

CASE HISTORY TOYOYTA MR2

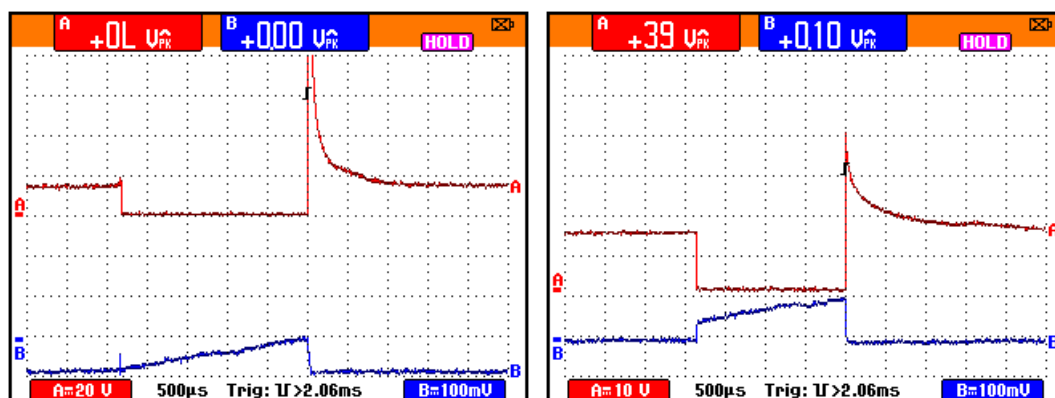


WE WERE ASKED TO INVESTIGATE A MR2 WITH A PROBLEM WITH ROUGH RUNNING AND THE ENGINE MANAGEMENT LIGHT COMING ON. THE VEHICLE HAD A HISTORY WITH IT OF THIS PROBLEM .

READING THE ENGINE MANAGEMENT SYSTEM REVEALED A FAULT STORED FOR BOTH A RANDOM MISFIRE AND A MISFIRE ON NUMBER THREE CYLINDER.

WE CHECKED THE INDIVIDUAL COIL PACKS AND PLUG CONDITION BOTH WERE OK , WE CHECKED THE ENGINES MECHANICAL CONDITION BOTH COMPRESSIONS AND ENGINE VACUUM AND FOUND THEM TO BE OK.

AT THIS STAGE THERE APPEARED TO BE NO OBVIOUS REASON FOR THIS MISFIRE , WE THEN CARRIED OUT FURTHER CHECKS USING OUR FLUKE LAB SCOPE AND FOUND THAT NUMBER THREE INJECTOR HAD A POOR PATTERN ON THE SCOPE, IT HAD A POOR INDUCED VOLTAGE SPIKE AND A HIGH CURRENT RAMP WITH LOW DURATION INDICATING A SHORT CIRCUIT IN THE INJECTOR WINDING. WITH THE INJECTOR REPLACED THE CAR RAN FINE



NEW INJECTOR

FAULTY INJECTOR