


# **DIFFLOCK**



## **Difflock Guide to:**

### **6,000 Mile Service Checklist**

#### **DISCLAIMER**

**Repairing and servicing vehicles should never be attempted unless you have appropriate professional training and are suitably qualified. If you are in any doubt about the work you intend to undertake you should consult an appropriate professional vehicle mechanic. Additionally you should always read and follow any relevant manufacturer's manuals and safety instructions in full BEFORE attempting any work on a vehicle. To the extent permitted by English law, Difflock Ltd accepts no liability for any loss, damage or injury arising as a consequence of any of the advice provided.**

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Vehicle Registration No: \_\_\_\_\_

## GENERAL

Item	Task Description	✓
1	Check MOT, Tax Disc and Insurance are up to date	
2	Pressure wash all oil, dirt and grease from vehicle including underside, engine and gearbox	
3	Lightly hose out dirt and debris from radiator, oil cooler and intercooler matrices	
4	Park vehicle on LEVEL surface and chock all wheels	
5	Remove bonnet mounted spare wheel	
6	Run engine until warm	
7	Check and save all radio and alarm codes	

## UNDERBONNET & UNDERSIDE

Item	Task Description	✓
8	Disconnect and remove battery – disconnect negative (-) terminal first	
9	Drain engine oil, renew copper sealing washer and refit engine sump drain plug	
10	Check battery for physical damage, top up electrolyte (fluid) level and fully charge with mains charger	
11	Renew oil filter	
12	Refill engine with new oil	
13	Drain flywheel housing and timing belt cover	
14	Check and top-up main gearbox	
15	Check and top-up transfer gearbox	
16	Check and top-up front axle differential	
17	Check front axle breather for blockage or damage	
18	Check and top-up rear axle differential	
19	Check rear axle breather for blockage or damage	
20	Check and grease front and rear propshaft UJ's and sliding joint	
21	Check propshaft coupling bolts for tightness	


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Item	Task Description	✓
22	Check front crankshaft damper for security and damage	
23	Check brake and clutch pipes for corrosion or damage	
24	Check axle bump stops, suspension bushes, anti-roll bar, panhard rod, 'A'-frame ball joint and self-levelling device (where fitted) for wear or damage	
25	Check steering ball joints and track rods for excessive wear or damage especially rubber gaiters	
26	Check steering damper for leakage and damage and the harmonic damper (if fitted) for secure fitting.	
27	Check exhaust for damage and corrosion	
28	Check and adjust handbrake mechanism <b>WARNING: DO NOT ATTEMPT TO WORK ON VEHICLE BRAKES IF YOU HAVE NO FORMAL MECHANICAL TRAINING</b>	
29	Check air/coolant hoses, wires, connectors, oil, steering fluid and fuel feed pipes for damage and security and especially for clearance from moving parts	
30	Check cooling system for leaks and radiator for damage and security	
31	Check drive belts for damage and adjust for tightness	
32	Check steering wheel for excessive 'slack' before wheels turn or excessive 'play' from side to side and up and down	
33	Check steering column universal joints for wear or stiffness	
34	Check and top-up brake fluid reservoir	
35	Check and top-up clutch fluid reservoir	
36	Check and top-up coolant reservoir	
37	Check and top-up power steering reservoir	
38	Check and top-up windscreen washer reservoir	
39	Check and drain fuel filter and fuel sediment	
40	Lightly spray engine bay with AC90 or similar and lightly lubricate all mechanical linkages including brake, clutch and accelerator pivots and steering column universal joints	

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## WHEELS, ARCHES AND TYRES INC. SPARE WHEEL

Item	Task Description	✓
41	Check that car jack and wheel brace are present in vehicle, undamaged, working correctly and stored securely	
42	Slacken wheel nuts on one wheel at a time before jacking up wheel clear of ground	
43	Remove wheel and apply light smear of anti seize paste to all mating faces and wheel studs	
44	Check wheel and tyre for damage, wear, pressure and matching type (either all radial or all cross ply and all same size)	
45	Check brake discs, drums pads and shoes for wear or damage	
46	Check brake pistons and or callipers for leaks	
47	Check brake pipes and flexible hoses for damage, corrosion or bulges	
48	Check and adjust brake shoe alignment and clearance (drum brakes only) <b>WARNING: DO NOT ATTEMPT TO WORK ON VEHICLE BRAKES IF YOU HAVE NO FORMAL MECHANICAL TRAINING</b>	
49	Check shock absorbers for corrosion, damage, leaks and bush wear	
50	Check and top-up front swivel housing (unless already filled with 'one-shot' grease instead of gear oil)	
51	Replace wheel and nip up wheel nuts	
52	Check front and rear wheel bearings and front swivels for excessive wear	
53	Check front tyre clearance on full steering lock both left and right	
54	Remove axle stand and jack and tighten wheel nuts to final torque	
55	Check front wheel alignment <b>WARNING: DO NOT ATTEMPT TO WORK ON VEHICLE STEERING IF YOU HAVE NO FORMAL MECHANICAL TRAINING, THIS TASK REQUIRES SPECIALIST EQUIPMENT</b>	

## STATIONARY CHECKS

Item	Task Description	✓
56	Refit and reconnect battery before smearing petroleum jelly over terminals – reconnect positive (+) terminal first	
57	Reactivate alarm/immobiliser and radio	
58	Check glow plug supply operates normally	
59	Start engine and check underneath vehicle for leaks	

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Item	Task Description	✓
<b>60</b>	Check that the following work:	
<b>a</b>	Horn	
<b>b</b>	Sidelights	
<b>c</b>	Tail Lights	
<b>d</b>	Headlights (Dipped)	
<b>e</b>	Headlights (Main Beam)	
<b>f</b>	Headlights (Flash)	
<b>g</b>	Indicators including side repeaters	
<b>h</b>	Hazard Lights	
<b>i</b>	Brake Lights	
<b>j</b>	Fog Lights	
<b>k</b>	Reversing Lights	
<b>l</b>	Number Plate Lights (also check number plates are undamaged and legible)	
<b>m</b>	Interior Lights	
<b>n</b>	Windscreen Wipers (front and rear)	
<b>o</b>	Windscreen Washers (front and rear) and Headlamp Washers	
<b>p</b>	Headlamp Washers (if fitted)	
<b>q</b>	Electric Mirrors (if fitted)	
<b>r</b>	Electric Windows (if fitted)	
<b>s</b>	Check all door, bonnet and tailgate locks will close securely and lock and unlock both electrically from key fob and manually using key	
<b>61</b>	Check operation of child safety locks if fitted	
<b>62</b>	Check alarm and immobiliser actually work when vehicle is 'broken into'	
<b>63</b>	Check security of fuel filler cap and neck	
<b>64</b>	Turn off engine and check that all seats are securely fixed in place and any locking mechanisms work, especially split rear seats or fold forward front seats	
<b>65</b>	Check all seatbelts and anchorages for security, damage, correct inertia action and that they lock securely when fastened	
<b>66</b>	Check child seats and belts for security and damage, double check that seats are assembled and secured correctly using manufacturer's instructions	

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Item	Task Description	✓
67	Check clutch, brake and accelerator pedals for worn rubbers and pivots	
68	Check that dashboard warning lights are in normal state, especially oil pressure	

## TEST DRIVE

Item	Task Description	✓
69	Double check all wheel nuts are tight and take the vehicle on a test drive	
70	Keep checking that all dashboard warning lamps remain normal and all instruments (speedometer, odometer, temperature, fuel etc) are working correctly and displaying 'normal' readings	
71	Check that all heating and air-conditioning systems work correctly (run air-conditioning system for at least 10 minutes)	
72	Park vehicle on a steep hill and check that handbrake holds without excessive lever movement	
73	Find an isolated road completely clear of any other road users or pedestrians and check that that vehicle will 'emergency' stop in a straight line without wheel locking (check road for skid marks)	
74	Find a motorway or dual carriageway and accelerate steadily to maximum permissible speed checking for vibrations and steering wheel wobble throughout speed range	
75	Listen for untoward rumbles especially increasing when steering left or right and loud clonks or feeling of excessive backlash when taking up drive	
76	Find an empty car park clear of any other vehicles and pedestrians and check for any steering kickback or squealing on both left and right full steering lock	
77	Switch on all electrical accessories including heated screens and listen for alternator belt squealing as engine is revved	
78	On return home double check stationary vehicle for oil or fluid leaks	

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## FINISHING TASKS

Item	Task Description	✓
79	Wash vehicle thoroughly, especially windows and apply wax to bodywork	
80	Vacuum dirt and debris out of interior and clean thoroughly, especially instrument bezels and windows	
81	Lightly lubricate all locks, hinges and catches including bonnet catch	

## ADDITIONAL NOTES

Date Service Completed: \_\_\_\_\_

Signed: \_\_\_\_\_