

1965-66 Chevrolet Impala without Factory Air

without Factory Air Gen 5 Evaporator Kit (561358)



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Important Notice—Please Read

For Maximum System Performance, Vintage Air Recommends the Following:

NOTE: Vintage Air systems are designed to operate with R134a refrigerant only. Use of any other refrigerant could damage your A/C system and/or vehicle, and possibly cause a fire, in addition to potentially voiding the warranties of the A/C system and its components.

Refrigerant Capacities:

Vintage Air System: 1.8 lbs. (28.8 oz.) or 816 grams of **R134a**, charged by weight with a quality charging station or scale. **NOTE: Use of the proper type and amount of refrigerant is critical to system operation and performance.**

Other Systems: Consult manufacturer's guidelines.

Lubricant Capacities:

New Vintage Air-Supplied Sanden Compressor: No additional oil needed (Compressor is shipped with proper oil charge).

All Other Compressors: Consult manufacturer (Some compressors are shipped dry and will need oil added).

Safety Switches

Your Vintage Air system is equipped with a binary pressure safety switch. A binary switch disengages the compressor clutch in cases of extreme low pressure conditions (refrigerant loss) or excessively high head pressure (406 PSI) to prevent compressor damage or hose rupture. A trinary switch combines Hi/Lo pressure protection with an electric fan operation signal at 254 PSI, and should be substituted for use with electric fans. Compressor safety switches are extremely important since an A/C system relies on refrigerant to circulate lubricant.

Service Info:

Protect Your Investment: Prior to assembly, it is critical that the compressor, evaporator, A/C hoses and fittings, hardlines, condenser and receiver/drier remain capped. Removing caps prior to assembly will allow moisture, insects and debris into the components, possibly leading to reduced performance and/or premature failure of your A/C system. This is especially important with the receiver/drier.

Additionally, when caps are removed for assembly, **BE CAREFUL!** Some components are shipped under pressure with dry nitrogen.

Evacuate the System for 35-45 Minutes: Ensure that system components (Drier, compressor, evaporator and condenser) are at a temperature of at least 85°F. On a cool day, the components can be heated with a heat gun *or* by running the engine with the heater on before evacuating. Leak check and charge to specifications.

Bolts Passing Through Cowl and/or Firewall:

To ensure a watertight seal between the passenger compartment and the vehicle exterior, for all bolts passing through the cowl and/or firewall, Vintage Air recommends coating the threads with silicone prior to installation.

Heater Hose (not included with this kit):

Heater hose may be purchased from Vintage Air (Part#31800-VUD) or your local parts retailer. Routing and required length will vary based on installer preference.



Important Wiring Notice—Please Read

Some vehicles may have had some or all of their radio interference capacitors removed. There should be a capacitor found at each of the following locations:

- 1. On the positive terminal of the ignition coil.
- 2. If there is a generator, on the armature terminal of the generator.
- 3. If there is a generator, on the battery terminal of the voltage regulator.

Most alternators have a capacitor installed internally to eliminate what is called "whining" as the engine is revved. If whining is heard in the radio, or just to be extra cautious, a radio interference capacitor can be added to the battery terminal of the alternator.

It is also important that the battery lead is in good shape and that the ground leads are not compromised. There should be a heavy ground from the battery to the engine block, and additional grounds to the body and chassis.

If these precautions are not observed, it is possible for voltage spikes to be present on the battery leads. These spikes come from ignition systems and charging systems, and from switching some of the vehicle's other systems on and off. Modern computer-operated equipment can be sensitive to voltage spikes on the power leads, which can cause unexpected resets, strange behavior and/or permanent damage.

Vintage Air strives to harden our products against these types of electrical noise, but there is a point where a vehicle's electrical system can be degraded so much that nothing can help.

Radio interference capacitors should be available at most auto and truck parts suppliers. They typically are cylindrical in shape, a little over an inch long and a little over a half-inch in diameter, and they have a single lead coming from one end of the cylinder with a terminal on the end of the wire, as well as a mounting clip which is screwed into a good ground on the vehicle. The specific value of the capacitance is not too significant in comparison to ignition capacitors that are matched with the coil to reduce pitting of the points.

- Care must be taken, when installing the compressor lead, not to short it to ground. The compressor lead must not be connected to a condenser fan or to any other auxiliary device. Shorting to ground or connecting to a condenser fan or any other auxiliary device may damage wiring or the compressor relay, and/or cause a malfunction.
- When installing ground leads on Gen 5 systems, the blower control ground and ECU ground must be connected directly to the negative battery post.
- For proper system operation, the heater control valve must be connected to the ECU.



Engine Compartment Disassembly

NOTE: Before starting the installation, check the function of the vehicle (horn, lights, etc.) for proper operation, and study the instructions, illustrations, photos & diagrams.

Perform the following:

- **1.** Disconnect the battery and remove it from the vehicle.
- 2. Drain the radiator.
- 3. Remove the OEM heater hoses from the intake, water pump and firewall (See Photo 1, below).
- **4.** Jack up the vehicle and support it with jack stands, then remove the passenger-side front wheel (See Photo 2, below).
- **5.** Remove the battery tray and all mounting bolts to the passenger-side inner fender, then carefully lower and remove the inner fender (See Photo 3, below).
- 6. Remove the (2) inner fender bracket bolts, then remove the bracket (retain) (See Photo 4, below).
- 7. Disconnect the blower power wire.
- 8. Remove the (7) blower mounting bolts, then remove the blower assembly (discard). NOTE: To remove the evaporator and blower assembly (under the hood), and the air distribution system (under the dash), the factory manual recommends removing the passenger-side inner fender.
- 9. Remove the (3) fresh air duct mounting screws (See Photo 5, below).



Photo 1



Photo 2







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- Remove the (14) dash bezel mounting screws and carefully remove the dash bezel (See Photos 5, 6, 7 and 8, below). NOTE: It may be necessary to move the gear selector all the way down to remove the dash bezel. Ensure to engage the parking brake before doing so for safety.
- 4. Remove the (2) control panel mounting screws from the lower dash (retain screws) (See Photo 9, below). Disconnect the (2) lights, plugs, cables and vacuum lines from the panel, then carefully remove the control panel from the dash.
- **5.** Disconnect the plugs and cable holders from the heater core housing, then remove the housing from the vehicle.
- **6.** Remove the (3) defrost duct mounting screws, then remove the duct from the dash (discard) (See Photos 10, 11 and 12, below).
- 7. Discard all vacuum lines and connections, as they will no longer be needed.







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Properly Seated O-ring Land

When installing a hardline or A/C hose fitting onto the evaporator module, ensure the O-ring land is seated properly (See Photo 1, below). An improperly seated O-ring land (See Photo 2, below) can cause a leak. To properly install the fitting, slide the hardline or A/C hose nut back to expose the O-ring land and seat it onto the evaporator module fitting. Then, slide the hardline or A/C hose nut forward and thread it onto the evaporator module fitting, ensuring the O-ring land does not move or lift.



Improperly Seated O-ring Land



Photo 1

NOTE: Photos shown are for reference only. Fittings may vary depending on kit received.

Evaporator Preparation

Photo 2

Perform the following on a workbench:

- 1. Install (3) 1/2" plastic plugs into the back (See Photos 1 and 2, below). NOTE: These mounting positions will not be used for this application.
- Remove the plastic caps and rubber inserts from the heater coil (See Photos 3 and 4, below), and install the upper and lower 45° heater fittings onto the evaporator module (See Photo 5, below) using (2) properly lubricated #10 O-rings (See Lubricating O-rings, Page 11).





Photo 10

Secure using (2) #10 x 5/8" screws

Photo 7

Photo 9

Photo 11

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Photo 12

Using (2) spring

clips, install defrost plenum

Floor Plenum

625340







NOTE: All hoses install through the fresh air cap large grommets, then into the opening in the engine compartment through the kick panel opening. Be sure the fresh air cap is in the proper position before installing hoses.

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- 1. Insert a length of heater hose through the top-right large grommet on the fresh air cap (See Photo 1, below).
- Insert a length of heater hose through the bottom-right large grommet on the fresh air cap (See Photo 1, below).
- **3.** Insert the 45° fitting of the #6 drier/evaporator A/C hose through the bottom-left large grommet on the fresh air cap (See Photo 1, below).
- Insert the 45° fitting on the #10 compressor/evaporator A/C hose through the top-left large grommet on the fresh air cap (See Photo 1, below).
- 5. Insert the first heater hose through the top-left large grommet on the kick panel cover (See Photo 2, below).
- Insert the second heater hose through the bottom-left large grommet on the kick panel cover (See Photo 2, below).
- Insert the 45° fitting of the #6 drier/evaporator A/C hose through the bottom-right large grommet on the kick panel cover (See Photo 2, below).
- Insert the 45° fitting on the #10 compressor/evaporator A/C hose through the top-right large grommet on the kick panel cover (See Photo 2, below). NOTE: Temporarily remove the large grommet from the kick panel cover to ease the insertion of the #10 hose fitting.







Evaporator & A/C Hose Installation (Cont.)

- 5. Install (2) 1/4-20 well nuts into the mounting provisions of the module (See Photos 3 and 4, below).
- Loosely install the cowl bracket onto the evaporator using (2) 1/4-20 x 1" serrated flange bolts (See Photo 5, below).
- 7. From the engine compartment, install (3) 1/4-20 x 3/4" serrated flange black bolts, replacing the (2) 1/4-20 x 1" full-threaded studs (See Photo 6, below). NOTE: Do not fully tighten at this time.
 - NOTE: To ensure proper drainage, it is important that the evaporator is level, both left-right and fore-aft. Check for level on the flat portions of the case around the drain
- Once the evaporator module is leveled, using (2) #12 x 1/2" self-tapping screws secure the front mounting bracket to the cowl (See Photo 7, below). Tighten all mounting hardware, (3) bolts on the firewall and (2) on the evaporator module.
- **9**. Using a properly lubricated #6 O-ring (See Lubricating O-rings, Page 11) install the 45° fitting of the #6 drier/evaporator A/C hose onto the block adapter on the evaporator module (See Photo 8, below).
- 10. Using a properly lubricated #10 O-ring (See Lubricating O-rings, Page 11) install the 45° fitting of the #10 compressor/evaporator A/C hose onto the block adapter on the evaporator module (See Photo 9, below).
- 11. Once the #10 fitting is installed, wrap all exposed metal with the supplied press tape (See Photo 10, below).





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- 1. Locate the evaporator drain on the bottom of the evaporator case.
- Install the drain hose onto the outlet on the evaporator unit, and route it through the previously drilled 5/8" hole on the lower firewall (See Photo 1, below).



ECU Wiring Harness Installation

- Connect the main harness plug to the ECU (See Photo 1, below). Locate the control panel plug and connect it to the ECU (follow steps included with control panel instructions) (See Photo 1, below).
- Connect the blower speed controller plug into the main wiring harness plug (orange and green wires) (See Photo 2, below).
- **3**. Route the violet power wire to a switched 12v power source on the fuse panel (See Photo 3, below). **NOTE: This requires a male fuse extension (not supplied)**.
- Connect the tan wire to the factory dash lights to enable control panel backlighting.



Control Panel Installation

NOTE: Follow the instructions provided with the new control panel kit before continuing with the installation.

Install the new control panel into the OEM mounting location. Do not secure it at this time (See Photo 1, below).





Under Dash Louver Preparation and Installation

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NOTE: If your vehicle is equipped with a power antenna or convertible top switch, it will have to be relocated to the bottom of the under dash louver. The following instructions are for switch relocation, if there is no switch in your vehicle proceed to Step 6.

- 1. Remove the switch from the under dash and retain the hardware (See Photo 1, below).
- **2**. Locate the under dash portion of the driver-side under dash louver bezel.
- 3. Select a location on the bottom side of the louver bezel for the switch (See Photo 2, below). NOTE: Confirm there is enough wiring to reach the selected location.
- 4. Place the switch bezel on the bottom side of the louver bezel and mark the areas to be drilled and removed (See Photo 3, below).
- 5. Remove the switch bezel then using a 3/16" drillbit, drill mounting holes for the OEM hardware and remove the marked area for the switch (See Photo 4, below).
- 6. Locate the (2) dimples on the bottom of the dash, below the ignition switch. Using a 3/16" drillbit, drill out the dimple to the left of the dash (See Photo 5, below).
- 7. Insert the driver-side louver support bracket into the driver-side louver bezel (See Photo 6, below).
- 8. Install the passenger-side louver support bracket into the passenger-side louver housing (See Photo 7, below).
- 9. Connect the driver- and passenger-side louvers (See Photo 7, below). Insert the passenger-side louver support bracket and secure it using (2) $10-24 \times 1/2''$ pan head screws and (2) 10-24 nuts with star washers (See Photos 8 and 9, below).



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Heater Control Valve Installation

NOTE: Vintage Air systems use 5/8" heater connections. On engines equipped with 3/4" hose nipples, these will need to be removed and replaced with 5/8" nipples (not supplied). For water pumps with a cast-in 3/4" heater outlet, a 3/4" x 5/8" reducer fitting (not supplied) or molded hose will need to be installed in the heater hose.

- Cut the upper heater hose approximately 4 to 5 inches from the fresh air cap (See Photo 1, below). Install the heater control valve (See Photo 2, below). NOTE: Ensure proper flow direction through the heater control valve. The flow direction follows the molded arrow on the valve (See Figure 1, below).
- Install another length of heater hose onto the heater control valve and secure using the provided hose clamp (See Photo 3, below).
- 3. Plug the heater control valve connector into the connector on the main wiring harness.
- Reinstall the inner fender at this time, routing the heater and A/C hoses and wiring toward the front of the vehicle.
- 5. Install the lower heater hose onto the water pump and secure with a hose clamp (See Photo 4, below).
- 6. Install the upper heater hose to the intake and secure with a hose clamp (See Photo 5, below).









Wiring Final Steps

- **1**. Route all wiring toward the battery area.
- 2. Secure the blue lead from the main wiring harness to the #6 A/C hose with the supplied tie wraps.
- Route the blue lead through the core support grommet toward the safety switch on the drier (See Photo 1, below).
- Strip the blue lead and crimp the supplied 1/4" female terminal onto it. Connect the terminal to the safety switch on the drier (See Photo 2, below).
- 5. Connect the compressor bullet connector to the compressor lead (See Photo 3, below).
- **6**. Route the compressor lead along the #8 A/C hose toward the core support grommet and secure the compressor lead with supplied tie wraps.
- 7. Route the compressor lead through the core support grommet toward the safety switch (See Photo 1, below).
- 8. Connect the terminal to the safety switch (See Photo 4, below).
- **9**. Wrap the wiring with the supplied 1/4'' Flexo sleeve and secure with tie wraps.
- 10. Reinstall the battery tray at this time.





NOTE: The following connections are critical to the performance of the system. Before making connections, refer to the Quality Crimp Guidelines, Page 31.

- 1. Route power and ground wires toward the battery (See Photo 1, below).
- Install the supplied heat shrink over the 12 AWG orange standard fuse holder assembly wire and crimp it to the 12 AWG orange wire from the main wiring harness (See Photo 2, below). Slide the heat shrink over the crimp, then apply heat.
- Install the supplied heat shrink over the 16 AWG black mini fuse holder assembly wire and crimp it to the 16 AWG red wire from the main wiring harness (See Photo 3, below). Slide the heat shrink over the crimp, then apply heat.
- 4. Install the fuses into the holders (See Photos 4 and 5, below).

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5. Install the supplied heat shrink over the white ground wires, then crimp on the supplied ring terminals (See Photo 6, below). Slide the heat shrink over the crimps, then apply heat. NOTE: Both white wires can be crimped to the larger ring terminal. Install the heat shrink, then strip the wires, twist them together and trim to length. Crimp on the ring terminal, then slide the heat shrink over and apply heat (See Photos 7 and 8, below).







Glove Box Installation

Drill (4) mounting holes using a 1/4" drillbit

- 1. Position the new glove box over the glove box opening in the dash bezel (See Photo 1, below). Mark the (4) mounting holes, then remove the glove box and drill (4) mounting holes using a 1/4" drillbit (See Photo 2,
- 2. Install (4) #8 U-nuts onto the glove box (See Photo 3, below).
- **4**. Reinstall the dash bezel, and secure the glove box using (4) $\#8 \times 1/2"$ wide head screws.

Photo 3

Photo 4

Photo 2



Final Steps: Installation Check

		Installation Check
ITE	ITEM TO CHECK	Procedure
	ECU	If no blinking is observed after 1 minute of turning the ignition on, go to the next check. If repetetive blinking is observed, go to the Advanced Diagnostics Section to diagnose.
		Set the blower speed control to ${\sf OFF}$, confirm that the blower is off.
	Blower speed control	Blower speed control Position the blower speed control to LOW then MEDIUM and then HIGH. <u>At each setting confirm that the blower speed increases</u> , do this by feeling for the amount of air coming from the unit and hearing the blower speed increase.
	Mode control	Set the MODE control to the DASH position. <i>Confirm that air is being blown at the dash vents.</i> Set the MODE control to the FLOOR position. <i>Confirm that air is being blown at the floor vents</i> .
		Set the MODE control to the DEFROST position. Confirm that all air is being blown from the defrost vents
		If heater lines are installed: Set the MODE control to the DASH position. Set the TEMP control to the MAX HEAT position. <i>Confirm that HOT</i> <i>air is coming from the dash vents.</i>
	Temperature control	If system is charged: Set the TEMP control to the MAX COOL position. <i>Confirm that <u>COLD</u> air is coming from the dash vents.</i>
		Also <u>confirm that the compressor "clicks" on</u> when adjusting the TEMP control from the MAX HEAT position to the MAX COOL position.
	AC Indicator (If applicable)	While the MODE control is set to the DASH position, and the TEMP control is set to the MAX COOL/MIN HEAT position, <i>confirm that the blue AC Indicator light is on</i> .
	Backlight (If applicable)	lf your control panel has backlight capabilities and has been wired, turn the dash lamp on and <u>confirm that the AC</u> <i>panel's legend is lit</i> .
	Fittings	Verify AC and Heater fittings are all tight.



Final Steps: Completing the Install

- **1**. Reinstall all previously removed items.
- 2. Fill radiator with at least a 50/50 mixture of approved antifreeze and distilled water. It is the owner's responsibility to keep the freeze protection at the proper level for the climate in which the vehicle is operated. Failure to follow antifreeze recommendations will cause heater core to corrode prematurely and possibly burst in A/C mode and/or freezing weather, voiding your warranty.
- **3**. Double-check all fittings, brackets and belts for tightness.
- 4. Vintage Air recommends that all A/C systems be serviced by a licensed automotive A/C technician.
- Evacuate the system for a minimum of 45 minutes prior to charging, and perform a leak check prior to servicing.
- 6. Charge the system to the capacities stated on Page 4 of this instruction manual.
- 7. See Operation of Controls procedures on Page 34.







Gen 5 Wiring Diagram



*** Install fuse assemblies at or as near to the battery as possible.

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Operation of Controls

On Gen IV or Gen 5 systems with three lever/knob controls, the temperature control toggles between heat and A/C operations. To activate A/C, move the temperature lever/knob all the way to cold and then back it off to the desired vent temperature. For heat operation, move the temperature lever/knob all the way to hot and then adjust to the desired vent temperature. The blower will momentarily change speed, each time you toggle in and out of heat and A/C operations, to indicate the change. **NOTE: For proper control panel function, refer to control panel instructions for calibration procedure.**



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Troubleshooting Guide

This printed troubleshooting guide is our basic guide that covers common installation problems. To see our advanced diagnostics and troubleshooting guide, please refer to the following page for instructions on how to download the complete guide.

WAPNING: While tr

Symptom	Condition	Checks	Actions	Notes
1. Blower stays on	No other functions work.	Check for damaged pins or wires in the control panel wire assembly and mating header at ECU.	If found damaged, replace wire assembly or ECU.	
high speed with ignition on.	All other functions work.	 Check for a bad ECU GND. Check for damaged pins or wires in the control panel wire assembly and mating header at ECU. 	If found damaged, replace wire assembly or ECU.	If fuse continues to blow,
		Check if Blower power fuse is blown. Check for a bad ECU GND.	Replace fuse.	the wiring. Check all wiring and ensure the wire is not damaged and shorting out along its route.
8	System is not charged. →	System must be charged for compressor to engage.	→ Charge system.	Danger: Never bypass safety switch with engine running. Serious injury can result.
Compressor will not turn on (All other functions work).	System is charged.	Check for faulty A/C potentiometer or associated wiring (not applicable to 3-pot controls).	Check continuity to ground on white control head wire.	To check for proper pot function, check voltage at white/red wire. Voltage should be between OV and 5V, and will vary with pot lever position.
		Check for disconnected or faulty thermistor.	Check 2-pin connector at ECU housing.	Disconnected or faulty thermistor will cause compressor to be disabled.
3. Compressor will not turn off (All other functions		Check for faulty A/C potentiometer or associated wiring.	Repair or replace pot/control wiring.	Red wire at A/C pot should have approximately 5V with ignition on. White wire will have continuity to bed wire should vary
WIN).		Check for faulty A/C relay.	Replace relay.	between OV and 5V when lever is moved up or down.

			Troublechooting Gu	ide (Cont.)
www.vintageair.com Symptom C	air.com Condition	Checks	Actions Actions Notes Notes	Notes
4	Works when engine is not running; shuts off when engine is started	Noise interference from either ignition or alternator.	Install capacitors on ignition coil and alternator. Ensure good ground at all points. Relocate coil and associated wiring away from ECU and ECU wiring. Check for burned or loose plug wires.	Ignition noise (radiated or conducted) will cause the system to shut down due to high voltage spikes. If this is suspected, check with a
System will not turn on, or runs intermittently.		Verify connections on power lead, ignition lead, and both white ground wires.	Check for power at ECU, and confirm ignition is being applied to ECU properly.	quality oscilloscope. Spikes greater than 16V will shut down the ECU. Install a radio capacitor at the positive post of the ignition
	Will not turn on under any conditions.	Verify battery voltage is greater than 10 volts and less than 16 while engine is running.	Verify proper meter function by checking the condition of a known good battery.	installation bulletin). A faulty alternator or worn out battery can also result in this condition.
5. Loss of mode door function.	No mode change at all.	Check for damaged mode switch or potentiometer and associated wiring.		
6 . Blower turns on and off rapidly.	Battery voltage is at least 12V. Battery voltage is less than 12V.	Check for at least 12V at circuit breaker. Check for faulty battery or alternator.	→ Ensure all system grounds and power connections are clean and tight. → Charge battery.	System shuts off blower at 10V. Poor connections or weak battery can cause shutdown at up to 11V.
 Frratic functions of blower, mode, temp, etc. 	of	Check for damaged switch or pot and associated wiring.	r → Repair or replace.	
	A	Advanced Diag	Diagnostics and Troubleshooting Guide	ting Guide
If after refere resolved, mov Guide that co	If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshoot Guide that covers the following:	If after referencing the Troubleshooting Guide, the issue is not resolved, move to The Advanced Diagnostics and Troubleshooting Guide that covers the following:	Access the latest version of the Advanced Diagnostics and Troubleshooting Guide by scanning the following QR code on your mobile device:	nostics and ng QR code on your
ECU Diaç T. ECU BI 2. Firmw ^a 3. ECU Mu	ECU Diagnostics Codes 1. ECU Blink Sequence 2. Firmware Version Number 3. ECU Model Number			
4. ECU St5. DiagnoComplete	4. ECU Start-Up Blink Sequence 5. Diagnostic Codes Complete Advanced Troubleshooting Guidel	oting Guidelines	You can also access the guide by typing the following address into your web browser: https://www.vintageair.com/instructions_pdf/905000.pdf	owing address into 05000.pdf

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