



<b>POOR A/C COOLING AND COMPRESSOR FAST CYCLING</b>					TSB #:	<b>71</b>
					Date:	<b>9/1/2013</b>
Initial Once Read:						

<b>VEHICLE:</b>	November 2010 Toyota Land Cruiser with 195,000km on the speedo. Customer of Paul Evans, Kelso Radiators in NSW. <i>Note: The customer complaint would be the same for all vehicles not only the Land Cruiser.</i>
<b>CUSTOMER COMPLAINT:</b>	A/C not cold. Especially on a high ambient temperature day. A/C compressor constant cycling. Compressor only engaged for 10-15 seconds. On highest blower fan speed the air flow seemed inadequate through the face vents. The selected speed did not match the air flow.
<b>TESTING or INSPECTION:</b>	Connected pressure gauges and check A/C system pressures. High and Low pressure to specification.  Possible causes: evaporator ice-up, faulty blower fan speed resistor or amplifier, faulty blower fan, A/C relay, A/C system pressure issue, ECM issue, restricted HVAC air intake and evaporator fin restriction.
<b>RESULT:</b>	Cabin filter severely blocked by dirt / mud as the vehicle operates in a very harsh and dirty environment. The vehicle is 2 years old and the cabin filter had never been changed as the customer was not aware that it had one.
<b>CAUSE or REASON:</b>	The air was restricted going into the vehicle cabin, hence the blower fan air flow on the highest speed was very poor. With air being "pushed" through the evaporator at very low air flow, the evaporator was not under any heat load and quickly reached the compressor cut off cycling point.  The cabin filter was replaced and the system is now operating okay.
<b>SUMMARY:</b>	Always ensure that as part of your A/C service or fault diagnosis that you check if a cabin filter is fitted. If it is dirty or clogged — replace it. We suggest every 15,000km or 12 months, but you should consult the manufacturers handbook for their recommendation.  It is a good idea to write the date you install the new cabin filter on the side of the filter in black marker pen for future reference.  Don't forget to include the cabin filter blockage as part of A/C system diagnosis.
<b>PHOTOGRAPH:</b>	 <p>New Adair Cabin Filter</p> <p>Part # FATOY04</p>