

**TRUCK, TRACTOR, HEAVY, MC4, INTERNATIONAL SF2670 W/INTEGRAL SLEEPER
NSN 2320-66-130-0251**

DATA SUMMARY

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

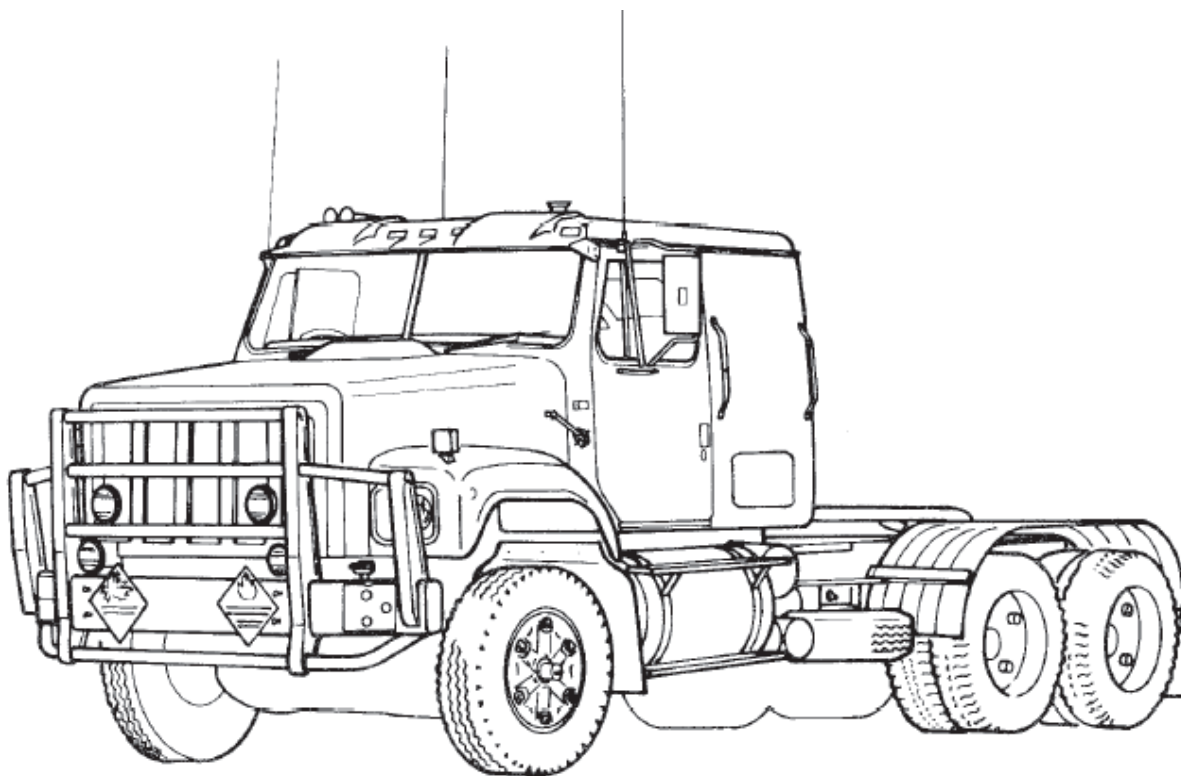


Figure 1 Truck, Tractor, Heavy, MC4, International SF2670

General

- 2. This EMEI lists basic data for the Truck, Tractor, Heavy, MC4, International SF2670 w/integral sleeper, as shown in Figure 1.
- 3. **Role.** The role of the vehicle is to tow the Semi-trailer, Tank Transporter, 60 Ton and the following trailers up to a maximum of three in road train configuration using a Dolly Converter, Heavy, MC4:
 - a. Semitrailer, Cargo, Heavy, MC4;
 - b. Semitrailer, Tank, Water, Heavy, MC4; and
 - c. Semitrailer, Tank, Fuel, Heavy, MC4.

Detail

4. Dimensions:

- a. Height:
 - (1) Without Exhaust Extension..... 3 100 mm
 - (2) With Exhaust Extension..... 3 600 mm

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- b. Height of Frame:
 - (1) Front:
 - (a) Unladen 1 032 mm
 - (b) Laden 984 mm
 - (2) Rear:
 - (a) Unladen 1 083 mm
 - (b) Laden 1 030 mm
- c. Height of Fifth Wheel:
 - (1) Unladen 1 320 mm
 - (2) Laden 1 265 mm
- d. Height of Tow Coupling 900 mm
- e. Length:
 - (1) Front of Vehicle, Including Bullbar to Rear of the Vehicle 7 575 mm
 - (2) Front Axle to Intermediate Axle 4 241 mm
 - (3) Rear Axle to Rear of Vehicle Overhang 724 mm
 - (4) Front Axle to Rear of Cab 2 388 mm
 - (5) Bogie Axle Spacing 1 318 mm
- f. Width:
 - (1) Over Mirrors 2 785 mm
 - (2) Over Bulbar 2 460 mm
 - (3) Over Front Wheel Hubs 2 500 mm
- g. Wheelbase 4 900 mm
- h. Track:
 - (1) Front 2 040 mm
 - (2) Rear 1 830 mm
- i. Ground Clearance:
 - (1) Laden 265 mm
 - (2) Unladen 265 mm
 - (3) Limiting Feature Front axle spring U-bolt

5. Rims and Tyres:

- a. Rims 8.25 DC x 22.5 on cast spoke hub
- b. Tyre Size 11R 22.5 x 16 ply tubeless radial all round
 - (1) Tyre Pressure Refer EMEI Vehicle A 291-5

6. Mass:

- a. Unladen:
 - (1) Front Axle 5 070 kg
 - (2) Rear Bogie 4 770 kg
 - (3) Total 9 840 kg
- b. Gross Combination Mass 102 tonne

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- c.
- d. Maximum Loading:
 - (1) Front Axle 6 000 kg
 - (2) Rear Bogie 15 000 kg
 - (3) Total 21 000 kg
- e. Design Limit Loading:
 - (1) Front Axle 6 000 kg
 - (2) Rear Bogie 20 900 kg
 - (3) Total (Not to Exceed)..... 26 900 kg
- 7. **Bridge Classification:**34
- 8. **Engine:**
 - a. Manufacturer/Type..... Cummins NTC 365
 - b. No of Cylinders6 (in line)
 - c. Power 272 kW at 2100 rpm
 - d. Torque 1797 N.m at 1300 rpm
 - e. Firing Order.....1-5-3-6-2-4
 - f. Capacity 14 litres
 - g. Compression Ratio 14:1
- 9. **Transmission:**
 - a. Manufacturer Spicer-Dana
 - b. Type 1420-3B
 - c. Ratios:
 - (1) Shift Position 1, Air Position 1 15.01:1
 - (2) Shift Position 1, Air Position 2 11.60:1
 - (3) Shift Position 1, Air Position 3 8.86:1
 - (4) Shift Position 1, Air Position 4 6.83:1
 - (5) Shift Position 2, Air Position 1 8.59:1
 - (6) Shift Position 2, Air Position 2 6.62:1
 - (7) Shift Position 2, Air Position 3 5.06:1
 - (8) Shift Position 2, Air Position 4 3.90:1
 - (9) Shift Position 3, Air Position 1 4.93:1
 - (10) Shift Position 3, Air Position 2 3.79:1
 - (11) Shift Position 3, Air Position 3 2.90:1
 - (12) Shift Position 3, Air Position 4 2.23:1
 - (13) Shift Position 4, Air Position 1 2.89:1
 - (14) Shift Position 4, Air Position 2 2.23:1
 - (15) Shift Position 4, Air Position 3 1.70:1
 - (16) Shift Position 4, Air Position 4 1.31:1
 - (17) Shift Position 5, Air Position 1 1.70:1
 - (18) Shift Position 5, Air Position 2 1.31:1

- (19) Shift Position 5, Air Position 3..... 1.0:1
- (20) Shift Position 5, Air Position 4..... 0.77:1
- (21) Reverse, Air Position 1 15.05:1
- (22) Reverse, Air Position 2 11.60:1
- (23) Reverse, Air Position 3 8.86:1
- (24) Reverse, Air Position 4 6.83:1

10. **Clutch:**

- a. Manufacturer Spicer-Dana
- b. Type..... AS-1 552 angle spring, twin-plate mechanical

11. **Power Take-off:**

- a. Manufacturer Powauto
- b. Type..... AH3OBL single speed air actuated transmission mounted and driven

12. **Hydraulic Pump**

- a. Manufacturer Powauto
- b. Type..... DO 24

13. **Front Axle:**

- a. Manufacturer Rockwell
- b. Type..... FG941, reverse Elliot I-beam

14. **Rear Bogie:**

- a. Manufacturer Rockwell
- b. Type..... SSHD hypoid single reduction with inter-axle power divider lockout
- c. Ratio 4.89:1

15. **Propeller Shafts:**

- a. Manufacturer/Type Spicer 1710 and 1810 series

16. **Power Steering:**

- a. Manufacturer Sheppard
- b. Type..... M392 steering box and M292 slave steering box
- c. Lock to Lock 3.5 turns

17. **Electrical System:**

- a. Type of System..... 12 V
- b. No. of Batteries..... Four
- c. Capacity (Nominal)80 Ah
- d. Terminal Grounded Negative
- e. Radio Suppression MIL-STD-461A..... RE05
- f. Alternator Leece-Neville 12 V 90 A

18. **Fuels and Lubricants:**

- a. Fuel:
 - (1) Type Diesel
 - (2) Capacity 633 litres
- b. Engine Oil with Filters:

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- (1) Type OMD 115
- (2) Capacity 41 litres
- c.** Transmission Oil:
 - (1) Type OMD 115
 - (2) Capacity 14.2 litres
- d.** Steering Box Input Shaft:
 - (1) Type XG-291
 - (2) Capacity As required
- e.** Power Steering Reservoir:
 - (1) Type SAE 15W/40 (Class CC/CD)
 - (2) Capacity 5 litres
- f.** Front Axle Hubs:
 - (1) Type OEP 600
 - (2) Capacity 0.375 litres
- g.** Intermediate Differential Oil:
 - (1) Type OEP 600
 - (2) Capacity 16 litres
- h.** Rear Differential Oil:
 - (1) Type OEP 600
 - (2) Capacity 13 litres
- i.** Hydraulic Reservoir:
 - (1) Type Hydraulic fluid 68
 - (2) Capacity 227 litres
- j.** Chassis Lubrication:
 - (1) Type XG 291
 - (2) Capacity As required
- k.** Refrigerant:
 - (1) Type R134A
 - (2) Capacity 1.83 kg (4 lb)
- l.** Air-conditioner Compressor:
 - (1) Type Suniso No.5 GS
 - (2) Capacity As per dipstick
- m.** Radiator:
 - (1) Type Ethylene glycol
 - (2) Capacity 9.2 (20% by volume)
- n.** Radiator Inhibitor:
 - (1) Type DCA4
 - (2) Capacity Cartridge

19. Cooling System:

- a.** Type Optimised after-cooling system

- b. Capacity..... 46 litres
- c. Coolant80% water and 20% ethylene glycol anti-freeze
- 20. Brakes:**
- a. Service Brakes Dual circuit, air operated S-cam type twin-shoe drum brakes
- b. Emergency/Parking Brakes Spring brakes on rear axles, actuated by dash mounted control
- c. or loss of air pressure
- d. Warning Devices Low air indicator light and buzzer
- 21. Air Compressor:**
- a. Manufacturer/Type Cummins 76025L
- b. Lubrication Integral with the engine
- c. Drive..... Driven by the engine timing gear
- 22. Performance:**
- a. Fording Depth..... 800 mm
- b. Limiting Feature Rear axle breather
- c. Turning Circle:
- (1) Between Kerbs 18.56 m
- (2) Between Walls 19.80 m
- d. Ramp Break-over Angle:
- (1) Unladen 139°
- (2) Laden..... 141°
- (3) Limiting Feature Fuel tank rear mounting bracket
- e. Angle of Approach:
- (1) Unladen 25°
- (2) Laden..... 24°
- (3) Limiting Feature Bullbar
- f. Angle of Departure:
- (1) Unladen 32.5°
- (2) Laden..... 30.5°
- (3) Limiting feature Tow coupling
- g. Maximum Gradient at 40 Tonne Uniformly Distributed Load..... 26%
- h. Fuel Consumption Target 57 litres per 100 km (Highway laden)
- i. Range of Operation 1100 km approximately
- 23. Trailer Facilities:**
- a. Socket type NATO 12-pin
- b. Pintle hook..... Rigid type, lockable
- c. Fifth wheel..... Holland FW70 single oscillating
- d. Brakes..... Dual circuit, air operated, glad-hand couplings
- 24. Ancillary Equipment:**
- a. Semitrailer, Tank Transporter 60 Ton;
- b. Dolly, Trailer Converter, Semitrailer, Heavy, MC4, Haulmark;

- c. Semitrailer, Cargo, 12.5 Metre, Heavy, MCI, Fruehauf Hefty Platform;
- d. Semitrailer, Tank, 43 000 Litre, Fuel, Heavy, MC4:
- e. Semitrailer, Tank, Water, Heavy, MCI, Fruehauf TAG 37 000 Litre; and
- f. Dolly, Semitrailer, Converter, Heavy, MCI, Fruehauf EY-F2.

25. Australian Distributor's Details:

Iveco Trucks Australia Ltd
P.O. Box 117
Princes Highway
DANDENONG VIC 3175

www.iveco.com.au

26. Point of Contact:

NFM Med/Hvy B Vehicles

LV SPO, DMO
Victoria Barracks
St Kilda Rd
SOUTHBANK VIC 3006

27. Associated Information:

- a. SIGC 2320-0077
- b. NSN..... 2320-66-130-0251
- c. RPS 02197
- d. SCES 12074
- e. Equipment Kit SCES..... 12075
- f. Block Scale 240632
- g. Liability Code..... 77465/01
- h. Equipment Code.....FI
- i. User Handbook..... 7610-66-130-2485
- j. Other EMEL:
 - (1) Vehicle G 882 Technical Description
 - (2) Vehicle G 883 Light Grade Repair
 - (3) Vehicle G 884 Medium Grade Repair
 - (4) Vehicle G 884-1.....Heavy Grade Repair
 - (5) Vehicle G 889Servicing Instruction
 - (6) Vehicle A 291-5..... Australian Defence Force B Vehicle Tyre Guide
- k. ILSI ALI MM 10-40

END

Distribution List: **VEH G 71.0 – Code 1** (Maint Level)
(Sponsor: LV SPO, Mdm/Hvy B Vehicles)
(Authority: TRAMM)

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