



ReverseTap Operation Manual

Ver 1.1





What is ReverseTap?

ReverseTap is an innovative beer dispensing system. It is an upward dispensing system, different from the conventional downward dispensing system. ReverseTap dispenser dispenses beer upward through the bottom of the cup. ReverseTap cup is uniquely designed for this system with its patented plastic tension and sealing technology.

There are several benefits of ReverseTap compared to the conventional dispensing system. 1) It maximizes the keg yield rate by preventing the loss of beer with its foam amount control feature. 2) Its automatic amount control feature enhances the operator's productivity. 3) Its fast dispensing time enables the operator to sell more beer to more people. It is extremely effective in a time-limited venues such as stadiums or concerts. 4) The novelty of upward dispensing concept itself is a powerful marketing tool to attract more customers.

In conclusion, ReverseTap provides huge financial benefit to the users.

About this manual

This manual is specially designed to detail how to operate ReverseTap dispenser's functions and features only. Installation of the ReverseTap dispenser must be done through the authorized service provider. Without its proper installation, the device might not perform properly or be damaged. NPC Co., Ltd. is not liable for any damages or injuries that may occur due to improper installation.

- Please read this manual carefully before use to ensure safe and proper usage.
- Descriptions are based on the device's default settings.
- Images and screenshots may differ in appearance from the actual product.
- Contents of this manual may vary from actual product according to software version and specifications of model.
- Randomly changing product software provided by ReverseTap or downloading software obtained through unofficial paths to its product may cause failure or error of the product.
- Software, images, and other media provided with this device are licensed for limited use. Extracting and using these materials for commercial or other purpose is an infringement of copyright laws.
- You can download the manual from the ReverseTap website, www.reversetap.com.

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Important safety precaution

Please read this manual carefully before using the device to ensure safe and proper use.

- This device is not intended for use by people (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.
- Do not disassemble the device. Repair should be made by authorized service provider.
- If there is smoke or burning smell from the device, unplug the power cord immediately and contact service provider.
- Do not use damaged power plugs and cords.
- Do not touch the power plug with wet hands. This may cause electric shock or fire.
- Unplug the power cord from the wall outlet when the device is not in use.
- Do not place the device or power cord near heat sources such as flammable spray.
- Turn off the power if there is a risk of lightning when used outdoor.
- Keep vinyl packaging wrap of the device and other small parts out of reach of children.
- Do not put any parts into the dishwasher or use scouring powder, benzene thinner, and chlorine bleach for cleaning. This may cause damage to the parts.

Additional usage instruction

- Recommended operating temperature: room temperature ($20 \pm 5 \text{ }^{\circ}\text{C}$ // $68 \pm 9 \text{ }^{\circ}\text{F}$)
- Recommended humidity: 40 - 70%
- Do not dispense hot beverage. (higher than 40°C // 104°F). It can cause burn injuries and malfunctioning of the device.
- Do not dispense any liquids other than drinkable beverage.
- Do not dispense any liquids containing solid ingredients such as fruit pulp. This can cause the blockage of the hose and lead to the malfunctioning of the device.
- Always move the device with both hands. (maximum weight of the device is 17lbs)



Contents

Getting started

- 5 ReverseTap dispenser type / Package contents
- 6 Device layout

Basic Functions

- 7 Control panel configuration / Basic functions with button control
- 8 Indicator icons & text on OLED display
- 9 How to set the value of each mode
- 10 SETUP Mode / Size setting Mode
- 11 FOB Mode
- 12 Foam Mode / Cleaning Mode
- 13 Shortcuts to frequently used functions

Advanced Functions

- 14 Advanced Mode / Unit Mode
- 15 Security Mode
- 17 TIME • VOLUME Mode
- 18 Tracking Mode / LED Mode
- 19 AUTO • MANUAL mode / FLOW SENSOR Mode

20 Maintenance

21 Troubleshooting

23 Product Specification

24 Warning on use of ReverseTap Cup

Getting started

ReverseTap dispenser type

The difference between Twin and Single type is the number of dispensing nozzle and LCD screen availability. The difference between Single Tall and Single Flat is height. All other features are exactly same.



Twin Premium



Single Tall



Single Flat

Package contents

Check inside of the packaging box for the list of components in a separate print

- Cover, gripper, nozzle are already assembled into the dispenser when shipped in the packaging box.
- USB memory for LCD monitor is not included.
- Unauthorized accessories might cause damage to the device.
- Appearances and specifications are subject to change without prior notice.
- If accessory is lost or damaged, you can purchase it from the official distributor.

Device Layout

Front view

Single Tall



Single Flat



Twin Premium



Back view (Control panel view)



There is no power switch on Single type dispenser

Adapter
Flow sensor
USB
Audio
Power Switch

Top view



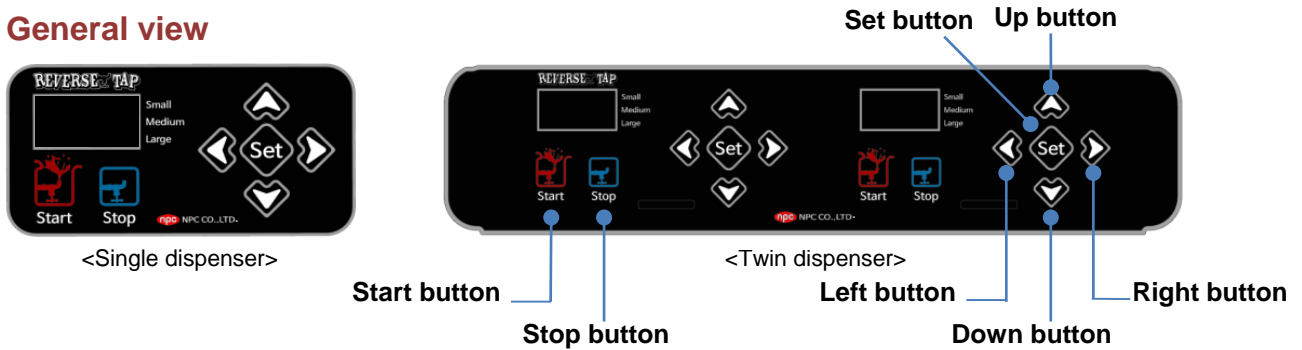
Cup sensor
Nozzle
Gripper
LED



Basic Functions

Control panel configuration

General view



Operation button



OLED display


A screen displaying the current operation status, mode selection, and various settings.



Basic functions with button control


Power off

Press and hold the Stop button at Standby status for 2 seconds, then the device will turn off with a long beep sound.

※ For Twin Premium dispenser, we recommend using the power switch () to turn off. Stop button cannot turn off the LCD display of Twin Premium model.

Power on

Press and hold the Start button at the power off status for 2 seconds, then the device will turn on with a long beep sound. (Only for Single model)

※ For Twin Premium dispenser, use the power switch () to turn on. Start button cannot turn on the Twin Premium model.

Reset

Press and hold both the Right and Left button at the Standby status for two seconds. Then, if you enter correct password and press and hold set button for two seconds, all the settings will be restored to the initial factory setting values with a long beep sound.

Reset amount tracking

Press and hold the Down button at the Standby status for 2 seconds, then the dispensed amount number will be reset to zero.

Indicator icons & text on OLED display



Standby status



Dispensing status



Finished status



FOB status



FOB status



Keg Alarm status

① Dispensed amount

This number shows how much beer has been dispensed.

② Default size

You can preset the default size as one of three different sizes, which is Small, Medium, and Large. The circle signal (◎) indicates current default size. You can shift among three sizes with Up and Down button at the Standby status. You can also change the amount of each default size.

③ Ready

This text indicates the Standby status. At this status, you can insert the cup and dispense beer.

④ Preset amount

This number shows the fixed amount of each preset default size

⑤ FOB, Foam mode

If the FOB or Foam mode is set, it is displayed as On. If deactivated, it is displayed as Off

⑥ Dispensing status (▮)

This signal indicates the amount of dispensed beer and the status that beer is being dispensed

⑦ Percentage and time

While dispensing, the percentage and elapsed time of each beer cup is displayed

⑧ Dispensing

This text indicates the Dispensing status. It notifies that beer is being dispensed

⑨ Finished

This indicates the Finished status

⑩ FOB Mode

This text indicates the FOB status. If the sensor of the dispenser detects too much foam in the keg, it will automatically stop dispensing beer to prevent foam explosion. Normally this mode is activated when the KEG is almost empty

⑪ FOB status

Once FOB mode is activated, after the warning signal, the display will show options between Start and Stop.

⑫ KEG Alarm Mode

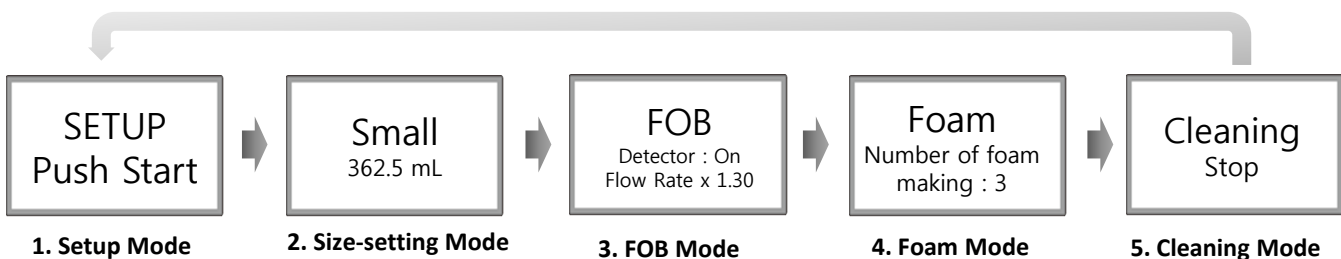
This text notifies that KEG Alarm mode is activated. Users can set the Alarm mode to check how much beer is left in the keg.

How to change the Mode Setting

- At the Stand-by status, long press the Set button enter the Mode Setting status.
- Press the Set button in each mode to shift through changeable values as they blink. Once you shift through all sections, the blinking will stop.
- You may change values for each blinking section by pressing Up and Down button.
- Press Left and Right button to shift to the next mode.
- Once all changes are complete, long press the Set button to save the changes and return to the Standby status

Screenshot of each Basic Mode

1. Setup Mode
2. Size-setting Mode
3. FOB Mode
4. Foam Mode
5. Cleaning Mode



SETUP Mode



When users install ReverseTap dispenser for the first time, this mode must be executed. By executing this mode, the dispenser can measure and memorize the flow rate of the beer during dispensing. Memorizing the flow rate is important because it will enable FOB mode to work properly. This mode should be executed every time when there is a change of system environment such as change of cooling machine, change of CO2 pressure rate, and change of beer brand.

- Once entered into this mode, plug the cup into the dispenser
- Double press the Start button to start dispensing the beer
- Press Stop button to finish the discharge of beer when it reaches any desired amount.
- Long press the Set button, and then the discharged amount will be automatically set as the preset size of Medium.
- If you want to change the amount of each preset size, you can change it in Size-setting Mode
- Pressing any other button will take you back to the initial screen of Sync Mode without saving.

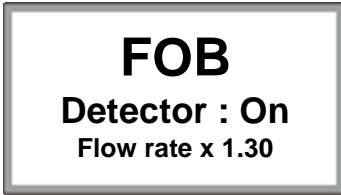
Size-setting Mode



In this mode, users can change and set the discharge amount of each preset size (Small/Medium/Large)

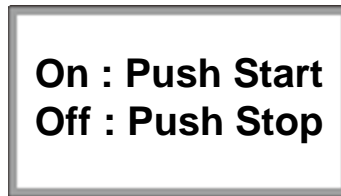
- Once entered into this mode, you can press Up and Down button to select any of the three preset sizes (Small/Medium/Large)
- Once you chose any preset size, you can press Set button. Then the numbers below will start blinking. Now you can change the numbers to set the discharge amount of preset size using Up and Down button.

FOB Mode



FOB (Foam On Beer) refers to foam explosion. When the KEG is almost empty, only beer foam is left in the KEG, and this foam will explosively come out of the dispenser. If users activate FOB mode, this beer foam explosion can be prevented.

- On/Off : You can press Up and Down button to set the Mode
- Flow rate coefficient : You can change the value using Up and Down button
(Default value : 1.30)
- Meaning of Flow rate x 1.30 : FOB Mode will be activated when the speed of beer flow becomes faster than 1.3 times of normal Flow rate
(Normal Flow rate is detected and memorized when Sync Mode is activated)
(Beer flow becomes faster when beer is dispensed together with foam)
- When the FOB Mode is activated, the below display will show up and stop dispensing



- Step-by-step procedure to replace with the new KEG
 - 1) Check the KEG whether it is empty or not (Shake the KEG)
 - 2) If it is empty, you need to change the KEG with the new one
 - 3) Press Stop button to turn off FOB mode
 - 4) Close the middle valve of CO2 tank and replace the KEG with the new one
 - 5) If you dispense a few cups of beer with the new KEG, those beer foam remaining in the cooler and the tube will come out. 2-3 cups will be enough to remove all the remaining foam
 - 6) Once the foam is cleared, go to Mode Setting and turn on the FOB mode again
- If FOB Mode is activated even when the KEG is not empty, follow the below steps
 - 1) Execute the Sync Mode to reset the flow rate of the dispenser
 - 2) If FOB Mode is activated again even though the beer is not empty after Sync Mode execution, change the flow rate coefficient number higher than 1.30 (ex. 1.40)

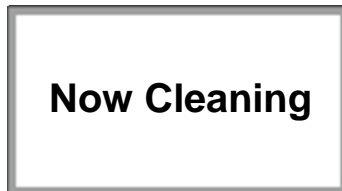
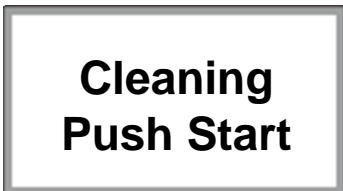
Foam Mode



In this mode, users can create the beer foam and change the amount of it by controlling the number of foam making action

- Press Up and Down button to select number of foam making from 0 to 5.
(ex. 0 means no foam making action. 1 means one time foam making action)

Cleaning Mode



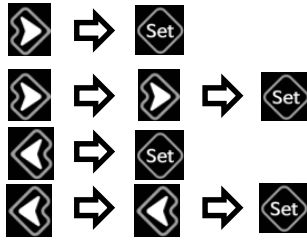
In this mode, users can clean the dispenser valve and beer tubes by executing cleaning function. Daily cleaning is recommended

- To execute Cleaning Mode, the below procedure must be done
 - 1) Change the nozzle of the dispenser to the cleaning nozzle
(Cleaning nozzle is included in the dispenser package. If lost, contact the distributor)
 - 2) Connect the tube with the nozzle and place the end of the tube into the drain basket
 - 3) Lock the middle valve of CO2 tank and change the beer KEG to the cleaning KEG
(Cleaning KEG and cleaning chemicals can be purchased from the market)
 - 4) Open the middle valve of CO2 tank and press Start button twice
 - 5) The valve will open and cleaning function will start. (Text on the display will change to Now Cleaning)
 - 6) After draining all the water from the cleaning KEG, stop the Cleaning Mode
 - 7) To stop cleaning, press Stop button. Then, the valve will close and text of the display will change back to Cleaning Push Start
- After finishing Cleaning Mode, you can disconnect the cleaning KEG and replace with the beer KEG

Shortcuts to frequently used functions

Please use at standby status

- Cleaning Mode
- Foam Mode
- Size setting Mode
- FOB Mode



Standby Status

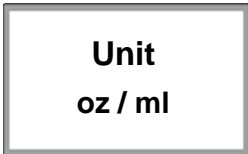
Advanced Functions

Advanced Mode

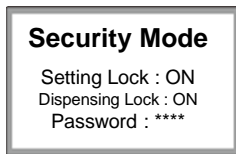
How to enter into the Advanced Modes: Press the buttons as below sequence



Screenshot of each Advanced Mode



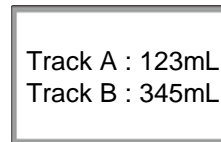
1. Unit Mode



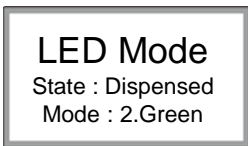
2. Security Mode



3. Volume/Time Mode



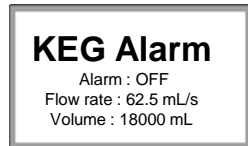
4. Tracking Mode



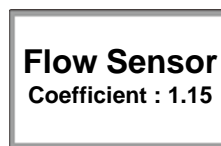
5. LED Mode



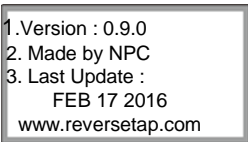
6. Auto/Manual Mode



7. KEG Alarm Mode



8. Mode to change calibration coefficient of flow sensor



9. Information

Unit Mode

- In unit select mode, users select a unit that they will use.
- ReverseTap provides oz and ml.



- If the unit flickers after pushing Set button, select a preferable unit by pushing Up/Down button.

Security Mode



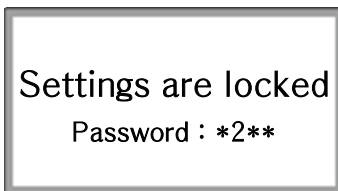
- Setting Lock : A function to lock the settings (Foam control, LED colors, etc.)
- Dispensing Lock : A function to lock the valve from dispensing even if a cup is inserted.

How to use Security Mode

- Turn “ON” Setting Lock or Dispensing Lock.
- Input 4-digit password. (Default password: 1234)
 - Long pressing the Set button without setting any password will automatically set as default password. Thus, you may set password only if you prefer.
- To save, long press the SET button. This will switch back to the Standby status.

How to change the settings (while Setting Lock is ON)

- In Standby status, long press the Set button. It will ask for a password with a screen “Settings are locked.”

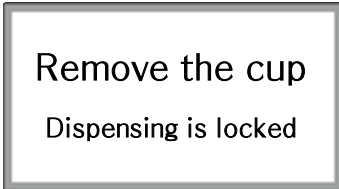


- Input the correct password to enter the settings mode.
 - This does not change the password. This is only for entering the settings mode.
 - Setting Lock is continuously ON after entering password.
To turn this OFF, enter the Security Mode.
 - If wrong password is entered, the screen will show “Incorrect password!” and return to Standby status(Ready screen).

※ To enter the Advanced settings, you may proceed as the same process above.

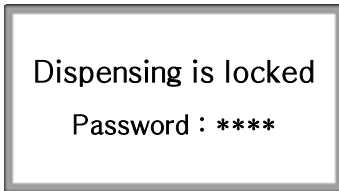
How to dispense beer (while Dispensing Lock is ON)

- When a cup is inserted on Standby status (Ready screen), 'Remove the cup' will appear on screen.



- This will continue until the cup is removed.

- After the cup is removed, it will ask for a password with 'Dispensing is locked' screen.



- After entering the correct password with a long press of the Set button, Dispensing Lock will be unlocked to enable dispensing.
 - If a wrong password is entered, "Incorrect password!" will appear on screen and return to the Standby status(Ready screen).

Shortcuts for Security Mode

- Shortcut for Setting Lock : OFF → ON
 - Long press the Left button on Standby status(Ready screen) to turn ON the Setting Lock.
- Shortcut for Setting Lock : ON → OFF
 - Long press the Left button on Standby status(Ready screen) and input a correct password to turn OFF the Setting Lock.
- Shortcut for Dispensing Lock : OFF → ON
 - Long press the Right button on Standby status(Ready screen) to turn ON the Dispensing Lock.
- Shortcut for Dispensing Lock : ON → OFF
 - Long press the Right button on Standby status(Ready screen) and input a correct password to turn OFF the Dispensing Lock.

TIME / VOLUME Mode

1. TIME Mode * Used when a flow sensor is lost or malfunctioning.
 - Controls the dispensing amount with the duration of valve-opening time.
2. VOLUME Mode (Default)
 - Controls the dispensing amount with the set volume measured by a flow sensor.



- **TIME / VOLUME** : Press Up and Down button to select one of the options.

How to change the PRESET size in TIME Mode



Size-setting Mode in
TIME Mode



Size-setting Mode in
VOLUME Mode

- **Small / Medium / Large** : Press Up and Down button to select a size.
- **s (seconds)** : Press Up and Down button to input dispensing time for each size.
 - In TIME Mode, press Up and Down button to adjust dispensing time by 0.1.
 - Estimated volume is shown below dispensing time.
Estimate volume rate : 62.5 mL / sec.
 - This rate is adjustable by adjusting Flow rate value (Keg Alarm Mode).

Tracking mode

Dispensed A 1650 oz	Total amount A
Dispensed B 250 oz	Total amount B

- A function of showing the total amount of dispensed beer.
- Each of Dispensed A and B can be reset.
- While one of Dispensed A and B is blinking, long press the Down button to reset with a long beep.
- The total amount of Dispensed A shows at top of the Standby screen.

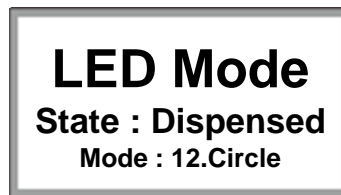


Standby status

* Long press the Down button to reset the total amount (Dispensed A) on Standby screen.

LED Mode

A function of changing LED lights of before/during/after dispensing.
LED is lit only when a cup is inserted in ReverseTap.



- State : Press Up and Down button to select before, during, or the after (dispensing).
 - Before : Set LED lighting after a cup is inserted and before dispensing.
 - Dispensing : Set LED lighting during dispensing.
 - Dispensed : Set LED lighting after dispensing is complete. The lighting will continue until the cup is removed.
- Mode : Press Up and Down button to select the desired color.

Mode 0 : Rainbow LED	Mode 7 : Purple Color LED
Mode 1 : Red Color LED	Mode 8 : Light Green Color LED
Mode 2 : Green Color LED	Mode 9 : Light blue Color LED
Mode 3 : Blue LED	Mode 10 : Light purple Color LED
Mode 4 : White LED	Mode 11 : Light yellow LED
Mode 5 : Blink LED	Mode 12 : Circle LED
Mode 6 : Yellow Color LED	Mode 13 : LED OFF

AUTO / MANUAL Mode

1. AUTO Mode (Default)

- Dispense the Preset amount (Small / Medium / Large) 0.5 seconds after the cup detection and stops automatically.

2. MANUAL Mode

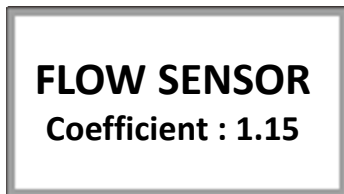
- On Manual Mode, no LED light will be lit even if a cup is inserted.
- Double press the START button to start dispensing. It will automatically stop when the Preset amount (Small / Medium / Large) is dispensed like the AUTO Mode.



- **AUTO / MANUAL** : Press Up and Down button to select AUTO or MANUAL.

FLOW SENSOR Mode

A function to enclose the gap between the Preset volume and the actual dispensed volume.



- **Coefficient** : Press Up and Down button to adjust the value. (Default : 1.15)
 - If the actual volume is more than the Preset volume : Lower the coefficient.
 - If the actual volume is less than the Preset volume : Raise the coefficient.
- ⊗ It is recommended to adjust from the second digit after the decimal.
- **Flow rate** : This shows the flow rate measured in Preset Mode. (Default : 62.5mL/s)

Maintenance

Cleaning of Dispenser Components

- Remove the grill plate by lifting with both hands.
- Grab the center of the 'gripper' and pull it diagonally.
- Twist the 'nozzle' counterclockwise to remove.
- Wash the disassembled parts with warm water and neutral detergent

Cleaning of Beer Line

- Fill the cleaning keg with clean water and connect it to a coupler.
 - Open CO₂ gas valve
 - Switch to a cleaning nozzle and connect it to a hose to discharge to a drain or a bucket.
 - Continue draining until you see clean water.
 - Close CO₂ gas valve and discharge the remaining CO₂ gas.
 - Immerse the coupler into a clean water after separating it.
- ※ Circulate clean water through entire beer line to clean them on daily-basis. Also, replace the lines with new beer line regularly.

Notes

- For a long time no use, remove all beverage from the line by rinsing with clean water and then dry.
(Proceed as the Cleaning of Beer Line, but continue discharging until CO₂ gas comes out.)

Warning

- Do not shoot water directly, or use benzene, thinner, chlorine bleach, alcohol, acetone, etc. for cleaning. This may result in electric shock or fire.
- Keep control panel part of the product away from water. They are not waterproof.
- Do not use rough surface tools such as brush, pad, rough cloth and etc. when cleaning ReverseTap.
- Disconnect ReverseTap power before cleaning. Not doing so may result in electric shock or fire.

Troubleshooting





Problem	Diagnose	Solution
No beer dispensing?	Is not adapter unplugged?	Plug power cord to adapter.
	Is not the keg empty?	Switch to new keg.
	Is not keg coupler connected properly?	Connect keg coupler to the keg.
	Is not CO ₂ gas valve closed?	Open CO ₂ gas valve.
	Is beer not dispensed when you press cup-detecting sensor?	Contact the CSC for service.
	Is not ReverseTap power turned on?	Turn on the ReverseTap power.
	Is the inside of the chiller frozen too much?	Contact the chiller manufacturer for service.
	Are not the beverage lines bent too much?	Straighten up the beverage lines. Contact CSC if the lines are not fairly straighten up.
	Is not chiller power turned on?	Turn on the chiller.
	Is there enough water inside the chiller?	Supply enough water to the chiller until the water comes out from the chiller's Overflow gate.
Too much foam?	Is the chiller operated for fair amount of time?	You must fill the chiller with water and operate 24 hours prior to beer dispensing for regular beer discharge.
	If using kegerators, are the kegs cooled enough?	It varies by the beer type, but you must cool the keg down to around 4°C for at least 24 hours before use.
	Is not the inside of the chiller frozen too much?	Contact the chiller manufacturer for service.
	Has not it been quite a while since you first opened and used the keg?	Old kegs which are opened for a long time do cause a lot of foam. Please switch to a new keg. (Recommended keg use after opening : 3 days)
	Have you leaved CO ₂ valve opened and connected with keg for a long time?	Too much CO ₂ injection in a keg causes a lot of foam. Please switch to a new keg.
	Is the CO ₂ gas pressure within the average range?	Adjust the pressure to an appropriate range. (250 ~ 300 kPa)
	Is not CO ₂ gas depleted?	Contact the CO ₂ gas supplier.

Problem	Diagnose	Solution
Too much foam?	Did you keep the keg in a cool place?	The recommended keg temperature is 4~6°C. Please keep the keg in cool place so the keg is maintained in a recommended temperature.
	Did you see bubbles passing in beverage lines when dispensing?	Remove bubbles from beverage lines. (Discharge beer raising gas pressure by 50 kPa, but do not exceed 400kPa.)
	Are not the beverage line bent too much or leaking?	Exchange the beverage lines and insulate them. For tube shortage, please contact CSC.
Keypad does not work?	Reboot the power.	Contact CSC if the problem continues.
LED color is not proper?	Confirm the set value.	If the LED color is not expressed as it is set, please contact CSC for assistance.
LED light is keep turned on?	Reboot the power.	If the problem continues, please contact CSC for assistance.
Cup is not inserted well?	Did you wash GRIPPERS regularly?	Wash GRIPPERS until there is no foreign substance on them. Remove every foreign substances on VALVE HOUSING where GRIPPERS come in contact with.
	Are the GRIPPERS and the NOZZLES assembled properly?	Assemble GRIPPERS and NOZZLES properly.



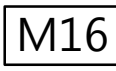

After service may be paid even during warranty period on the following conditions:

- If reinstalling due to moving of the product or the place.
- If the product is damaged or failed due to external impact or dropping.
- If the product is malfunctioning due to use of any products that are not specified by the Company.
- If the repair or customizing is done by the customer individually.
- If the product is used with inappropriate electric power.
- If the customer did not follow the caution provided in the manual.
- If the product is failed or damaged due to natural disaster (lightning, fire, earthquake, storm and flood damage, etc)
- If the end-life of the consumable parts ended.

ReverseTap Dispenser Specification

	Single Unit		Twin Unit		
	RD B1	RD BF1	RD BL2		
Product Size	9.4 x 11.8 x 3.6 (in)	8.7 x 10.8 x 3.9 (in)	13.8 x 14.8 x 5.5 (in)		
Product Weight	3.3 lb		16.5 lb		
Packaging Size	14.4 x 13 x 5.6 (in)		17.3 x 16.8 x 8.4 (in)		
Packaging Weight	6.6 lb		18.5 lb		
Packaging Unit	1 EA		1 EA		
Certification					FDA certified by SGS
	CE	LFGB	FCC	KC	FDA
LCD Display	-			7 Inch (155x88 mm)	
Voltage / Hz	100-240 V / 50-60 Hz, 1.5 A				

ReverseTap Cup Specification

	Cup				
	RT 400D	RT 520D	RT 700D		
Product Size	Ø3.6 x 4.3 (in)	Ø3.6 x 5.3 (in)	Ø3.6 x 6.9 (in)		
Product Weight	0.04 lb	0.05 lb	0.06 lb		
Capacity	Max	13.8 oz	17.9 oz	23.7 oz	
	Optimal	12 oz	16 oz	20 oz	
Packaging Size	18.9 x 15.4 x 21.5 (in)				
Packaging Weight	18.5 lb	22 lb	20.9 lb		
Packaging Unit	440 EA	400 EA	300 EA		
Certification				FDA certified by SGS	
	CE	LFGB	MID	FDA	NSF

ReverseTap Twin 7" Display Specification

Screen Dimensions (Ratio)		7" (16:9)
Supported Format	Video	AVI
	Image	JPG / JPEG
	Audio	MP3
Display Resolution		800 (W) X 480 (H)
Recommended Display Resolution		720 X 480
Supported Memory Card		USB Flash Memory
Power Consumption		5W
Operating Temperature		-10 ~ 60°C
Power	Output	DC 5V / 1A
	Input	100 ~ 240V

Warning on use of ReverseTap cup

- Cups only for ReverseTap of RT400D, RT520D, RT700D are disposable plastic cups. Therefore, it is not recommended using more than once. We do not hold any responsibility for all issues arising from multiple-time use of disposable cups.
- If damaged due to use of product besides cup only for ReverseTap, no warranty service is applicable.
- When cup is removed after drink is completed to discharge, be careful to the fact that residual drink stagnant at nozzle may smear to the lower part of cup and drop.
(It does not come from drink leakage from cup but is a phenomenon that liquid smeared at lower part of cup drops)

※ It is recommended to wipe the liquid stagnant at the lower part of cup with dry cloth and to use it after discharge of drink is completed.

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