

HYBRID DEVELOPMENT INTERNATIONAL
RACING INTERCOOLER KIT
INSTALLATION MANUAL



MPS6 2006



Please read before continuing

Please read through all the instruction and practice all precaution in all aspect of safety and every step prior and during the installation. This installation manual is purely for **HYBRID DEVELOPMENT INTERNATIONAL RACING INTERCOOLER KIT**

and is used as guide only. As different vehicles in different countries may have different specifications and component layout. Therefore, it is important to make sure the connection is properly done by authorized technician or HDi Technical Dealers.

Warning

- Check and clean all open area for foreign object inside.
- DO NOT bend , drop the intercooler pipe where HDi clamps are located.
- Installation should only be carried out by authorized dealer or agent only.
- Avoiding water, liquid or fluid during and post installation.
- Do not install the unit in a place that will interface the driver.
- This product is for off road use only not for public road.
- Never adjust the fitment when the car is moving or on public road ,doing so is dangerous to yourselves and others
- Make sure there is adequate ventilation if you are installing or setting it indoors.

LIMITED WARRANTY

Hybrid Development International Pty Ltd will warranty for the period of 1 year from original purchase against all defects in workmanship and materials. Hybrid Development International Pty Ltd is not responsible for expenses incurred for labor, personal injury or inconvenience. Hybrid Development International Pty Ltd sole responsibility is to offer a replacement product or to repair the damaged product. Hybrid Development International Pty Ltd cannot warranty products damaged by improper installation. All other products sold by Hybrid Development International Pty Ltd are warranted by the original manufactures and is not the responsibility of Hybrid Development International Pty Ltd.

All products are for racing use only.

All rights reserved.

For more information please visit www.hybrid-power.com or contact tech@hybrid-power.com

Note: This installation manual is a guide only.

Pictures are for illustration purposes only as the vehicles and product may vary in different countries / regions. Before opening the content of the Intercooler Kit please read through the installation manual to confirm your vehicle is suitable for this Intercooler Kit.



Just Engine Management

Mainline DynoLog Chassis Dyno Report

2/2 Noonan Rd
Ingleburn NSW 2565
Ph: 61-2-9618 6001
Fax: 61-2-9618 6101

Web: www.justenginemanagement.com

Email: sales@justenginemanagement.com

• Test ID: **160KW HDI COOLER KIT run #3**

Customer: **KEN - HDI**

Test Date: **8-Apr-2010 9:56**

Test #: **3664** Operator: **Adam Neish**

Rego No: **██████████** VIN: **0**

Vehicle: **MPS 4WD**

Capacity: **2.300 lt**

Air Density: **96.4%**

Correction: **3.99 SAE J607 (24°C, 1007mBar, 58%)**

Heads:

Camshaft:

Exhaust:

Manifolds:

Induction:

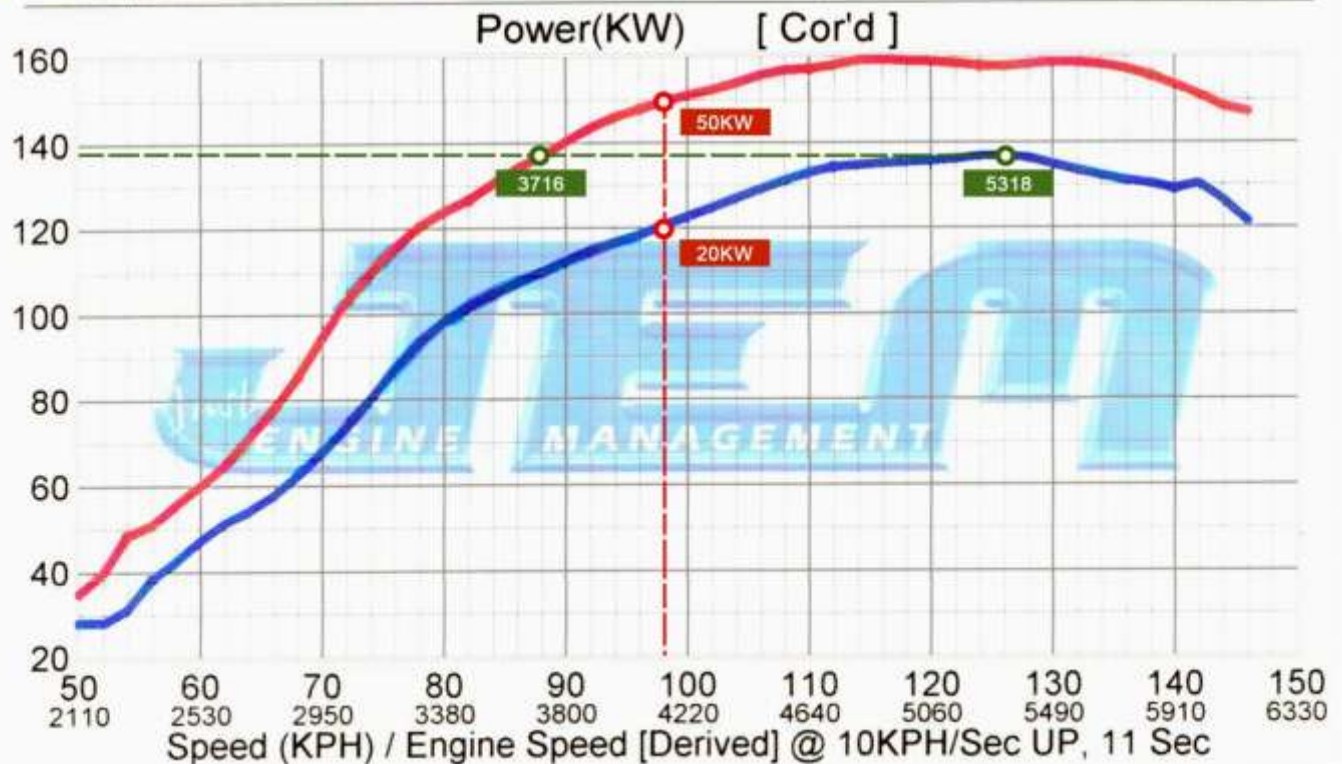
Odometer: **93,215**

Cylinders: **4**

Fuel:

Gear: **4**

• Compare Run: **137KW STOCK run #3 / 3614, 27-Mar-2010, 12:23**





Using a heavy duty car jack lift the vehicle and place heavy duty car stands in the appropriate position as recommended in the Manufacturer's Owners Manual.



Remove the air Diffuser from the bumper bar



**Unscrew the
screws from inner
Guard**



unscrew screw/s
behind the wheel
arch splash guard



unscrew the screw
hold the Bumper bar
grill from both sides



remove bumper bar
clip

Unscrew the screws
behind bar



remove bumper bar
from both side



remove Plug behind
the driving light



remove wind screen
wash water pipe
from the bumper bar.
Cable tight the hose
to prevent leakage
Warning:
**Do not lose any
wind screen wash
connecting locking
clip**



Remove air diffuser



Remove standard
intercooler cover



unscrew and remove
standard intercooler



unplug Air flow
meter Plug and
remove the standard
air box













Relocate washer
bottle.
Remove the standard
washer bottle





Gently push the air con pipes and harness upward to make room for the washer bottle.

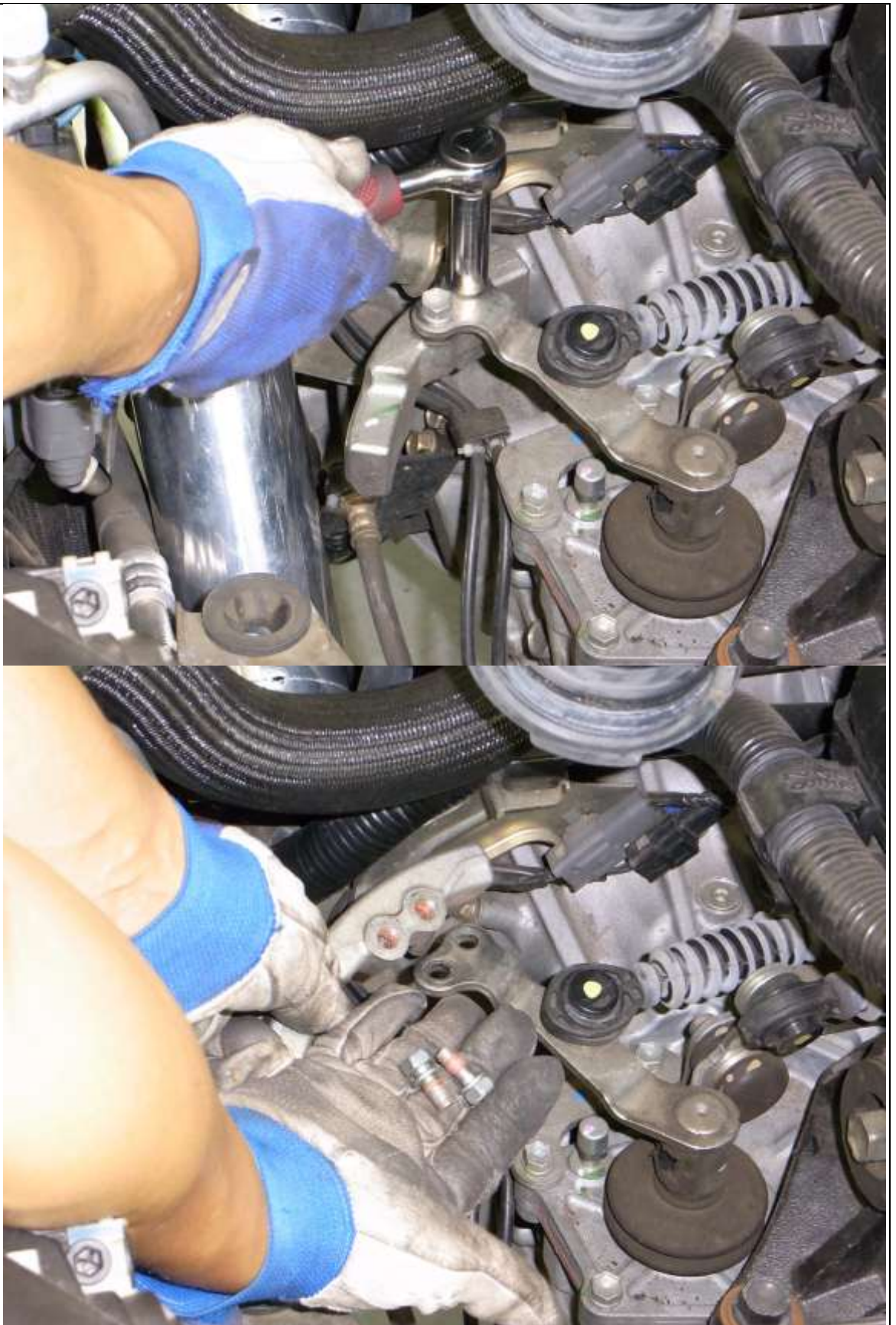




Relocate the hydraulic line as shown



Relocate the counter weight as shown





Hack and bend the corners of the front bar support to make room for the HDi intercooler







Gently bend the top
engine hook





Install both supplied
top intercooler
brackets



Mark and drill 2 holes 250mm apart from the center of the radiator support



Install the Hdi intercooler







Install the supplied
lower intercooler
brackets





Install HDi hot pipe
Make sure there are
no foreign object in
the pipe and all
opening!!
Do not tighten yet
for adjustment



Connect the pipes with the award winning HDi clamp make sure spray lubrications and insert O rings Slot in The 2 half outer rings and gently push them to snap in each other For more information

Please visit :
www.hdiclamp.com





Relocation of the
horn to the behind
the pipe





Horn bracket modification and relocation you may need to trim and bend the horn bracket in some cars.









Insert hot side
intercooler inlet pipe
do not tighten the
hose clamps for
future adjustment.





Install the cold side intercooler out let pipe and the rest of the intercooler pipes as shown.













Reinstall the washer bottle to the right hand side.



Insert the supplied bracket



Install the supplied bracket for relocation of the washer bottle







Fixed bracket has been updated to the below for better fitment





Extend the washer bottle harness and hose.
Wires and connectors are easily purchased from good hardware stores.
Must perform by licensed auto electrician
Make sure solder the wires and insulate the wires properly.

Wrong connection and shot circuit may cause serious damage to the car. In in doubt please contact your nearest auto electrician.















Recheck all the piping against any metal object and electrical wires. Tighten all the hose clamps. And mounting brackets



Standard blow off valve are often leaks under high pressure and reduce the engine's performance. The manifold pipe is designed for a high performance blow off valve to be connected directly to the port. However , standard blow off vale adaptor can be purchased separately for using standard blow off valve Make sure block out any opened hose to prevent foreign object from fall inside the engine!!



Reinstall the stand
air filter ,air box and
plug in the air flow
meter.



Revers all the front
bar removal
procedure and
reinstall the front bar

