



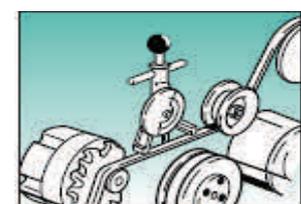
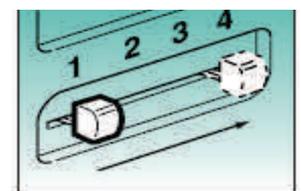
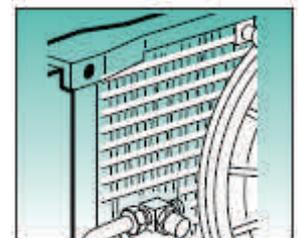
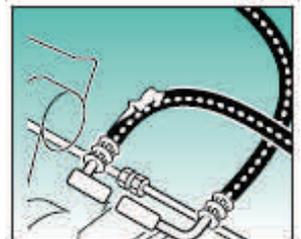
Subject: <b>A/C SYSTEM PRELIMINARY INSPECTION</b>	TSB #: <b>31 2-10</b>
	Date: <b>30/2/10</b>
Initial Once Read:	

When carrying out an A/C system service or a diagnostic repair you should carry out an inspection of all the A/C system components and engine ancillary items such as the radiator, cooling fans and accessories.

Usually you would follow a "preliminary inspection" check list to prompt on what to observe / check. You would mark on the check list if a component requires replacement, refrigerant / oil leakage, adjustments required or non functional sub systems or other vehicle issues impacting on the A/C system. Once the check is completed the customer would be contacted for approval to rectify the items over and above your normal service charge.

Below is a list of preliminary checks that you should perform during an A/C service or at a repair:

1. Check for hose and tube physical damage.
2. Check for external blockages in the condenser fins such as grass seeds and insects.
3. Operate the radiator / condenser fans and check if the blade direction is correct.
4. Check for overheating radiator or engine.
5. Inspect all drive belts for wear, damage and adjustment.
6. Ensure that the fan fluid coupling "locks" at idle, and is not leaking and has no excessive shaft play.
7. Ensure that the compressor engages (could have possible refrigerant leakage)
8. Operate the A/C to ensure that the compressor cycles on / off. (non variable stroke compressor)
9. Check that the heater tap is closing off and not leaking.
10. View if the air mixing door is fully closing cable adjustment.
11. Inspect all vacuum hoses for connection and perishing.
12. Check operating of all dash vent louvers.
13. Check blower fan operation and ensure that all speeds available.
14. Check for air leakage (damaged foam seals) between the blower housing, evaporator case and HVAC.
15. Inspect for any oil or dye stains at A/C system joints, hose crimps and components such as the compressor.
16. Check all bolts for tightness including compressor mounting.
17. Check for any unusual noises from idler pulleys, alternator, water pump and compressor / clutch.
18. Remove and inspect the air intake pollen filter
19. Check for operation, obstructions in the drain hose.
20. Check operation of the heating and A/C controls including illumination.
21. Inspect for A/C system warning and information labels
22. Carry out A/C system temperature and pressure test while observing if any frost build up occurs on the A /C tubes or components.





Below is an example of an A/C inspection checklist. This could be used to record any issues found during the inspection. The form could be given to the owner or kept on record with their work order.

<b>VEHICLE A/C PRELIMINARY INSPECTION REPORT.</b>		
COMPANY:	CONTACT:	AU:
DATE:	CUSTOMER: Mrs / Mr / Ms.	PHONE:
VEHICLE:	REGISTRATION:	ODOMETER:
BUILD DATE:	LAST A/C SERVICE / REPAIR:	
BODY DAMAGE:		



TASK	REPORT	TASK	REPORT
Hose, tube damage		Engine, condenser cooling fan operation, damage	
Hose, tube leakage		A/C fast idle operation	
Any hose tube clamps missing, loose		Blower motor noises	
Compressor leakage		Check air intake filter for blockage	
Compressor mounting bolts tightness, fitment		Blower fan speeds - all	
Joint and fitting leaks		A/C switch operation	
Drive belt condition		Mode control, direction operation	
Drive belt tension		Dash vent Louvre operation	
Electrical wiring connector damage		HVAC control lamps, LCD screen	
Electrical wiring damage		Drain tube connected to evaporator case	
Condenser fin damage, foam seals missing		Wiring hanging down from dash, console	
Condenser obstructions		Dash, trim, seat damage	
Viscous fan operation, leaks		Seat, guard, steering wheel covers fitted	
Bearing noises from all pulleys		High pressure reading @ idle	
Radiator temperature		Low pressure reading @ idle	
Accessories fitted in front of condenser		Face vent temperature	
Component rust evident		Does the A/C system conform to specification?	