



HI-FLOW TURBO DISCHARGE PIPE – NM.488856

[R55] MINI Cooper Clubman 2008-up [Including Cooper S]

[R56] MINI Cooper Hardtop 2007-up [Including Cooper S]

[R57] MINI Cooper Convertible 2009-up [Including Cooper S]

PARTS INCLUDED:

- [1] Aluminum Pipe [1] 90° Silicone Hose [1] Custom Silicone Hose [1] #28 Hose Clamp
 [3] #40 Hose Clamps

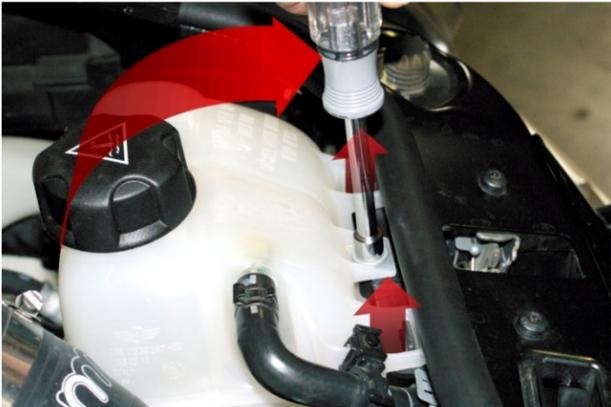
TOOLS & SUPPLIES REQUIRED:

- [1] Vehicle Jack [2] Jack Stands [1] ¼" Ratchet Handle [1] 6" ¼" Extension
 [1] 7mm Flex Socket [1] Screwdriver [1] 7mm Nut Driver [1] 8mm Nut Driver
 [1] T25 Torx [1] WD-40

1. Park vehicle on a flat, level surface capable of supporting the vehicle's weight on jack and jack stands.
2. Using the manufacturer's recommended lifting points, raise front of vehicle and support with jack stands. **WARNING: NEVER WORK UNDER A VEHICLE SUPPORTED ONLY WITH A JACK – SERIOUS INJURY OR DEATH CAN OCCUR!**



3. Loosen turbo discharge hose clamp (7mm hex) and disconnect hose from turbocharger.



4. Remove 8mm hex screw that retains coolant reservoir tank. Rotate back side of tank up to release lower pin mount, then lift tank off top retaining tabs. Lay tank to the side.



5. From underneath the vehicle, remove the T-25 Torx mounting screw that holds intake muffler to radiator fan shroud.



6. Loosen clamp (7mm hex) at lower pressure hose to intercooler; now remove hose and muffler downward from vehicle.



7. Attach custom silicone hose with supplied #28 hose clamp to turbo; do not tighten at this time. Temporarily remount coolant tank. **NOTE:** Coolant hose runs above lower pin mount.



8. Rotate custom silicone hose so that there is about a 3/8" clearance between it and the coolant hose. Then tighten hose clamp (8mm hex).



9. Slide supplied #40 hose clamp onto custom silicone hose.



10. From underneath vehicle install aluminum pipe (longer straight section goes up). Use WD-40 on pipe ends for easier fitment.



11. Rotate pipe for correct position, bottom opening of pipe should be parallel to the ground and there should be no interference with any other vehicle components.



12. Install 90° silicone hose with supplied #40 hose clamps. **NOTE:** Slightly longer straight section on hose goes toward intercooler.

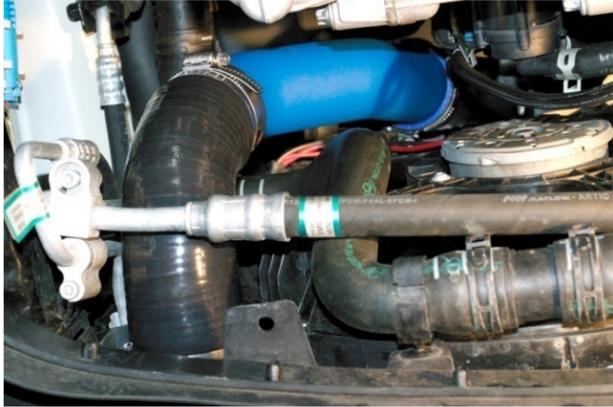


13. Now tighten 90° silicone hose clamps (7mm hex). Double-check pipe for proper clearances from top to bottom.



14. Before tightening upper aluminum pipe hose clamp, it must be rotated toward front of vehicle so not to interfere with coolant hose. Once again remove coolant reservoir tank and set aside to ease access to clamp for tightening. Now tighten.

15. Reinstall coolant reservoir and mounting screw. **NOTE:** Coolant hose runs above lower pin mount.



16. Double check complete installation.

©2009 NM Engineering, a division of Automotive Performance Systems, Inc.
All rights reserved. Reproduction in whole or in part is prohibited.
DOC. NM.488856 Rev. 03.05.09