

Page last updated 7 Aug 96. Added part numbers for 404.1 w/ 180.928 engine.

Warning: This document has not been independently checked for errors.

Maintenance schedule for a 404.1, and service parts for a 404.1 with the M180.928 engine.

Maintenance Schedule: Unimog-S (404.1)

The schedule is based on service intervals of 4,000 kms (2,500 miles). In addition, checks on engine oil level, coolant level (a corrosion inhibitor or anti-freeze should be used all year round), tire pressures (normal: 35 psi - front and rear), tightness of wheel nuts (30 miles after wheel change) and air brake equipment (if fitted) should be carried out more frequently. If the vehicle is only used occasionally, oil changes in engine, transmission and axles should be carried out annually.

1. Drain and replace engine oil every 2,500 miles. Replace oil filter and seals every 2nd oil change. Before starting engine after an oil change, turn engine without ignition until oil pressure is indicated on gauge. Then start engine. This procedure should also always be followed if the vehicle has been left to stand for more than 3 weeks.

If the vehicle is used predominantly off-road, oil change intervals should be based on the amount of fuel used since the last oil change (265 US gallons).

2. Check and adjust engine valve clearances between camshaft and rocker arms with feeler gauges every 5,000 miles:

Engine cold:	Inlet:	0,10mm 0.004"	Exhaust:	0,20mm 0.008"
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Engine warm:	Inlet:	0,15mm 0.006"	Exhaust:	0,25mm 0.010"
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If the clearance is not correct, it must be adjusted by turning the ball pin head adjuster either in or out as required. This procedure is facilitated by use of adjustment tool (111 589 00 01 00). Should the adjuster be loose on its base (<14.5 ft.lb) - either the ball pin head or its base or both should be replaced to prevent rotation and changes to the valve clearances whilst the engine is running.

If the adjuster screw bottoms out in the base before the minimum clearance is achieved, the plate in the top of the valve spring keeper can be replaced with a thinner one.

3. Clean out fuel filter every 2,500 miles.
4. Clean mesh filter in fuel pump every 5,000 miles.
5. Drain and replace oil in air compressor (if fitted) every 2,500 miles.
6. Check and tighten all manifold and exhaust fittings every 5,000 miles.

7. Replace oil and clean air filter every 2,500 miles. Weekly if operating in very dusty conditions.
8. Remove and check spark plugs every 2,500 miles. If to be reused, clean and reset gap to 0,50mm (0.020"). Replace plugs every 10,000 miles.
9. Check mobility of butterfly valve in exhaust manifold every 2,500 miles. (DO NOT LUBRICATE!). If necessary replace bimetallic spring.
10. Check and adjust tightness of all V-belts every 2,500 miles.
11. Check oil levels (EP90) in water pump and fan hub every 5,000 miles. Top-up if necessary. If water is present in the water pump oil, the seal in the housing will need to be replaced. Do not block the drain hole of a leaking pump as this will cause water to accumulate and damage the bearings in the pump.
12. Check distributor components and breaker gap every 5,000 miles. Inspect distributor cap for cracks and wear. Check points are not burnt and that gap is 0,40mm (0.016"). Engine can be rotated by jacking up one rear wheel with 6th gear engaged and turning wheel forwards to allow adjustment of gap. The setting should be checked using electronic equipment to achieve a dwell angle of 36-38. If the vehicle is fitted with braided ignition wires, it will be necessary to improvise connections to allow hooking up to electronic test equipment.

Moisten felt in distributor shaft with a few drops of oil and lightly grease rubbing block and cam. Ensure no oil or grease on points.

Pack connections of ignition leads to distributor with silicone grease.

13. Check tightness of screws on fuel lift pump every 10,000 miles.
14. Lubricate choke cable every 10,000 miles with a few drops of oil.
15. Remove and clean out carburetor every 10,000 miles. Before loosening from manifold, remove the fragile mixture control screws from the base. A gasket set will be required to rebuild the carburetor.
16. Check brake fluid level and brake drum adjustments (cold) every 2,500 miles. Check hoses and brake lines for damage and corrosion. Avoid contaminating hoses with solvents. Check brake pedal has 10mm (0.4") free-play. Adjust handbrake settings (through hole in rear brake plate and not the cable) only after brake shoes have been correctly adjusted.
17. Check tightness of all chassis frame nuts and bolts including engine/gearbox mountings, suspension components and axles every 2,500 miles.

18. Check clutch pedal free-play with engine running every 2,500 miles. The clutch pedal must have at least 35mm (1.4") travel before the release bearing makes contact with the clutch pressure plate. To adjust, stop engine and adjust the length of the threaded push-rod as required. Recheck free-play with engine running until required travel is achieved.
19. Check operation of differential lock linkage every 2,500 miles.
20. Check gearbox oil level every 2,500 miles. Drain and replace oil every 10,000 miles (EP80/90). Note that there are 2 drain plugs.
21. Check axle and hub reduction oil levels in both axles every 2,500 miles. Drain and replace oil every 10,000 miles (EP80/90). Note that there are 3 drain plugs per axle.
22. Apply grease gun every 2,500 miles to:
 - Transmission output ball housings (2)
 - Swivel (king) pins on front axle (4)
 - Universal joints of front axle drive shafts (4)
 - Steering ball joints (6)
 - Handbrake and control lever shafts
 - Clutch release shaft on bell housing (1)
 - PTO shaft joints (if fitted)
23. Rotate wheel and tire assemblies every 2,500 miles. Check toe-in: +3-1 mm. Try for 0 with vehicle unladen.
24. Lightly spray underside of vehicle with oil to protect against corrosion every 2,500 miles, shielding all rubber components.
25. Check oil level in steering box every 5,000 miles.
26. Check oil level in PTO relay housing (if fitted) every 5,000 miles.
27. Check air brake equipment (if fitted) for correct function and leaks every 5,000 miles.
28. Check drop arm for tightness on steering box every 5,000 miles.
29. Check suspension and steering dampers for leaks and damage every 5,000 miles.
30. Remove and clean brake drums (use 2 M10 bolts to pull off drums after shoes have been slackened), check and clean brake linings (do not use solvents) every 5,000 miles. Replace linings if worn down to the rivets.
31. Check battery acid level and density every 2,500 miles. Clean and grease terminals.
32. Check all electrical equipment for correct operation and headlamp adjustment every 5,000 miles.

33. Check all electrical cables and connections for damage, tightness and corrosion every 10,000 miles. Check alternator mountings.
34. Lubricate all hinges on body and towing hitch every 5,000 miles.
35. Check all cab and body mountings for tightness every 10,000 miles.

Service Parts

This is a list of service parts for a Unimog 404.1 with an M180.928 engine. These part numbers may change as newer parts supersede old ones, so check with the latest microfiche.

If you find that a part number has been changed, please [send me mail](#) so I can update this list.

Head gasket set	180 586 44 90	
Head gasket	180 016 35 20	
Piston ring set STD	002 586 22 03	
Carburetor O/H kit	180 586 01 90	
Fuel lift pump kit	180 586 02 90	
DC Generator brush	000 154 26 14	600W/24V
Starter drive gear	000 151 16 13	

Ignition components for short-distance radio shielded, splashproof ignition system:

Distributor service kit	180 586 03 90	
Cap	000 158 25 02	Bosch 1.235.522.267
Rotor	000 158 20 31	Bosch 1.234.332.088
Points	000 158 08 90	Bosch 1.237.013.010
Spark plug	000 159 84 03	

Oil filter	000 180 00 09	
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Fan belt 9.5 x 875mm	007753 009505	
Fan belt 9.5 x 925mm	007753 009507	
Fan belt 9.5 x 900mm	007753 009506	Hot climate (2x)

Hub oil seal	404 337 02 60	
Wheel stud	404 401 00 71	
Wheel nut	074361 018105	
Brake lining axle set	404 421 05 10	oversize 6.4mm
Brake drum screw	404 990 02 30	
Suspension damper STD	404 323 01 00	(4x)
Suspension damper HD	002 323 69 00	(4x)
HD front spring	404 321 00 04	SA 35254/1
HD rear spring	404 324 01 04	SA 35254/1

Brake master cyl. kit	000 586 01 88	
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Clutch pressure plate	000 250 20 04	
Clutch paddle plate	003 250 38 03	Sintermetall
Clutch release bearing	000 250 32 15	

Gearbox gasket set	404 586 00 85	
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Fuel pre-filter	000 477 91 01	
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Sealing ringng exhaust Silencer	153 492 01 08 404 491 00 01	Pipe to manifold or 404 491 01 01
Rubber mounting G/B	404 241 00 13	
Water pump	127 200 04 01	
Thermostat	001 203 08 75	
Coolant vent pipe	180 200 04 58	
Radiator mtg	404 504 00 12	
Radiator mtg	404 504 02 12	
Wiper blade 270mm	000 824 21 26	
Speedocable	075532 000000	
Windscreen	404 671 04 10	
Unimog hydraulic jack	000 583 88 15	
Gaiter H/B cable	000 427 02 96	
Boot steering joint	000 330 02 85	
Steering joint	000 338 18 10	
Bush front engine mtg	180 223 04 12	
Fuel gauge	001 542 18 03	
Fuel level transmitter	001 544 29 32	
Electric fuel pump 24V	000 470 07 94	

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