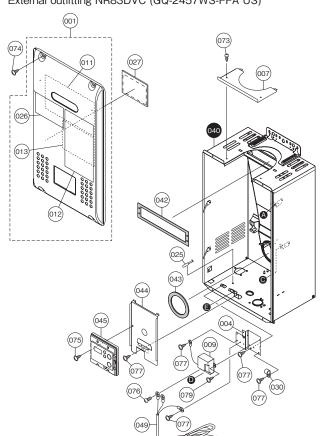
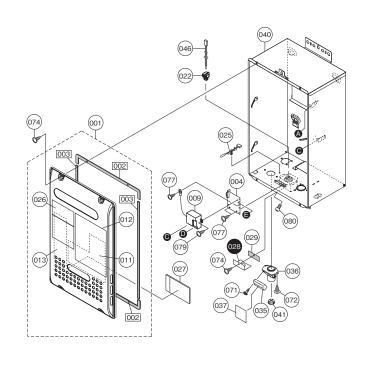
### External outfitting NR83DVC (GQ-2457WS-FFA US)



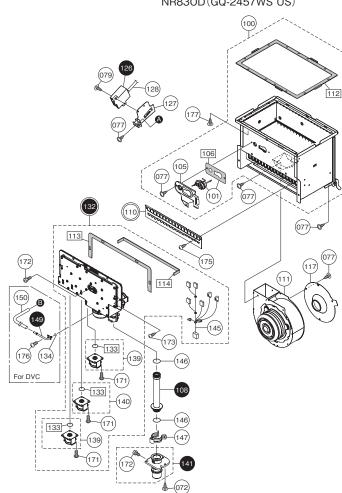
#### External outfitting NR830D (GQ-2457WS US)



## External outfitting NR83DVC (GQ-2457WS-FFA US) NR830D (GQ-2457WS US)

Part Nos.	Part Names	Order Nos.	Q'ty/unit
001	Front Cover - NR83DVC (GQ-2457WS-FFA US)	SKJ71JS	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Front Cover - NR830D (GQ-2457WS US)	SKJ724Y	1 <gq-2457ws us=""></gq-2457ws>
002	Gasket - Front Cover Top and Bottom	EAAL002	2 <gq-2457ws us=""></gq-2457ws>
003	Gasket - Front Cover Sides	AAPL017	2 <gq-2457ws us=""></gq-2457ws>
004	Mounting Plate - Terminal Block and/or GFCI	DZTA006	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Mounting Plate - Terminal Block and/or GFCI	ESWA032	1 <gq-2457ws us=""></gq-2457ws>
007	Cover - Top of Case	ERDA006	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Lightning Protection	ERDJ011	1
011	Wiring Diagram	EYXK002	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Wiring Diagram	EYXK003	1 <gq-2457ws us=""></gq-2457ws>
012	Label - Outside Front Cover Caution Label	ELVK003	1
013	Label - Inside Front Cover Caution Label Label - Inside Front Cover Caution Label	ELVK006 ESWK006	1 <gq-2457ws-ffa us=""> 1<gq-2457ws us=""></gq-2457ws></gq-2457ws-ffa>
022	label - Inside Front Cover Caution Label Inlet Power Wire Clip	ETPA073	1 <gq-2457ws us=""> 1<gq-2457ws us=""></gq-2457ws></gq-2457ws>
022	Thermistor - Air	BWCH003	1 <gq-2457ws us=""></gq-2457ws>
	Label - Name Plate	EYSK151	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
020	Label - Name Plate	EWJK151	1 <gq-2457ws-ffa 03=""></gq-2457ws-ffa>
027	Parts List/Technical sheet	EYXK131	1
028	Junction Box Cover	ENJA025	1 <gq-2457ws us=""></gq-2457ws>
029	Gasket - Junction Box Cover	ENWL005	1 <gq-2457ws us=""></gq-2457ws>
030	Wire Clamp - Nylon #4	7287909	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
035	Cover - External Remote Terminal Block	DNSA025	1 <gq-2457ws us=""></gq-2457ws>
036	External Remote Terminal Block	DNSA026	1 <gq-2457ws us=""></gq-2457ws>
037	Label - Remote Terminal Caution Label	ENJK002	1 <gq-2457ws us=""></gq-2457ws>
040	Case - NR83DVC (GQ-2457WS-FFA US)	ERDA001	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Case - NR830D (GQ-2457WS US)	EYXA001	1 <gq-2457ws us=""></gq-2457ws>
041	Wire Grommet - Rubber	CXPA026	1 <gq-2457ws us=""></gq-2457ws>
042	Gasket - Duct Intake	ERDL003	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
043	Gasket - Fan Intake	ERDL001	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
044	Mounting Plate - Remote Controller	ELVA100	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
045	Remote Controller - RC-7651M Body (SET)	QXUJ015	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
046	Inlet Power Wires	ENJJ020	1 <gq-2457ws us=""></gq-2457ws>
049	Power Supply Cord	ERDJ013	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
-			
071	Screw - Remote Terminal Cover M4X12 S410		<gq-2457ws us=""></gq-2457ws>
072	Screw - Long Machine M4X12 S410		
073	Screw - Medium Tapping M4X12 S410		<gq-2457ws-ffa us=""></gq-2457ws-ffa>
074	Screw - Front Cover with washer M4X12 S410		
075	Screw - Extra Long Tapping M4X20		<gq-2457ws-ffa us=""></gq-2457ws-ffa>
076	Screw - GFCI M3.5X6 S430		
077	Screw - Short Tapping M4X8 S410		
079	Screw - Long Tapping M4X12 S410		
080	Screw - Remote Terminal M4X8 S430		<gq-2457ws us=""></gq-2457ws>

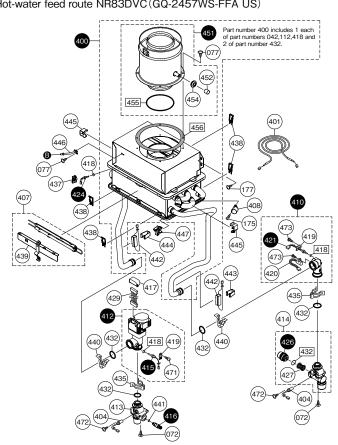
# Combustion unit and gas route NR83DVC(GQ-2457WS-FFA US) NR830D(GQ-2457WS US)



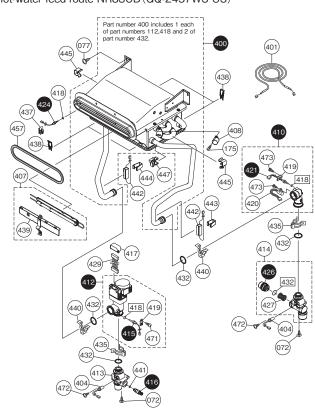
## Combustion unit and gas route NR83DVC(GQ-2457WS-FFA US)

	NR830D(GQ-2457WS US)		
art Nos.	Part Names	Order Nos.	Q'ty/unit
100	Burner w/ Gasket and Ignition Plug (SET)	SKG7314	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Burner w/ Gasket and Ignition Plug (SET)	SKG7858	1 <gq-2457ws us=""></gq-2457ws>
101	Ignition Plug w/ Gasket	SKG7311	1
105	Mounting Plate - Ignition Plug	EGLC014	1
106	Gasket - Ignition Plug	EHKL001	1
	Gas Pipe	ERDE021	1
110	Burner Damper 17-11	EFWC031	1 <lp></lp>
	Burner Damper 17-12	EFWC032	1 <ng></ng>
111	Fan Motor w/ Housing	SKG7342	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Fan Motor w/ Housing	SKC7683	1 <gq-2457ws us=""></gq-2457ws>
112	Gasket - Burner	ERDL011	1
	Gasket - Manifold Plate Top	ERDL007	1
	Gasket - Manifold Plate Top  Gasket - Manifold Plate Bottom	ERDL007 ERDL 009	1
117	Fan Plate	ERDC006	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Fan Plate φ44	CRUC045	1 <gq-2457ws us=""></gq-2457ws>
126	Igniter	ERDJ112	1
	Mounting Plate - Igniter	DTJA015	1
128	High Voltage Igniter Wire	SAC1229	1
	Gas Valve w/ Manifold Plate 14 (SET)	SKG7339	1 <lp></lp>
	Gas Valve w/ Manifold Plate 22 (SET)	SKG7340	1 <ng></ng>
133	O-Ring - Gas Solenoid	SAA6044	3
134	O-Ring - Gas Sciencial O-Ring - Back Pressure Tube P4	2100908	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
139	Gas Manifold Solenoid 1	SKG7315	2
			1
	Gas Manifold Solenoid 2	SKG7316	
	Inlet Gas Connection w/ Screw (SET)	ELVE021	1
	Wiring Harness - Gas Valve	ERDJ015	1
	0-Ring - P18	2110903	2
147	"C" Clamp -16B	6340407	1
149	Tube - Metal Back Pressure Tube	EHKA046	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
150	Tube - Silicone	BVHF007	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
171 172	Screw - Machine w/ guide M4X12 Screw - Inlet and Manifold Gas M4X8	SKJ71RR	2
		SKJ/THH	2
	Screw - Large Manifold Plate M5X16 S410		
	Screw - Small Tapping w/o collar M4X8 S410		
	Screw - Small Tapping M4X6		<gq-2457ws-ffa us=""></gq-2457ws-ffa>
177	Screw - Medium Tapping M4X10 S410		

#### Hot-water feed route NR83DVC(GQ-2457WS-FFA US)



## Hot-water feed route NR830D (GQ-2457WS US)

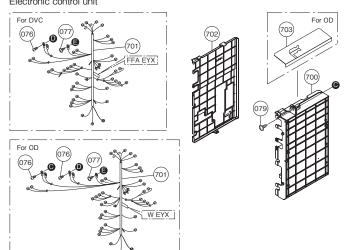


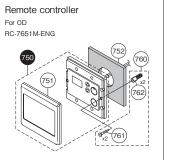
## Hot-water feed route NR83DVC(GQ-2457WS-FFA US) NR830D(GQ-2457WS US)

	B. (No	0.4	01: 1 :
art Nos. 400	Part Names	Order Nos.	Q'ty/unit
400	Heat Exchanger Kit (DVC) (SET)	SKJ71JB	1 <gq-2457ws-ffa td="" us<=""></gq-2457ws-ffa>
401	Heat Exchanger Kit (OD) (SET) Thermal Fuse	SKJ724Z SKG7347	1 <gq-2457ws us=""></gq-2457ws>
404	Freeze Prevention Heater - Round Short	ERDH003	2
407	Freeze Prevention Heater - Double Round (SET)	SKG7317	1
408	High Limit Switch - 201	ELVH002	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)	EHVD001	1
415	Thermistor - White - M64	BWCD096	1
416	Drain Cock	CRUD003	1
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	DTJD006	1
427	Water Filter	EGBD032	1
429	Wiring Harness - Main Water Servo	JBGJ024	1
432	O-Ring - High Temp P16	3223302	5
435	"C" Clamp - Water Pipe 16A	6340300	2
437	"C" Clamp - Thermistor	CRUD055	1
438	Clamp - Thermistor	EGLH002	4
439	Clamp -Freeze Prevention	ERDH011	1
440	"C" Clamp - Water Pipe 16-25	SAD6593	2
441	O-Ring - High Temp P3	SAD6633	1
442		ERDH002	2
	Freeze Prevention Heater -Rectangle		
443	Clamp - Rectangle Heater	AJBL002	1
444	Clamp -Freeze Prevention	AMML001	1
445	Clamp -Thermal Fuse	CMNH003	2
446	Tube - Metal Back Pressure Tube	EHKA046	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
447	Clamp - Harness	SAB2774	1
451	Concentric Flue Pipe (SET)	EYTF090	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
452	Cover - Flue Condensate Drain	ELVF097	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
454	Gasket - Flue Condensate Drain	ELVF096	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
455	O-Ring - Concentric Flue Pipe P80	ELVF098	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
456	Gasket - Flue to Exhaust Box	ELVL019	1 <gq-2457ws-ffa td="" u<=""></gq-2457ws-ffa>
457	Gasket - Exhaust (OD)	CZRL001	1 <gq-2457ws us=""></gq-2457ws>
471 472	Screw - Round Head Medium Tapping M4X10 S410 Screw - Short Machined M4X6 S410		
472			
4/3	Screw - Round Head Medium Tapping M4X10 S305		

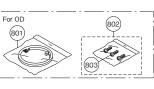
#### Electronic control unit, Remote controller and Attached set NR83DVC(GQ-2457WS-FFA US)·NR830D(GQ-2457WS US)

Electronic control unit





#### Attached set





	<special part=""></special>	
	Special part	Special p
	Owner's guide	888
	Installation manual	889

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Special part	Special part n
Owner's guide	888
Installation manual	880

## Electronic control unit, Remote controller and Attached set NR83DVC(GQ-2457WS-FFA US) · NR830D(GQ-2457WS US)

Part Nos.	Part Names	Order Nos.	Q'ty/unit
700 701	Circuit Board Wiring Harness - NR83DVC (GQ-2457WS-FFA US)	SHC714Z SKJ7251	1 1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
701	Wiring Harness - NR830D (GQ-2457WS-FFA US) Wiring Harness - NR830D (GQ-2457WS US)	SKJ7251 SKJ7250	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
702	Cover - Circuit Board	ERDJ008	1
703	Cover - Circuit Board Water Resistant	ETHA023	1 <gq-2457ws us=""></gq-2457ws>
750	Remote Controller - RC-7651M (SET)	QXUJ017	1 <gq-2457ws us=""></gq-2457ws>
751	Cover - Remote	QMEA003	1 <gq-2457ws us=""></gq-2457ws>
752	Mounting Packing - Remote	QHUA115	1 <gq-2457ws us=""></gq-2457ws>
760	Screw Package - Remote(SET)	QQUA100	1 <gq-2457ws us=""></gq-2457ws>
761	Screw - Round Head Wood M4.1X25 S305		<gq-2457ws us=""></gq-2457ws>
762	Dry Wall Anchors6X25		<gq-2457ws us=""></gq-2457ws>
800	Box	SKG7318	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Box - NR980D (GQ-2857WX US)	SKH7200	1 <gq-2457ws us=""></gq-2457ws>
801	Remote Cord - 6ft	ETHM001	1 <gq-2457ws us=""></gq-2457ws>
802	Wood Screw set5	SAF6007	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
803	Screw Package - Mounting OD Screw - Round Head Wood 4.8X38 S305	SAB2286	1 <gq-2457ws us=""> <gq-2457ws-ffa us=""></gq-2457ws-ffa></gq-2457ws>
803	Screw - Mounting Machine M5X12 S430		<g0-2457ws-ffa 03=""></g0-2457ws-ffa>
888	Owner's Guide	SBB80YQ	1
889	Installation Manual	SBB80JW	1 <gq-2457ws-ffa us=""></gq-2457ws-ffa>
	Installation Manual	SBB80YR	1 <gq-2457ws us=""></gq-2457ws>
-			
			-

### **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).

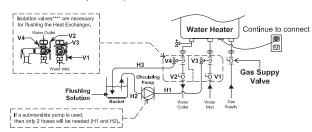
- \*\*=1234F / #=0123456789
- 357WX-FFA US) and NR83DVC(GQ-2457WS-FFA US) only.
- \*\*\* Connect the "blue connector for flushing" near the Circuit Board when flushing the Heat Exchanger. After connecting it, the water heater is set to "Flushing Mode".

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

#### Basic Procedure

≪Procedure 1. The preparation of the flushing system≫

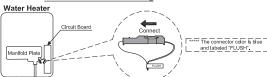
- 1. Close the gas supply valve.
- 2. Close the water inlet valve (V1) and the water outlet valve (V2).
- 3. Connect the one drain hose (H1) to the drain valve (V3), and then the other to the circulating pump
- 4. Connect the drain hose (H2) to the circulating pump
- 5. Connect the drain hose (H3) to 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).



#### ≪Procedure 2. Flushing the Heat Exchanger≫

1. Open the Front Cover.

2. Connect the "blue connector\*\*\*\*" for flushing" near the Circuit Board.



- 3. Then the code "CCC" is displayed on the Remote Controller.
- 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



- 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.

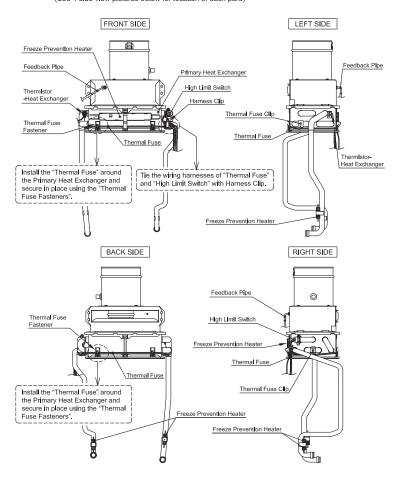
- 1. Remove both drain hoses (H2 and H3) from the bucket. And then place the drain hose (H3) into the sink or outside to drain.
- 2. Close the drain valve (V3) and then open the water inlet valve (V1). Do not open the fresh water outlet valve (V2).
- 3. Clean the water heater with fresh water for 3 minutes or more.



- 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
- 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.

#### ≪Thermal Fuse Replacement Procedure≫

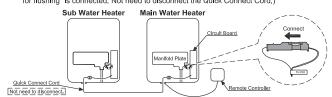
Move the "Freeze Prevention Heaters", "High Limit Switch", "Thermistor-Heat Exchanger" "Feedback Pipe", "Thermal Fuse Fasteners", "Harness Clip", and "Thermal Fuse Clip" from the old Primary Heat Exchanger to the new one. (See 4 side view pictures below for location of each part.)



### 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.)



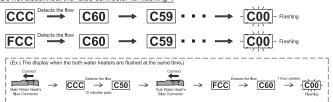
2. Then the code "CCC" or "FCC" is displayed on the Remote Controller.

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".) When 1 hour passes, the code <u>"C00"</u> is flashing on the Remote Controlle

Do not disconnect the "blue connector for flushing".



4. Turn off the circulation pump. (See the "Procedure 3.1-3.5".)

5. Rinse and clean the flushing solution out of the water heater in accordance with "Procedure 3".



- 6. Disconnect the "blue connector for flushing". The Code "C00" goes out on the Remote Controller.
- 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)