

ENGINEERING BULLETIN

Ref Document No.	EB24002	Issue No.	1
Subject	Driftrunner Service Sheets Update		
Release Date	3 rd of December 2024		

Purpose – Advise DRIFTRUNNER owners and operators of updated mechanical service sheets for maintenance of the DRIFTRUNNER.

Applicability – All in service DRIFTRUNNER'S with MDR090376DES & MDR083991TBS-2

Information

PPKME are continually looking to improve and tailor our OEM service sheets to include necessary tasks and inspections for our equipment.

The following Documents have been updated to new Documents:

OLD DOCUMENT NO.	NEW DOCUMENT NO.	DESCRIPTION
OPER-15018-1	DW-FRM-0104	Daily Inspection / Code A
OPER-15018-2	DW-FRM-0105	50 Hour Service / Code B
OPER-15018-3	DW-FRM-0106	250 Hour Service / Code C
OPER-15018-4	DW-FRM-0107	500 Hour Service / Code C1
OPER-15018-5	DW-FRM-0108	1000 Hour Service / Code C2
OPER-15018-6	DW-FRM-0109	(Shiftly) Pre-Start Inspection

Information added to service sheets in general:

- Maintenance safety information section added on the first sheets
- Additional checks for the door interlock valves and alignment checks, etc.

Recommendations

PPK recommend reviewing maintenance procedures against those recommended in the attached service sheets.

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DAILY INSPECTION – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

PLANT NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	OPERATOR / TECHN.

THIS DOCUMENT FORMS PART OF A REGIME TO ENSURE THE PIECE OF PLANT INVOLVED IS MAINTAINED AS PER THE REQUIREMENTS OF AS3584.3 2012. THE MAINTENANCE REGIME COMPRISES OF PRESTART, DAILY, 50HRS, 250HRS, 500HRS, 1000HRS AND FULL CODE D MAINTENANCE PLANS. THIS DOCUMENT IS TO BE USED SPECIFICALLY IN CONJUNCTION WITH THE PRESTART INSPECTION RECORDS AND THE RELEVANT SERVICE MANUAL.

THE SEQUENCE NUMBERS INDICATE THE RECOMMENDED PROCESS FLOW

WARNING: ENSURE THE DES HAS BEEN TAGGED WITH ISOLATION AND DANGER TAGS IN ACCORDANCE WITH OEM RECOMMENDATIONS AND MINE ISOLATION AND SAFETY PROCEDURES TO PREVENT THE VEHICLE FROM BEING STARTED OR ANY UNPLANNED MOVEMENT DURING THE DAILY INSPECTION. IF ANY DEFECTS OR HAZARDS ARE FOUND DURING THE DAILY INSPECTION THEY MUST BE REPORTED TO A SUPERVISOR AS SOON AS POSSIBLE, AS PER MANAGER'S RULES.

SEQUENCE	SERVICE ITEM DESCRIPTION	OK	ADJUST	COMMENTS (RECORD ADDITIONAL NOTES ON THE REVERSE SIDE OF THIS DOCUMENT)
	GENERAL MACHINE			
1	Visually inspect cabins, door, bonnets, windscreen and tanks – report damage / defects			
2	Check rims, tyres and wheel nut condition (Tighten to 430Nm)			
3	Check axles for leaks			
4	Check both front axle and rear axle hub reservoirs oil level (if fitted)			
5	Check drive shafts for damage			
6	Check fire suppression system charge and for visual damage (if fitted)			
7	Check fire extinguisher charge and security			
8	Check seats and seatbelt condition and operation			
26	Check operator station floor is clear of foreign materials			
27	Check operation of all gauges and controls etc.			
31	Check lights for correct operation and visual damage			
	COOLING SYSTEM			
9	Check and clean radiator core			
10	Check security of radiator and shroud			
11	Check header tank and cap condition			
12	Check coolant level and add inhibitor if required			
	ENGINE			
13	Check drive belt and tension			
14	Check fanbelt guard is secure			
15	Check the intake of the air cleaner pre-cleaner is clear			
16	Check intake hose condition and clamps (visual)			
11	Check engine oil level and top up as required (15W/40 grade engine oil)			
32	Check for oil leaks			
	AIR SYSTEM			
19	Drain condensation from air receivers			
20	Inspect air receivers for external damage			

SEQUENCE	SERVICE ITEM DESCRIPTION	OK	ADJUST	COMMENTS (RECORD ADDITIONAL NOTES ON THE REVERSE SIDE OF THIS DOCUMENT)
	FUEL SYSTEM			
21	Check operation of the Main Isolation Tap			
22	Check fuel Level and top up			
23	Check the filler assembly			
24	Drain any water from the primary fuel filter			
35	Check for leaks around injectors, pump, lines, hoses and fittings			
	TRANSMISSION			
25	Check transmission oil level (C4-30 grade transmission oil)			
30	Confirm drive isolation by brake drive through test			
31	Check transmission for leaks			
	HYDRAULICS			
18	Check oil level in main tank (68 grade hydraulic oil)			
32	Check for leaks or damage			
33	Check hydraulic cylinders condition – steer cylinder (HIAB if fitted)			
34	Check for leaks and the operation of control valves			
	SCRUBBER AND MAKE UP TANK SYSTEM			
36	Check all joints and gaskets for leaks and bolt tension (visual)			
37	Check all hoses for leaks and external condition			
	SHUTDOWN SYSTEM			
38	Check hoses and fittings for leaks			
39	Test coolant loss shutdown			
40	Test low engine oil shutdown			
41	Test scrubber tank low water shutdown (test floats individually)			
42	Drain the scrubber tank and flush			
	BRAKE TEST			
28	Check operation of door/park brake interlock			
29	Park/Emergency brake activates on engine shut-off			

INSPECTED BY	SIGNATURE	DATE	SUPERVISOR	SIGNATURE	DATE



MDR090376DES & MDR083991TBS-2

KIT PART NUMBER 9-04291201						
PLANT NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	SERVICE COMPLETED BY	JOB NUMBER	SITE

THIS DOCUMENT FORMS PART OF A REGIME TO ENSURE THE PIECE OF PLANT INVOLVED IS MAINTAINED AS PER THE REQUIREMENTS OF AS3584.3 2012. THE MAINTENANCE REGIME COMPRISES OF PRESTART, DAILY, **50HRS**, 250HRS, 500HRS, 1000HRS AND FULL CODE D MAINTENANCE PLANS.

Maintenance safety information

- Ensure that all safety information is read and understood before maintenance or repair task is performed
- PPKME recommends this service work to be completed by a RIIDES trained competent person and that the work is managed and approved by a RIIDES trained responsible person.

1. **Ensure a control risk management (take 5) is completed**
2. **Ensure machine is cleaned before servicing!**
3. **PPE:** Appropriate PPE must be worn including hi visibility clothing, safety glasses, protective footwear, hand protection (as required) hearing protection (as required), hard hat (as required), dust masks (as required).
4. **Isolation locks:** danger tags and out of service tags must be used in accordance with site requirements and machine specific isolation procedure.
5. **All lifting gear:** must have current inspection tag, be suitably rated for item being lifted, and be in good condition.
6. **Lifts requiring mechanical aids:** must only be conducted by trained and competent personnel.
7. **When lifting objects with mechanical aid:** keep clear of all potential crush or pinch points.
8. **Keep clear of suspended loads:** Use safety line to control load when required.
9. **Manual handling:** Do not lift or move objects by hand that are too heavy to do so. When manual handling objects use correct manual handling techniques.
10. **Pinch points:** Keep all body parts clear of pinch points. Ensure hands and feet are clear when lifting and lowering objects
11. **Machine support stands:** Ensure machine support stands are of suitable capacity and in serviceable condition.
12. **Slips, trips, falls:** Ensure work area is clear of objects that could cause a slip, trip, fall hazard.
13. **Warning / prohibition / information & service labels on machine must be observed**



14. **Climbing on top of machine:** Always maintain 3-point contact when climbing on top of machine.
15. **Hot surfaces:** Be aware of hot surfaces when machine has been running.
16. **Hot fluids:** Be aware hot pressurised fluids. This includes engine coolant, hydraulic oil, transmission oil, diesel fuel.
17. **Chemical injuries:** ensure that material safety data sheets are available and understood for all fluids used on machine.
18. **Stored energy:** Ensure all stored energy has been depleted and raised cylinders supported before conducting repairs or maintenance.
19. **Falling objects:** Do not work under unsupported roof or in area where there is risk of falling objects.
20. **Live testing:** live testing must only be done after a task specific risk assessment (take 5 or similar) and in accordance with site requirements. The person operating the machine during live testing must be competent to operate the machine.
21. **Hydraulic injection:** ensure that all stored hydraulic energy has been depleted before disconnecting hydraulic hose or fitting. Do not use your hand to find a hydraulic leak. Use a piece of cardboard or similar to check for leaks. In the event of a suspected hydraulic injection refer to site specific procedure for fluid injection
22. **Compressed air:** ensure air receiver has been isolated before conducting repairs on air system. If working on air receiver the air receiver must be depressurised before commencing work. Note: the accumulator on the transmission declutches valve will maintain a small volume of compressed air. Follow instructions on how to remove air accumulator pressure (behind gauge panel) to discharge.
23. **Current information:** ensure current information is available prior to commencing maintenance or repair task.
24. **Guards:** ensure all guards and covers removed during maintenance or repairs are replaced prior to starting machine.
25. **Ventilation:** ensure adequate ventilation when testing machine
26. **Electric welding:** Do not conduct on machine unless the alternator disconnected by competent and authorised person.
27. **Stay clear:** of rotating parts
28. **Always use tools that are in good serviceable condition**
29. **Take care:** to not damage wiring, hydraulic or air lines during repairs and maintenance.
30. **Ensure:** all electrical cables are placed in positions away from any possible mechanical damage and away from fuel lines.
31. **Gas struts:** (used on covers) contain compressed gas even when fully extended. Before removing, check for damage. Damage may cause an uncontrolled release of energy or exploding parts when removing strut.

50 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
SAFETY SYSTEM			
Test neutral start valve function			
Test horn			
Test horn (Rear cab)			
Test Park brake dump valves (individually via test buttons)			
Test rear cab park brake e-stop			
Test low engine oil pressure shut down valve			
Test coolant loss shutdown valve			
Test exhaust conditioner low water shutdown (test floats individually)			
Check/change thermal sensors (Overtemp sentinels) (Complete paperwork)			May have to refer to site requirements
Test emergency shutdown (Strangler Valve)			
Clean & Lubricate External Moving Parts with Penetrant (CRC/WD40)			
Soapy water test hoses and fittings for leaks			
Inspect safety circuit pressure (Adjust if required)			30psi
FLUIDS			
Change front axle hub oils – inspect and clean magnetic drain plug			LSX90
Check front axle diff centre oil – top up as required			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 211 AXLE ONLY if oil is changed			5-13100601
Change rear axle hub oils – inspect and clean magnetic drain plug			LSX90
Check rear axle diff centre oil – top up as required			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 111 AXLE ONLY if oil is changed			5-13100601
Fill oil lubricator (if fitted)			
UNDERBODY INSPECTION			
Check engine for oil leaks			
Check transmission for oil leaks			
Check security of sump guard			
Check engine mounts for condition and security			
Check transmission mounts for condition and security			
Check front driveshaft assembly for visual damage			
Check front driveshaft flange bolts			
Check front driveshaft slip joint movement			
Inspect spider assembly front			
Check rear driveshaft assembly for visual damage			
Check rear driveshaft flange bolts			
Check rear driveshaft slip joint movement			
Inspect spider assembly rear			
Check suspension components for condition and security			
Check A-Frame Mounting Cross Member bolts for tension			
Check A frame for condition and security			
Check all hoses and pipes for condition and security			
Inspect air receivers for external damage and corrosion			
Grease drive shafts 3 points each			
Grease cardinal shaft joints (if applicable)			
AXLES			
Check axles for oil leaks and damaged hoses			

50 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
Check steering cylinder for leaks			
Check cardinal joints for movement			
Check steering tie rods for movement			
Check front wheel bearings for excessive movement			
Check rear wheel bearings for excessive movement			
Adjust brakes (278 & 171 axles only)			
Inspect for brake wear			
ENGINE & TRANSMISSION			
Check hydraulic oil level – top up as required			ISO68
Check transmission oil level – top up as required			
Check condition of transmission control valves			
Adjust transmission linkages (if required)			
Check transmission breather			
Clean pre-cleaner (intake air cleaner)			
Replace air cleaner element			9-00110107
Check air filter indicator			
Check intake hose condition and clamps			
Check security of starter motor			
Check orbital steering valve for leaks and operation			
Check fan belt tension / condition / FRAS (Replace if required)			9-04100109
Check fan hub and bearings for damage / cracks			
Check fan blades for damage (Replace fan if required)			
Check all radiator hoses and connections (Replace if required)			
Check security of radiator			
Check fuel shut off valve for leaks and operation			
Check fuel shut off cylinder operation			
Remove the compressor discharge hose and intake filter – check for evidence of oil &/ or carbon build up If build up is found compressor must be repaired / replaced & discharge hose must be replaced			(PTFE hose)
Clean engine breather			
Change compressor filter (Filter Suction Element)			9-04120110
Check engine oil level – top up as required			
Check radiator header tank and cap condition			
Check coolant level – top up as required			
Check all hoses and pipes for condition and security			
Grease bonnet hinges			
Grease gear select and linkage points			
SYSTEMS SERVICE			
Check scrubber inspection plate gaskets for leaks			
Flush and clean scrubber internals			
Check shutdown valves and float (Replace viton seals if required)			
Check all hoses for leaks and blockages			
Check scrubber make-up valve and float operation			
Clean scrubber supply line strainer			
Check / top up make-up tank (With potable water only)			
Add conditioner to make-up tank (if applicable)			Refer to site specific specifications
Drain air receiver condensation			

50 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
Check brake air receiver age. Receiver must be replaced when approaching 2 years in service life. This is determined from the vehicle in-service date.			
PARTICULATE FILTER SYSTEM			
Check hosing (Replace if required)			
Check condition of outlet pipe couplings			
Check mounting and security valves			
Check for loose fasteners			
Check for exhaust leaks			
Check for air leaks on control lines			
Check for damage to housings/components			
Replace exhaust particulate filters			Note! Replace filters as per site specific procedure – only approved filter elements to be fitted.
COMMISSIONING			
Check compressor governor unloader pressure			125psi
Check safety valve manual operation			
Test 2wd / 4wd actuator (Disengages when 3 rd gear is selected)			
Check reverse alarm filter and operation			
Check Park brake release pressure			278 / 171 – 350psi 211 / 111 – 400psi
Check for leaks around injectors and fuel system			
Check fuel lines and fittings for leaks			
Check fuel injector pump for damage, loose parts & security			
Check pneumatic system for leaks			
Check general body condition			
Check frame visually for cracks and corrosion			
Check operation of door and hinge condition			Lubricate with penetrant
Check alignment of door interlock valve plunger/roller.			Ensure plunger is central in front cab cutout.
Check seat belts – condition and operation			
Check seat condition			
Check stretcher brackets and mounts			
Check rims / tyres & wheel nut tension			430Nm (318Ft/Lbs)
Check tyres for damage and record condition and % of thread remaining			DSF: ____ ODSF: ____ DSR: ____ ODSR: ____
Check tyre pressure if filled with air			Note! Always refer to tyre manufacturers for specific tyres pressures. Always follow site requirements for tyre inspections.
Check fire extinguisher serviceability, security and in date			
Check fire suppression system for damage and condition of bottle, lines and nozzles			
Check fire suppression system is tagged and in date			
Check safety triangles			
Check wheel chocks			

SERVICE ITEM		OK	ADJ	SPECIFICATION/COMMENTS			
RAW GAS TEST (IF DUE)							
Engine RPM				CO ppm	NOx ppm	CO ₂ % NSW	HCHO ppm QLD
Low idle no load							
High idle							
High idle - stall 3rd gear							
				1100 Max	750NSW 900QLD Max	>6	50 Max
FINAL COMMISIONING							
Test coolant loss shutdown	Repeat Test 3 times						
Test low engine oil pressure shutdown	Repeat Test 3 times						
Check thermal sensor (sentinel) shutdown (Crack supply line)	Repeat Test 3 times						
Test exhaust conditioner low water shutdown (test floats individually)	Repeat Test 3 times						
Test emergency shutdown (Strangler Valve)							
Carry out brake drive through test – FWD & 2 nd gear with service and park brake applied							
Check operation of park brake							
Check operation of door interlocks							

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Service completed by		Signature		Date	
Supervisor acceptance		Signature		Date	

Comments:

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PLANT NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	SERVICE COMPLETED BY	JOB NUMBER	SITE

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Maintenance safety information

- Ensure that all safety information is read and understood before maintenance or repair task is performed
- PPKME recommends this service work to be completed by a RIIDES trained competent person and that the work is managed and approved by a RIIDES trained responsible person.

1. **Ensure a control risk management (take 5) is completed**
2. **Ensure machine is cleaned before servicing!**
3. **PPE:** Appropriate PPE must be worn including hi visibility clothing, safety glasses, protective footwear, hand protection (as required) hearing protection (as required), hard hat (as required), dust masks (as required).
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8. **Keep clear of suspended loads:** Use safety line to control load when required.
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11. **Machine support stands:** Ensure machine support stands are of suitable capacity and in serviceable condition.
12. **Slips, trips, falls:** Ensure work area is clear of objects that could cause a slip, trip, fall hazard.
13. **Warning / prohibition / information & service labels on machine must be observed**



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16. **Hot fluids:** Be aware hot pressurised fluids. This includes engine coolant, hydraulic oil, transmission oil, diesel fuel.
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18. **Stored energy:** Ensure all stored energy has been depleted and raised cylinders supported before conducting repairs or maintenance.
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20. **Live testing:** live testing must only be done after a task specific risk assessment (take 5 or similar) and in accordance with site requirements. The person operating the machine during live testing must be competent to operate the machine.
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22. **Compressed air:** ensure air receiver has been isolated before conducting repairs on air system. If working on air receiver the air receiver must be depressurised before commencing work. Note: the accumulator on the transmission declutches valve will maintain a small volume of compressed air. Follow instructions on how to remove air accumulator pressure (behind gauge panel) to discharge.
23. **Current information:** ensure current information is available prior to commencing maintenance or repair task.
24. **Guards:** ensure all guards and covers removed during maintenance or repairs are replaced prior to starting machine.
25. **Ventilation:** ensure adequate ventilation when testing machine
26. **Electric welding:** Do not conduct on machine unless the alternator disconnected by competent and authorised person.
27. **Stay clear:** of rotating parts
28. **Always use tools that are in good serviceable condition**
29. **Take care:** to not damage wiring, hydraulic or air lines during repairs and maintenance.
30. **Ensure:** all electrical cables are placed in positions away from any possible mechanical damage and away from fuel lines.
31. **Gas struts:** (used on covers) contain compressed gas even when fully extended. Before removing, check for damage. Damage may cause an uncontrolled release of energy or exploding parts when removing strut.

250 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
SAFETY SYSTEM			
Test neutral start valve function			
Test horn			
Test horn (Rear cab)			
Test park brake dump valves (individually via test buttons)			
Test rear cab park brake e-stop			
Replace methane sensor inlet filter (if fitted)			
Test low engine oil pressure shut down valve			
Test coolant loss shutdown valve			
Test exhaust conditioner low water shutdown (test floats individually)			
Check/change thermal sensors (Overtemp sentinals) (Complete paperwork)			May have to refer to site requirements
Test emergency shutdown (Strangler Valve)			
Clean & Lubricate External Moving Parts with Penetrant (CRC/WD40)			
Soapy water check all flameproof joints and injector seals			
Soapy water test hoses and fittings for leaks			
Inspect safety circuit pressure (Adjust if required)			30psi
FLUIDS			
Change engine oil – inspect and clean magnetic drain plug			
Change engine oil filters			2654403
Change transmission oil – inspect and clean magnetic drain plug			
Change front axle hub oils – inspect and clean magnetic drain plug			LSX90
Change front axle diff centre oil – inspect and clean magnetic drain plug			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 211 AXLE ONLY			5-13100601
Change rear axle hub oils – inspect and clean magnetic drain plug			LSX90
Change rear axle diff centre oil – inspect and clean magnetic drain plug			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 111 AXLE ONLY			5-13100601
Check hydraulic oil level – top up as required			ISO68
Fill oil lubricator (if fitted)			
UNDERBODY INSPECTION			
Check engine for oil leaks			
Check transmission for oil leaks			
Check security of sump guard			
Check engine mounts for condition and security			
Check transmission mounts for condition and security			
Check front driveshaft assembly for visual damage			
Check front driveshaft flange bolts			
Check front driveshaft slip joint movement			
Inspect spider assembly front			
Check rear driveshaft assembly for visual damage			
Check rear driveshaft flange bolts			
Check rear driveshaft slip joint movement			
Inspect spider assembly rear			
Check suspension components for condition and security			
Check A-Frame Mounting Cross Member bolts for tension			
Check A frame for condition and security			
Check all hoses and pipes for condition and security			
Inspect air receivers for external damage and corrosion			
Remove and visually inspect brake air receiver check valve – check operation and lubricate with penetrant			
Grease drive shafts 3 points each			

250 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
Grease cardinal shaft joints (if applicable)			
AXLES			
Check axles for oil leaks and damaged hoses			
Check steering cylinder for leaks			
Check cardinal joints for movement			
Check steering tie rods for movement			
Check front wheel bearings for excessive movement			
Check rear wheel bearings for excessive movement			
Adjust brakes (278 & 171 axles only)			
Inspect for brake wear			
ENGINE & TRANSMISSION			
Change transmission oil filter			9-00120101
Change hydraulic return filter			9-04200104
Check condition of transmission control valves			
Adjust transmission linkages (if required)			
Check transmission breather			
Clean pre-cleaner (intake air cleaner)			
Replace air cleaner element			9-00110107
Check air filter indicator			
Check intake hose condition and clamps			
Clean flametrap element			5-05100107 (Gasket)
Check security of starter motor			
Check orbital steering valve for leaks and operation			
Check fan belt tension / condition / FRAS (Replace if required)			9-04100109
Check fan hub and bearings for damage / cracks			
Check fan blades for damage (Replace fan if required)			
Check all radiator hoses and connections (Replace if required)			
Check security of radiator			
Check fuel shut off valve for leaks and operation			
Check fuel shut off cylinder operation			
Change fuel filters			26560145 - 265601143
Remove the compressor discharge hose and intake filter – check for evidence of oil &/ or carbon build up If build up is found compressor must be repaired / replaced & discharge hose must be replaced			(PTFE hose)
Change compressor filter			9-04120110
Clean engine breather			
Check radiator header tank and cap condition			
Check coolant level – top up as required			
Check all hoses and pipes for condition and security			
Grease bonnet hinges			
Grease gear select and linkage points			
SYSTEMS SERVICE			
Check scrubber inspection plate gaskets for leaks			
Flush and clean scrubber internals			
Check shutdown valves and float (Replace viton seals if required)			
Check all hoses for leaks and blockages			
Check scrubber make-up valve and float operation			
Clean scrubber supply line strainer			
Check scrubber static water and low water levels			
Check / top up make-up tank (With potable water only)			
Add conditioner to make-up tank (if applicable)			Refer to site specific specifications
Drain air receiver condensation			

250 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS			
Check brake air receiver age. Receiver must be replaced when approaching 2 years in service life. This is determined from the vehicle in-service date.						
PARTICULATE FILTER SYSTEM						
Check hosing (Replace if required)						
Check condition of outlet pipe couplings						
Check mounting and security valves						
Check for loose fasteners						
Check for exhaust leaks						
Check for air leaks on control lines						
Check for damage to housings/components						
Replace exhaust particulate filters			Note! Replace filters as per site specific procedure – only approved filter elements to be fitted.			
COMMISSIONING						
Check compressor governor unloader pressure			125psi			
Check safety valve manual operation						
Test 2wd / 4wd actuator (Disengages when 3 rd gear is selected)						
Test hydraulic steer standby pressure			350psi			
Test hydraulic full compensator pressure			1600psi			
Check reverse alarm filter and operation						
Check Park brake release pressure			278 / 171 – 350psi 211 / 111 – 400psi			
Check for leaks around injectors and fuel system						
Check fuel lines and fittings for leaks						
Check fuel injector pump for damage, loose parts & security						
Check pneumatic system for leaks						
Check general body condition						
Check frame visually for cracks and corrosion						
Check operation of door and hinge condition			Lubricate with penetrant			
Check alignment of door interlock valve plunger/roller.			Ensure plunger is central in front cab cutout			
Check seat belts – condition and operation						
Check seat condition						
Check stretcher brackets and mounts						
Check rims / tyres & wheel nut tension			430Nm (318Ft/Lbs)			
Check tyres for damage and record condition and % of thread remaining			DSF: ____ ODSF: ____ DSR: ____ ODSR: ____			
Check tyre pressure if filled with air			Note! Always refer to tyre manufacturers for specific tyre pressures. Always follow site requirements for tyre inspections.			
Check fire extinguisher serviceability, security and in date						
Check fire suppression system for damage and condition of bottle, lines and nozzles						
Check fire suppression system is tagged and in date						
Check safety triangles						
Check wheel chocks						
RAW GAS TEST (IF DUE)	OK	ADJ				
Engine RPM			CO ppm	NOx ppm	Co ² % NSW	HCHO ppm QLD
Low idle no load						
High idle						
High idle - stall 3rd gear						
			1100 Max	750NSW 900QLD Max	>6	50 Max

SERVICE ITEM		OK	ADJ	SPECIFICATION/COMMENTS
FINAL COMMISSIONING				
Test coolant loss shutdown	Repeat Test 3 times			
Test low engine oil pressure shutdown	Repeat Test 3 times			
Check thermal sensor (sentinel) shutdown (Crack supply line)	Repeat Test 3 times			
Test exhaust conditioner low water shutdown (test floats individually)	Repeat Test 3 times			
Test emergency shutdown (Strangler Valve)				
Carry out brake drive through test – FWD & 2 nd gear with service and park brake applied				
Check operation of park brake				
Check operation of door interlocks				

[illegible]

Service completed by		Signature		Date	
Supervisor acceptance		Signature		Date	

Comments:



IMPORTANT NOTE

VEHICLE BRAKE TESTING

Print & completed Brake Test Report **MDG39 BT**
SMV and attach to this document.

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KIT PART NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	SERVICE COMPLETED BY	JOB NUMBER	SITE

THIS DOCUMENT FORMS PART OF A REGIME TO ENSURE THE PIECE OF PLANT INVOLVED IS MAINTAINED AS PER THE REQUIREMENTS OF AS3584.3 2012. THE MAINTENANCE REGIME COMPRISES OF PRESTART, DAILY, 50HRS, 250HRS, 500HRS, 1000HRS AND FULL CODE D MAINTENANCE PLANS.

Maintenance safety information

- Ensure that all safety information is read and understood before maintenance or repair task is performed
- PPKME recommends this service work to be completed by a RIIDES trained competent person and that the work is managed and approved by a RIIDES trained responsible person.

- 1. Ensure a control risk management (take 5) is completed**
- 2. Ensure machine is cleaned before servicing!**
- 3. PPE:** Appropriate PPE must be worn including hi visibility clothing, safety glasses, protective footwear, hand protection (as required) hearing protection (as required), hard hat (as required), dust masks (as required).
- 4. Isolation locks:** danger tags and out of service tags must be used in accordance with site requirements and machine specific isolation procedure.
- 5. All lifting gear:** must have current inspection tag, be suitably rated for item being lifted, and be in good condition.
- 6. Lifts requiring mechanical aids:** must only be conducted by trained and competent personnel.
- 7. When lifting objects with mechanical aid:** keep clear of all potential crush or pinch points.
- 8. Keep clear of suspended loads:** Use safety line to control load when required.
- 9. Manual handling:** Do not lift or move objects by hand that are too heavy to do so. When manual handling objects use correct manual handling techniques.
- 10. Pinch points:** Keep all body parts clear of pinch points. Ensure hands and feet are clear when lifting and lowering objects
- 11. Machine support stands:** Ensure machine support stands are of suitable capacity and in serviceable condition.
- 12. Slips, trips, falls:** Ensure work area is clear of objects that could cause a slip, trip, fall hazard.
- 13. Warning / prohibition / information & service labels on machine must be observed**



- 14. Climbing on top of machine:** Always maintain 3-point contact when climbing on top of machine.
- 15. Hot surfaces:** Be aware of hot surfaces when machine has been running.
- 16. Hot fluids:** Be aware hot pressurised fluids. This includes engine coolant, hydraulic oil, transmission oil, diesel fuel.
- 17. Chemical injuries:** ensure that material safety data sheets are available and understood for all fluids used on machine.
- 18. Stored energy:** Ensure all stored energy has been depleted and raised cylinders supported before conducting repairs or maintenance.
- 19. Falling objects:** Do not work under unsupported roof or in area where there is risk of falling objects.
- 20. Live testing:** live testing must only be done after a task specific risk assessment (take 5 or similar) and in accordance with site requirements. The person operating the machine during live testing must be competent to operate the machine.
- 21. Hydraulic injection:** ensure that all stored hydraulic energy has been depleted before disconnecting hydraulic hose or fitting. Do not use your hand to find a hydraulic leak. Use a piece of cardboard or similar to check for leaks. In the event of a suspected hydraulic injection refer to site specific procedure for fluid injection
- 22. Compressed air:** ensure air receiver has been isolated before conducting repairs on air system. If working on air receiver the air receiver must be depressurised before commencing work. Note: the accumulator on the transmission declutches valve will maintain a small volume of compressed air. Follow instructions on how to remove air accumulator pressure (behind gauge panel) to discharge.
- 23. Current information:** ensure current information is available prior to commencing maintenance or repair task.
- 24. Guards:** ensure all guards and covers removed during maintenance or repairs are replaced prior to starting machine.
- 25. Ventilation:** ensure adequate ventilation when testing machine
- 26. Electric welding:** Do not conduct on machine unless the alternator disconnected by competent and authorised person.
- 27. Stay clear:** of rotating parts
- 28. Always use tools that are in good serviceable condition**
- 29. Take care:** to not damage wiring, hydraulic or air lines during repairs and maintenance.
- 30. Ensure:** all electrical cables are placed in positions away from any possible mechanical damage and away from fuel lines.
- 31. Gas struts:** (used on covers) contain compressed gas even when fully extended. Before removing, check for damage. Damage may cause an uncontrolled release of energy or exploding parts when removing strut.

500 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
SAFETY SYSTEM			
Test neutral start valve function			
Test horn			
Test horn (Rear cab)			
Test park brake dump valves (individually via test buttons)			
Test rear cab park brake e-stop			
Test low engine oil pressure shut down valve			
Test coolant loss shutdown valve			
Test exhaust conditioner low water shutdown (test floats individually)			
Check/change thermal sensors (Overtemp sentinals) (Complete paperwork)			May have to refer to site requirements
Test emergency shutdown (Strangler Valve)			
Clean & Lubricate External Moving Parts with Penetrant (CRC/WD40)			
Soapy water check all flameproof joints and injector seals			
Soapy water test hoses and fittings for leaks			
Inspect safety circuit pressure (Adjust if required)			30psi
FLUIDS			
Change engine oil – inspect and clean magnetic drain plug			
Change engine oil filters			2654403
Change transmission oil – inspect and clean magnetic drain plug			
Change front axle hub oils – inspect and clean magnetic drain plug			LSX90
Change front axle diff centre oil – inspect & clean magnetic drain plug			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 211 AXLE ONLY			5-13100601
Change rear axle hub oils – inspect and clean magnetic drain plug			LSX90
Change rear axle diff centre oil – inspect and clean magnetic drain plug			LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 111 AXLE ONLY			5-13100601
Change hydraulic oil (only if showing signs of contamination or burnt)			ISO68
Flush cooling system and replace coolant			
Fill oil lubricator (if fitted)			
UNDERBODY INSPECTION			
Check engine for oil leaks			
Check transmission for oil leaks			
Remove bell housing cover plate & inspect for leaks & flexplate security			
Check security of sump guard			
Check engine mounts for condition and security			
Check transmission mounts for condition and security			
Check front driveshaft assembly for visual damage			
Check front driveshaft flange bolts			
Check front driveshaft slip joint movement			
Inspect spider assembly front			
Check rear driveshaft assembly for visual damage			
Check rear driveshaft flange bolts			
Check rear driveshaft slip joint movement			
Inspect spider assembly rear			
Check suspension components for condition and security			
Check A-Frame Mounting Cross Member bolts for tension			
Check A frame for condition and security			
Check all hoses and pipes for condition and security			
Inspect main air receivers for external damage and corrosion			
Remove and visually inspect brake air receiver check valve – check operation and lubricate with penetrant			
Grease drive shafts 3 points each			
Grease cardinal shaft joints (if applicable)			

500 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS
AXLES			
Check axles for oil leaks and damaged hoses			
Check steering cylinder for leaks			
Check cardinal joints for movement			
Check steering tie rods for movement			
Check front wheel bearings for excessive movement			
Check rear wheel bearings for excessive movement			
Adjust brakes (278 & 171 axles only)			
Inspect for brake wear			
ENGINE & TRANSMISSION			
Change transmission oil filter			9-00120101
Change hydraulic tank return filter			9-04200104
Check condition of transmission control valves			
Adjust transmission linkages (if required)			
Check transmission breather			
Clean pre-cleaner (intake air cleaner)			
Replace air cleaner element			9-00110107
Check air filter indicator			
Check intake hose condition and clamps			
Clean flametrap element			5-05100107 (Gasket)
Check security of starter motor			
Check orbital steering valve for leaks and operation			
Check fan belt tension / condition / FRAS (Replace if required)			9-04100109
Check fan hub and bearings for damage / cracks			
Check fan blades for damage (Replace fan if required)			
Check all radiator hoses and connections (Replace if required)			
Check security of radiator			
Check fuel shut off valve for leaks and operation			
Check fuel shut off cylinder operation			
Change fuel filters			26560145 - 265601143
Remove the compressor discharge hose and intake filter – check for evidence of oil &/ or carbon build up If build up is found compressor must be repaired / replaced & discharge hose must be replaced			(PTFE hose)
Change compressor filter			9-04120110
Clean engine breather			
Check radiator header tank and cap condition			
Check all hoses and pipes for condition and security			
Grease bonnet hinges			
Grease gear select and linkage points			
SYSTEMS SERVICE			
Check scrubber inspection plate gaskets for leaks			
Flush and clean scrubber internals			
Check shutdown valves and float (Replace Viton seals if required)			
Check all hoses for leaks and blockages			
Check scrubber make-up valve and float operation			
Clean scrubber supply line strainer			
Check scrubber static water and low water levels			
Check / top up make-up tank (With potable water only)			
Add conditioner to make-up tank (if applicable)			Refer to site specific specifications
Drain main air receiver condensate			
Check brake air receiver age. Receiver must be replaced when approaching 2 years in service life. This is determined from the vehicle in-service date.			

500 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	OK	ADJ	SPECIFICATION/COMMENTS			
PARTICULATE FILTER SYSTEM						
Check hosing (Replace if required)						
Check condition of outlet pipe couplings						
Check mounting and security valves						
Check for loose fasteners						
Check for exhaust leaks						
Check for air leaks on control lines						
Check for damage to housings/components						
Replace exhaust particulate filters			Note! Replace filters as per site specific procedure – only approved filter elements to be fitted.			
COMMISSIONING						
Check compressor governor unloader pressure			125psi			
Check pneumatic safety valve manual operation						
Test 2wd / 4wd actuator (Disengages when 3 rd gear is selected)						
Test hydraulic steer standby pressure			350psi			
Test hydraulic full compensator pressure			1600psi			
Check reverse alarm filter and operation						
Check park brake release pressure			278 / 171 – 350psi 211 / 111 – 400psi			
Check for leaks around injectors and fuel system						
Check fuel lines and fittings for leaks						
Check fuel injector pump for damage, loose parts & security						
Check pneumatic system for leaks						
Check general body condition						
Check frame visually for cracks and corrosion						
Check operation of door and hinge condition			Lubricate with penetrant			
Check alignment of door interlock valve plunger/roller.			Ensure plunger is central in front cab cutout			
Check seat belts – condition and operation						
Check seat condition						
Check stretcher brackets and mounts						
Check rims / tyres & wheel nut tension			430Nm (318Ft/Lbs)			
Check tyres for damage and record condition and % of thread remaining			DSF: ____ ODSF: ____ DSR: ____ ODSR: ____			
Check tyre pressure if filled with air			Note! Always refer to tyre manufacturers for specific tyres pressures. Always follow site requirements for tyre inspections.			
Check fire extinguisher serviceability and security						
Check fire suppression system for damage and condition of bottle, lines and nozzles						
Check fire suppression system is tagged and in date						
Check safety triangles						
Check wheel chocks						
RAW GAS TEST (IF DUE)	OK	ADJ				
Engine RPM			CO ppm	NOx ppm	Co ² % NSW	HCHO ppm QLD
Low idle no load						
High idle						
High idle - stall 3rd gear						
			1100 Max	750NSW 900QLD Max	>6	50 Max

FINAL COMMISSIONING				
Test coolant loss shutdown	Repeat Test 3 times			
Test low engine oil pressure shutdown	Repeat Test 3 times			
Check thermal sensor (sentinel) shutdown (Crack supply line)	Repeat Test 3 times			
Test exhaust conditioner low water shutdown (test floats individually)	Repeat Test 3 times			
Test emergency shutdown (Strangler Valve)				
Carry out brake drive through test – FWD & 2 nd gear with service and park brake applied				
Check operation of park brake				
Check operation of door interlocks				

[illegible]

Service completed by		Signature		Date	
Supervisor acceptance		Signature		Date	

Comments:



IMPORTANT NOTE

VEHICLE BRAKE TESTING

Print & completed Brake Test Report **MDG39 BT**
SMV and attach to this document.

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PLANT NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	SERVICE COMPLETED BY	JOB NUMBER	SITE

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1000 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	Serviceable/ Completed	Component Replaced	Specification/comments
SAFETY SYSTEM			
Test neutral start valve function	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test horn	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test horn (Rear cab)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test park brake dump valves (individually via test buttons)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test rear cab park brake e-stop	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test low engine oil pressure shut down valve	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test coolant loss shutdown valve	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test exhaust conditioner low water shutdown (test floats individually)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check/change thermal sensors (Overtemp sentinals) (Complete paperwork)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	May have to refer to site requirements
Test emergency shutdown (Strangler Valve)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Clean & Lubricate External Moving Parts of the strangler valve with Penetrant (CRC/WD40)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Soapy water check all flameproof joints and injector seals	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Soapy water test hoses and fittings for leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Inspect safety circuit pressure (Adjust if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	30psi
FLUIDS			
Change engine oil – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Change engine oil filters	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	2654403
Change transmission oil – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Change front axle hub oils – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	LSX90
Change front axle diff centre oil – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 211 AXLE ONLY		<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	5-13100601
Change rear axle hub oils – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	LSX90
Change rear axle diff centre oil – inspect and clean magnetic drain plug	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	LSX90
ADD 200 – 300ML OF OIL ADDITIVE IN 111 AXLE ONLY	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	5-13100601
Change hydraulic oil (only if showing signs of contamination or burnt)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	ISO68
Change suction filter	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-01200101
Flush cooling system and replace coolant	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Fill oil lubricator (if fitted)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
UNDERBODY INSPECTION			
Check engine for oil leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check transmission for oil leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Remove bell housing cover plate & inspect for leaks & flexplate security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check security of sump guard	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check engine mounts for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check transmission mounts for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check front driveshaft assembly for visual damage	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	

1000 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	Serviceable/ Completed	Component Replaced	Specification/comments
Check front driveshaft flange bolts	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check front driveshaft slip joint movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Inspect spider assembly front	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check rear driveshaft assembly for visual damage	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check rear driveshaft flange bolts	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check rear driveshaft slip joint movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Inspect spider assembly rear	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check suspension components for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check A-Frame Mounting Cross Member bolts for tension	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check A frame for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check all hoses and pipes for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Inspect air receivers for external damage and corrosion	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Remove and visually inspect brake air receiver check valve – check operation and lubricate with penetrant	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Grease drive shafts 3 points each	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Grease cardinal shaft joints (if applicable)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
AXLES			
Check axles for oil leaks and damaged hoses	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check steering cylinder for leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check cardinal joints for movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check steering tie rods for movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check front wheel bearings for excessive movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check rear wheel bearings for excessive movement	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Adjust brakes (278 & 171 axles only)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Inspect for brake wear	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
ENGINE & TRANSMISSION			
Change transmission oil filter	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-00120101
Change hydraulic tank return filter	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-04200104
Check condition of transmission control valves	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Adjust transmission linkages (if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check transmission breather	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Clean pre-cleaner (intake air cleaner)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Replace air cleaner element	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-00110107
Check air filter indicator	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check intake hose condition and clamps	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Remove / inspect and clean strangler valve	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Clean flametrap element	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	5-05100107 (Gasket)
Check security of starter motor	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check orbital steering valve for leaks and operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fan belt tension / condition / FRAS (Replace if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-04100109
Check fan hub and bearings for damage / cracks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fan blades for damage (Replace fan if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check all radiator hoses and connections (Replace if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check security of radiator	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	

1000 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	Serviceable/ Completed	Component Replaced	Specification/comments
Check fuel shut off valve for leaks and operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fuel shut off cylinder operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Change fuel filters	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	26560145 - 265601143
Remove the compressor discharge hose and intake filter – check for evidence of oil &/ or carbon build up If build up is found compressor must be repaired / replaced & discharge hose must be replaced	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	(PTFE hose)
Change compressor filter	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	9-04120110
Clean engine breather	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check radiator header tank and cap condition	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check all hoses and pipes for condition and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Grease bonnet hinges	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Grease gear select and linkage points	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
SYSTEMS SERVICE			
Check scrubber inspection plate gaskets for leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Flush and clean scrubber internals	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check shutdown valves and float (Replace viton seals if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check all hoses for leaks and blockages	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check scrubber make-up valve and float operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Clean scrubber supply line strainer	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check scrubber static water and low water levels	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check / top up make-up tank (With potable water only)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Add conditioner to make-up tank (if applicable)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Refer to site specific specifications
Drain main air and service brake receiver condensate	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check brake air receiver age. Receiver must be replaced when approaching 2 years in service life. This is determined from the vehicle in-service date.	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Replace both main air inlet filters	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Set engine valve clearance	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Inlet 0.2mm Exhaust 0.45mm
PARTICULATE FILTER SYSTEM			
Check hosing (Replace if required)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check condition of outlet pipe couplings	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check mounting and security valves	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check for loose fasteners	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check for exhaust leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check for air leaks on control lines	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check for damage to housings/components	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Repair/Replace waste gate valve	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Replace exhaust particulate filters	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Note! Replace filters as per site specific procedure – only approved filter elements to be fitted.

1000 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

SERVICE ITEM	Serviceable/ Completed	Component Replaced	Specification/comments
Test exhaust back pressure calibration using the following guidelines: <ul style="list-style-type: none"> remove plug from bottom of the purifier pipe and fit test gauge via hose from calibration kit operate machine at idle and gradually fully cover the particulate filter housing outlet using a steel plate/conveyer rubber or something similar monitor gauge reading to ensure that the waste gate, visual and audible indicators operate at approximately 10kPa 	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
COMMISSIONING			
Check compressor governor unloader pressure	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	125psi
Check pneumatic system safety valve manual operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test 2wd / 4wd actuator (Disengages when 3 rd gear is selected)	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Test hydraulic steer standby pressure	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	350psi
Test hydraulic full compensator pressure	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	1600psi
Check reverse alarm filter and operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check park brake release pressure	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	278 / 171 – 350psi 211 / 111 – 400psi
Check for leaks around injectors and fuel system	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fuel lines and fittings for leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fuel injector pump for damage, loose parts & security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check pneumatic system for leaks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check general body condition	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check frame visually for cracks and corrosion	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check operation of door and hinge condition	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Lubricate with penetrant
Check alignment of door interlock valve plunger/roller.	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Ensure plunger is central in front cab cutout
Check seat belts – condition and operation	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check seat condition	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check stretcher brackets and mounts	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check rims / tyres & wheel nut tension	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	430Nm (318Ft/Lbs)
Check tyres for damage and record condition and % of thread remaining	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	DSF: ____ ODSF: ____ DSR: ____ ODSR: ____
Check tyre pressure if filled with air	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	Note! Always refer to tyre manufacturers for specific tyre pressures. Always follow site requirements for tyre inspections.
Check fire extinguisher serviceability and security	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fire suppression system for damage and condition of bottle, lines and nozzles	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check fire suppression system is tagged and in date	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check safety triangles	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	
Check wheel chocks	<input type="checkbox"/> Yes, <input type="checkbox"/> No	<input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> N/A	

1000 HOUR SERVICE – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

RAW GAS TEST (IF DUE)		Serviceable/ Completed					
Engine RPM				CO ppm	NOx ppm	Co ² % NSW	HCHO ppm QLD
Low idle no load		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
High idle		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
High idle - stall 3rd gear		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Specification				1100 Max	750NSW 900QLD Max	>6	50 Max
FINAL COMMISSIONING		Serviceable/ Completed					
Test coolant loss shutdown	Repeat Test 3 times	<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Test low engine oil pressure shutdown	Repeat Test 3 times	<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Check thermal sensor (sentinel) shutdown (Crack supply line)	Repeat Test 3 times	<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Test exhaust conditioner low water shutdown (test floats individually)	Repeat Test 3 times	<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Test emergency shutdown (Strangler Valve)		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Carry out brake drive through test – FWD & 2 nd gear with service and park brake applied		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Check operation of park brake		<input type="checkbox"/> Yes, <input type="checkbox"/> No					
Check operation of door interlocks		<input type="checkbox"/> Yes, <input type="checkbox"/> No					

Service completed by		Signature		Date	
Supervisor acceptance		Signature		Date	

Comments:



IMPORTANT NOTE

VEHICLE BRAKE TESTING

Print & completed Brake Test Report **MDG39 BT**
SMV and attach to this document.

(SHIFTLY) PRE-START INSPECTION – DRIFTRUNNER ‘G’ & ‘F’ SERIES

MDR090376DES & MDR083991TBS-2

PLANT NUMBER	SERIAL NUMBER	DATE	MACHINE HOURS	OPERATOR

THIS DOCUMENT FORMS PART OF A REGIME TO ENSURE THE PIECE OF PLANT INVOLVED IS MAINTAINED AS PER THE REQUIREMENTS OF AS3584.3 2012. THE MAINTENANCE REGIME COMPRISES OF PRESTART, DAILY, 50HRS, 250HRS, 500HRS, 1000HRS AND FULL CODE D MAINTENANCE PLANS. THIS DOCUMENT IS TO BE USED IN CONJUNCTION WITH THE RELEVANT SERVICE MANUAL. THE SEQUENCE NUMBERS LISTED INDICATE THE RECOMMENDED PROCESS FLOW.

WARNING: ENSURE THE DES HAS BEEN TAGGED WITH ISOLATION AND DANGER TAGS IN ACCORDANCE WITH OEM RECOMMENDATIONS AND MINE ISOLATION AND SAFETY PROCEDURES TO PREVENT THE VEHICLE FROM BEING STARTED OR ANY UNPLANNED MOVEMENT DURING THE PRE-START INSPECTION. IT IS RECOMMENDED THAT THIS CHECK IS COMPLETED AT THE START OF EVERY SHIFT OR WHENEVER THE PIECE OF PLANT IS TAKEN OVER BY A NEW OPERATOR

IF ANY DEFECTS OR HAZARDS ARE FOUND DURING THE PRE-START INSPECTION THEY MUST BE REPORTED TO A SUPERVISOR AS SOON AS POSSIBLE, AS PER MANAGERS RULES.

SEQUENCE	SERVICE ITEM DESCRIPTION	OK	ADJ	COMMENTS
	GENERAL MACHINE			
1	Visually inspect cabins, door, bonnets, windscreen and tanks – report damage / defects			
2	Check tyre condition			
3	Check axles for leaks			
4	Check fire suppression system for charge			
5	Check fire extinguisher charge and security			
13	Check operation of all gauges and controls etc.			
17	Check lights for correct operation and visual damage			
	COOLING SYSTEM			
6	Check and clean radiator core			
7	Check security of radiator			
8	Check coolant level and add inhibitor if required			
	ENGINE			
9	Check drive belt - Visual			
11	Check the intake of the air cleaner pre-cleaner is clear			
18	Check for oil leaks			
	AIR SYSTEM			
10	Drain condensation from air receiver			
	FUEL SYSTEM			
12	Check fuel Level and top up			
19	Check for leaks around injectors, pump and lines			
20	Check all hoses and fittings for leaks			
	TRANSMISSION			
14	Confirm drive isolation by brake drive through test			
15	Check transmission for leaks			
	SHUTDOWN SYSTEM			
21	Check hoses and fittings for leaks			
22	Test scrubber tank low water shutdown (test floats individually)			
23	Drain scrubber tank and flush			
	BRAKE TEST			
16	Check operation of door/park brake interlock			

COMMENTS	

INSPECTED BY	SIGNATURE	DATE	SUPERVISOR	SIGNATURE	DATE