

Design Engineering, Inc.

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Installation Instructions

CryO² Air Intake™

PART NO. 080110 (3" OD) - 080111 (2.5" OD)

KIT CHECKLIST	
1	Cryogenic Air Intake Segment
1	Vent Connection Hose
1	Vent Cap
1	1/8" NPT 4AN Male Fitting
2	Hose Clamps

NOTE
An additional silicone sleeve may be needed if one is not present from aftermarket intake. Teflon paste is also recommended when connecting fittings to prevent any additional venting.

DIRECTIONS

- 1 - Installation of CryO² system and tank required before starting this installation.
- 2 - Locate a straight segment of existing air intake tube as it may need to be replaced by the CryO² Intake Segment if there is not enough clearance in the compartment.
- 3 - Cut and remove a 4" piece of the existing intake tube or affix the CryO² Intake segment onto the air tube.

Be carefull not to interfere with sensors & mass air flow meters!

- 4 - Attach a silicone sleeve to the CryO² Intake segment and fasten with a hose clamp.
- 5 - Insert CryO² Intake segment on air tube. Be sure the pointed portion of the bulb faces the throttle body and round side is against the air flow.
- 6 - Tighten the hose clamps on silicone sleeve. Use the original silicone sleeve from your aftermarket intake and secure back onto throttle body / manifold.

Stock intakes and intercooler pipes may require an additional silcone sleeve!

- 7 - Attach the 1/8" NPT OUT port of the solenoid to one of the 1/8" fitting on the CryO² Intake segment. Teflon recommended to minimize venting.

WARNING! Keep all released or vented CO² away from intake. If CO² is drawn in to the motor vehicle may stall due to O² deprivation.

- 8 - If connecting to another CryO² component, attach 1/8" NPT female to -4AN male fitting to open 1/8" NPT male fitting on the CryO² Intake segment. Teflon recommended.
- 9 - Attach vent connection hose to -4AN male fitting. Attach the 1/8" NPT fitting to the next component or connect vent cap (Securing the lines with zip ties recommended).
- 10 - Attach solenoid wiring as described in Tank Installation Owner manual.
- 11 - Test the system making sure there are no leaks around the fittings. The bulb should ice-over within 10 seconds.

FYI A maximum of 15-20 seconds of activation will reach peak temperature of - 80°F. Anything longer results in CO² venting and loss. Depending on usage, charge the system every 5 minutes, prior to race or while racing for best performance gains.