## Appendix A

## List of Parts Required for Thermo Top C Installation in Puma Defender

Note: parts in *Blue* are those you'd need to get from either a Webasto dealer or ebay

- 1. Webasto Thermo Top C Diesel heater (including coolant pump)
- 2. Standard Webasto fixing plate
- 3. Approx 1 metre 1 inch steel bar to fabricate mounting bracket
- 4. 4x 6mm stainless dome head set screws, nyloc nuts and washers for mounting bracket
- 5. Webasto Wiring Loom
- 6. Webasto Air intake filter
- 7. Webasto Air intake pipe
- 8. 1x 22-24mm Stainless Jubilee clip for air intake (heater end, other end 'screws' onto filter)
- 9. Webasto 22mm silencer
- 10. Webasto silencer mounting bracket
- 11. 1x 6mm rivnut (to secure mounting bracket to chassis
- 12. 6mm stainless set screw and locking washer for above
- 13. Webasto 1.2m 22mm stainless exhaust pipe (if buying at a dealer ask for a 'generous' metre!)
- 14. Exhaust pipe end cap
- 15. Webasto 1.2m exhaust lagging
- 16. 3x 22mm exhaust clamps (1 at heater end, 2 at silencer)
- 17. Ix Stainless 'P' clip (to secure exhaust pipe)
- 18. Aluminium sheet and aluminium rivets to fabricate exhaust heat shield
- 19. Webasto low profile diesel pick-up pipe (Webasto part no: 41S45017A)
- 20. Optional Fuel pump removal tool(Land Rover part no: 310-118) {can use home made tool}
- 21. 5-6m 2mm plastic fuel line
- 22. 2 small plastic P clips for securing fuel line
- 23. Webasto fuel dosing pump
- 24. Webasto Rubber fuel pump holder/bracket( sometimes comes with dosing pump)
- 25. 1x 6mm rivnut (to secure dosing pump to inner chassis)
- 26. 6mm stainless set screw and locking washer for above
- 27. 4x lengths (approx 5-6 cm) 5mm reinforced rubber tubing for connecting fuel line (1 at fuel tank, 2x at pump, 1 at heater) plus 8x stainless 9mm jubilee clips for fuel line/connecting pieces {can get kits off ebay but check rubber tubing carefully}
- 28. 2x Webasto 18mm pre-formed hoses
- 29. Optional -: Webasto inline coolant one way valve (Webasto part no: 12780A)
- 30. 1x 19mm-16mm reducing hose (look on ebay for silicone reducers )
- 31. 1x 19mm straight coolant pipe connector (reinforced glass plastic)
- 32. 1x 22mm stainless jubilee clip (for 16mm end of reducing hose){could use existing Land Rover clip}
- 33. 3x 24-26mm stainless jubilee clips for heater hose connections (could use existing Land Rover clip for one of them)
- 34. 2x 5mm rivnuts to secure Webasto relay and fuse holder (part of wiring loom) to bulkhead

- 35. 2x stainless 5mm set screws and washers for above
- 36. Approx 2m 12AWG or equivalent red wire to extend main power lead of Webasto loom
- 37. Plastic cable ties, rubber grommet, electrical connectors, heat shrink tubing, etc for wiring changes and securing fuel pipe.

## Land Rover parts to consider:

- 1. Plastic wheel arch securing clips Land Rover part no: MWC 9918PMA
- 2. Plastic square clips for self tapping screws on wing top cover Land Rover part no: RTC 3745