CARAVAN & OFF-ROAD SERVICE CENTRE

Quality Inspections • Repairs • Waterproofing • Overlanding Conversions

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MASTER INSPECTION REPORT

Full Comprehensive Safety & Systems Audit

Job Card No: _____
Date In: 20___ / ___ / ___
Insp. Technician: _____

1. CUSTOMER & VEHICLE IDENTIFICATION DETAILS

Customer Name:	_____	**Contact / Cell:**	_____
Email Address:	_____	**Residential Address:**	_____
Caravan Make & Model:	_____	**Year of Manufacture:**	_____
VIN / Chassis No:	_____	**Registration No:**	_____
Tare Mass (kg):	_____	**GVM / GCM (kg):**	_____

1. CHASSIS, A-FRAME & RUNNING GEAR

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / MEASUREMENTS
Coupler Head & Overrun Mechanism Check wear/play in hitch cup, grease nipples, bellows rubber, overrun shock absorber resistance.	☐ Pass ☐ Fail ☐ N/A	
Handbrake & Cable Linkages Test handbrake ratchet/pawl, emergency breakaway safety cable/chain, equalizer plate, and rod tension.	☐ Pass ☐ Fail ☐ N/A	
Jockey Wheel Assembly Check spindle thread lubrication, inner tube straightness, clamp mechanism, wheel rim/tyre, and bearing.	☐ Pass ☐ Fail ☐ N/A	
Chassis Frame & A-Frame Welds Inspect main rails, crossmembers, drawbar gussets for stress cracks, twisting, corrosion, or underseal peeling.	☐ Pass ☐ Fail ☐ N/A	
Corner Steadies (Jacks) Inspect lead screws, lubricate winding threads, check chassis mounting bolts, and footpad condition.	☐ Pass ☐ Fail ☐ N/A	
Axle Beam, Suspension & Shocks Inspect axle alignment, leaf springs/torsion rubber elements, U-bolts, spring hangers, shackles, and shock absorbers.	☐ Pass ☐ Fail ☐ N/A	
Wheel Bearings & Hub Seals Strip hubs, clean/inspect inner & outer bearings/races for pitting/blueing. Repack high-temp grease, fit new seals.	☐ Pass ☐ Fail ☐ N/A	
Brake Drums & Shoe Assemblies Remove drums, inspect brake linings for wear/glazing, clean backing plates, adjust shoe clearance, test linkages.	☐ Pass ☐ Fail ☐ N/A	
Wheels, Tyres & Torque Check tread depth, sidewall cracks/age DOT code, set pressures (incl spare), inspect rims, torque wheel nuts to specs.	☐ Pass ☐ Fail ☐ N/A	Tread: _____mm | PSI: _____ | Torque: _____Nm

2. EXTERIOR, SHELL & WATERPROOFING (DAMP CHECK)

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / MOISTURE LEVEL
Body Exterior & Sealant Mouldings Inspect corner aluminium extrusions, awning rails, door/hatch frames for sealant degradation, cracking, or lifting.	☐ Pass ☐ Fail ☐ N/A	
Pop-Up Roof Mechanism & Canvas Skirt Check scissor arms/hinges, gas strut pressure, vinyl/canvas skirt condition, ventilation mesh, and perimeter seals.	☐ Pass ☐ Fail ☐ N/A	
Windows, Skylights & Seals Check windows/hatches for cracks, latch operation, rubber seal flexibility, and roof vent waterproofing.	☐ Pass ☐ Fail ☐ N/A	

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / MOISTURE LEVEL
Main Entry Door & External Lockers Inspect door hinges, dual-stage lock mechanism, weather seals, step mechanism, and side locker latches.	☐ Pass ☐ Fail ☐ N/A	
Awning Assembly & Mountings Inspect roll-out/cassette awning deployment, spring tension, supporting legs, and wall anchor brackets.	☐ Pass ☐ Fail ☐ N/A	

MOISTURE & DAMP INSPECTION MATRIX (Probes / Non-Destructive Meter Audit)

Location Zone	Front Wall & Nosecone	Left Side Wall	Right Side Wall	Rear Wall	Roof Corners & Hatches	Floor Perimeter & Edge
Reading (% Moisture)	____ %	____ %	____ %	____ %	____ %	____ %
Status (<15% OK, >20% Severe)	☐ OK ☐ Alert	☐ OK ☐ Alert	☐ OK ☐ Alert	☐ OK ☐ Alert	☐ OK ☐ Alert	☐ OK ☐ Alert

3. ELECTRICAL SYSTEMS (12V DC & 220V AC)

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / READINGS
Towing Harness Plug & Road Signal Lights Inspect 7-pin/13-pin or Brad Harrison plug, wiring under drawbar. Test brake, tail, indicator, marker, and plate lights.	☐ Pass ☐ Fail ☐ N/A	
220V AC Mains Circuit & Earth Leakage Test mains inlet socket, Earth Leakage / RCD breaker trip test, wall outlets, and chassis earthing bond continuity.	☐ Pass ☐ Fail ☐ N/A	Earth Trip: ☐ Pass ☐ Fail
12V Battery Health & Charging System Perform load test on deep-cycle/lithium battery, check terminal cleanliness, master switch, fuses, and PSU/charger output.	☐ Pass ☐ Fail ☐ N/A	Rest Volts: _____V | Load: _____V
Solar Panel & Charge Regulator Clean panel glass, check open circuit voltage (Voc), test MPPT/PWM regulator output, and inspect panel roof mountings.	☐ Pass ☐ Fail ☐ N/A	Solar Output: _____V / _____A
Interior & Exterior Lighting Fittings Test all internal LED roof lights, reading lights, ambient strips, and exterior patio/handle lights.	☐ Pass ☐ Fail ☐ N/A	

4. GAS & PLUMBING SYSTEMS

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / TEST RESULTS
Gas System Standing Pressure Leak Test Conduct 5-minute standing pressure-drop test on LPG supply lines from regulator to internal appliance valves.	☐ Pass ☐ Fail ☐ N/A	Leak Test: ☐ Pass ☐ Fail
Gas Bottle Locker & High-Pressure Hose Check cylinder mounting security, inspect pigtail hose date/cracks, regulator operation, and locker floor vent clearance.	☐ Pass ☐ Fail ☐ N/A	Hose Expiry Date: ____/____
Gas Appliances & Flame Failure Safeguards Test stove burners, flame failure cut-off devices, fridge (12V/220V/Gas switching), and gas geyser ignition.	☐ Pass ☐ Fail ☐ N/A	
Freshwater Tank, Pump & Plumbing Lines Inspect tank straps, flush/sanitise water lines, test 12V demand pump, auto pressure switch cut-off, check for leaks.	☐ Pass ☐ Fail ☐ N/A	
Cassette Toilet & Bathroom Assembly Test toilet flush pump, blade valve seal, cassette holding tank seal integrity, shower mixer, and tray drainage.	☐ Pass ☐ Fail ☐ N/A	

5. INTERIOR, CABINETRY & SAFETY EQUIPMENT

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS
Cabinetry, Overhead Lockers & Hardware Inspect positive locker latches, drawer runners, cupboard hinges, table folding mechanism, bed gas struts.	☐ Pass ☐ Fail ☐ N/A	
Floor Structure & Delamination Inspection Inspect timber ply floor for soft spots, water damage, or ply separation from underside and living area.	☐ Pass ☐ Fail ☐ N/A	

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS
Safety Equipment Audit Test smoke alarm, Carbon Monoxide (CO) detector, check fire extinguisher pressure gauge and expiry date.	☐ Pass ☐ Fail ☐ N/A	Ext. Expiry: ____/____

6. OFF-ROAD & BUSH CARAVAN SPECIALIZED INSPECTION

INSPECTION POINT & STANDARD PROCEDURE	STATUS	OBSERVATIONS / OFF-ROAD SPECS
Trailing Arms & Heavy-Duty Suspension Bushings Inspect independent trailing arms for stress fatigue or cracks. Check polyurethane/ rubber suspension bushings.	☐ Pass ☐ Fail ☐ N/A	
Heavy-Duty Shock Absorbers & Air Bags Check dual shocks for oil leaks, overheating discoloration, dust boots. Test air suspension bags/compressor if fitted.	☐ Pass ☐ Fail ☐ N/A	
Underbody Armor, Skid Plates & Stone Guards Inspect chassis crossmembers, underbody protection plates, and front stone guard netting for damage.	☐ Pass ☐ Fail ☐ N/A	
Off-Road Articulating Hitch (360° Coupler) Inspect multi-axis coupler (Maxcon/Cruisemaster/etc.) pin wear, internal bushing greasing, secondary lock function.	☐ Pass ☐ Fail ☐ N/A	
Dual-Battery Bank, DC-DC Charger & Anderson Plugs Test individual batteries, DC-DC alternator charging, grey/red Anderson plug contact points for thermal damage.	☐ Pass ☐ Fail ☐ N/A	DC-DC Charge Rate: _____A
Pure Sine Wave Inverter & Transfer System Test inverter under load, inspect heavy-gauge DC cabling, cooling fans, and automatic 220V transfer switch.	☐ Pass ☐ Fail ☐ N/A	Inverter Load Test: _____W
Positive Pressure Fan / Dust Suppression Inspect dust blower fan motor, replace air filter, check housing seals, test cabin pressurization.	☐ Pass ☐ Fail ☐ N/A	Filter: ☐ Cleaned ☐ Replaced
Double-Lip Dust Seals & Compression Latches Inspect rubber door/hatch dust seals for pinching, test tension alignment on over-center compression latches.	☐ Pass ☐ Fail ☐ N/A	
Slide-Out Kitchen & Heavy-Duty Drawer Runners Clean grit from ball-bearing drawer slides, lubricate tracks, test lock-in/lock-out retention catches.	☐ Pass ☐ Fail ☐ N/A	

7. FINAL QUALITY CONTROL & SIGN-OFF CHECKLIST

FINAL QUALITY CONTROL VERIFICATION ITEM	STATUS	RECORDED VALUE / SIGN-OFF
Wheel Nuts Final Torque Verification (Torqued using calibrated wrench)	☐ PASSED	Torque Value: _____ Nm
Tyre Pressure Calibration (All road wheels + spare inflation set)	☐ PASSED	Pressure Value: _____ Bar / PSI
Coupler Greasing & Breakaway Cable Inspection	☐ PASSED	Tech Initial: _____
Dynamic Road Test (Evaluate overrun braking, wheel tracking & stability)	☐ PASSED	Road Test Dist: _____ km

WORKSHOP SUMMARY, DEFECT FINDINGS & RECOMMENDED REPAIRS

Safety Critical Items: _____

General Maintenance & Advisories: _____

Recommended Additional Repairs: _____

INSPECTION DISCLAIMER & TERMS: This inspection report reflects the condition of the caravan at the time of examination based on visual assessment, functional testing, and specialized measurement tools. While every reasonable effort is made to detect underlying faults, this inspection does not constitute an absolute guarantee against future mechanical failure, hidden structural defect, or unobserved moisture ingress. All road safety checks are conducted in compliance with South African National Road Traffic Act standards. Any safety-critical defects identified above must be rectified prior to towing.

INSPECTING TECHNICIAN	WORKSHOP MANAGER / QC	CUSTOMER ACKNOWLEDGEMENT
Name: _____	Name: _____	Name: _____
_____ Signature & Date	_____ Signature & Date	_____ Signature & Date