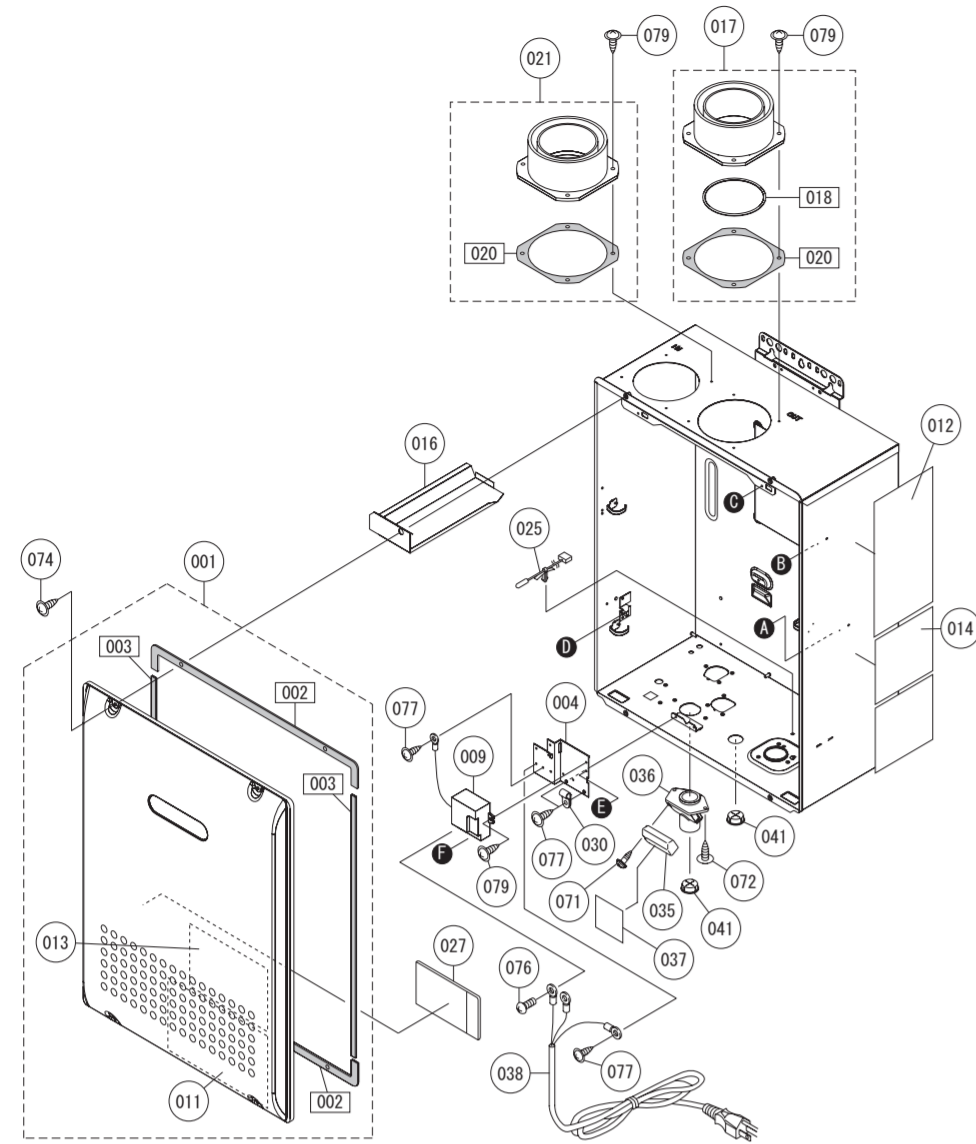# External outfitting NERC98DV (GQ-C2857WS-FF ET US)

External outfitting NERC98DV (GQ-C2857WS-FF ET US)

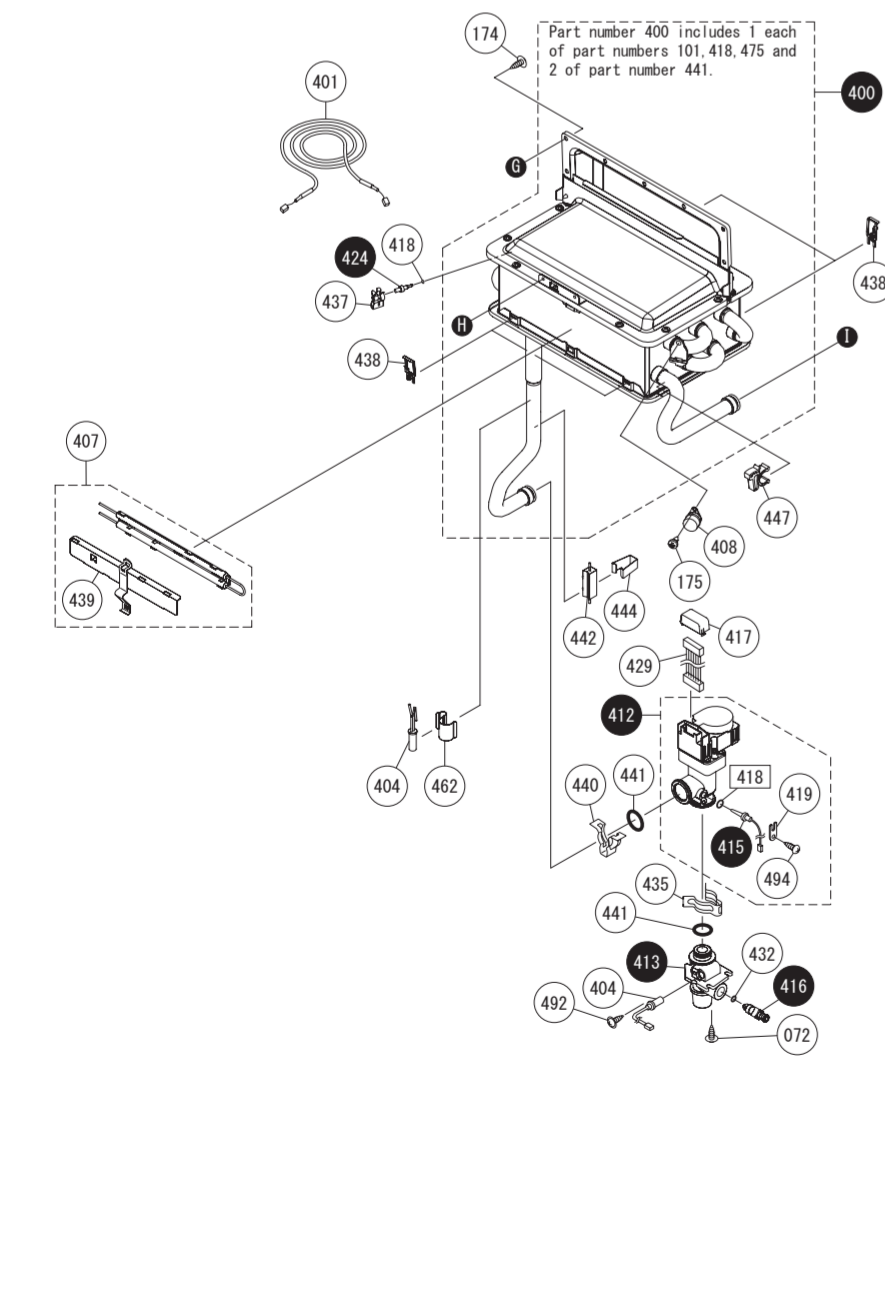| Part Nos.	Part Names	Order Nos.	Q'ty/unit
001	Front Cover - NERC98DV (GQ-C2857WS-FF ET US)	SKJ72Y5	1
002	Gasket - Front Cover Top and Bottom	AAPL015	2
003	Gasket - Front Cover Sides	AAPL017	2
004	Mounting Plate - Terminal Block and/or GFCI	DZTAD06	1
009	Lightning Protection	ERDJ011	1
011	Wiring Diagram	EYWK001	1
012	Label - Outside Case Caution Label	EWHK303	1
013	Label - Inside Front Cover Caution Label	EYSKO06	1
014	Label - Name Plate	EXSK151	1
016	Air intake deflector plate - plastic	ENJA016	1
017	Exhaust Flue w/ O-Ring and Gasket (SET)	ETHF021	1
018	O-Ring - Exhaust Flue Φ92	ETHF025	1
020	Gasket - Exhaust Flue	ETHF024	2
021	Intake Flue w/ Gasket (SET)	ETHF031	1
025	Thermistor - Air	BWCHO03	1
027	Parts List/Technical sheet	EYWK143	1
030	Wire Clamp - Nylon #4	7287909	1
035	Cover - External Remote Terminal Block	DNSA025	1
036	External Remote Terminal Block	DNSA026	1
037	Label - Remote Terminal Caution Label	ENJKO02	1
038	Power Supply Cord	ERDJ013	1
041	Wire Grommet - Rubber	CXPA026	2
071	Screw - Remote Terminal Cover M4X12 S410		
072	Screw - Long Machine M4X12 S410		
074	Screw - Front Cover with washer M4X12 S410		
076	Screw - GFCI M3.5X6 S430		
077	Screw - Short Tapping M4X8 S410		
079	Screw - Long Tapping M4X12 S410		

Combustion unit and gas route NERC98DV (GQ-C2857WS-FF ET US)
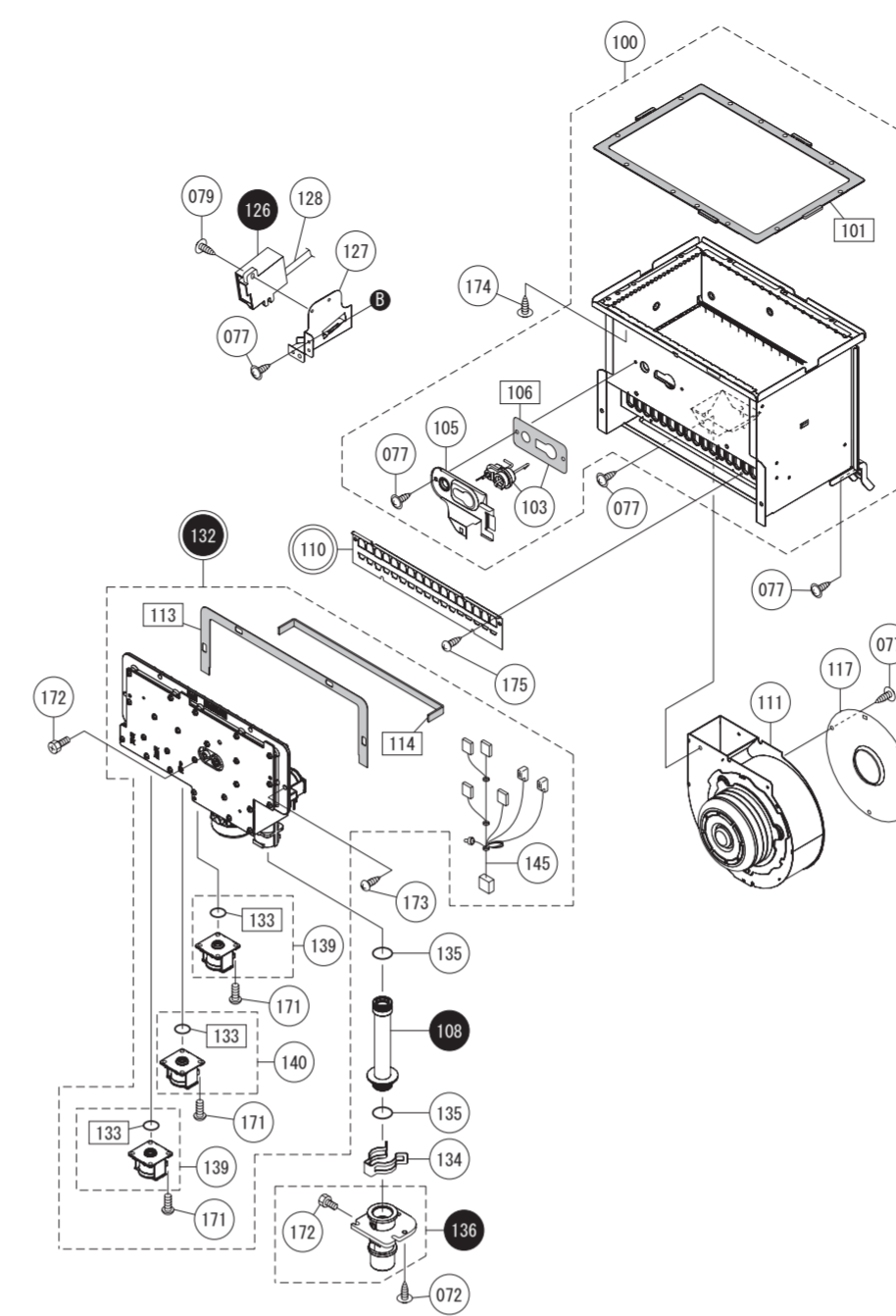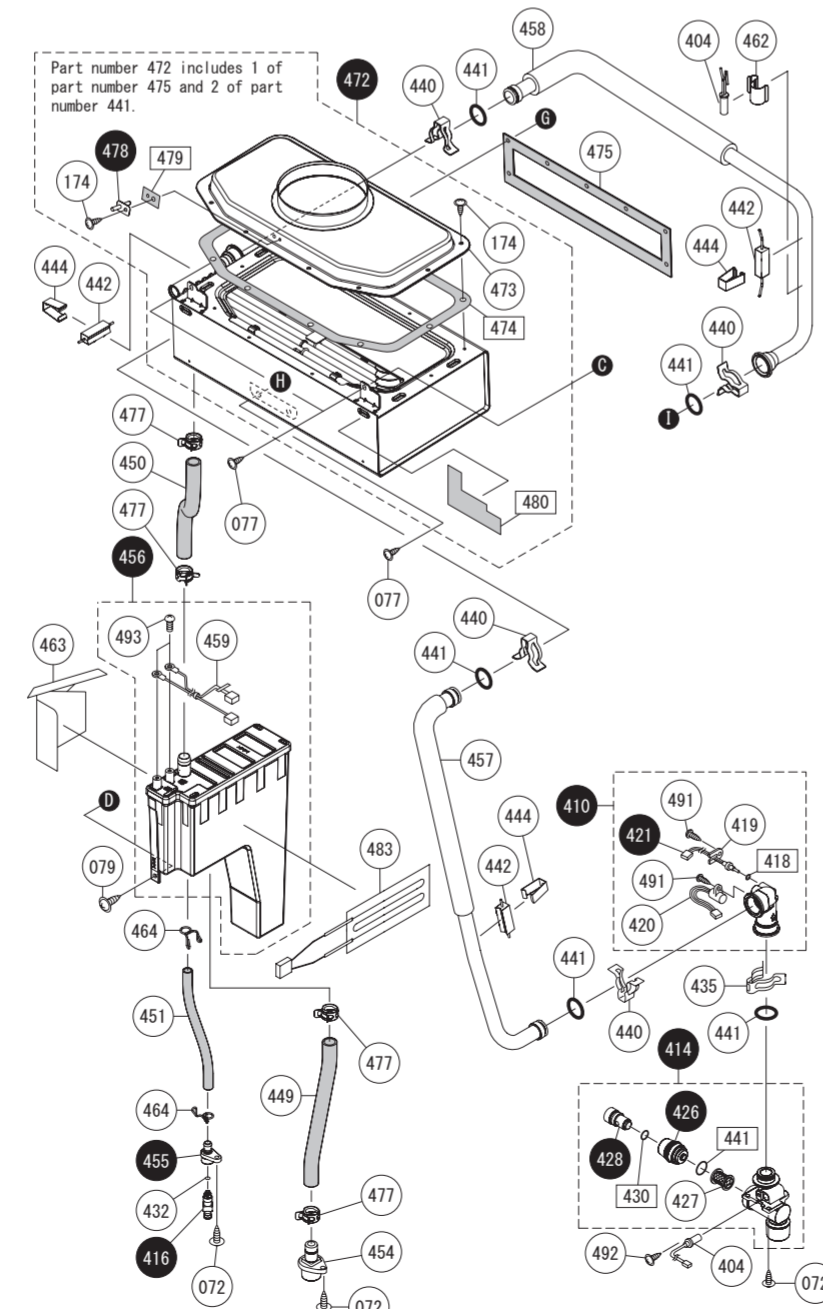

Combustion unit and gas route NERC98DV (GQ-C2857WS-FF ET US)

Part Nos.	Part Names	Order Nos.	Q'ty/unit
100	Burner w/ Gasket and Ignition Plug (SET)	SKG7858	1
101	Gasket - Burner	ERDL011	1
103	Ignition Plug w/ Gasket	SKG7311	1
105	Mounting Plate - Ignition Plug	EGLO014	1
106	Gasket - Ignition Plug	EHKL001	1
108	Gas Pipe	ETHE001	1
110	Burner Damper 17-16	EFWC036	1(LP)
	Burner Damper 17-12	EFWC032	1(NG)
111	Fan Motor w/ Housing	SKD7441	1
113	Gasket - Manifold Plate Top	ERDL007	1
114	Gasket - Manifold Plate Bottom	ERDL009	1
117	Fan Plate φ40	EHKF424	1
126	Igniter	ERDJ112	1
127	Mounting Plate - Igniter	DTJA015	1
128	High Voltage Igniter Wire	SAC1229	1
132	Gas Valve w/ Manifold Plate 16 (SET)	SKG7860	1(LP)
	Gas Valve w/ Manifold Plate 26 (SET)	SKH7026	1(NG)
133	O-Ring - Gas Solenoid	SAA6044	3
134	"C" Clamp - Gas Pipe 16B	6340407	2
135	O-Ring - P18	2110903	2
136	Inlet Gas Connection w/ Screw (SET)	ELVE021	1
139	Gas Manifold Solenoid 1	SKG7315	2
140	Gas Manifold Solenoid 2	SKG7316	1
145	Wiring Harness - Gas Valve	ERDJ015	1
171	Screw - Machine w/ guide M4X12		
172	Screw - Inlet and Manifold Gas M4X8	SAC6082	2
173	Screw - Large Manifold Plate M5X16 S410		
175	Screw - Small Tapping w/o collar M4X8 S410		

Hot-water feed route 1 NERC98DV (GQ-C2857WS-FF ET US)

Part number 400 includes 1 each of part numbers 101,418,475 and 2 of part number 441.

Hot-water feed route 2 NERC98DV (GQ-C2857WS-FF ET US)

Part number 472 includes 1 of part number 475 and 2 of part number 441.

Hot-water feed route NERC98DV (GQ-C2857WS-FF ET US)

Part Nos.	Part Names	Order Nos.	Q'ty/unit
400	Heat Exchanger Kit (DV) (SET)	SKJ72ZC	1
401	Thermal Fuse	SKG7863	1
404	Freeze Prevention Heater - Round Short	ERDH003	4
407	Freeze Prevention Heater - Double Round (SET)	SKG7317	1
408	High Limit Switch - 201	ELVHO02	1
410	Water Flow Sensor (SET)	ERDD011	1
412	Water Servo -Main (SET)	JDWD001	1
413	Outlet Water Connection	EHUD004	1
414	Inlet Water Connection (SET)	ETHD021	1
415	Thermistor - White - W64	BWCD096	1
416	Drain Cock	CRLD003	2
417	Wire Cover - Servo	EBTD023	1
418	O-Ring - Thermistor High Temp P4	1323709	3
419	Thermistor Holding Plate	ALSD088	2
420	Magnetic Sensor - Flow Sensor	BWCD090	1
421	Thermistor - White - Q63	BWCD097	1
424	Thermistor - White - Q64	BWCD098	1
426	Water Filter Cap	ETHD026	1
427	Water Filter	EGBD032	1
428	Safety Relief Valve	SAA2811	1
429	Wiring Harness - Main Water Servo	JBGJO24	1
430	O-Ring - High Temp P9	SAD6635	1
432	O-Ring - High Temp P3	SAD6633	2
435	"C" Clamp - Water Pipe 16A	6340300	2
437	"C" Clamp - Thermistor	CRLD055	1
438	Clamp -Thermal Fuse	EGLHO02	4
439	Clamp -Freeze Prevention	ERDHO11	1
440	"C" Clamp - Water Pipe 16-25	SAD6593	5
441	O-Ring - High Temp P16	3223302	8
442	Freeze Prevention Heater -Rectangle	ERDHO02	4
444	Clamp -Freeze Prevention	AMML001	4
447	Clamp - Harness	SAB2775	1
449	Drain Hose - Condensate	ETHF051	1
450	Drain Hose - SS HEX	ETHF052	1
451	Drain Hose - Container	ETHF053	1
454	Drain Connection - Condensate	EPHF001	1
455	Drain Connection - Neutralizer / Condensate Container	EHDF309	1
456	Condensate Container (SET)	SKG7864	1
457	Pipe - Flow Sensor to SS Heat Exchanger	ETHD001	1
458	Pipe - Heat Exchanger SS to CU	ETHD007	1
459	Wiring Harness - Water Level Electrode	EMLU001	1
462	Clamp - Freeze Prevention	ETHHO03	2
463	Cover - Condensate Container	ETHA024	1
464	Clamp - Container Hose φ8	DEGDO04	2
472	Heat Exchanger Kit - Secondary SS (DV) (SET)	SKG7865	1
473	Exhaust Box	ETPF101	1
474	Gasket - Exhaust Box	ETPL001	1
475	Gasket - Secondary Heat Exchanger	ETHL003	1
477	Clamp - Condensate Hose NO.35	SAD6670	4
478	Thermistor - Exhaust	ETHHO02	1
479	Gasket - Exhaust Thermistor	ETHL004	1
480	Packing - Exhaust Thermistor	ETHL006	1
491	Screw - Round Head Medium Tapping M4X10 S305		
492	Screw - Short Machined M4X6 S410		
493	Screw - Small Tapping M4X20		
494	Screw - Round Head Medium Tapping M4X10 S410		

EYWK144

Electronic control unit, Remote controller and Attached set
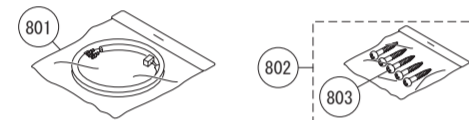## NERC98DV (GQ-C2857WS-FF ET US)

Electronic control unit

076 077 F E A 701 702 700 079 705

FF EYW

Remote controller
RC-7651M-ENG

750 752 760 751 762 x2 761

Attached set

801 802 803
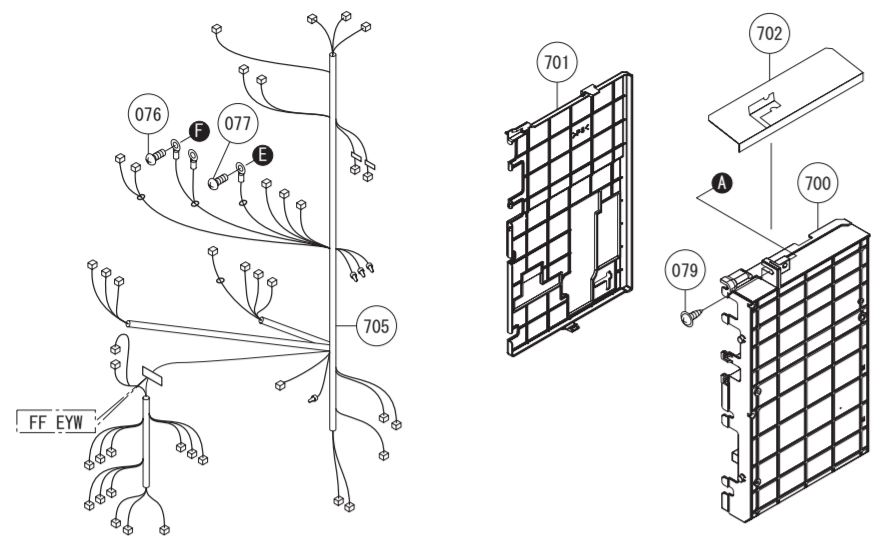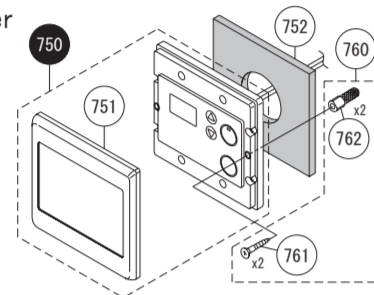
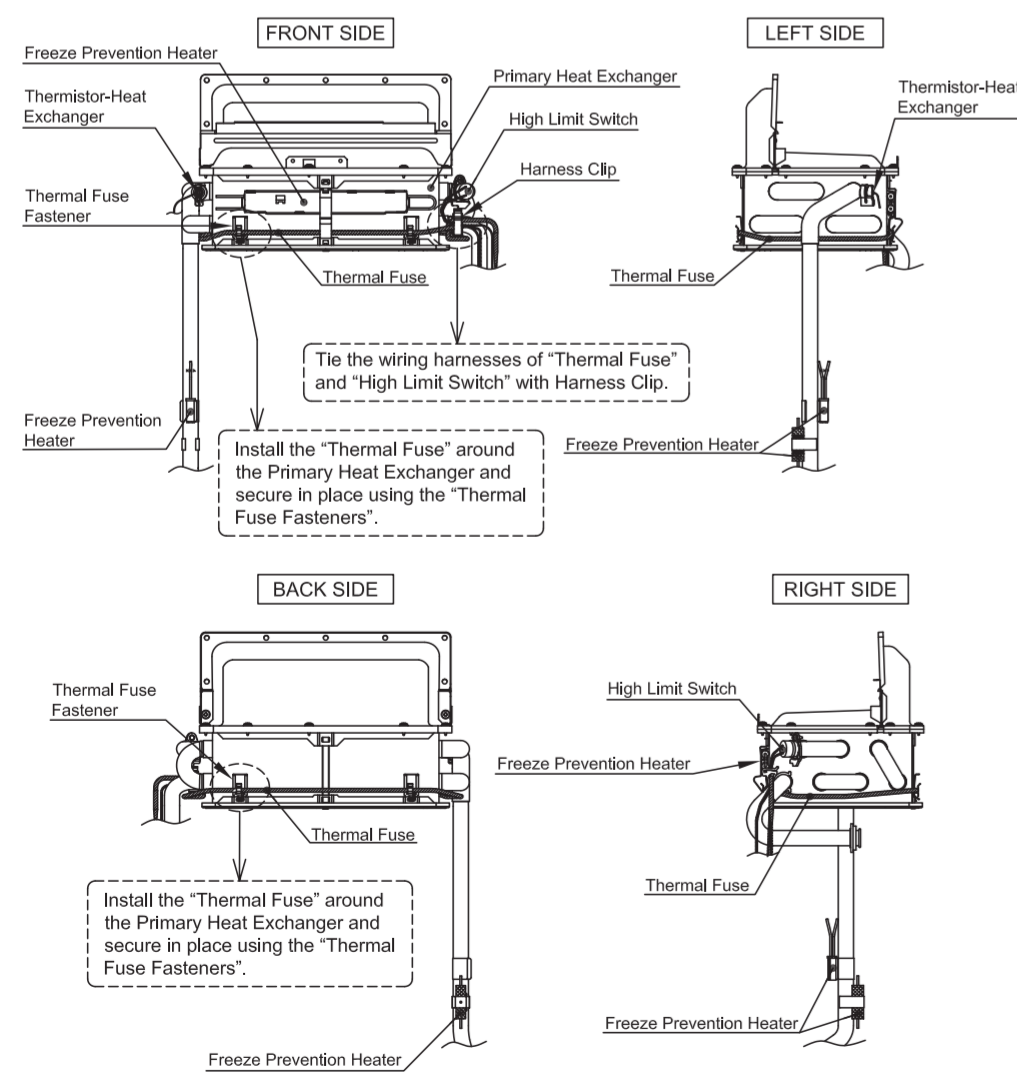| Special part	Special part no.
Owner's guide	888
Installation manual	889

※ To request a French version of the Owner's guide or Installation manual, contact Noritz America.

Electronic control unit, Remote controller and Attached set
NERC98DV (GQ-C2857WS-FF ET US)

Part Nos.	Part Names	Order Nos.	Q'ty/unit
700	Circuit Board	SHC71L5	1
701	Cover - Circuit Board	ERDJO08	1
702	Cover - Circuit Board Water Resistant	ETHAO23	1
705	Wiring Harness - NRC98DV (GQ-C2857WS-FF US)	EYNU021	1
750	Remote Controller - RC-7651M (SET)	QXUJO17	1
751	Cover - Remote	QWEAO03	1
752	Mounting Packing - Remote	QHUA115	1
760	Screw Package - Remote(SET)	QQUA100	1
761	Screw - Round Head Wood M4.1X25 S30S		
762	Dry Wall Anchors6X25		
800	Box - GQ-C3257WX-FF ET US	SKJ72Y7	1
801	Remote Cord - 6ft	ETHWO01	1
802	Wood Screw set5	SAF6007	1
803	Screw Package - Mounting OD	SAB2286	1
	Screw - Mounting Machine M5X12 S430		
888	Owner's Guide	SBB818C	1
889	Installation Manual - NERC98DV (GQ-C2857WS-FF ET US)	SBB818D	1

《Thermal Fuse Replacement Procedure》

Move the "Freeze Prevention Heaters", "Thermal Fuse Fasteners", "High Limit Switch", "Thermistor-Heat Exchanger", and "Harness Clip" from the old Primary Heat Exchanger to the new one.
(See 4 side view pictures below for location of each part.)

FRONT SIDE
Freeze Prevention Heater
Thermistor-Heat Exchanger
Thermal Fuse Fastener
Thermal Fuse
Freeze Prevention Heater
Primary Heat Exchanger
High Limit Switch
Harness Clip

LEFT SIDE
Thermistor-Heat Exchanger
Thermal Fuse
Freeze Prevention Heater

Tie the wiring harnesses of "Thermal Fuse" and "High Limit Switch" with Harness Clip.

Install the "Thermal Fuse" around the Primary Heat Exchanger and secure in place using the "Thermal Fuse Fasteners".

BACK SIDE
Thermal Fuse Fastener
Thermal Fuse
Freeze Prevention Heater

RIGHT SIDE
High Limit Switch
Freeze Prevention Heater
Thermal Fuse

Install the "Thermal Fuse" around the Primary Heat Exchanger and secure in place using the "Thermal Fuse Fasteners".

Procedure for Flushing the Heat Exchanger

This procedure is only intended for use by a qualified service professional or authorized Noritz Service Representative. Any unauthorized use of this procedure may result in voiding the warranty.Please contact Noritz America (866-766-7489) for additional support.
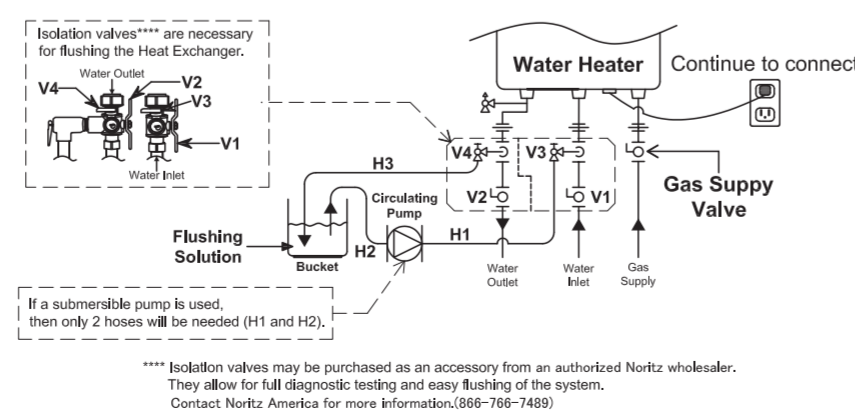
If the error code "C*#*~C*#*" is flashing on the Remote Controller (or Operation Panel**), it means there is Scale Build-up in the Heat Exchanger.The Heat Exchanger needs to be flushed*** to remove the Scale Build-up.
Damage to the water heater due to Scale Build-up is not covered by the water heater's warranty.
To clear the error code "C*#*~C*#*", the Heat Exchanger must be flushed.
If the error code "C*#*" is displayed and flashing on the Remote Controller (or Operation Panel**), please contact Noritz America (866-766-7489).
* * = 1, 2, 3, 4, F   /   # = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
** NR98DVC(GQ-2857WX-FFA US) and NR83DVC(GQ-2457WS-FFA US) only.
*** Connect the "blue connector for flushing" near the Circuit Board when flushing the Heat Exchanger.
After connecting it, the water heater is set to "Flushing Mode".

The water heater must remain connected to electrical power when flushing the Heat Exchanger.

Basic Procedure
### 《Procedure 1. The preparation of the flushing system》
1. Close the gas supply valve.
2. Close the water inlet valve (V1) and the water outlet valve (V2).
3. Connect the one drain hose (H1) to the drain valve (V3), and then the other to the circulating pump.
4. Connect the drain hose (H2) to the circulating pump.
5. Connect the drain hose (H3) to the drain valve (V4).
6. Pour 1 gallon of "Calcium, Lime and Rust Removal Product" and 1 gallon water into the bucket. Noritz recommends "Calcium, Lime and Rust Removal Product" for flushing.
7. Place the both drain hoses (H2 and H3) into the bucket filled with the flushing solution.
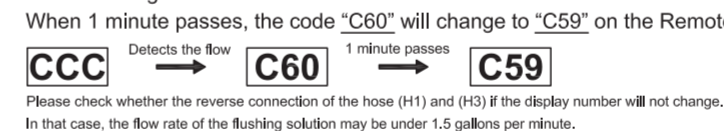8. Open the both drain valves (V3 and V4).

Isolation valves**** are necessary for flushing the Heat Exchanger.
Water Outlet V2 V4 V3 V1 Water Inlet
Water Heater Continue to connect
H3 V4 V3 Gas Suppy Valve V2 V1 H1 Gas Supply
Circulating Pump
H2 Bucket
Water Outlet Water Inlet
Flushing Solution

If a submersible pump is used, then only 2 hoses will be needed (H1 and H2).

**** Isolation valves may be purchased as an accessory from an authorized Noritz wholesaler. They allow for full diagnostic testing and easy flushing of the system. Contact Noritz America for more information.(866-766-7489)

next page

《Procedure 2. Flushing the Heat Exchanger》
1. Open the Front Cover.
2. Connect the "blue connector****** for flushing" near the Circuit Board.

Water Heater
Circuit Board
Manifold Plate
Connect
****** The connector color is blue and labeled "FLUSH".
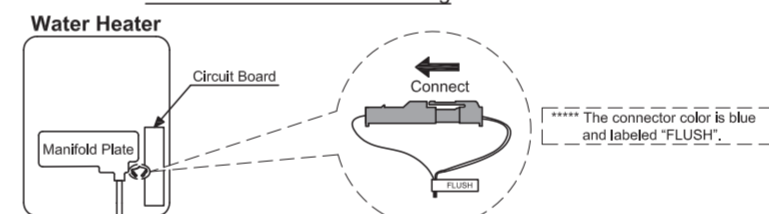
3. Then the code "CCC" is displayed on the Remote Controller. **CCC**
4. Turn on the circulating pump to circulate the flushing solution through the water heater for 1 hour at a rate of 1.5 gallons per minute or more.
5. The code "C60" is displayed on the Remote Controller when the water heater detects the flow of the flushing solution.
When 1 minute passes, the code "C60" will change to "C59" on the Remote Controller.

CCC Detects the flow → **C60** 1 minute passes → **C59**

Please check whether the reverse connection of the hose (H1) and (H3) if the display number will not change. In that case, the flow rate of the flushing solution may be under 1.5 gallons per minute.
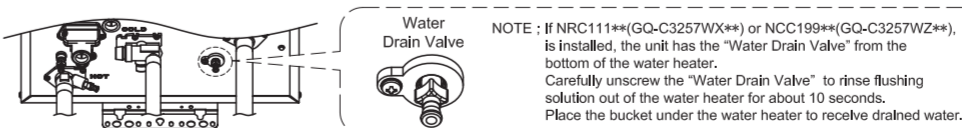
Water Heater
Manifold Plate
Circuit Board
LED light is flashing******
****** LED light is only for "NCC199OD(GQ-C3257WZ US)" and"NCC199DV(GQ-C3257WZ-FF US)". It is flashing while flushing. When 1 hour passes, LED light is OFF.
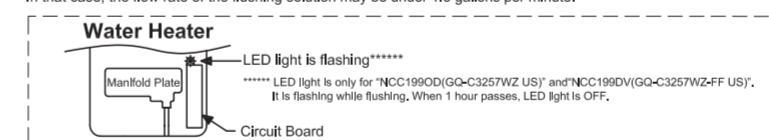
6. When 1 hour passes, the code "C00" is flashing on the Remote Controller. **C00** – Flashing
Do not disconnect the "blue connector for flushing".
7. Turn off the circulating pump.

《Procedure 3. Cleaning the Heat Exchanger》
The flushing solution needs to be rinsed and cleaned out of the water heater.
Below is the way to rinse and clean the flushing solution.
1. Remove both drain hoses (H2 and H3) from the bucket. And then place the drain hose (H3) into the sink or outside to drain.
2. Close the drain valve (V3) and then open the water inlet valve (V1). Do not open the fresh water outlet valve (V2).
3. Clean the water heater with fresh water for 3 minutes or more. (Needs to have enough time to clean the water heater.)

Water Drain Valve
NOTE : If NRC111**(GQ-C3257WX**) or NCC199**(GQ-C3257WZ**), is installed, the unit has the "Water Drain Valve" from the bottom of the water heater. Carefully unscrew the "Water Drain Valve" to rinse flushing solution out of the water heater for about 10 seconds. Place the bucket under the water heater to receive drained water.

4. Close the drain valve (V4) and then remove the drain hose (H3) from the drain valve (V4).
5. Remove the drain hose (H1) from the drain valve (V3).
6. Disconnect the "blue connector for flushing" near the Circuit Board. The code "C00" goes out on the Remote Controller. Disconnect
7. Close the Front Cover.
8. Open the gas supply valve and water outlet valve (V2).
9 Check for correct operation of the water heater.

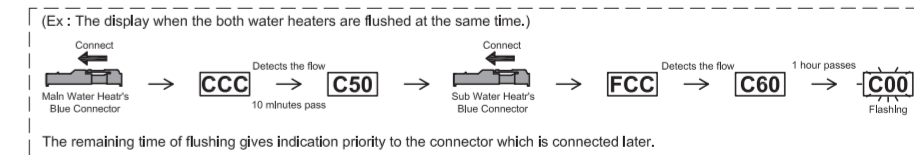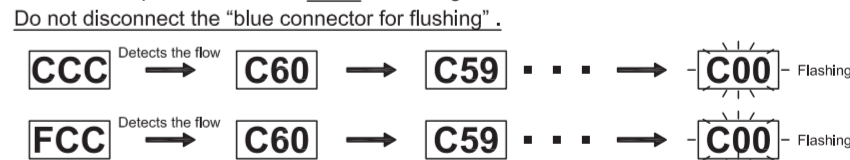## In case of the "Quick Connect Multi System Procedure"
1. Connect the "blue connector for flushing" of need to be flushed.
(The water heater is isolated from Quick Connect Multi system when the "blue connector for flushing" is connected. Not need to disconnect the Quick Connect Cord.)
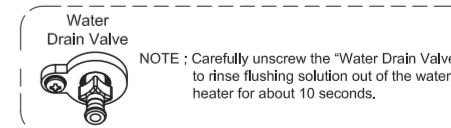
Sub Water Heater Main Water Heater
Circuit Board
Manifold Plate
Connect
Quick Connect Cord
Not need to disconnect.
Remote Controller
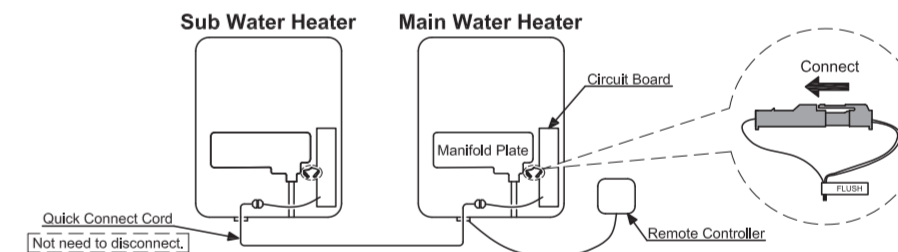
2.Then the code "CCC" or "FCC" is displayed on the Remote Controller.

CCC is displayed when the Main Water Heater's bule connector is connected.
FCC is displayed when the Sub Water Heater's bule connector is connected.

2. Turn on the circulating pump to circulate the flushing solution through the water heater for 1 hour at a rate of 1.5 gallons per minute or more.
(LED light is flashing while flushing the heat exchanger. See the "Procedure 2.5".)
3. When 1 hour passes, the code "C00" is flashing on the Remote Controller.
Do not disconnect the "blue connector for flushing".

CCC Detects the flow → **C60** → **C59** ・・・ → **C00** – Flashing
FCC Detects the flow → **C60** → **C59** ・・・ → **C00** – Flashing

(Ex : The display when the both water heaters are flushed at the same time.)
Main Water Heater's Blue Connector → **CCC** 10 minutes pass → **C50** Connect → Sub Water Heater's Blue Connector → **FCC** Detects the flow → **C60** 1 hour passes → **C00** Flashing
The remaining time of flushing gives indication priority to the connector which is connected later.

4. Turn off the circulation pump.
5. Rinse and clean the flushing solution out of the water heater in accordance with "Procedure 3". (See the "Procedure 3.1~3.5".)

Water Drain Valve
NOTE : Carefully unscrew the "Water Drain Valve" to rinse flushing solution out of the water heater for about 10 seconds.

6. Disconnect the "blue connector for flushing". The Code "C00" goes out on the Remote Controller.
7. Close the Front Cover.
8. Open the gas supply valve and water out let valve.
9. Check for correct operation of the water heater.

See the Installation Manual in case of the "Multi System's Flushing Procedure".

Please contact Noritz America if more information is needed for flushing.
(Phone # : 866-766-7489)