



911 CAM SYNC ADAPTER INSTRUCTIONS

1. Remove the plug on the end of the cam housing (Figure 1).
2. Rotate the engine through a cycle stopping 90 degrees before Z1 on the compression stroke.
3. Attach the cam sensor adapter to the cam housing (gasket not required for this step). Install the adapter with the sensor hole in the upper most orientation. We recommend adding a witness mark once in position.
4. Insert the drill bushing supplied with the adapter and drill a 4.2mm (.166) hole, 13-16mm deep (.500-.625)(Figure 2). Remove the drill bushing and chamfer the hole. Tap the hole with a M5-0.8 thread (Figure 3). When finished, the included M5 bolt head must seat on the cam (Figure 4).
5. Remove the adapter and clean all drill and tapping chips from the cam and cam housing. A magnet is good for removing iron chips and flush with solvent to remove debris the magnet doesn't pick up. **DO NOT USE COMPRESSED AIR!!**
6. **Adjusting the sensor gap.** Remove all oil from the M5 threads in the cam and the M5 bolt. Install the bolt finger-tight. The M5 bolt head must seat on the cam. Install the adapter using one gasket. Check the distance from the cam sensor mounting surface to the top of the M5 bolt. The distance should be 33.0-33.5mm (1.300-1.320). Additional gaskets may be used if the distance is too small. Add a washer under the M5 bolt if the distance is too large.
7. **Final assembly.** Remove the M5 bolt and shims if needed and apply Loctite 271 (red) to the threads and reinstall in the cam and tighten. Install the gasket(s) and adapter in the proper orientation and tighten.
8. Apply a small amount of oil to the O-ring on the sensor and the sensor bore, and insert the sensor. Install the M6 X 10 bolt and tighten.



Figure 1



Figure 2



Figure 3



Figure 4

911 CAM SENSOR WIRING INSTRUCTIONS

1. Attach 12v switched power to sensor connector terminal A. From the TEC wire harness cam sensor cable, attach the red signal wire to terminal B, and the black sensor ground to terminal C. Terminate the shield at the length of the cable jacket.
2. Some ECUs require a Pull-Up Resistor. If required, install a 1K, ½ watt resistor pull-up resistor between the 12v and red signal wires, terminal A & B.

