



Subject: IMPORTANCE OF AC SYSTEM SERVICING	TSB #: 41 10-10					
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WHY YOU SHOULD SERVICE YOUR A/C SYSTEM ON A REGULAR BASIS, AT LEAST EVERY TWO YEARS. BY NEIL MCDUFF, ADAIR, QLD

THE STANDARD AUTOMOTIVE AIR CONDITIONING SYSTEM IS BY ALL INTENTS A CLOSED OR SEALED SYSTEM BUT WITH DETERIORATION AND NATURAL PERMUTATION (LEAKAGE) IN THE BEST MAINTAINED STATE IT WILL NATURALLY LOOSE APPROX 15 % OF ITS CHARGE OVER A YEAR.

THIS BEING THE CASE OVER THAT PERIOD THE SYSTEM WILL ALSO LOOSE APPROX 15 % OF ITS EFFICIENCY EVERY YEAR AND OVER TIME THIS WILL ONLY INCREASE.

AS ANY TECHNICIAN WOULD KNOW THIS ONLY APPLIES TO NEW VEHICLES AND AS THE AGE INCREASES ALSO DOES THE LEAKAGE RATE VIA HOSES /COMPRESSOR SHAFT SEALS AND FITTING JOINTS.

EVERY SYSTEM HAS A FDR/ACCUMULATOR OR DESICCANT BAG FOR MOISTURE COLLECTION. AS THE SYSTEM WILL ALWAYS CONTAIN MOISTURE ESPECIALLY WHEN A REPAIR IS CARRIED OUT LEAVING THE FDR OPEN TO THE ATMOSPHERE, THE DESICCANT WILL CONTINUE TO ABSORB MOISTURE UNTIL THE DESICCANT REACHES SATURATION POINT AT THAT STAGE THE DESICCANT BREAKS DOWN AND SPREADS THROUGH THE ENTIRE A/C SYSTEM CAUSING PERMANENT DAMAGE TO THE COMPRESSOR AND BLOCKING OTHER COMPONENTS SUCH AS THE TXV OR ORIFICE TUBE.

OTHER THREATS ARE CORROSION TO MAINLY THE ALUMINIUM PARTS BECAUSE WHEN THE MOISTURE MIXES WITH REFRIGERANT IT TURNS INTO AN ACID.

THIS ATTACKS THE METALS CAUSING EXPENSIVE REPAIR BILLS.

THE OTHER FUNCTIONS OF THE FDR IS TO HELP TRAP AND CONTAIN ANY EXCESS OIL SLUDGE AND TRAP ANY FOREIGN MATERIAL SUCH AS ALUMINIUM PARTICLES RELEASED FROM THE COMPRESSOR.

ONCE AGAIN THE FDR CAN ONLY HOLD AND FILTER SO MUCH MATERIAL AND IF NOT REPLACED ON A REGULAR BASIS, AT BEST EVERY TWO YEARS THE SYSTEM IS LEFT OPEN TO POSSIBLE DAMAGE AND MAJOR REPAIR BILLS.

AS A CONSUMER LIKE MYSELF SOMETIMES YOU FEEL YOU ARE BEEN UP SOLD FOR SOME EXTRAS YOU DON'T NEED BUT IF THE REPAIRER IS DOING HIS JOB WELL YOU SHOULD LISTEN TO HIS RECOMMENDATIONS, AFTER ALL YOU WOULD NOT HAVE MULTIPLE OIL CHANGES WITHOUT CHANGING THE OIL FILTER IN THE ENGINE WOULD YOU?

NOTE;

IT IS IMPORTANT TO RUN YOUR A/C ON A REGULAR BASIS TO HELP PUSH THE LUBRICANTS THROUGH THE SYSTEM TO ALL THE MAJOR COMPONENTS.

IT IS RECOMMENDED AT LEAST ONCE A WEEK.