AES 6700
SERVICE MODULE

SERVICE MODULE FEATURES

- Heavy duty (9) compartment chassis mounted service module c/w rear tray with steel checker plate floor, heavy duty steel guards over boggie wheels and ground level entry steps
- AES Service Modules come with independent ROPS system designed and fabricated to ISO 3471 / 3449 standards to suit a range of cab over and bonneted vehicle chassis
- Fully sealed dust resistant pump and reel cabinet fitted with horizontally hinged compartment door for ground level access on the right hand side
- Remote compressor operation conveniently located on the driver's side of the module at the reel cabinet
- Module paint spec finished in a 2pac white
- Reversing camera c/w auditable and colour monitor for increased safety

TANK COMPARTMENTS

No 1 Diesel	6,700 L	No 6 Waste Oil*	560 L
No 2 Grease	300 kg	No 7 Spare	560 L
No 3 Hydraulic Oil	1430 L	No 8 Water*	560 L
No 4 Engine Oil	1000 L	No 9 Coolant*	630 L
No 5 Gear Oil	620 L		

*Tanks 6, 8 and 9 are polymer lined

PUMPS

- 1 x Alemite 50:1 high pressure grease pump
- 1 x Alemite 10:1 bulk grease pump
- 4 x Husky double diaphragm pumps for diesel 2", waste 1", water ¾", and coolant ¾"
- 1 x Samoa 5-1 high volume oil pumps for gear oil
- 3 x Samoa 3-1 high volume oil pumps for hydraulic and engine oils

HOSES, REELS & NOZZELS

- Banlaw fast fill diesel fuel system
- Cox 1½" hose reels for diesel
- Samoa ¾" hose reels for oil delivery and EVAC suction
- EVAC system fitted with a 4 way valve to allow suction and delivery

SAMOA ½" HOSE REELS FOR COOLANT, AIR AND WATER

- Samoa easy grip hand piece with non drip nozzles for oil dispensing reel
- All reels c/w calibrated digital easy to read dispensing metres
- All hose reels and tanks are hard labelled for easy identification

AIR COMPRESSOR AND RETICULATION

- Airman PDS75 air compressor
- Compressor fitted with an externally mounted Donaldson pre-cleaner upgrade
- Independent electric system with lockable isolator
- All systems are air operated
- Compressor stop start accessible from ground level

ELECTRICAL

- 2 x amber flashing lights and 4 LED service lights
- 2 x compartment work lights
- 2 x reversing lights at rear with dual stop/tail indicator clearance lights
- Jump start receptacle
- Reverse alarm
- Starter isolator
- 24V jumpstart receptacle
- 2 x emergency stops 1 x module mounted, 1 x cab/dash mounted

FIRE SUPPRESSION

- 2 x fire extinguishers: 9kg – ground level, 1 x at rear of module, 1 x at front of module

RAILS, GUARDS AND STEPS

- Top safety rails, guards and steps fitted with anti slip surface to top of module
- All rails, guards and steps manufactured to AS 1657 - 1992

MOUNTING

- All mounting points fitted with spring retained bolts
- Full length chassis timbers fitted between the module and chassis

TRUCK CABIN / CHASSIS

- 6x4 or 8x4 automatic transmission long chassis
- Electrical hour meter
- Independent electrical system with lockable isolator

SIGN WRITING

- All hose, reels and fill points labelled
- Safety signage, compartments, product labels, flammable liquids to meet Australian standards and mine site requirements

COMMISSIONING

- Pre-delivery operational checks
- Meter calibration and flow rate testing
- Parts book and service manual

OPTIONS

- Compressor/park brake shut off
- Turbo timer
- Pressure relief radiator cap
- 6 point front spring manual grease system
- Aluminium bull bar
- Big Mate GPS system

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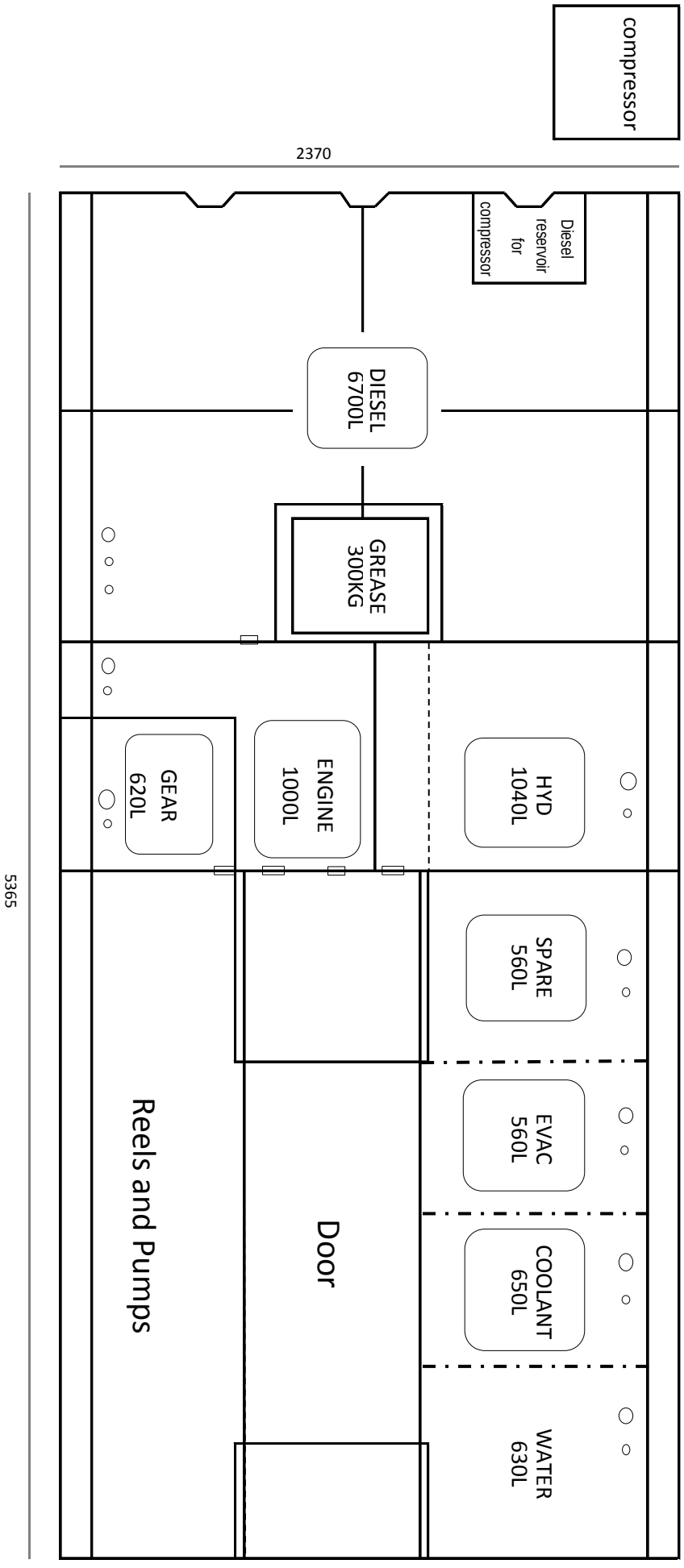
AES
EQUIPMENT SOLUTIONS

Service Module Layout
AMS 6700 Service Truck



OPERATORS MANUAL

AES 6700 LITRE
HINO SERVICE MODULE

Manufactured by AES Equipment Solutions
Tel: 1300 AESGROUP (237 476)

Contents

Section 1: – Introduction

This Operation Manual explains the operation of the AES Service Truck Module.
The purpose of this manual is to provide you with information as a reference for the safe and effective operation of this product.

This manual covers a broad range of product models; there may be certain aspects of your product which, due to additional options, may not be specifically covered within this manual.

This manual is to be used in conjunction with other operator's manuals specific to components fitted to this module. These additional operator's manuals are referred to in the reference manual.

All information and advice in this manual was correct at the time of print. However continual product improvement means that occasionally changes will be made to the service modules and their operators guide.

It is important that you read and familiarise yourself with the safety warnings and notices enclosed within this manual. It is your responsibility to ensure that these warnings and notices are adhered to during operation of this product. Failure to do so may result in harm or injury to yourself and others.

AES or its suppliers of goods may void any warranty if any modifications are made to the module without AES authorisation.

If you require any additional information on the safe and effective operation of this product please contact AES Equipment Solutions on (08) 9274 1736.

Section 2: – Service Truck Configuration - Standard Model

Tank Module

- Heavy Duty (9) compartment chassis mounted service module c/w rear tray with steel checker plate floor, heavy duty steel guards over boggie wheels and ground level entry steps.
- Independently Mounted ROPS & FOPS tested and certified to ISO 3471/3449 standards.
- Fully sealed dust resistant pump and reel cabinet fitted with horizontally hinged compartment door for ground level access on right hand side.
- Lockable start isolators for remote compressor operation conveniently located driver's side of the module at the reel cabinet.
- Larger side and top entry to reel compartment c/w safety rails to entry & auto closing gate at entry to t he roof of the module for increased safety.
- All breathers are located down the side of the roof of the module ensuring clear passageways.
- All fill points east to view internal site glasses and single action ball valve isolators to all tank compartment outlets located inside the reel cabinet.
- Standard 300kg grease pod internally fitted and fully sealed to assist in maintaining a higher temperature for easier delivery in cooler climates c/w 1.00" BSP connection for bulk grease transfer.
- Filter drain box chassis mounted on right side pump and reel cabinet.
- Sandblasted externally, primed, white two (2) pack paint.
- Air cleaner and filter storage boxes mounted left hand side of the module with sealed doors.
- 1,000 litre bunded spill capacity contained with pump and reel cabinet.
- Reversing camera c/w auditable and colour monitor for increased safety.

Tank Compartments

No 1 Diesel	6,700 Litre
No 2 Grease	300kg
No 3 Hydraulic Oil	1,430 Litre
No 4 Engine Oil	1,000 Litre
No 5 Gear Oil	620 Litre
No 6 Waste Oil*	560 Litre
No 7 Spare	560 Litre
No 8 Water*	650 Litre
No 9 Coolant*	630 Litre

*Tanks 6, 8 & 9 polymer lined.

Pumps

- 1 x Alemite 50-1 high pressure grease pump
- 1 x Alemite 10:1 bulk grease pump
- 4 x Husky double diaphragm pumps for Diesel 1 ½ ". Waste 1", Water ½ " & Coolant ½ "
- 1 x Samoa 5 -1 high volume oil pumps for gear oils
- 3 x Samoa 3 -1 high volume oil pumps for hydraulic and engine oils

Section 3: – Safety Precautions

In this manual safety comments can be identified by the warning triangle symbol.

These comments should be read and observed.

A shaded background is used to draw your attention to special points of interest. These may include special notes to help you operate the module, or to help you for the condition of the equipment within the module.

The following safety precautions should be used as a general guide whilst operating the AES Service Module.

These are basic safety precautions. Each situation may have its own unique safety precautions to be adhered to. Ensure all hazards are first identified, and the control measures are adopted before use.

• Before operating Service Module the truck • Should be parked up on stable, even ground with park brake applied. • Do not smoke while operating or in close proximity to the service module. • Do not wear loose or torn clothing while operating service module. • All equipment should be maintained in good working order at all times.	• Always operate in a well ventilated area. • Keep service module in a clean and tidy state at all times. • Never point a control valve at any portion of your body or another person. • Eye protection must always be worn when operating service module. All ignition sources should be kept clear of the service module.

To ensure minimal risk of injury to personnel there are 4 points to be observed when traversing steps.

- Always maintain 3 points of contact on the steps.
- Never jump off the machine.
- Always ensure the steps are clean and in good working order.
- Always climb up forward facing machine, and climb down backwards facing machine.

Section 4: – Safety Equipment (Service Vehicle)

Your AES Service Vehicle has been designed and fabricated to meet Australian MINESPEC standards and is fitted as standard the following safety features:

- Two 9KG Dry Chemical Fire Extinguisher mounted behind the cabin on the passenger side and at the rear next to the compressor.

- One eyewash unit and first aid kit located behind the driver's seat

- One flashing rotating amber light mounted on the back and one mounted on the cab.

- Emergency stop system located behind the cabin on the driver's side and in the cab itself, designed to shut the truck and compressor down in an emergency.

- Rear mounted camera to enable driver to reverse with more safety and accuracy.

- Handrail and kick plate fabricated and painted in accordance with Australian Standards AS 1657 fitted for protection of personnel accessing filling point. Handrails are designed to be easily folded down for transport.

- Non slip flooring for better grip.

- Two rear mounted and side work lights, reversing beeper and LED roof mounted combination lights.

- Yellow wheel chocks for truck maintenance at park up

- Main battery isolator and 24 Volt Receptacle for safer jump starting

- Battery isolation switch on Compressor

Section 6: – Operation of Reels

Open the reel cabinet located on the right hand side of the module. In this cabinet you will find:

Reels

Water	- SAMOA
Coolant	- SAMOA
EVAC/Waste	- SAMOA
Oil x4	- SAMOA
High volume grease	- SAMOA
High pressure grease	- SAMOA
High volume diesel	- COXREELS
Light vehicle diesel	- SAMOA

Pumps Pneumatic

Water	- GRACO DIAPHRAM PUMPS
Coolant	- GRACO DIAPHRAM PUMPS
EVAC	- GRACO DIAPHRAM PUMPS
Diesel	- GRACO DIAPHRAM PUMPS
Hyd	- SAMOA 3:1 RATIO HIGH VOLUME OIL PUMP
Spare	- SAMOA 3:1 RATIO HIGH VOLUME OIL PUMP
Engine	- SAMOA 3:1 RATIO HIGH VOLUME OIL PUMP
Gear	- SAMOA 5:1 RATIO HIGH VOLUME OIL PUMP
High Volume Grease	- ALEMITE HIGH PRESSURE GREASE PUMP
High Pressure Grease	- ALEMITE HIGH PRESSURE STRIPPED PUMP

Select product to be used and turn on corresponding ***ball valve*** located inside the right side of the reel cabinet.

Daily draining of the moisture tap at the bottom of the ball valve manifold will aid in good service life of the pneumatic system.

AES Equipment Solutions uses a range of quality reels and control valves modules of the service module that marry up to provide the best combination for each application.

Uncoil the hose reel to desired length. It can be locked by means of the latch mechanism which is a clicking noise heard after each half resolution of the drum. By gently pulling the hose until the clicking noise has stopped, the latch is released and the hose is automatically recoiled.

A remote display unit is fitted to the COXREEL high volume diesel and one of the SAMOA fast flow fuel reel for convenient monitoring of product flow.

The two diesel reels are mounted side by side with the display mounted on the SAMOA reel.

⚠ Hold the delivery hose securely until the reel is securely latched or fully retracted. Uncontrolled retraction can result in personal injury. Never let go of the hose while rewinding.

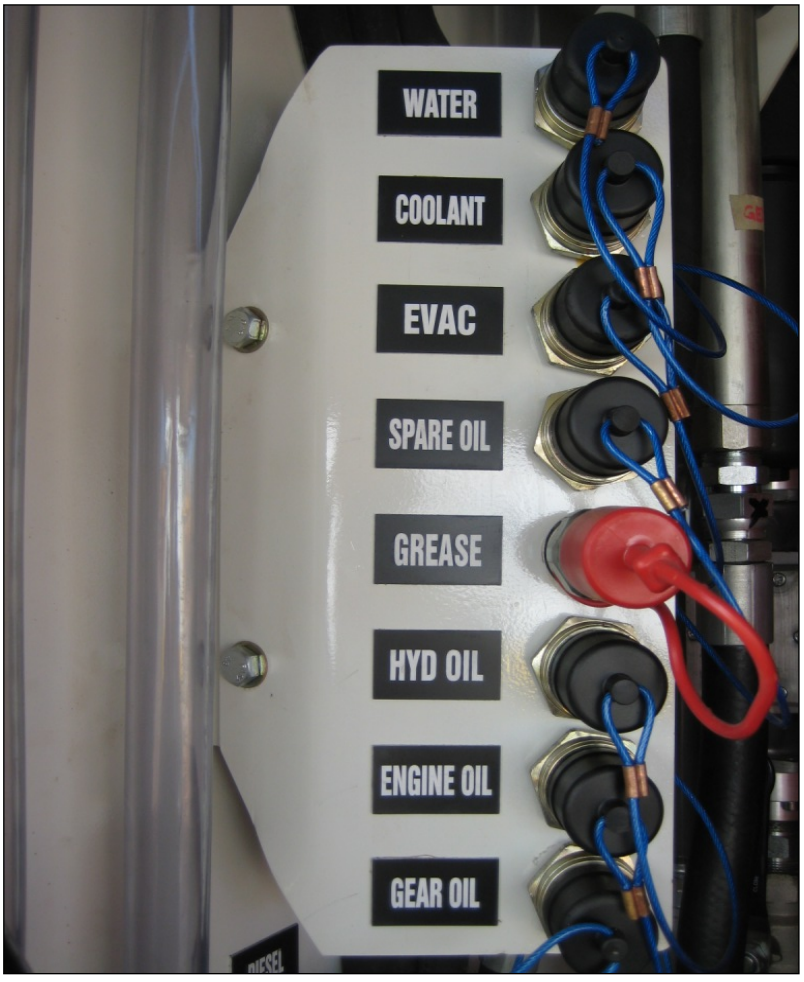
Section 7: – Refilling

There are 9 product storage compartments of the following capacities built into the service module.

- 1 x 180 Litre grease pod
- 5 x 550 Litre tank
- 1 x 1200 Litre tank
- 1 x 1800 Litre tank
- 1 x 5500 Litre tank

Each Module has sight glass tank level indicators. These are in the form of high and low level indicators for each individual tank.

These tanks are filled via convenient filling points through the manifold of Quick Lock fittings inside the reel locker on the left hand side.



Section 8: – Additional Features

An access hatch has been built into the roof of the reel cabinet. This can be accessed via the steps onto the roof of the pod.

This feature has been added to gain access to the various pumps and hoses installed in the rear of the reel cabinet, for such tasks as maintenance and cleaning.

To open the hatch:

- Lift the T handle
- Turn T handle ¼ turn left
- Pull up to open

Inside the hatch are 3 steps leading into the pump chamber.

⚠

To ensure minimal risk of injury to
Personnel, there are 4 points to be observed.
When traversing the steps;

- Always maintain 3 points of contact on the steps.
- Never jump off the machine.
- Always ensure the steps are clean and in good working order.
- Always climb up forward facing machine and climb down backwards facing machine.

Three storage lockers have been built into the front left hand side of the module.

The module is fitted with certified independent ROPS and FOPS.

These are designed to reduce injury or possible fatality in the event of a vehicle roll over.

The ROPS and FOPS must not be structurally modified in anyway. This includes, but is not limited to drilling, welding and cutting or grinding.

In the event of accidental damage, the ROPS and FOPS should be structurally inspected by an Engineer prior to the vehicle being used.

All trucks have:

- An inbuilt grease tank.
- Compressor controls fitted at front of module close to the manifold to make use more efficient.
- OEM quality PVC coated nylon braided wiring harness with 105 degrees Celsius heat rating.
- Cab/dash mounted reverse monitor.
- The module/body is mounted on full length chassis timbers for even load distribution along the chassis rails.