



Q4100C Hot Surface Igniter

INSTALLATION INSTRUCTIONS

APPLICATION

Q4100C Hot Surface Igniters are designed to provide a robust field service replacement igniter in gas fired appliances with 120 VAC silicon carbide hot surface igniters. The Q4100C uses a 120 volt silicon carbide igniter design with long life and high resistance to damage or burn out in the appliance. Q4100C models include the silicon carbide igniter, bracket, screw, and wiring accessories to adapt the igniter to the specific appliance application. Clear instructions and cross reference tables are provided to simplify selection of the proper igniter and ease installation of the replacement.

BEFORE YOU START

1. Review this instruction sheet fully to assure you are familiar with steps and information necessary to complete the installation properly.
2. Confirm the existing hot surface igniter has failed:
 - a. Run an appliance cycle and observe the installed igniter.
 - b. If the igniter glows, the problem is not the igniter.
 - c. If the igniter does not glow during an ignition cycle:
 - (1) Unplug the igniter lead wires.
 - (2) Set a voltmeter's scale to 300 VAC and connect the voltmeter to the igniter harness.
 - (3) Run another cycle and confirm 120 VAC power at the harness during the warm up time.
3. If the appliance is a sealed combustion model, determine if the existing hot surface igniter ceramic is part of the sealing of the burner box. If it is, check carefully to determine if the replacement igniter ceramic will properly maintain the existing burner box seal.
4. Confirm the model components:
 - a. one silicon carbide igniter and one bracket
 - b. one mounting screw
 - c. two wire nuts
 - d. some models will include optional male and female connectors
5. Confirm igniter ceramic block and bracket match original igniter to ensure proper installation.

6. Verify connector configuration matches original igniter.
 - a. If provided connectors do not match existing furnace lead wire connection, verify sufficient lead wire length prior to cutting furnace and igniter lead wire.

INSTALLATION

When Installing This Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the cross reference tables on pages 3,4,5, and 6 to make sure the proper igniter is used for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out appliance operation as provided in these instructions.



WARNING

Fire or Explosion or Electrical Shock Hazard. Can cause severe injury, death or property damage.

1. Never install where water can flood, drip or condense on the igniter or its controller.
2. Liquefied petroleum (LP) gas is heavier than air and will not naturally vent upward.
 - Do not operate electric switches, lights, or appliances until you are sure the appliance area is free of gas.
3. Disconnect power supply before beginning wiring or making wiring connections to prevent electrical shock or equipment damage.
4. Q4100C is not intended for use in commercial or residential clothes dryers.

Remove the old igniter assembly

1. Turn off electrical power supply external to the appliance.
2. Turn off gas supply to the appliance.
3. Set thermostat to the lowest setting or OFF.
4. Remove the appliance panel to expose the burner area. If necessary remove the burner box panel to expose the installed igniter.



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5. Disconnect the installed igniter from the appliance wiring harness and move the wiring harness out of the way.
6. Carefully review the location of the installed igniter in the appliance. Pay attention to where the igniter is located relative to the burners and other parts of the appliance. This will help confirm the location of the new igniter for installation.
7. Locate and remove the screw(s) holding the installed igniter or igniter bracket assembly in place. Remove the installed igniter very carefully to avoid damaging it. Retain the screw(s) for re-installation.

NOTE: If there is an orange rubber gasket on the original metal bracket, carefully remove the gasket from the original bracket and use it with the Q4100C bracket.

Select the proper Q4100C igniter

1. Use the cross reference table to determine which igniter models are recommended for replacement. See Table 1 on page 4.
2. Verify that the selected igniter matches the original igniter being replaced.

Install the replacement igniter

1. Carefully position the replacement Q4100C igniter and bracket assembly into the appliance. Position the assembly so the existing mounting screw holes align with the mounting holes or slots in the replacement assembly.
2. Secure the replacement igniter bracket with the original igniter screws.

NOTE: In some applications, the supplied shorter screw may simplify installation.

3. Orient the replacement igniter the same way as the original igniter was positioned and secure it. Be sure the igniter portion does not touch the appliance or burners.
4. Use care to handle the replacement igniter only by the ceramic block or bracket assembly.
5. Carefully route the replacement igniter lead wires away from the burner flame and any moving parts on the combustion air blower in the appliance.
6. Locate the appliance igniter wiring harness. Clip off the connector and strip both wires to 1/4 in. (6 mm).
7. Use the appropriate connector to connect the igniter lead wires to the appliance.
 - a. Some Q4100C models use a dedicated mate-n-lock style connector.
 - (1) Snap connector into corresponding appliance connection.
 - b. In some applications, the provided igniter connector will not match the corresponding appliance connector.

- (1) Use provided wire nuts to attach the igniter lead wires to the appliance wiring harness.
 - (2) The igniter lead wires can be cut shorter if desired.
 - (3) Strip them to 1/4 in. (6 mm) prior to attaching to the appliance wire harness.
- c. Q4100C models with stripped lead wires can use the provided mate-n-lock style connectors.
- (1) Push stripped wire end into provided metal connectors until wire end is snug against the tip of the connector.
 - (2) Crimp flag ends together around wire to secure connector to lead wire.
 - (3) Check existing connector housing to ensure it matches the original igniter
 - (4) Push metal connector into connector housing. The connector should make an audible clicking noise as it seats into the housing.
 - (5) Snap connector into corresponding appliance connection.

Check out the installation

1. Recheck location of the igniter bracket assembly and lead wires to assure there is no interference and that the lead wires will not be exposed to excessive heat or moving parts when the appliance is firing.
2. Recheck the line voltage connections between the igniter harness and the appliance wiring harness to be sure they are secure. Assure that no bare wire is exposed at this connection.
3. Turn the electrical power supply on, but leave the gas supply off, and initiate a light off (call for heat) cycle. Observe the hot surface igniter during the sequence to confirm it gets hot and that there is sufficient clearance between the igniter and other appliance parts. Also confirm that the lead wire routing does not interfere with appliance operation.
4. Remove the call for heat signal.
5. Turn the gas supply on.
6. Initiate a call for heat. Observe the light off sequence and confirm that the appliance lights properly and stays lit once the actual gas flow starts.
7. If the appliance lights and the main flame stays stable, remove the call for heat and allow the shut down sequence to be completed. Repeat step 6 two more times to assure the light off of the appliance is reliable.
8. If the appliance does not light properly, it may be necessary to adjust the location of the hot surface igniter. Turn the gas supply off then loosen the mounting screw(s) and make adjustments. Retighten the screw(s) and repeat from step 5.

Table 1. Q4100C Igniter Replacement Cross Reference.^a

Manufacturer	Part Number	Part Number
Amana	601	Q4100C9048/U
	10041601	Q4100C9042/U
	10755002	Q4100C9046/U
	20165703	Q4100C9054/U
	10735003A	Q4100C9046/U
	138196P01	Q4100C9056/U
	201657-03	Q4100C9048/U
	20165703S	Q4100C9048/U
	B1336102	Q4100C9042/U
	B144676P01	Q4100C9058/U
	B144676P02	Q4100C9052/U
	B340039P01	Q4100C9054/U
	D99182	Q4100C9042/U
	D9918202A	Q4100C9042/U
American Appliance	271B	Q4100C9050/U
American Road Equipment	201W	Q4100C9046/U
American Standard	IGN0030	Q4100C9056/U
American Water Heater	6901800	Q4100C9050/U
	6903767	Q4100C9050/U
	6903768	Q4100C9050/U
	6905032	Q4100C9046/U
Arco Air	1096048	Q4100C9066/U
	1380680	Q4100C9066/U
	100-9980	Q4100C9046/U
Armstrong	38322B001	Q4100C9046/U
Barnett Brass	661923	Q4100C9042/U
	661925	Q4100C9050/U
	661926	Q4100C9052/U
	661927	Q4100C9056/U
	661928	Q4100C9060/U
	661929	Q4100C9054/U
Carlin	87197	Q4100C9064/U
	87197S	Q4100C9064/U
Carrier/ Bryant/ Payne	LH33ZS001A	Q4100C9056/U
	LH33ZS002	Q4100C9056/U
	LH33ZS003	Q4100C9056/U
	LH33ZS004	Q4100C9056/U

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Manufacturer	Part Number	Part Number
Claire Brothers	C-238	Q4100C9046/U
	C-242	Q4100C9046/U
Coleman	1474-051	Q4100C9046/U
	1474-052	Q4100C9046/U
Comfort Maker	1096048	Q4100C9066/U
Comfort Zone	150114-04-01	Q4100C9050/U
Detroit Radiant	201D	Q4100C9068/U
DMO Industries	20834	Q4100C9046/U
Dornback	271W	Q4100C9046/U
Ducane	20015201	Q4100C9056/U
Eaton	F1-402	Q4100C9046/U
	F1-403	Q4100C9046/U
	F1-404	Q4100C9048/U
	F1-407	Q4100C9052/U
	FI-401	Q4100C9042/U
	FI-405	Q4100C9068/U
	FI-406	Q4100C9050/U
	FI-408	Q4100C9054/U
	FI-409	Q4100C9056/U
	FI-410	Q4100C9058/U
FI-412	Q4100C9062/U	
Enerco	10399	Q4100C9046/U
EZFLOW	62374	Q4100C9062/U
Frigidaire	6320770	Q4100C9046/U
	6320880	Q4100C9046/U
	6323540	Q4100C9046/U
	632-3540	Q4100C9046/U
	RH622286893	Q4100C9046/U
Gemline	IG-106	Q4100C9050/U
	IG-107	Q4100C9062/U
General Electric	WG37X11	Q4100C9056/U
	WG37X34	Q4100C9056/U
Glow Core	1950001	Q4100C9050/U
	FY 009	Q4100C9050/U
	HSRK7	Q4100C9050/U
Goodman	B11726-06	Q4100C9046/U
	B1401009	Q4100C9062/U
	B14010-15S	Q4100C9066/U

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Manufacturer	Part Number	Part Number
Grimsby Stove	ZCO-350	Q4100C9046/U
GSW	71082	Q4100C9062/U
	86483	Q4100C9062/U
HB Smith	9050	Q4100C9046/U
	50018	Q4100C9068/U
	101344	Q4100C9068/U
	11148245	Q4100C9068/U
Heatmaker	2400-048	Q4100C9042/U
	2400-286	Q4100C9042/U
	2400-359	Q4100C9042/U
	3079-100	Q4100C9042/U
	9330-102	Q4100C9042/U
Heil-Quaker	1001344	Q4100C9068/U
	1009604	Q4100C9062/U
	1009648	Q4100C9062/U
	1096048	Q4100C9066/U
	1148145	Q4100C9068/U
	10096047	Q4100C9062/U
Integra	3260618	Q4100C9046/U
Intercity	1009604	Q4100C9062/U
	1096048	Q4100C9066/U
Janitrol Goodman	0230K00001	Q4100C9048/U
	B1401009	Q4100C9062/U
	B1401015S	Q4100C9066/U
	B1401018	Q4100C9066/U
	B140109S	Q4100C9066/U
LB White	120-07549	Q4100C9046/U
Lennox	36N77	Q4100C9056/U
	36N7701	Q4100C9056/U
	96P01	Q4100C9042/U
	96P0101	Q4100C9042/U
	98P77	Q4100C9068/U
	98P78	Q4100C9054/U
Lochinvar	LCVT27021G	Q4100C9050/U
	PLT2702	Q4100C9050/U
Luxaire	25326250000	Q4100C9046/U
Maddox	201	Q4100C9056/U
Majestic	75-92-104	Q4100C9046/U
	75-92-105	Q4100C9046/U

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Manufacturer	Part Number	Part Number
Metzger	201N	Q4100C9046/U
	201W	Q4100C9046/U
Mor-Flo	3200580	Q4100C9050/U
	3200618	Q4100C9046/U
	3210401	Q4100C9050/U
Nordyne	105141000	Q4100C9046/U
	632-0770	Q4100C9046/U
	632-0880	Q4100C9046/U
Norton/ St. Gobain	201	Q4100C9056/U
	271	Q4100C9056/U
	201A	Q4100C9042/U
	201B	Q4100C9050/U
	201C	Q4100C9064/U
	201D	Q4100C9068/U
	201J	Q4100C9050/U
	201K	Q4100C9046/U
	201L	Q4100C9046/U
	201M	Q4100C9050/U
	201N	Q4100C9046/U
	201P	Q4100C9046/U
	201R	Q4100C9046/U
	201R	Q4100C9046/U
	201W	Q4100C9046/U
	201Y	Q4100C9050/U
	271A	Q4100C9042/U
	271M	Q4100C9048/U
	271M	Q4100C9050/U
	271M	Q4100C9056/U
	271N	Q4100C9046/U
271NM	Q4100C9062/U	
271NM	Q4100C9066/U	
271P	Q4100C9068/U	
271Q	Q4100C9042/U	
271W	Q4100C9046/U	
271Y	Q4100C9050/U	
	MB258909	Q4100C9042/U
	MB258910	Q4100C9056/U
	MB258911	Q4100C9046/U
	MB258912	Q4100C9048/U
	MB457025	Q4100C9054/U

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Manufacturer	Part Number	Part Number
Norton/ St. Gobain	MB457025	Q4100C9066/U
	MB457026	Q4100C9068/U
	MB457027	Q4100C9050/U
	MB457038	Q4100C9052/U
	MB457551	Q4100C9058/U
	MB457555	Q4100C9056/U
	MB458902	Q4100C9062/U
	MB460218	Q4100C9064/U
	MB478152	Q4100C9064/U
	MB478264	Q4100C9046/U
	MB478265	Q4100C9048/U
	MB478266	Q4100C9054/U
	MB478267	Q4100C9068/U
	MB478268	Q4100C9050/U
	MB478270	Q4100C9058/U
	MB478272	Q4100C9062/U
MB478601	Q4100C9050/U	
Olsen	26789	Q4100C9046/U
Perfection Schwank	108803-G1	Q4100C9050/U
Raypak	50015	Q4100C9056/U
	600915	Q4100C9056/U
Raytheon	D9918202A	Q4100C9042/U
Rheem	904343000	Q4100C9056/U
	62-22441-01	Q4100C9046/U
	62-22441-01	Q4100C9054/U
	62-22668-93	Q4100C9054/U
	62-22868-02	Q4100C9046/U
	62-22868-82	Q4100C9060/U
	62-22868-82	Q4100C9060/U
62-22868-93	Q4100C9046/U	
Roberts Gordon	90436600	Q4100C9046/U
	904343000	Q4100C9056/U
Robertshaw	41-401	Q4100C9042/U
	41-401N	Q4100C9042/U
	41-402	Q4100C9046/U
	41-402N	Q4100C9046/U
	41-403	Q4100C9056/U
	41-403N	Q4100C9056/U
	41-404	Q4100C9048/U

Table 1. Q4100C Igniter Replacement Cross Reference.^a

Manufacturer	Part Number	Part Number
Robertshaw	41-404N	Q4100C9048/U
	41-405	Q4100C9068/U
	41-405N	Q4100C9068/U
	41-406	Q4100C9050/U
	41-406N	Q4100C9050/U
	41-407	Q4100C9052/U
	41-407N	Q4100C9052/U
	41-408	Q4100C9054/U
	41-408N	Q4100C9054/U
	41-409	Q4100C9056/U
	41-409N	Q4100C9056/U
	41-410	Q4100C9058/U
	41-410N	Q4100C9058/U
	41-411	Q4100C9060/U
41-411N	Q4100C9060/U	
41-412	Q4100C9062/U	
41-412N	Q4100C9062/U	
41-413	Q4100C9064/U	
41-414	Q4100C9066/U	
Ruud	62-22868-02	Q4100C9046/U
Ruud	62-22868-93	Q4100C9046/U
Snyder General	1380654	Q4100C9056/U
	1380672	Q4100C9056/U
	1380680	Q4100C9056/U
Starlite	11120-100-1401	Q4100C9042/U
	11120-100-1402	Q4100C9046/U
	11120-100-1403	Q4100C9056/U
	11120-100-1405	Q4100C9048/U
	11120-100-1406	Q4100C9050/U
	11120-100-1407	Q4100C9052/U
	11120-100-1408	Q4100C9054/U
	11120-100-1409	Q4100C9056/U

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Manufacturer	Part Number	Part Number
Supco	SIG-106	Q4100C9050/U
	SIG107	Q4100C9062/U
	SIG-108	Q4100C9060/U
	SIG-401	Q4100C9042/U
	SIG-402	Q4100C9046/U
	SIG-403	Q4100C9056/U
	SIG-405	Q4100C9068/U
	SIG-406	Q4100C9050/U
Supco	SIG-407	Q4100C9052/U
	SIG-408	Q4100C9054/U
	SIG-409	Q4100C9056/U
	SIG-410	Q4100C9058/U
	SIG-412	Q4100C9062/U
	SIG-414	Q4100C9066/U
Superior Fireplace	94851	Q4100C9046/U
Temp Controls	9302-094	Q4100C9068/U
Tempstar	1096048	Q4100C9066/U
Trane	B138196P01	Q4100C9056/U
	B144676P01	Q4100C9058/U
	B144676P02	Q4100C9052/U
	B340039P01	Q4100C9054/U
	IGN00026	Q4100C9056/U
	IGN00030	Q4100C9052/U
	IGN00034	Q4100C9054/U
	IGN00054	Q4100C9050/U
	IGN-0034	Q4100C9054/U
	IGN21	Q4100C9046/U
	IGN23	Q4100C9046/U
	IGN23	Q4100C9056/U
	IGN26	Q4100C9056/U
Trane	IGN30	Q4100C9052/U
	IGN34	Q4100C9054/U
	ING00023	Q4100C9046/U

Table 1. Q4100C Igniter Replacement Cross Reference.^a

Manufacturer	Part Number	Part Number
Uni-Line	63475	Q4100C9058/U
	10530	Q4100C9062/U
	63467	Q4100C9046/U
	63468	Q4100C9056/U
	63469	Q4100C9048/U
	63470	Q4100C9068/U
	63472	Q4100C9052/U
	63473	Q4100C9054/U
	63474	Q4100C9056/U
	63477	Q4100C9060/U
	64206	Q4100C9064/U
	64346	Q4100C9066/U
	66201310530	Q4100C9062/U
41-238	Q4100C9046/U	
Uni-Line	41-242	Q4100C9046/U
Viessman	9302-094	Q4100C9068/U
Wayne Home Equipment	62821-001	Q4100C9046/U
	62821-002	Q4100C9046/U
Weil McLain	79074	Q4100C9046/U
	511-330-139	Q4100C9056/U
	511-330-188	Q4100C9050/U
	511-330-190	Q4100C9048/U
	511-330-193	Q4100C9056/U
Whirlpool	99794322	Q4100C9042/U
	99794323	Q4100C9046/U
	99794326	Q4100C9050/U
	99794328	Q4100C9054/U
	999794327	Q4100C9052/U

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Manufacturer	Part Number	Part Number
White Rodgers	99796417	Q4100C9068/U
	99911563	Q4100C9070/U
	99911564	Q4100C9072/U
	5E809	Q4100C9044/U
	5E810	Q4100C9040/U
	5E811	Q4100C9068/U
	767-301	Q4100C9068/U
	767-A303	Q4100C9040/U
	767A-306	Q4100C9068/U
	767A-309	Q4100C9070/U
	767A-310	Q4100C9070/U
	767A-311	Q4100C9072/U
	767A-35	Q4100C9046/U
	767A-350	Q4100C9068/U
	767A-352	Q4100C9042/U
	767A353	Q4100C9040/U
	767A-354	Q4100C9068/U
	767A-356	Q4100C9042/U
	767A-356	Q4100C9044/U
	767A-357	Q4100C9040/U
	767A-361	Q4100C9068/U
	767A-364	Q4100C9072/U
	767A-365	Q4100C9070/U
	767A-366	Q4100C9072/U
767A-369	Q4100C9042/U	
767A-369	Q4100C9042/U	
White Rodgers	767A-370	Q4100C9056/U
	767A-371	Q4100C9046/U
	767A-372	Q4100C9054/U
	767A-373	Q4100C9062/U
	767A-374	Q4100C9050/U
	767A-375	Q4100C9064/U
	767A-376	Q4100C9052/U
	767A-377	Q4100C9058/U
	767A-382	Q4100C9048/U
	767A-383	Q4100C9060/U
767A-384	Q4100C9066/U	

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Manufacturer	Part Number	Part Number
Williamson	950	Q4100C9046/U
York	025-25435-000	Q4100C9070/U
	025-27766-000	Q4100C9068/U
	025-27774-000	Q4100C9068/U
	025-29043-000	Q4100C9068/U
	025-29050-000	Q4100C9068/U
	025-32625-000	Q4100C9046/U

^a Table data is correct to the best of Resideo’s knowledge as of this publication’s date. However, some appliances may have igniter applications that are beyond the capabilities of this kit.

Q4100C HOT SURFACE IGNITER



resideo

Resideo Inc., 1985 Douglas Drive North,
Golden Valley, MN 55422

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