



2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS

This Nitrous Outlet Vehicle Specific Complete Plate System is designed specifically for the 2020 and up Chevrolet C8 Corvette with an LT2 engine. If you need any assistance during installation or if you have questions about this plate system, call our Tech Help Line at (254) 848-4300.

Tools Needed for Installation:

- 7mm Socket
- 10mm Deep Socket
- 15mm Socket
- 21mm Socket
- 1/2" Socket
- T-15 Torx Bit
- T-30 Torx Bit
- Ratchet
- 10mm Wrench
- 3/8" Wrench
- 7/16" Wrench
- 1/2" Wrench
- 9/16" Wrench
- 11/16" Wrench
- 13/16" Wrench
- 3/16" Allen Wrench
- Adjustable Blade
- 3/8" Drill Bit
- 1" Hole Saw
- Drill
- Center Punch
- Marker
- Trim Tool
- 3/8" Fuel Disconnect Tool

Additional Materials Needed for Installation:

- Zip Ties
- 3/4" P-Clamps
- Shop Rag
- Floor Jack
- Jack Puck
- Lifting Blocks
- Electrical Tape
- Wiring Materials

These are the tools required for installation of this kit on a stock vehicle. If your vehicle has aftermarket parts, other tools may be required.



Step 1 – Disconnect the Battery

- Open the front storage compartment.



- Remove the trim panels on each side of the vehicle by pulling them from the clips securing them to the body.



- Remove the main panel covering the battery by pulling it from the clips securing it to the body.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Using a 10mm socket, loosen the nut and remove the negative battery terminal.

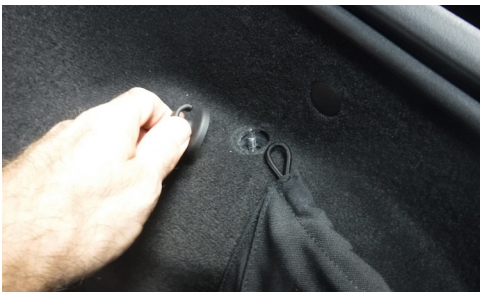


Step 2 – Vehicle Disassembly FRONT STORAGE COMPARTMENT

- Remove the front trim panel from the front storage area.



- Using a T-30 Torx bit, remove the 4 screws from the front storage bin.



- Unscrew the 2 rear tabs holding the storage net.



- Unplug the front storage light/power port connector.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Remove the front storage bin from the vehicle.



ENGINE BAY & REAR STORAGE COMPARTMENT

- Open the engine compartment.



- Remove the weatherstripping from the rear luggage compartment.



- Unscrew the 4 tabs holding the storage net.



- Using a trim tool, remove the 4 trim buttons at the bottom of the luggage compartment.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Using a T-15 Torx bit, remove the 4 screws from each the upper roof panel receiver.



- Remove the luggage compartment liner from the vehicle.



- Using a T-15 Torx bit, remove all the screws from the air box cover.



- Using a 10mm socket, remove the 4 screws (2 from each side) of the air box tubes.



- Using a 10mm socket, remove the 4 screws mounting the air box to the transaxle. 2 are at the rear of the box below the air box lid. 2 are at the front of the box mounted vertically.

****Note:** These screws will no longer be used once this Plate System is installed.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Disconnect the IAT sensor on the driver side of the air intake tube.



- Using a 7mm socket, loosen the clamp on the throttle body air intake tube that is closest to the intake manifold.



- Disconnect the Throttle Position Sensor from the throttle body.



- Using a 10mm wrench (for the upper) and a 10mm socket (for the lower), remove the 4 throttle body screws.



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2020-2021 C8 Corvette Complete Plate System

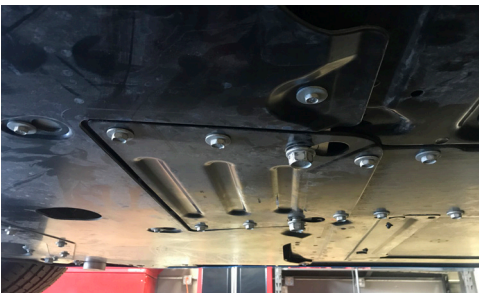
PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



CHASSIS TUNNEL

- You will need to lift the vehicle off the ground to remove the under-car panels. It is recommended to use an automotive lift. For the do-it-yourself install, use a floor jack with a jack puck and place lifting blocks under all 4 tires.



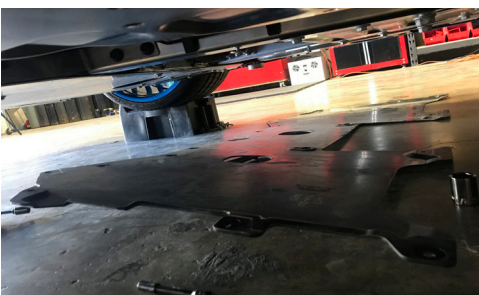
- Locate the center panel that runs the length of the car. At the rear of that panel is a smaller metal panel with 6 bolts. Using a 15mm socket, remove the 4 rear bolts on that panel. Using a 21mm socket, loosen the 2 largest bolts. The panel should slide rearward and drop off the vehicle.



- At the front of the center panel is another small metal panel. Using a 15mm socket, loosen the bolts holding this panel.



- Using a 13mm socket, remove the bolts from the center panel and remove the panel from the vehicle.



- Using 10mm, 13mm, and 15mm sockets, remove the rear panel from the vehicle.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Using 7mm socket and T-15 Torx, remove the front panel from the vehicle.



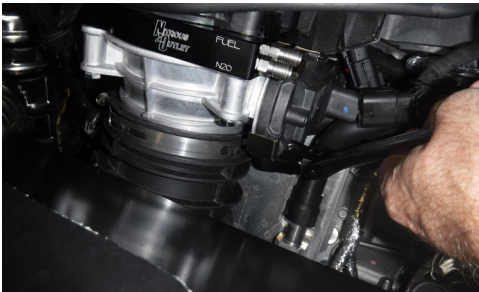
Step 3 – Nitrous Plate Installation

- Make sure that the intake manifold and nitrous plate O-rings are intact and properly seated in place.



- Install the nitrous plate between the throttle body and intake manifold with the provided 6mm bolts. Use a 10mm wrench to install the upper bolts and a 10mm deep socket to install the lower bolts.

****Note:** You should be able to properly read the engraved Nitrous Outlet logo while standing at the rear of the vehicle.



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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



Step 4 – Solenoid Assembly Installation

- Using a 10mm socket, remove the rear wiring bracket on each side of the intake manifold.



- Using the OEM hardware, install the nitrous solenoid on the passenger side of the vehicle with the bracket angled toward the back.



- Using the OEM hardware, install the fuel solenoid on the driver side of the vehicle with the bracket angled toward the back.



Step 5 – Fuel Adapter Installation

- Apply blue loc-tite on the NPT threads of the 1/8 NPT Hex Plug then with the fuel adapter positioned as shown, install the plug using a 3/16" Allen wrench.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Apply blue loc-tite on the NPT threads of the 1/8 x 4AN Straight fitting. Then using a 7/16" wrench, install the fitting into the other fuel adapter opening.



- Remove the retainer clip on the fuel supply line.



- Disconnect the fuel supply line by sliding a 3/8" fuel disconnect tool into the base of the connector, push the fuel supply line down allowing the disconnect tool to slide over the fuel line flange, spreading the connector tabs out. Then pull up on hose and tool together and the connection should come loose.

****Note:** The fuel system is under pressure. You will need to absorb the fuel leaking from the pressure with a rag. It is important to make sure the engine and exhaust is free of heat.



- Install the fuel adapter to the fuel supply line by sliding the female end over the fuel line until it to rest against the fuel line flange. Then slide the fuel adapter nut over the fuel line and thread into the body of the fuel adapter.



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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

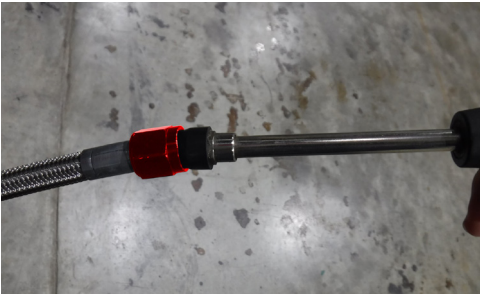
INSTALLATION INSTRUCTIONS



- Using a 13/16" wrench tighten the adapter nut firmly into the adapter body pinching the fuel line flange between.



- Reinstall the vehicles fuel hose by sliding the fuel connector over the male end of the fuel adapter and firmly pushing until the connector locks into place over the adapter flange.



Step 6 – Fuel Feed Line Installation

- Blow out the 3.5" hose with compressed air and finger tighten the b-nut at one end on the fuel solenoid inlet fitting and the other end of the hose onto the fitting at the fuel adapter.



- Finger tighten the b-nut at one end on the fuel solenoid inlet fitting and the other end of the hose onto the fitting at the fuel adapter.



- Using a 9/16" wrench tighten both b-nuts into place.

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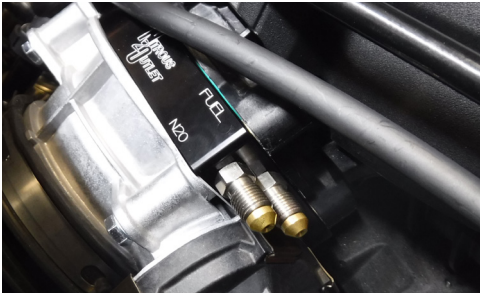
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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



Step 7 – Jet Installation

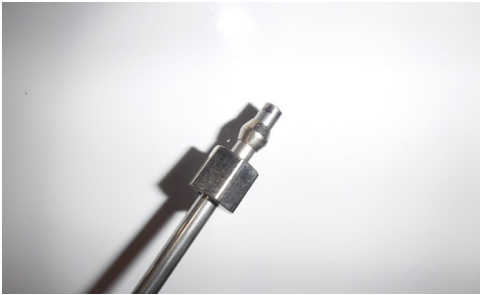
- Install the nitrous and fuel jet into the nitrous plate. The plate is engraved N2O for nitrous jet location and engraved FUEL for fuel jet location.

****Note:** Use the jet card that came with the nitrous system to choose the correct jetting recommendation for your desired horsepower.



Step 8 – Hardline Installation

- Remove the nut and compression feral from the solenoids exit fittings located at the bottom of the solenoids.



- Using the hardline with the black b-nut, slide the compression nut and feral on the opposite end of the b-nut.

****Note:** The nut slides on first and then the ferrule.



- Holding the nut and ferrule in place slide the hardline into the nitrous solenoid exit fitting.



- Finger tighten the compression nut onto the solenoid exit fitting and the black b-nut onto the fuel jet holder fitting.

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WWW.NITROUSOUTLET.COM/INSTALLATION-GUIDES



2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Repeat the same steps to install the fuel hardline.



- Using a 3/8" wrench to hold the jet holder fitting and a 7/16" wrench to tighten the b-nut, tighten both the fuel and nitrous nuts.

****Note:** Do not over tighten the b-nut, it only needs to be snugged.



- Using a 7/16" wrench tighten the compression nuts at the solenoids.

****Note:** Tighten enough for the ferrule to compress.



Step 9 – Bottle Installation

- Remove the cargo net from the front storage compartment.



- Unscrew the tabs holding the storage net.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Using a trim tool, remove the 4 trim buttons in the storage compartment.



- Remove the weatherstripping from the storage compartment.



- Remove the storage compartment liner.



- Place the stainless clamps that came with the nitrous system around the nitrous bottle. Position the clamps mounting tabs so that they both sit flush to the floor under the bottle and tighten the brackets around the bottle.

****Note:** The taller bracket will go at the top of the bottle and the shorter bracket will go at the bottom of the bottle.



- Place the nitrous bottle back in its desired location. Using a sharpie mark the bolting location through the bolt holes in the clamps mounting tabs and remove the bottle from the vehicle.

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WWW.NITROUSOUTLET.COM/INSTALLATION-GUIDES



2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Use a center punch to mark the center of your marks. Using a 3/8" drill bit, drill the holes you marked.



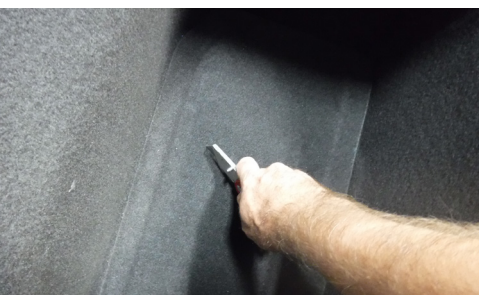
- You will need to provide access for the main feed line and wiring to the nitrous bottle. On the flat back of the storage compartment, measure approximately 5" from the bottom and place a mark.



- Drill a 1" hole on the mark.



- Place the storage compartment liner in the storage compartment.



- Push one of the provided 5/16 bolts through the drilled holes from the bottom side of the storage compartment. Using a razor blade carefully cut an X over the bolt to allow it to slide through the liner.

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WWW.NITROUSOUTLET.COM/INSTALLATION-GUIDES



2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Match drill hole in the liner for the feed line.



- Place Bottle brackets back in location and make sure the bolt holes line up. Using a 1/2" wrench and socket, install the 5/16-24 supplied bolts, washers, and lock nuts.



Step 10 – Nitrous Feed Line Installation

- Using tape cover both ends of the 6AN feed line to keep debris from getting in.



- Starting at the center of the tunnel under the car, route the hose toward the front of the car beside the HVAC piping.



- Pull the feed line to the driver side of the car and over the HVAC tubing into the area of the front storage compartment.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Route the feed line to the rear of the car past the ECU.



- Then, direct the line toward the passenger side of the tunnel, and up the firewall.



- The feed line should run under the engine bay crossbar and various vacuum lines up to the nitrous solenoid.



- Remove the tape from both ends of the feed line and blow the hose out with compressed air.



- Using an 11/16" Wrench tighten the main feed line onto the nitrous solenoid inlet fitting.

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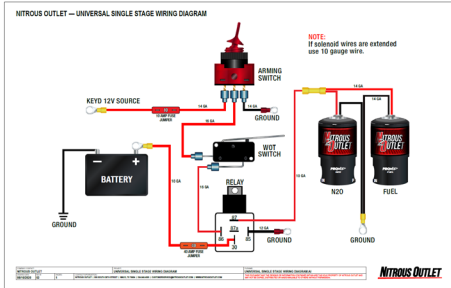
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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



Step 11 – Wiring

- This step will cross over into the installation of other components you're installing in conjunction with the nitrous system, such as nitrous controller, bottle heater, purge etc. Use the diagrams that came with those components to route the wiring.

****Note:** The diagram to the left is a basic system diagram with a WOT Switch. To view a larger diagram, turn to the last page of these instructions, however, you should be using a nitrous controller that incorporates a window safety switch with TPS activation.

Step 12 – Final Check Over

- Place the front storage compartment back in the vehicle.



- Reinstall the nitrous bottle into the brackets and attach the main feed line using a 11/16" wrench.



- Reconnect the air intake tube.



- Reconnect the IAT sensor.



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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Reconnect the TPS sensor.



- Reconnect the battery.
- Key car on and let the system prime. Check all fuel system components for fuel leaks.
- With the nitrous bottle still closed check the system functions to ensure proper wiring and proper settings of any electronic controllers.
- With the nitrous system deactivated open the nitrous bottle and check for any nitrous leaks.



Step 13 – Final Assembly

- Under the car, reinstall the front panel.



- Under the car, reinstall the rear panel.



- Under the car, reinstall the center panel.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Under the car, reinstall both of the small metal panels.



- Reinstall the net tabs, trim buttons, cargo net, and weatherstripping in the front storage compartment.



- Reinstall the 4 mounting screws.



- Reconnect the front storage light/power port connector.



- Reinstall the 4 trim panels around the front storage compartment.

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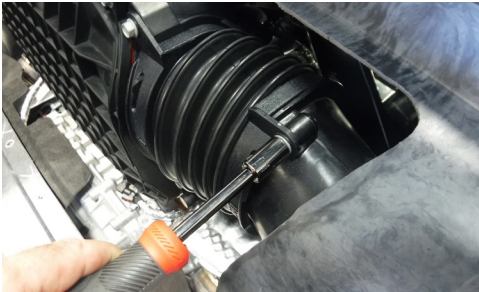
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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

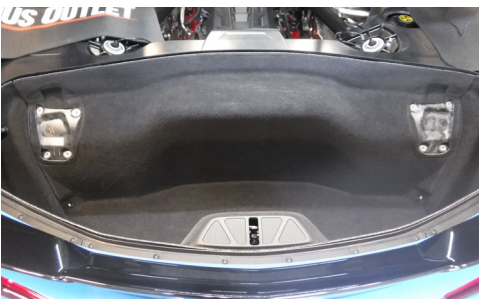
INSTALLATION INSTRUCTIONS



- Reinstall the 4 screws (2 from each side) of the air box tubes.



- Reinstall the air box cover.



- Reinstall the luggage compartment liner.



- Reinstall the upper roof panel receivers.



- Reinstall the 4 trim buttons at the bottom of the luggage compartment.

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2020-2021 C8 Corvette Complete Plate System

PART NUMBER: 00-10168

INSTALLATION INSTRUCTIONS



- Reinstall the 4 tabs for the storage net.

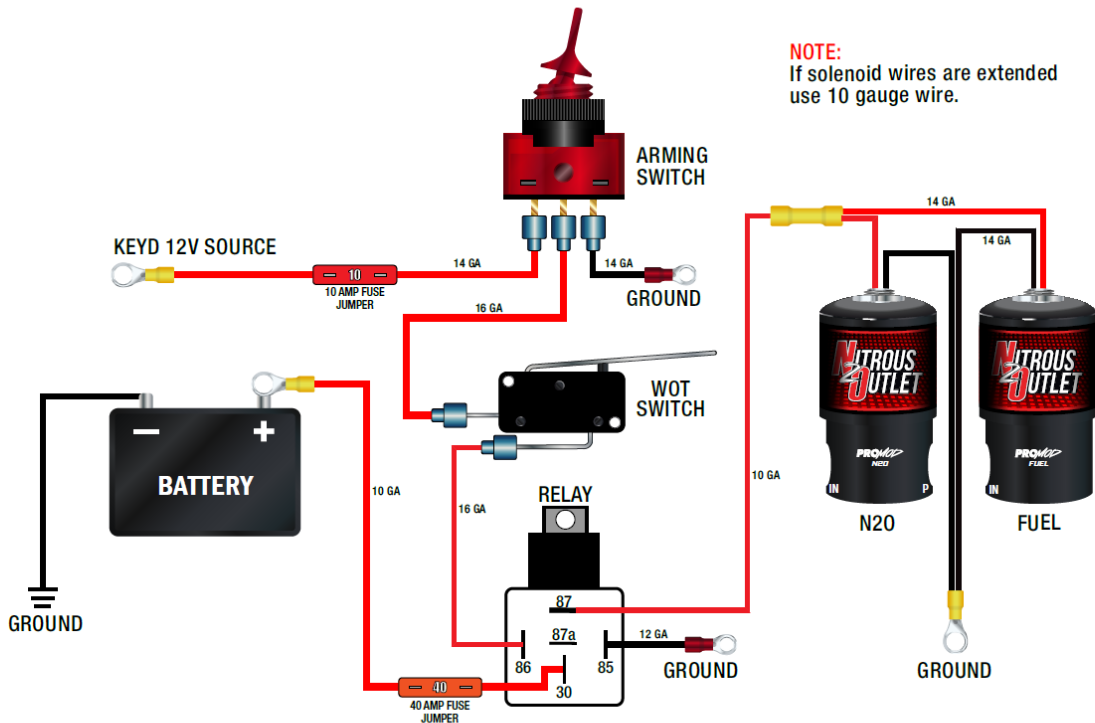


- Reinstall the weatherstripping for the rear luggage compartment.

CONCLUSION

You have finished your installation.

NITROUS OUTLET — UNIVERSAL SINGLE STAGE WIRING DIAGRAM



NITROUS OUTLET	UNIVERSAL SINGLE STAGE WIRING DIAGRAM	UNIVERSAL SINGLE STAGE WIRING DIAGRAM I
08/10/2020	02	1
Contract Part Number	NITROUS OUTLET 305 SOUTH 28TH STREET WACO, TX 76710 254.848.4300 CUSTOMERSERVICE@NITROUSOUTLET.COM WWW.NITROUSOUTLET.COM	
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