



CVS Siloking PTO Drive Operating Manual
For truck chassis with M Drive transmission, or Road Ranger.

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TRUCK FIT-UP DATA SHEET.

OPERATING INSTRUCTIONS.

WARNING: DO NOT START COMPRESSOR UNDER LOAD.
DO NOT STOP COMPRESSOR UNDER LOAD.

PRESTART CHECKS.

1. Check for oil leaks.
2. Ensure that the tanker Boost valve, Top Air and one aeration line are open – the compressor/blower must **NOT** start under load.

STARTING PROCEDURE.

1. Idle the truck engine at low idle.
2. Apply the parking brake.
3. Ensure that the compressor does **NOT** start against load.
4. For M-drive:
 - a. Start the PTO
4. For Road Ranger with manual transmission:
 - a. Step on clutch and put into first gear, then
 - b. Keep clutch in and Engage PTO, then
 - c. Keep clutch in and put in neutral, then
 - d. Release clutch.
4. For Road Ranger with automatic transmission:
 - a. Step on brake and put in gear, then
 - b. Keep brake on and engage PTO, then
 - c. Keep brake on and put in **park**, then
 - d. Release brake.
5. Set truck engine to **operating RPM** (refer truck fit-up data sheet for **design speed setting**).
6. With the compressor/blower at **operating RPM**, close boost valve on tanker to pressurize the vessel and follow the tanker manufacturers Operating Manual.

WARNING : THE COMPRESSOR CAN BE DAMAGED IF STARTED UNDER LOAD

DURING OPERATION.

1. Monitor compressor for severe vibration, unusual noise and undue temperature increase.
2. Check air filter intake restriction indicator.
3. Check for oil leaks.

SHUTDOWN PROCEDURE.

1. Ensure the that there is NO LOAD on compressor before stopping the compressor.
2. Idle the truck engine.
3. For M-drive:
 - a. Stop the PTO.
4. For Road Ranger (manual or automatic):
 - a. Depress the clutch pedal and disengage the PTO.
5. For Road Ranger with automatic transmission:
 - a. Step on the brake and disengage the PTO.

WARNING: THE COMPRESSOR VAN BE DAMAGED IF STOPPED UNDER LOAD

SERVICE INFORMATION.

CVS compressors are manufactured to exacting standards and are renowned for high performance, reliability and quality. As such, inspection and maintenance play a major role in ensuring this compressor provides the service life and level of performance it was designed for. Cared for correctly, this unit will provide many years of trouble free service. Ensure that the recommended lubricants are used to support your maintenance program.

LUBRICATION.

There are TWO oil sumps to be checked : compressor, and gearbox.

Compressor:

- The oil quantity required in the compressor is approx. 8.0 litres.
- The oil level must be between the MIN and MAX marks on the dipstick.
- Do not over fill.

Gearbox:

- The oil quantity required in the gearbox is approx. 1.4 litres when installed horizontally, or 1.1 litres when installed vertically.
- The oil level must be on the full mark on the site glass.
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<u>COMPONENT</u>	<u>OIL SPECIFICATION</u>	<u>OIL QUANTITY</u>
SiloKing 1100	Mobil 1 5W50	8.0 litres
Input gearbox	Mobil 1 5W50	1.4 litres if horizontal, or 1.1 litres if vertical

Check oil level daily.

Oil change interval = ~ 500 service hours, or every 12 months, whichever comes first.

Oil Filter.

Must be replaced when oil is changed. To avoid damage to compressor, do not use non-genuine oil filters. Only use a genuine CVS oil filter.

Convair part number:

CVS006 Oil filter SiloKing

SPARE PARTS.

**CVS Siloking Compressor fitted with
CCW rotation 2:1 gearbox.**

Model 1100: Part No. 910211



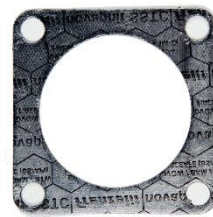
Companion Flange.

Part No: C068-3



Inlet/Outlet Gasket

Part No: CVS008



Silencer Check Valve Gasket

Part No. CVS005



Pressure Relief Valve

Part No. CVS002



Tail Shaft

Contact Convair Engineering
(custom length)

Discharge Silencer

Part No. CVS009



Recommended Oil

Mobil 1 5W50, 5 litre bottle.

Part No: LU-004.



Oil Filter

Part No. CVS006



Air Filter, A Donaldson Powercore PSD100031 is installed. The air cleaner incorporates a pre-filter in the intake end of the housing.

Convair Part Number - AF-026



Air Filter Element, install the new element Donaldson part number P608676. (Air filters should provide between 50 to 300 hours, depending upon conditions).

Convair Part Number AF-024

The inlet restriction indicator should be used as guide to replace the element.



Air Filter Safety Element

Convair Part Number AF-025



Air Filter Restriction Indicator

This gauge measures the restriction created by the inlet filter. Normal restriction is 5-10" of water.

Restriction must not exceed 25mbar.

Convair Part Number - AF-033



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