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Installation manual



MAKE OF AUTOMOBILE:	Dodge
TYPE:	Nitro
PISTON DISPLACEMENT:	4000cc
NUMBER OF VALVES:	24
ENGINE NUMBER:	4.0V6
TYPE VSI INJECTOR (COLOR)	Yellow
MODEL YEAR:	2007
ENGINE SET NUMBER	337/1802000.07

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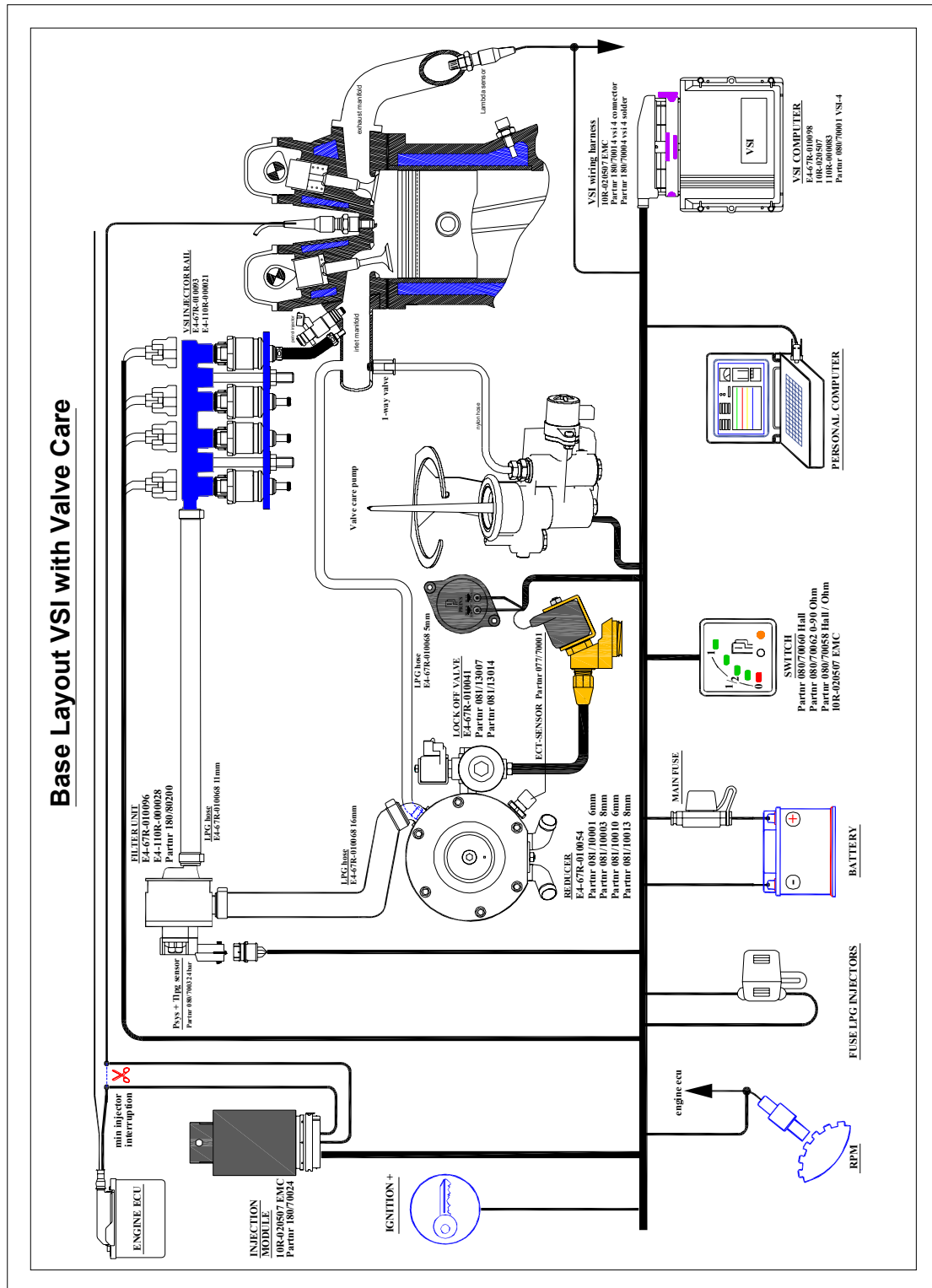
Required equipment / tools / materials for installing a complete system

- Complete workshop toolbox (wrenches, screwdrivers, cutters, pliers, ratchet, sockets)
- Portable computer : operating on Windows 98, W2000 or XP.
 - Internal memory : 16 Mb or more
 - Memory HD space : 5MB
 - Screen : 256 colours, advise colours 16 bits or more
 - Com port : 1 free COM port 1 or COM port 2 with a 9 or 25 pins connector
- Vehicle fuel system scan tool or OBD scan tool Prins (part nr. 099/99928)
- Valve care interface cable
- Valve care software
- Valve care air-breather pipe
- Multimeter
- Prins VSI diagnostic software
- Prins VSI serial interface
- Prins VSI break out box (part nr. 080/70090)
- Portable light
- Assortment drill bits 4 to 12 mm
- Portable drill or pneumatic drill
- Threading device (male M6x1)
- Air gun
- Soldering iron, soldering tin
- Wire-stripping pliers
- Adhesive tape
- Adhesive sealant
- Thread locking compound

Vehicle check

- Check the vehicle drivability on petrol
- Check the fuel system for error codes (scan tool)
- Check if the catalytic converter is in good condition (exhaust gas analyzer)

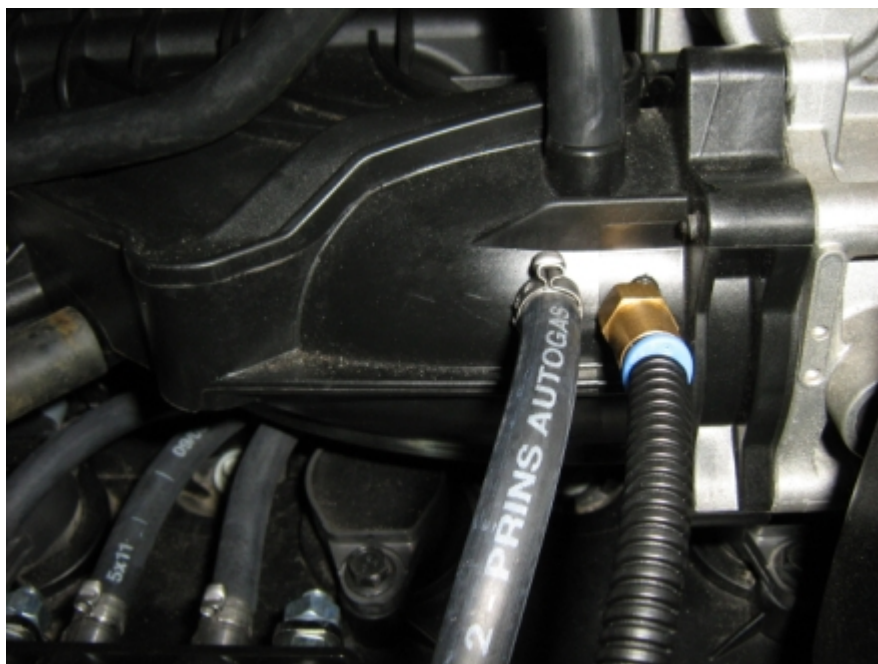
Base Layout VSI with Valve Care



Mounting the Valve Care unit



Installing the Valve Care valve



Drill a hole of Ø5mm and tap M6x1 thread into the manifold.
Install the valve with a lock compound.
Install the hose into the self-locking valve.

Valve Care nylon hose routing



Length of hose, Ø 6 mm	Valve care pump -> 1 way valve	= ± 100 cm
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Please observe that there is no damage or fouling to the hoses.

Electrical connections

Check and measure the wiring in case of changes in the cars wiring colors.

Valve care cable	Connection
Green	Wire color : green Wire location : VSI ecu pin. 44
White-yellow	Wire color : white-yellow Wire location : VSI ecu pin. 39
Brown	Wire color : brown Wire location : VSI ecu pin. 50
Green-yellow	Wire color : green-yellow Wire location : VSI ecu pin. 53
Red	Wire color : grey-white Wire location : VSI ecu pin. 13

