

Engine Removal

- **READ THE MANUAL FIRST!**
- *You will need a FLAT surface to complete this repair for your safety.*
- **READ ALL OF THIS PROCEDURE SEVERAL TIMES SO THAT YOU UNDERSTAND IT. DO NOT PERFORM THE PROCEDURE OUT OF ORDER. THIS WILL RESULT IN DEATH OR SERIOUS INJURY.**
- Read our [Safety](#) page too.
- Get the full size photos from [Engine Removal](#) page

TOOLS NEEDED:

1. Straight (slotted or "Prince") screwdriver
2. 8,10,13,17, 19 mm wrench
3. 8,10,13,17,19mm socket 3/8 or 1/2 inch drive
4. 1/2 or 3/8 drive ratchet



5. Engine dolly (not required but VERY helpful)
6. Floor Jack (4000 lbs. capacity)
7. 2 jack stands
8. 2 Wheel Chocks
9. Tire iron or "Tire Star"
10. A second person (very helpful, but not required)



Procedure for removal

1. Disconnect Negative and positive Battery terminal connections as shown on [Battery Removal \(steps 1 and 2 only\)](#).

2. Be sure to remove all electrical connections on the engine; coil wire,



Generator/Alternator wires

3. Tie up all electrical connections out of the way.

4. Disconnect: accelerator cable and put 8mm barrel nut on accelerator



return spring (so you do not lose it).

5. Disconnect: Fuel line and plug line with an appropriate sized bolt or hose



plug.

6. Lift up the VW using [Rear Lifting Procedure](#).

7. Lift the VW up high enough to clear the engine from the rear about 30 inches (76.2 cm) (as measured from ground to apron.).

8. Remove the engine oil using the [Oil Change](#) procedure (*Steps 2 - 4 only*)

9. Once the jack stands are in position, lower the jack and place the jack under the engine oil pan. Make sure the head of the jack is centered on



the oil sump cover.

10. Remove the two lower nuts from the transmission to engine. Then remove



the upper two Bolts.

11. You will have to rock the engine back and forth to get it off of the pilot

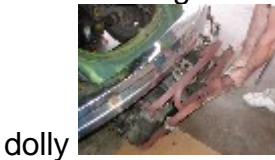


shaft

12. Slowly lower the engine to the ground.



13. Slide the engine onto plywood sheet, cardboard (GENTLY) or an engine



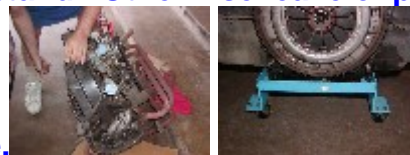
dolly

14. Then slide out the engine from under the VW.



15. **BEST: Place engine on an engine stand. Otherwise leave of plywood**

to prevent spills or engine damage.



16. **Only disassemble the engine indoors (but use of the Living room is**

probably not what your spouse has in mind)

