Mr./Mrs/Ms:	М	Model:					Reg.No:					
Invoice/Job no:					Odometer reading:					V.I.N:		
		5.				5.						
Service type:	Α	В	Α	В	Α	В	Α	В	Α	В		
Montha/ 000 miles:	10	24	26	40	60	72	0.4	06	100	120		



**DEFENDER (2.4D)** (ALL MODELS FROM 07MY ON) **MAINTENANCE CHECK SHEET** 

Adjust/Lubricate/Replace - Labour cost included in scheduled time except items marked \* Check - After the checking procedure, cleaning, adjusting, repairing or replacing is subject to extra labour and material cost.

			WANTENANCE STEEK STEET
	A B	MAIN SERVICE (VEHICLE INTERIOR)	A B MAIN SERVICE (UNDER VEHICLE)
1. 2. 3. 4. 5. 6. 7.		Check condition and security of seats and seatbelts Check operation of all lamps, horns and warning indicators Check operation of front/rear wipers and washers and condition of wiper blades Check operation of handbrake Check battery condition Check/top up battery electrolyte level low maintenance battery fitted Replace alarm handset batteries	Check for fluid leaks from power steering and suspension systems hydrauli pipes and unions for chafing and corrosion  Check for fluid leaks from Engine, Gearbox, Transfer Box and Axles  Check exhaust system for leaks, security and damage  Check/tighten steering box and front and rear axles suspension fixings.  Check steering rod ball joint fixings and condition of ball joints and dust cover the check/tighten front and rear axles suspension link fixings, check condition of the check/tighten front and rear axles suspension link fixings, check condition of the condition of the check/tighten front and rear axles suspension link fixings, check condition of the check/tighten front and rear axles suspension link fixings, check condition of the check/tighten front and rear axles suspension link fixings, check condition of the check/tighten front and rear axles suspension link fixings, check condition of the check/tighten steering the check s
		MAIN SERVICE (VEHICLE EXTERIOR)	43. Contact the mounting rubbers  43. Contact the mounting rubbers
8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.		Annual corrosion/cosmetic inspection Check headlamp and auxilary lamp alignment Remove road wheels Check tyre pressures, condition and tread depth.  Inspect brake pads for wear, calipers for leaks and disks for condition Inspect road wheel speed sensor harness for damage Renew fuel filter element Drain fuel filter Refit road wheels to original hub position ( Use anti-sieze compound on spigot bore ) Visually check intercooler/radiator for external obstructions and fan blades for damage Check ambient air sensor for damage Check operation and lubricate door locks, hinges, door checks, bonnet catch & fuel flap	44. 36k 72k Check security of engine and transmission mounting rubbers  If fault lamp(s) are illuminated, interrogate that system using IDS/SDD and report findings*  46. Carry out road test (see WARNING over page)  47. Endorse service record  48. Check for any applicable outstanding service actions or recalls  49. Report any unusual features of vehicle condition and additional work require
		MAIN SERVICE (UNDER BONNET)	
20. 21. 22. 23. 24. 25. 26. 27.		Renew engine coolant Replace Brake Fluid - Also see recommendations Check cooling, intercooler and heating systems for leaks, hoses and oil pipes for security and condition. Top up as required Renew air cleaner element Check condition of ancillary driving belt Renew ancillary driving belt Check/top up brake, PAS, and clutch fluid levels and screen washer reservoirs Check/adjust steering box	
28.	A B	MAIN SERVICE (UNDER VEHICLE)  Renew engine oil and filter	The maintenance items listed are those recommended for validae energing under normal driving
29. 30. 31. 32. 33.		Renew manual gearbox oil Renew transfer box oil Check and top up transfer box oil Renew front and rear axle oil and clean drain plug Check and top up front and rear axle oil Check for free play in propeller shaft universal/sliding joints and lubricate sliding joints	The maintenance items listed, are those recommended for vehicles operating under normal drivin road and climatic conditions. More frequent attention may be necessary if the vehicle is subject stop/start operation, extremes of temperature, dusty conditions, off road driving or frequent towir of trailers.  Service check completed, cosmetic/corrosion inspection check completed and service portfolio book endorsed.
35.		Check visually brake servo hose, brake, fuel, clutch pipes, unions, and	Name: Date: Date:

A B MAIN SERVICE (UNDER VEHICLE)
36. Check for fluid leaks from power steering and suspension systems hydraulic pipes and unions for chafing and corrosion
37. Check for fluid leaks from Engine, Gearbox, Transfer Box and Axles
38. Check exhaust system for leaks, security and damage
39. Check/tighten steering box and front and rear axles suspension fixings. 40. Check steering rod ball joint fixings and condition of ball joints and dust covers
41. Check shock absorbers for leakage and damage
42. Check/tighten front and rear axle suspension link fixings, check condition of mounting rubbers
43. Check security of towing bracket
44. 36k 72k Check security of engine and transmission mounting rubbers
45. If fault lamp(s) are illuminated, interrogate that system using IDS/SDD and report findings*
46. Carry out road test (see WARNING over page)
47. Endorse service record 48. Check for any applicable outstanding service actions or recalls
49. Report any unusual features of vehicle condition and additional work required
The maintenance items listed, are those recommended for vehicles operating under normal driving, road and climatic conditions. More frequent attention may be necessary if the vehicle is subject to stop/start operation, extremes of temperature, dusty conditions, off road driving or frequent towing

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Arduous Usage Servicing Requirements.

Usage Conditions				tions	8	Maintenance Item		Interval	
U						Engine Oil	R	Every 400 hours of operation	
	٧	W	Х		Ζ	Engine Oil	R	Every 6,000 miles or 6 months	
		W		Υ		Air Cleaner Element	S	Every 3,000 miles or 3 months	
		W		Υ		Fuel Filter Element	R	Every 6,000 miles or 6 months	
			Х			Cooling Hoses and Connectors	ı	Every 6,000 miles or 6 months	
		W	Χ	Υ		Ancillary Drive Belt	I	Every 6,000 miles or 6 months	
		W	Χ	Υ	Z	Wheel Bearing Grease	S	Every 24,000 miles or 24 months	
			Х	Υ	Z	Transmission Oil	R	Every 12,000 miles or 12 months	
		W		Υ	Z	Front and Rear Brakes	I	Every 3,000 miles or 3 months	
		W		Υ		Suspension and Steering Components	I	Every 6,000 miles or 6 months	
•		W	Χ	Υ		Grease Points on Propshaft	S	Every 6,000 miles or 6 months	

# **Usage Condition Codes**

U = Extended periods of engine idling or sub 10 mph (16km/h) driving - e.g. more than 50% daily usage

V = Repeated short distance driving e.g. up to 5 miles (8 km), stop start driving

W = Driving in dusty and/or sandy conditions

X = Extended periods of driving in hot conditions over 35°C

Y = Driving on rough and/or muddy roads and/or wading

Z = Towing a trailer or driving in mountainous conditions

#### Task Codes

l = Inspection

R = Replace

S = Service

O - Oct vice

WARNING: Two wheel roller tests must not be carried out. Four wheel roller tests, follow the guidlines in the workshop manual.

### **IMPORTANT - OIL CHANGE DIESEL ENGINES**

If the vehicle is operated on fuel with a high sulphur content (over 0.7) the oil change intervals must not exceed 3000 miles (5,000Km)

If the vehicle is operated on fuel with a moderate sulphur content (between 0.3 - 0.7) the oil change intervals must not exceed 6000 miles (10,000Km)

### IT IS RECOMMENDED THAT:

Comments/Remedial Work

At 48,000 mile intervals or every four years whichever is the earlier, all hydraulic brake caliper fluid seals, flexible brake hoses and brake servo filter should be renewed.

All working surfaces of the master cylinder and caliper cylinders should be examined and renewed where necessary .

Vehicles used extensively in arduous/off road conditions - check the road wheel speed sensors, brake pads and calipers for abrasive wear at 1000 miles (1500km) intervals.

When the vehicle is used in dusty or field conditions or deep wading, frequent attention to the air cleaner may be required.

When the vehicle is used in areas where fuel quality is poor, more frequent draining of the fuel filter may be required.

For full details regarding the operations contained in this maintenance check sheet, please refer to the workshop manual.

## GLOSSARY:

MAIN SERVICE = The main service is applicable to all vehicles. It is carried out at 12 month or 12,000 mile intervals, whichever occurs first.

Main Service "A" is applicable at 12 months/12,000 miles, 36 months/36,000 miles, 60 months/60,000 miles 84 months/84,000 miles and so on.

Main Service "B" is applicable at 24 months/24,000 miles, 48 months/48,000 miles, 72 months/72,000 miles, 96 months/96,000 miles and so on. Some items do not need to be carried out at every main service and these items are identified by an indicator in the tick box e.g. 60k (This indicates that this item is only applicable every 60,000 miles)

NOTE: The service required should be at the time or distance stated, which ever occurs first.