Engine Cranks but will not start -sample Does starter turn engine over at a normal speed? Or does it crank faster than normal? (like no compression) - Or is it slow or doesn't crank at all-? Is it an uneven speed, fast, then slow? TOO FAST- If maybe fast or definitely too fastcheck timing belt. Different methods to see if it's OK: 1. Check cam through oil filler cap 2. Check UNEVEN-**SLOWER** rotor in distributor. Is camshaft spinning? OR NOT AT Check spark on **ALL-SEE** all cylinders. NORMAL- you probably have a good battery/ Won't Crank starter. Now, hold the gas pedal at part throttle and NO-timing belt try to start it- just crack the throttle a very little. DVD is broken. Have to YES: Possible HEAD GASKET Does it start? replace it. If inter-Is it full of water? Look underference fit, may neath for leaksneed valves too. YES- clean the throttle Put hand or pressure tester over Check cam and plate and try again without radiator (or fill with water and NO- still no start- try it with the gas pedal to the floor. Does it start? holding at part throttle. aux. shafts for look for bubbles) while cranking. freedom of move-Does it start normally? Is there pressure or bubbles in the ment to be sure radiator? they did not seize NO- Listen for YES- it's and cause break. NO- You still need to pump in fuel tankgetting too hold at part throttle to start. should buzz while much fuel Probably have IAC probcranking (and most and is NO- still could be head lems, but try cleaning the cars for 1 or 2 sec-"flooding" gasket blown-REthrottle and see if that imonds with key on SEE Beyond YES-the **EVAUATE** cranking proves it. If not SEE Beeven without crankthe Tune-UP cleaning speed question. Take anyond the Tune-up DVD to YES- blown ing)- May need good DVD. black fixed it other route or continue diagnose it. Or replace the head gasketstethoscope or long smoke/rich IAC motor as a good screwdriver on tank. optionally conchapter guess. Depending on the BAD-Check Do you hear it? firm it with primary and car, you may can adjust the Do compression test. compression base idle speed for now secondary Is compression even test, big jobignition... and at least 100psi in NO- Check spark first repair it or buy etc... all cylinders? some imports require a car ckp signal to turn pump on.- HAVE Spark? YES- Check fuel pressure. You must know what your pressure is NO- Engine is damaged, disassemble and what it is supposed to be!! You must buy a gauge, it's worth and repair or replace, or buy a car it!! A little off shouldn't keep it from starting. You CANNOT go YES- Cam may be turning NO- test CKP by how far it squirts or how much you get in your eye!! The diagbut belt may have slipped. sensor: Good nosis goes on from here.....etc....etc.... View timing marks. Check YES- You may Signal? cam and crank gear marks have misjudged the cranking speed behind timing belt cover-NO- Test senissue. Continue some have a hole with a plug sor power supcovering it, others you have to with no start diag-YES-Start ply and ground. YES- Fuel pump circuit testing- For most cars, the pull or remove the timing nosis pump comes on a couple of seconds when you first turn with power Good? NO-Diagnose cover to access. Are timing the key on, even without cranking. Use test connector supply... Test relays, fuses. marks correct? Primary Ignior crank it to get a steady voltage reading for the test. Grounds, etc.... NO- Install Is valve timing is OK? You have to be testing while the pump is supposed to be tion...etc... YES-Replace timing belt or etc... running.....etc....etc.... CKP sensor. chain.