

TF2344 – AIR CONDITIONING KIT

DEFENDER 2.4 & 2.2 TDCI – 2007 -2016

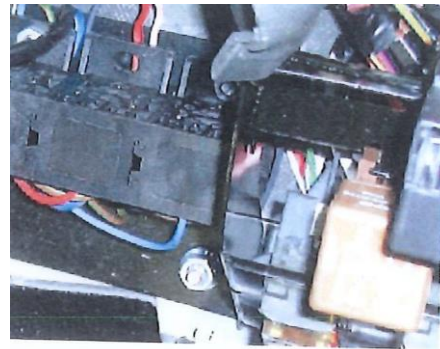
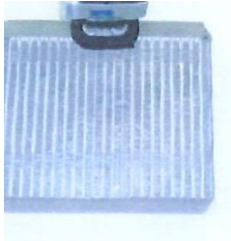
# *Installation Instructions*



*Land Rover Defender 2007*

***AK12BB***

## Evaporator Assembly



<b>AK1288/02</b>	<b>Land Rover Defender 2007 Evaporator</b>	
<b>PART NO</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
SB1190	Evaporator/ valve Assembly	1
1398-900-01	Electronic thermostat	1
M2602	Thermostat Clip	1
JTB500010	A/C Switch	1
M2598	Relay Mounting Plate	1
LR1306	Relays	4

## Mount & Drive



<b>PART NO</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
<b>AK1288/01</b>	<b>Land Rover Defender 2007 Mount &amp; Drive</b>	
PQR500230	Idler	1
POSS00600	Belt	1
PRF500030	Compressor cover	1
	Compressor	1
BSCS-03S	MS x 110 Hex Head Bolt	3
WS-010	MS Spring Washer	4
WS-004	MS Plain Washer	4
BSCS-026	MS x 20 Hex Head Setscrew	1

## Condenser Assembly



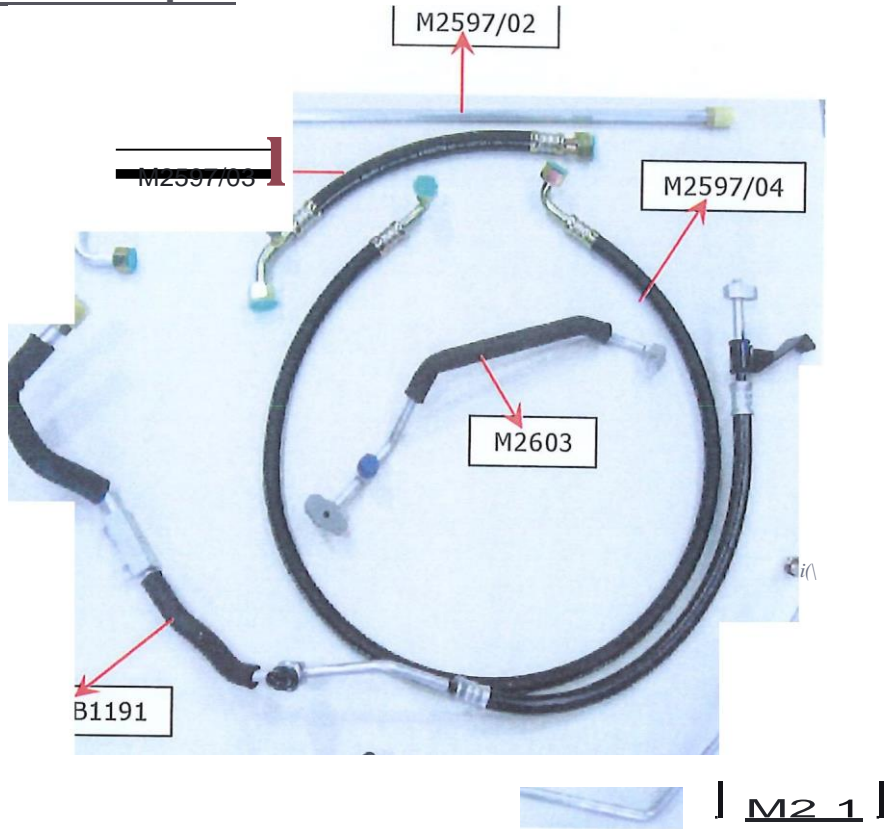
<b>S81187</b>	<b>Land Rover Defender 2007 Condenser Assembly</b>	
<b>PART NO</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
1991-455-01	Condenser	1
M2431	Condenser Mounting Frame	1
M2432	Top Condenser Mounting Bracket	2
VA07-AP7/C-31S	Condenser Fan	1
BSC6-015	M6 x 25 Hex Head Setscrew	3
N6-007	M6 T Nyloc nut	4
NS-015	MST Nyloc Nut	4
BSCS-134	M5 x 30 Hex Head Setscrew	4
WS-022	M5 x 25 Mud guard washer	4
BSC6-136	M6 x 60 Hex Head setscrew	1
N6-003	M6 nut	2
M1157	Pipe clip	1
BR-004	4.8 x 12 Blind Rivet	4

## Receiver Drier



<b>PART NO</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
<b>5B1162</b>	<b>Land Rover Defender Receiver Drier Assembly 2007</b>	
1368-077-0IDE	Receiver Drier	1
M2449	Drier Bracket	,1
N6-007	M6 T Nyloc Nuts	1
BSC6-013	M6 x 16 Hex Head Set screw	1
W6-003	M6 Plain Washer	2
N6-011	M6 Flange Nut	2

## Hoses and Pipes



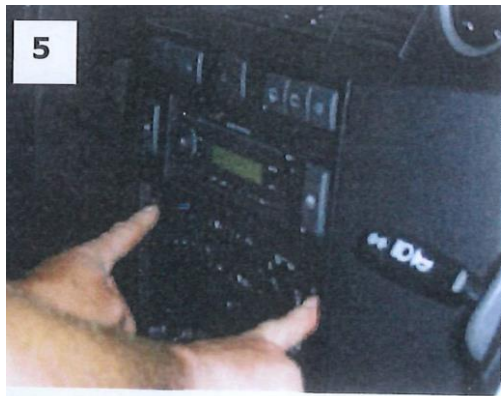
<b>AK1288/04</b>	<b>Land Rover Defender 2007 Hoses &amp; Pipes</b>	
<b>PART NO</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>
5B1191	Evaporator to Compressor #6 Pipe	1
M2597/03	#10 Hose	1
M2597/04	#8 Hose	1
M2597/02	#8 Pipe	1
M2603	#6 Drier to Pipe	1
M2597/01	#6 Drier to Condenser	1

## Interior

1. Remove steering wheel cover.
2. Remove steering wheel using special tool (Check spline).
3. Remove fuse box cover.
4. Remove grab handle.



5. Remove two screws from fascia.
6. Remove controls from steering column.
7. Remove radio using keys.
8. Remove instruments.
9. Remove centre console and disconnect plugs.
10. Remove screws for heater controls and leave controls in situ.



## Interior Continued

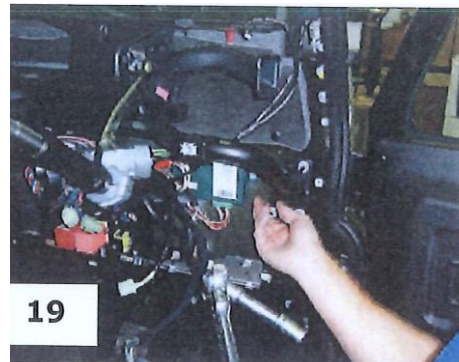
11. Remove dashboard screws at side and lower part of dashboard.
12. Remove dashboard screws at top of dashboard.
13. Remove speakers from top of dash board and disconnect.
14. Remove parking brake and unbolt.
15. Remove carpet on transmission tunnel.
16. Remove gear lever cover.





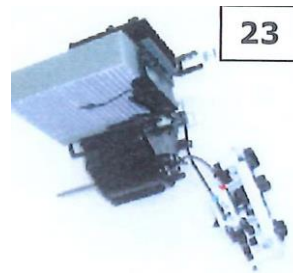
## Interior Continued

17. Remove dashboard.
18. Remove duct from blower to heater box.
19. Remove dashboard support bar.
20. Remove air ducts.
21. Remove heater box.



## Interior Continued

22. Split heater box
23. Install evaporator.
24. Install thermostat probe as shown.

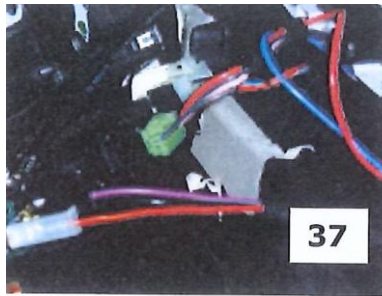


25. Ensure drain tube is clear.
26. Re assemble heater box.
27. Re install heater box.
28. Remove fuse and relay box - 4 nuts.
29. Identify 20a and 10a A/C fuse locations.
30. Install terminals on A/C loom:
  - a. Red wire into 20a fuse
  - b. Pink wire into 10a position
31. Fit fuses.
32. Re-fit fuse and relay box.
33. Fit A/C loom relays using bottom fuse, relay box, fixing stud and nut supplied in the kit.
34. Run the A/C loom across the front of the heater box with heater control cable.
35. Solder the blue wire onto the blue wire on heater controls.
36. Solder the red and orange wire onto the red and orange wire for dash lights.



## Interior Continued

37. Ensure green connector is in place for switch.
38. Cut bulk head grommets and push through from the engine bay, the compressor loom and pressure switch loom.
39. Connect to A/C loom
40. Connect thermostat

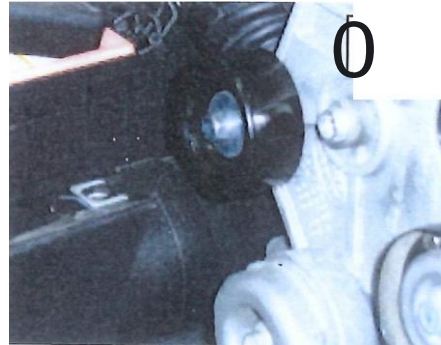
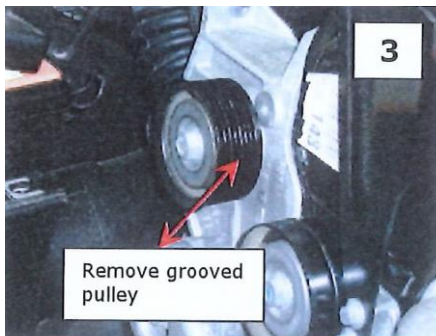
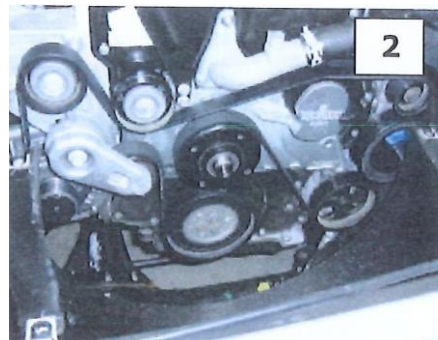
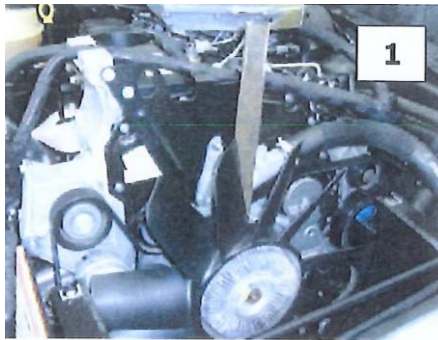


41. Re install dashboard reversing previous instructions.
42. Fit A/C switch to centre panel before installing panel.
43. Insert green plug into A/C switch.



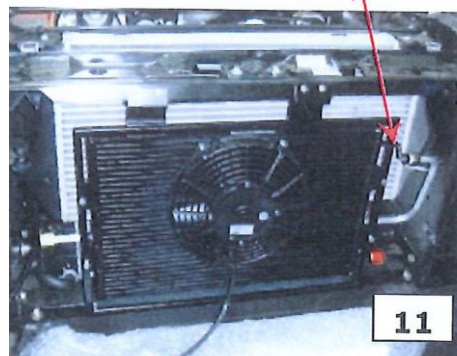
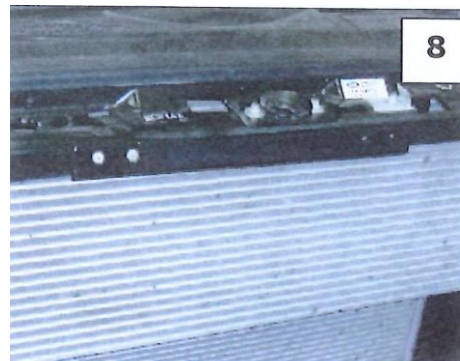
## Engine Compartment

1. Remove fan cowl and cooling fan.
2. Slacken tensioner to remove original belt and discard
3. Remove grooved idler pulley and discard.
4. Fit back idler to position indicated
5. Fit compressor assembly
6. Slacken tensioner and install new drive belt



## Engine Compartment Continued

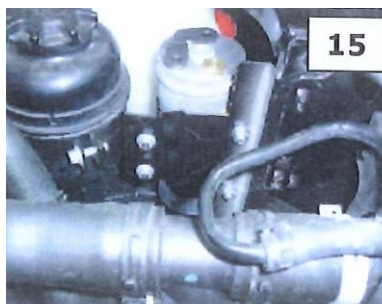
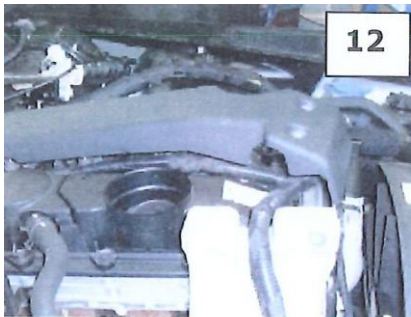
7. Remove front grill.
8. Remove A Frame and drill out rivets.
9. Fix condenser mounting brackets using supplied rivets.
10. Fit no 8 pipe to condenser before fitting condenser.
11. Fit condenser and fan assembly.



Fit number  
8 pipe to  
condenser  
before installing  
the condenser

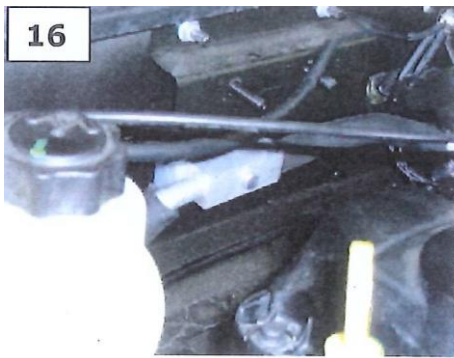
## Engine Compartment Continued

12. Remove plastic cover on cylinder head to release loom
13. Undo and move ECU module to allow access to block valve
14. Connect earth from under bonnet looms to earth point near ECU
15. Remove power steering reservoir bracket and fit receiver drier bracket in place. Mount reservoir to drier bracket, fit receiver drier.



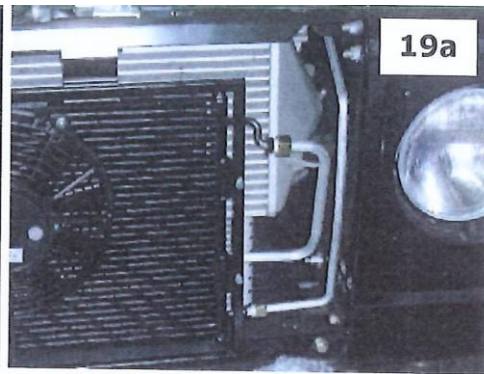
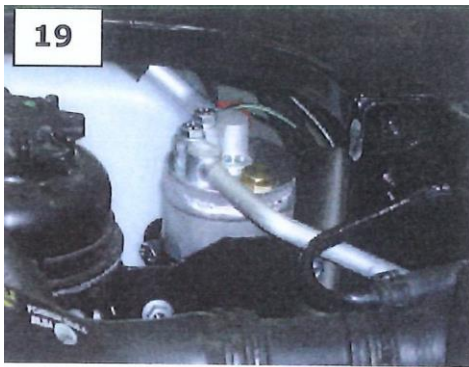
## Engine Compartment Continued

16. Fit pipe assembly to block valve
17. Fit pipe to receiver drier.
18. Connect the pipe assembly to the pipe leading to the receiver drier.



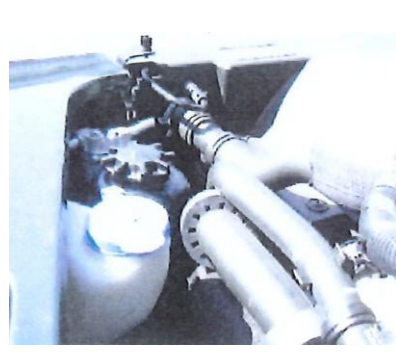
## Engine Compartment Continued

19. Fit pipe from drier to condenser
20. Connect to compressor

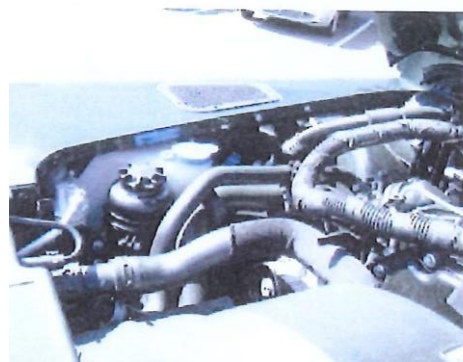
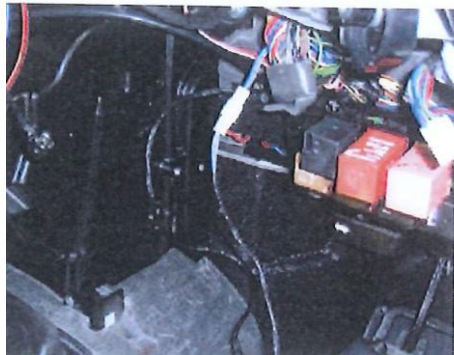




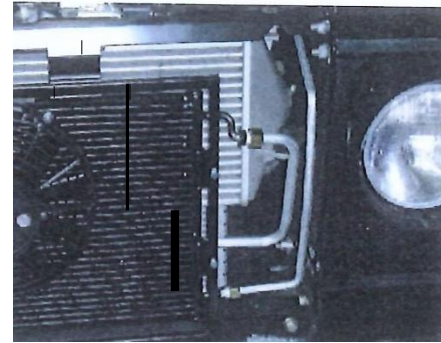
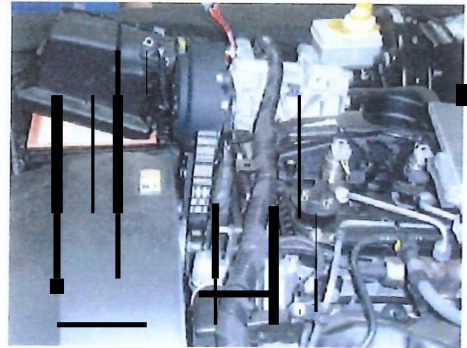
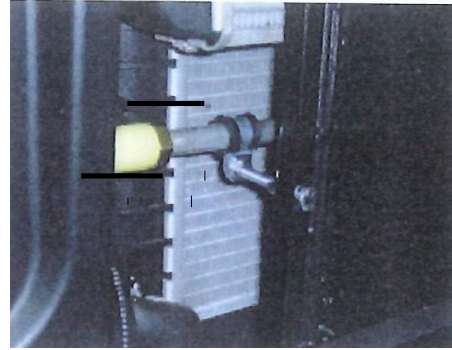
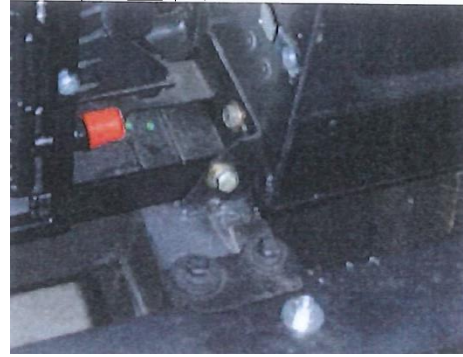
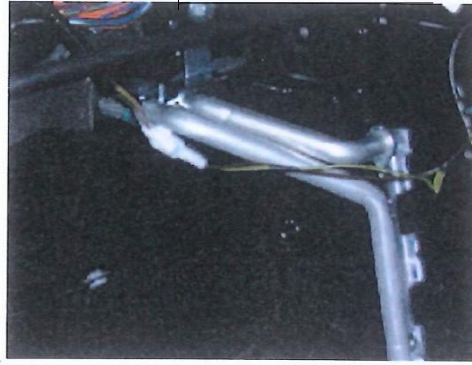
***Additional Information***

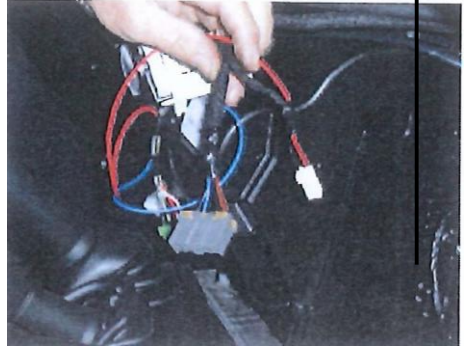
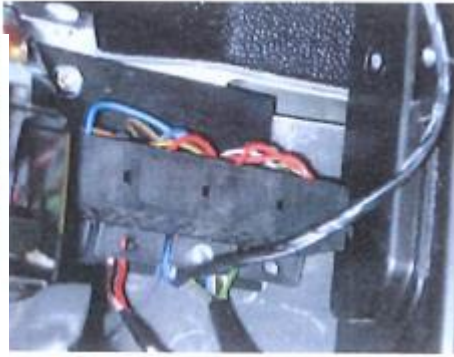
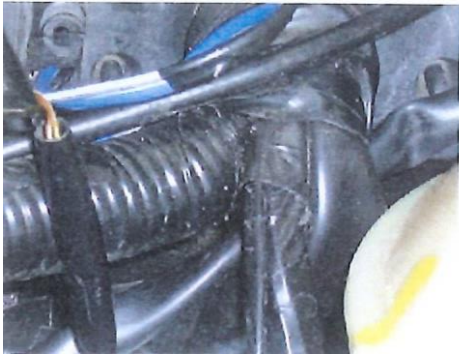


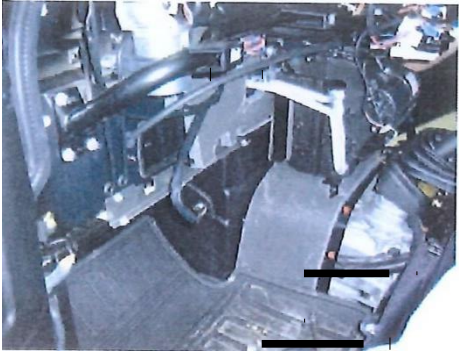
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## Additional Information







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