



# Technical Manual

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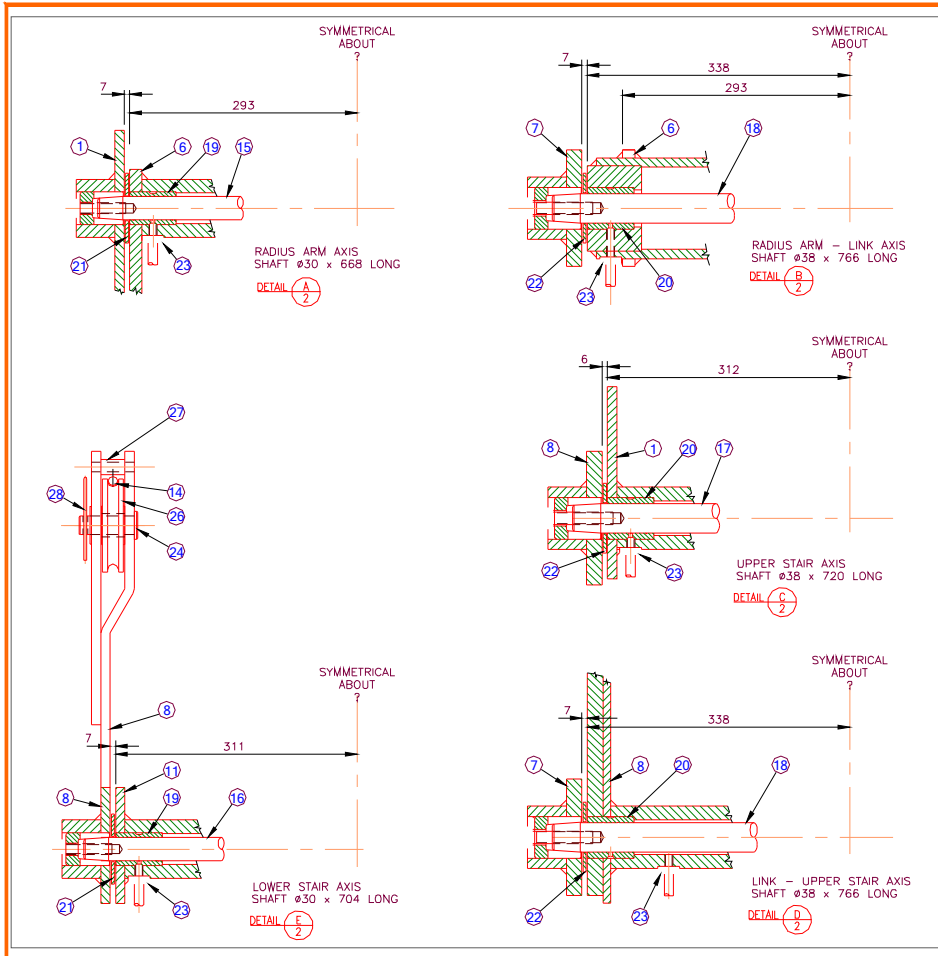
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01B

PLATFORM AND STAIRCASE ASSEMBLY (RH-MKII)

A100242KIT



No.	REVISION
0	ISSUED FOR CONSTRUCTION JUNE 2006 - EN55

**TEREX MINING**

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Title: **FOLDING STAIRS ASSEMBLY (RH-MKII)-DETAILS**

Drawn: BCW	Type: RH120	Part No: A100242KIT
Date: 2 Jan 99		
Checked: BCW	Scale: 1:20	Sheet: 4 OF 4
Approved:		Rev: 0

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## REVISION SHEET

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**Sigma Manual:** SM278-2715

Released  
14 October, 2002  
Winfried Wirfler

ISSUE	E.C.R. No.	DATE	PAGE	DESCRIPTION
A	3070	15/4/96	Section 9 - Page 3	Evaporator motor was P/No 320023. Brush was P/No. 320612. Shaft extension was P/No. 872127.
B	3085	30/4/96	Section 10	Drawing T2715002 revised.
C	3109	24/6/96	Section 9 - Page 3	EFM rationalised to use P/No.UE026; was S2715042.
	3000		Section 10	Drawing AR271514 revised.
D	-	1/5/98	Section 9 & 10	Drawings AS271546 and AS271547 added; Spare Parts listing revised accordingly.
E	4875	22/7/99	Section 10	Drawing revisions added and Drg AS271547.
F	5717	28/1/00	Sections 2, 3, 4	Manual re – written to include heater elements and a semi - hermetic type compressor
G	8446	19/8/02	Sections 3, 9, 10	Schematics updated, Spares numbers changed
H	8446	9/10/02	Section 3	All references to 480VAC changed to 415VAC

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## SECTION 4.0 INSTALLATION AND COMMISSIONING

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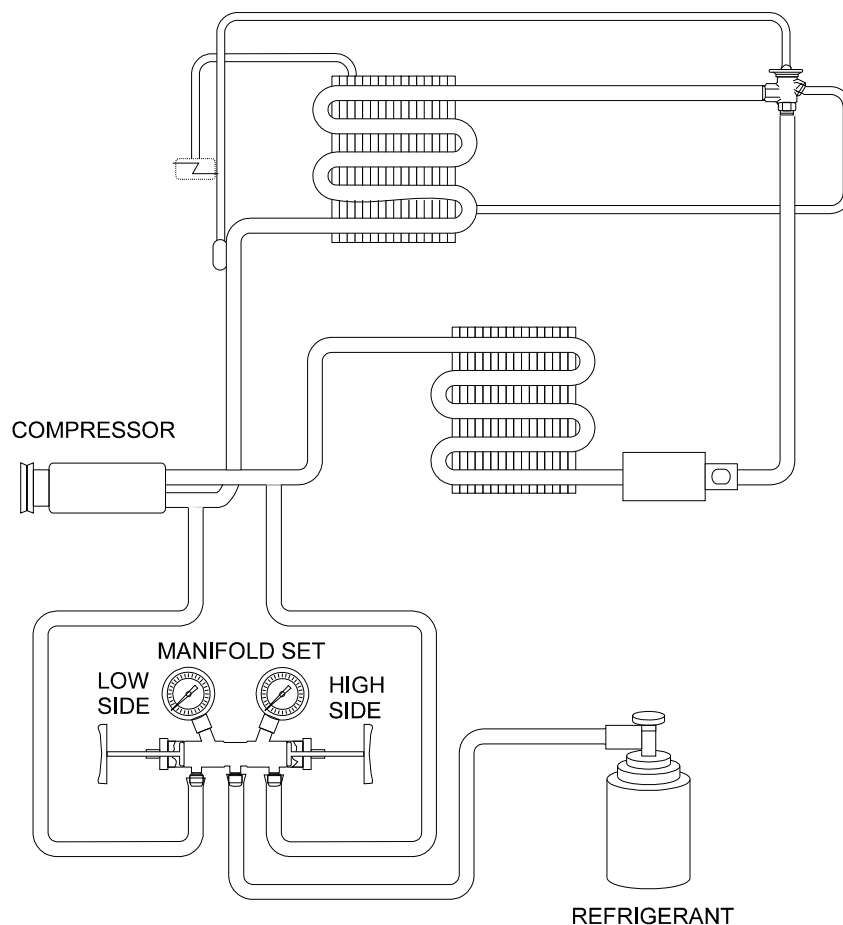
The following procedure is to be used only as a guide for the preferred installation methods.

### 4.1 UNIT INSTALLATION

- a) To ensure a successful installation, it is vital to achieve secure mounting of the unit to rigid mounting points; capable of safely carrying the weight of the unit under its typical operating conditions.
- b) Provided the criteria above mentioned are met, installation can proceed with the preparation of a template from the mounting plan given on drawing T5206001 and T5207001 (refer Section 10).

***Note: Due care must be taken in positioning the unit to ensure that interference with existing cab structure/components does not occur.***

- c) Drill mounting holes; if necessary, reinforce the mounting surface to support the weight of the unit. Treat raw edges for corrosion.
- d) If desired, make provision to run switch panel wiring to remote switch panel within roof lining.
- e) Mount unit into position using the bolts provided (if suitable). Ensure the unit pulls down/up evenly and flush to the mounting surface. Seal bolt penetrations to prevent ingress of dust and water.
- f) Run drain with PVC tube provided. These must be run to the front and rear of the cab on both sides of the unit. Either 'P' traps or one way valves should be fitted to each drain outlet.
- g) Water test to ensure a good seal is provided plus drains are clear and free from leaks.
- h) Ensure that the return air thermostat probe is fixed in the return air stream behind the return air filter. Check that the thermostat de-ice probe is located within the fins of the evaporator coil.

**FIGURE 4.7**

13. Adequately seal all hoses and fittings before storing.

***Note: If it is necessary to change the refrigerant cylinder during the charging procedure, the low pressure gauge hand valve must be tightly closed before disconnecting the empty cylinder. On fitting the full cylinder it will be necessary to purge any air from the charging hose before opening the hand valve and continuing with the charging operation.***

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**MANUAL**

## **6.3 COMPONENT MAINTENANCE**

### **6.3.1 COILS**

If cleaning is required wash with low pressure, mains temperature water in the reverse direction to the air flow. For evaporator coil ensure a baffle is used to prevent any water from entering cabin through the return air plenum.

***WARNING: DO NOT brush coil fins with a wire brush as irreparable damage may occur. If fins are bent, use only the correct fin comb to straighten them.***

### **6.3.2 FAN MOTORS**

Check the motors for excessive shaft end-play. Brushes are accessible by removing the two plastic brush caps on each motor.

***Note: Before removing brush caps thoroughly clean the motors using water-free compressed air.***

### **6.3.3 FAN BLADES**

Check the fan blades for wear or damage. Check that blades are tight on motor shaft. Any damaged/worn blades should be replaced - DO NOT repair.

### **6.3.4 FRESH AIR FILTER**

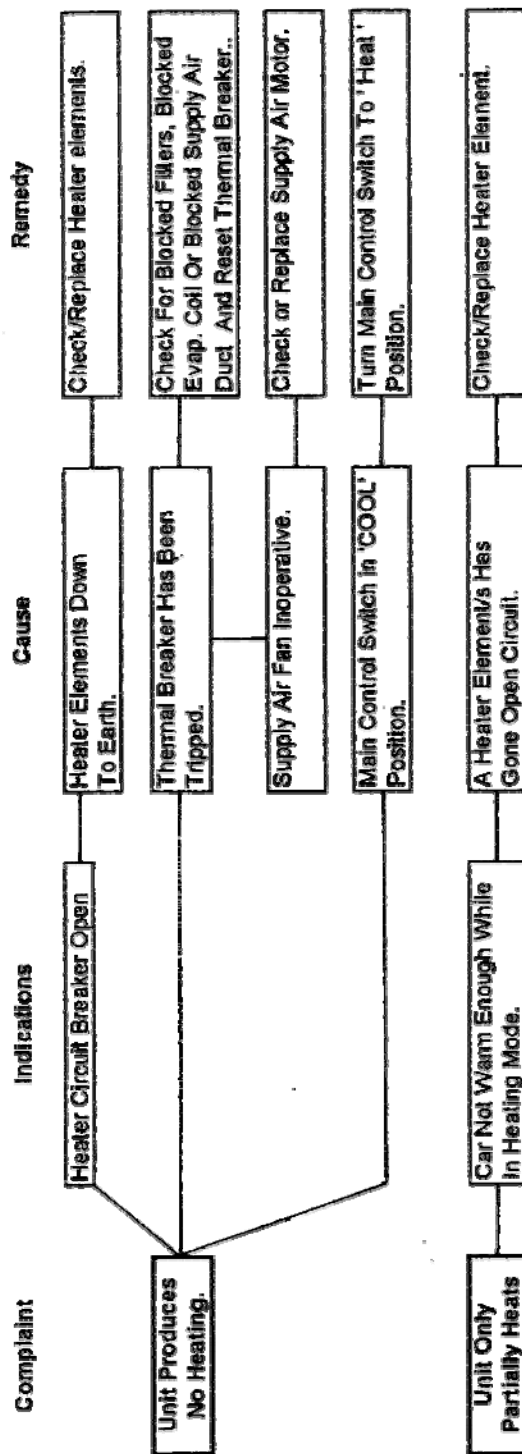
The fresh air pressurising filter is located inside the filter housing of the pressuriser unit. The fresh air filtration system is comprised of a pre-cleaner bowl plus a filter element. Both of these items should be checked at regular intervals for signs of damage or deterioration. To service fresh air filtration systems proceed as follows -

1. Remove pre-cleaner bowl from top of filter housing. Clean out accumulated dust and refit bowl.  
***Note: Take care not to over-tighten knurled knob on top of pre-cleaner bowl cover.***
2. Unclip the filter housing and remove the cover.
3. Remove and clean the filter element by gently tapping on a firm surface - DO NOT wash.
4. Check the rubber seals at the base of the filter element for damage or deterioration.
5. Remove accumulated dust from filter housing.
6. Refit the filter element, ensuring that it seats correctly and replace cover.

### **6.3.5 RECEIVER DRIER/INLINE DRIER**

UNIT PRODUCES NO HEATING. UNIT ONLY PARTIALLY HEATS (TFC8BX2)

T series Trouble Shooting Flow Chart.



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A3

A4

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1

INCHES

3

4

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1

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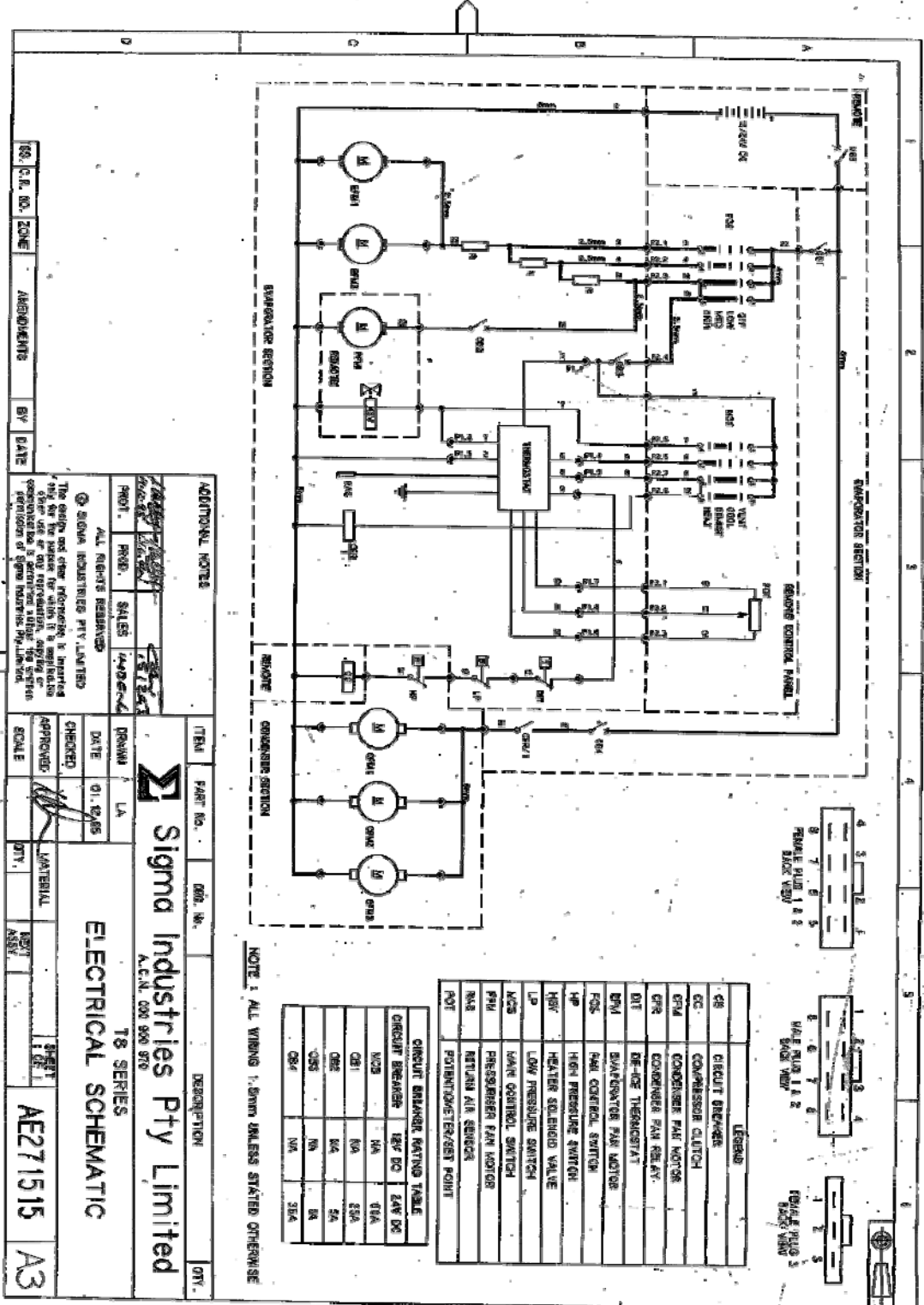
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7

8

9

10



ISS. C.L. NO.	ZONE	ABOVE/FLOORS	BY DATE

**ADDITIONAL NOTE**

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PROJ.	REV.	SALES	DATE	DRAWN	LA
			01.05.05		

**Sigma Industries Pty Limited**  
A.C.N. 000 890 870

**T8 SERIES**  
**ELECTRICAL SCHEMATIC**

CHECKED	APPROVED	LATERIAL	REV	QTY

SCALE: 1:1

SHEET 1 OF 1

AE271515 A3

NOTE 1: ALL WIRING 1.5MM UNLESS STATED OTHERWISE

**CIRCUIT BREAKER RATING TABLE**

CIRCUIT BREAKER	REV DC	24V DC
KCB	NA	10A
CB1	NA	32A
CB2	NA	2A
CB3	NA	8A
CB4	NA	32A

LEGEND	
CB	CIRCUIT BREAKER
CC	COMPRESSOR CLUTCH
CFM	CONDENSER FAN MOTOR
CFR	CONDENSER FAN RELAY
DI	DEF-ICE THERMOSTAT
DM	D/EVAPORATOR FAN MOTOR
FCB	FAN CONTROL SWITCH
HP	HIGH PRESSURE SWITCH
HSR	HEATER SOLENOID VALVE
LP	LOW PRESSURE SWITCH
KCS	SAFETY CONTROL SWITCH
PFR	PRESSURE FAN MOTOR
RAS	REFRIGERANT AIR SENSOR
POT	POTENTIOMETER/SET POINT

## LED MONITOR READINGS

### SIGNALS

#### **OIL RESERVE SYSTEM - LED IN CAB**

- |    |                            |  |
|----|----------------------------|--|
| 1. | SOLID                      | Pump 1 is running and oil is being transferred from sump to reserve tank.                                  |
| 2. | BLINKING LIGHT (PULSATING) | Indicates both pumps are running and oil is being transferred from reserve tank to engine sump.            |
| 3. | ALTERNATION MODE           | A combination of Solid and Blinking modes. This indicates that the required oil level is being maintained. |

The above signals should be monitored continuously by the operator. The Alternation Mode should be constant during normal operating conditions. If the LED signal is only a steady or blinking mode, this indicates a problem and should be investigated immediately.

NOTE: Steady and blinking modes will occur for short periods of time when there is a sudden change in working conditions.  
 ie. Start up and warming of engine  
 Gradient change  
 Speed change

A short period of time is needed for the reserve system to restore the correct running level. This is confirmed when the LED light indicated the Alternation mode.

### SIGNALS

#### **OIL RESERVE WITH OIL BURN SYSTEM**

The oil burn system uses a LED in the cab, the same as the standard reserve system. However the tank mounted control box has 3 LED lights. These are:

- |    |                   |   |
|----|-------------------|---|
| 1. | ENGINE OIL LEVEL  | Indicates what the reserve pumps are doing and operates the same as the LED in the cab.                               |
| 2. | USED OIL METERING | Indicates the rate at which the metering oil pump is working. These pulses are used to set up the oil metering rates. |
| 3. | OIL/FUEL BLENDING | Indicates that the fuel blending pump is operational.   |

# WIRING DIAGRAM - OIL BURN -V2

## TURBO COVERS - RH120

A8-1

ITEM	QTY	UoM	PART NO	DESCRIPTION	PAGE NO.
1	1		A070700	TURBO COVER	
2	1		A070699	MANIFOLD COVER	

## IMPROVED MACHINE ACCESS

A23

ITEM	QTY	UoM	PART NO	DESCRIPTION	PAGE NO.
1	1		A090642	HANDRAIL LH AND RH	
2	1		A090641	STEP SUPPORT	
3	1		A090640	STEP	

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STARTER MOTOR LOCKOUT

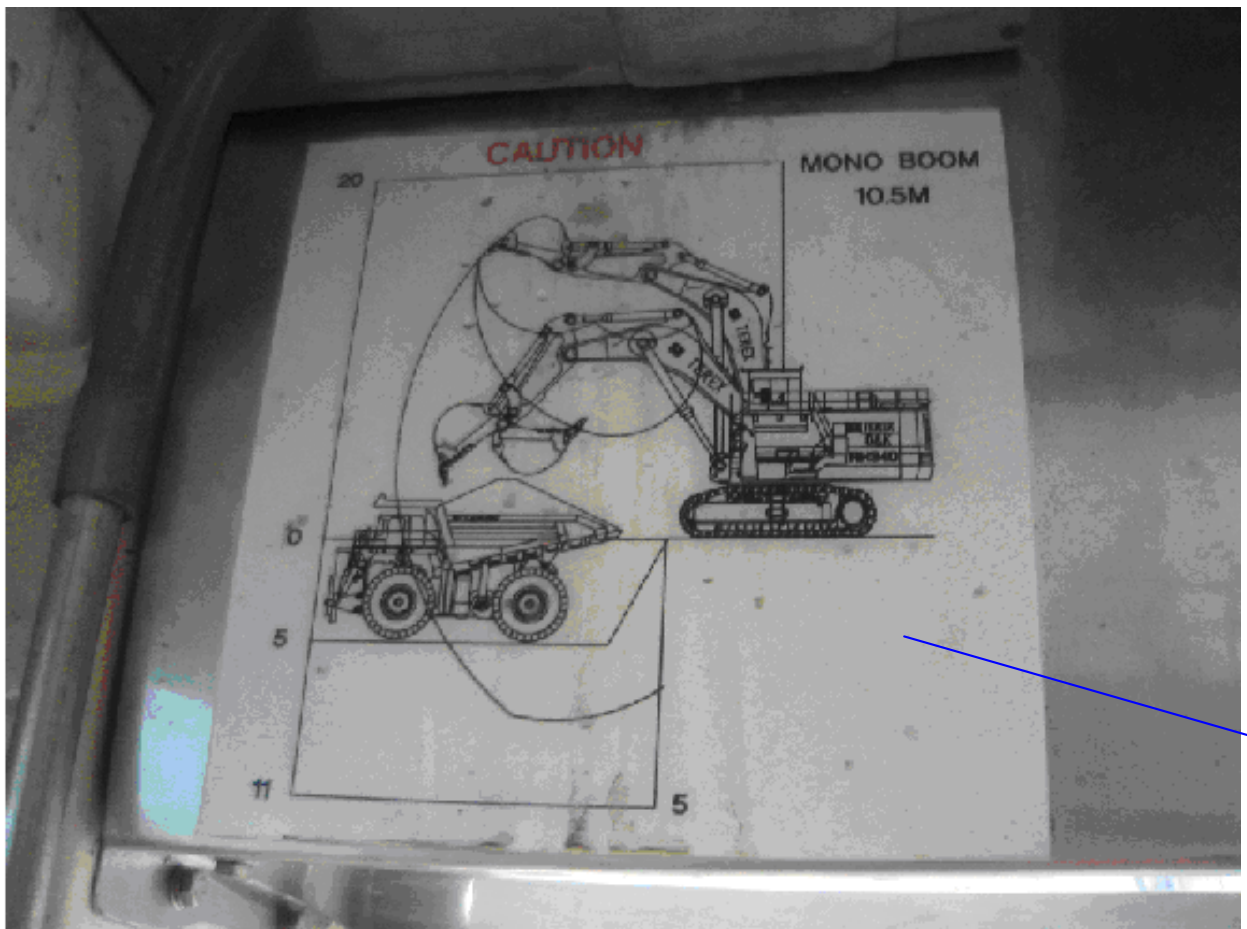
B33



22

CAB HEIGHT PLATE

B41



## CAMERA SYSTEM

B52

ITEM	QTY	UoM	PART NO	DESCRIPTION	PAGE NO.
1	1		LDA-15/17AL+	MONITOR - BAXALL	
2	1		RC QUAD	QUAD UNIT - BAXALL	
3	3		WV-CP242	CAMERA - PANASONIC	
4	3		WVLA61/2	LENSE - PANASONIC	
5	3		ECOSS	HOUSING - STRONGABUILT	
6	3		HDMPT2	MOUNT - STRONGABUILT	

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