL BOARD – SPECIFY CURRENT FIRMWARE TO ENSURE COMPATIBILITY OR TO DETERMINE UPGRADE PATH
100022	POWER CORD, 14/3
101035	STRAIN RELIEF, POWER CORD
100163	TERMINAL BLOCK, 2 POLE
110626	SWITCH, ROCKER, DPST
CABINET PARTS	
706402	MAIN BREWER WRAPPER
706403	BREWER TOP COVER
706266	FACE PLATE, WAVE, NO LABELS
706269	LABEL, MAIN FACEPLATE, MAROON
706270	LABEL, FACEPLATE SWITCHES/LIGHTS
706390	WASTE BIN
111377	FOOT, APPLIANCE, 3/8-16
706478	MAGNETIC DRAWER RETAINER KIT
MISCELLANEOUS PLUMBING	
706504	FLOW CONTROL ASSEMBLY FOR BREW MECH
202103	WATER STRAINER ASSEMBLY
152213	TUBING, SILICONE, 3/8 ID X 5/8 OD – ORDER BY FOOT
706351	TUBING, REINFORCED SILICONE, 3/16 ID – ORDER BY THE FOOT

WIRING CONNECTION DIAGRAM



WARRANTY

NEWCO warrants equipment manufactured by it for 1-year parts and labor.

These warranty periods run from the date of purchase. NEWCO warrants that the equipment manufactured by it will be commercially free of defects in material and workmanship existing at the time of manufacture and appearing within the applicable warranty period. This warranty does not apply to any equipment, component, or part that was not manufactured by NEWCO or that, in NEWCO'S judgment, has been affected by misuse, neglect, alteration, improper installation or operation, improper maintenance or repair, damage or casualty. This warranty is conditioned on the Buyer: **1)** Giving NEWCO prompt notice of any claim to be made under this warranty by telephone at (800) 556-3926 or by writing to 3650 New Town Blvd., Saint Charles, MO 63301 **2)** If requested by NEWCO, shipping the defective equipment prepaid to an authorized NEWCO service location **3)** Receiving prior authorization, from NEWCO, that the defective equipment is under warranty.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, WRITTEN OR ORAL, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF EITHER MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The agents, dealers, or employees of NEWCO are not authorized to make modifications to this warranty or to make additional warranties that are binding on NEWCO. Accordingly, statements by such individuals, whether oral or written, do not constitute warranties and should not be relied upon.

If NEWCO determines in its sole discretion that the equipment does not conform to the warranty, NEWCO, at its exclusive option while the equipment is under warranty, shall either: **1)** Provide at no charge replacement parts and/or labor (during the applicable parts and labor warranty periods specified above) to repair the defective components, provided that this repair is done by a NEWCO Authorized Service Representative or **2)** Shall replace the equipment or refund the purchase price for the equipment.

THE BUYER'S REMEDY AGAINST NEWCO FOR BREACH OF ANY OBLIGATION ARISING OUT OF THE SALE OF THIS EQUIPMENT, WHETHER DERIVED FROM WARRANTY OR OTHERWISE, SHALL BE LIMITED, AT NEWCO'S SOLE OPTION AS SPECIFIED HEREIN, TO REPAIR, REPLACEMENT OR REFUND.

In no event shall NEWCO be liable for any other damage or loss, including, but not limited to, lost profits, lost sales, loss of use of equipment, claim's of BUYER'S customers, cost of capital, cost of downtime, cost of substitute equipment, facilities or services, or any other special, incidental, or consequential damages.

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