

TM 215

# OWNER REGISTRATION

Machine Ref. No.: TM 215

Date: 9/97

## OWNER DETAIL:

Company: CONTRERAS HNOS. S.A. Tel: +54 1 342 0821  
Address: SAW MARTIN 140 Fax: +54 1 342 0683  
BUENOS AIRES Telex: \_\_\_\_\_  
ARGENTINA  
Contact Person: ING. CRESPO Tel. A/H: \_\_\_\_\_

## DEALER DETAIL:

Company: CPI. S.A. Tel: +54 1 328 5814  
Address: SUIPACHA 268 6º C Fax: +54 1 328 7980  
1255 BUENOS AIRES Telex: \_\_\_\_\_  
ARGENTINA  
Contact Person: ING. CALUET BOIS Tel. A/H: \_\_\_\_\_

## MACHINE DETAIL:

Model: PHARMAC 6000 Serial No.: 97216297

INSTALLATION TYPE: Mobile  Skid Mounted  Fixed

## APPLICATION DETAIL:

Rock Type: CANTO HONDADO Duty: \_\_\_\_\_

1. This machine has been commissioned in accordance with commissioning procedures contained in this manual.

2. Warranty commences from: 12/11/97

## Owner Representative:

Name: José Bastias

Signature: [Signature]

Date: 12-11-97

## Dealer/Distributor Representative:

Name: DANIEL GONZALEZ

Signature: [Signature]

Date: 12/11/97

MANUFACTURER  
COPY

# BARMAC OWNERS MANUAL CHECKLIST

Machine Ref No: TM215

Title Page with Distributor and Dealer Details	P402	<input checked="" type="checkbox"/>
Warranty	MD317	<input checked="" type="checkbox"/>
Machine/Rotor Data Forms (Completed)	P402	<input checked="" type="checkbox"/>
Owner Registration	MD433	<input checked="" type="checkbox"/>
Commissioning Check List	P402	<input checked="" type="checkbox"/>
Safety		<input checked="" type="checkbox"/>
Installation Details		<input checked="" type="checkbox"/>
Vibration Control Kit Manual	P284	<input checked="" type="checkbox"/>
Door Safety Interlock Instruction Manual	P282	<input checked="" type="checkbox"/>
Hydracascade Hydraulic Handpump Manual	P347	<input checked="" type="checkbox"/>
Hydracascade Electric/Hydraulic Pump Manual	P399	<input checked="" type="checkbox"/>
Base Water Spray and Non-Stick Liner Kits Manual	P435	<input checked="" type="checkbox"/>
Crane Manual		<input type="checkbox"/>
Starter Manual		<input checked="" type="checkbox"/>
Motor Manual		<input type="checkbox"/>
Any other relevant information pertaining to machine:		<input type="checkbox"/>
_____		<input type="checkbox"/>
_____		<input type="checkbox"/>
Parts and Accessories List		<input checked="" type="checkbox"/>
Operation and Maintenance Section		<input checked="" type="checkbox"/>
Soft Covered Copy of Operation and Maintenance Manual	P232	<input checked="" type="checkbox"/>
Bound Copy of Installation Booklet		<input checked="" type="checkbox"/>
Daily Log	P041	<input checked="" type="checkbox"/>
Machine File Copied		<input checked="" type="checkbox"/>
Dealer File Copied		<input checked="" type="checkbox"/>
Completed:		<input checked="" type="checkbox"/>

Signed: \_\_\_\_\_ *[Signature]*

Date: 3/9/97

# MACHINE DATA FORM

Machine Ref. No.: TM 215

Date: 9/97

Model: B6000 DUORACTOR

Please record Cycle and Serial numbers for all components as listed below.



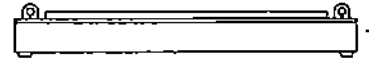
Hopper: 972043



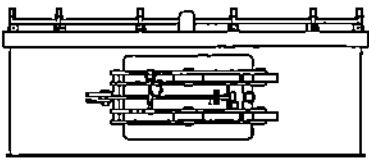
Cascade: 971801



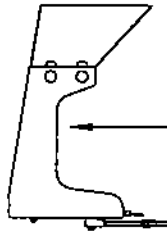
Roof: 971734



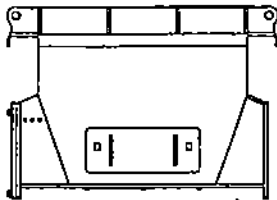
Cavity Ring: 972098



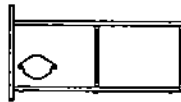
Crushing Chamber: \_\_\_\_\_ (9000 & 8000 models only)



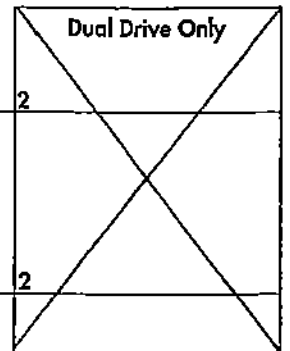
Motor Mount: 1 972027



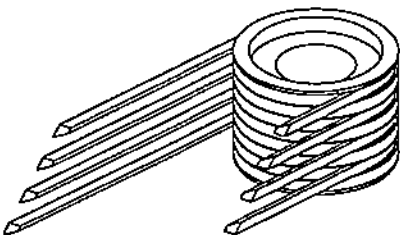
Base Serial No.: 972162



Transmission: 1 971760



## BELT DRIVE:



Belt Length: 3550

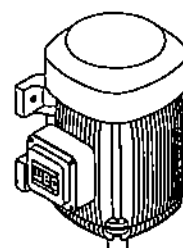
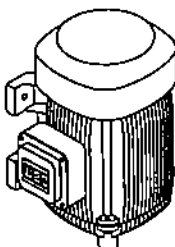
Belt Section: SPBX

Number of Belts: 6

Barmac Sheave ø: 250 No. Grooves: 6

Motor Sheave ø: 335 No. Grooves: 6

**MOTOR:**

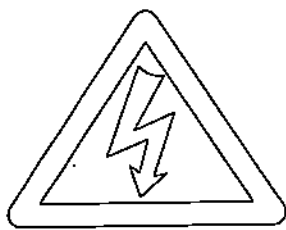


Motor 1: Brand: WEG  
 Serial No.: AI69944  
 Rated Power: 110kW  
 Volts: 415 Amps: 200  
 Hz: 50 RPM: 1480

Motor 2: (Dual Drive Only)  
 Serial No.: \_\_\_\_\_  
 Rated Power: \_\_\_\_\_

(For motor details see manufacturer's information included in this manual).

**MOTOR STARTER:**



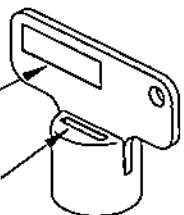
Start Method: SOFT STARTER  
 Manufacturer: ALCOM  
 Serial No.: 61004

(For motor starter details see manufacturer's information included in this manual).

**SAFETY INTERLOCK:**

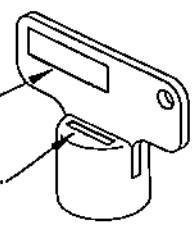
Shutout Key (at Starter Panel)

Key Code: T1L289  
 Key Serial No.: 352082



Access Key (at Timer Box)

Key Code: T1L289A  
 Key Serial No.: 352182



**VIBRATION SWITCH:**

Switch Brand: FIRST WERTLA  
 Model: 3171, 12VDC SOLENOID RESET  
 Serial No.: 42996 0

**CASCADE CONTROL:**

Method: HYDRAULIC CHOKE ADJUSTER  
 Details: HYDRAULIC HANDPUMP START

# SVEDALA



Svedala New Zealand Limited

## ROTOR PARTS LIST

Name: **Contreas HNOS**

Machine Ref No.: **TM 215**

Date: **2/9/97**

Rotor 1: Size: **Ø690**

Type: **Open Sided**

Serial No.: **977059**

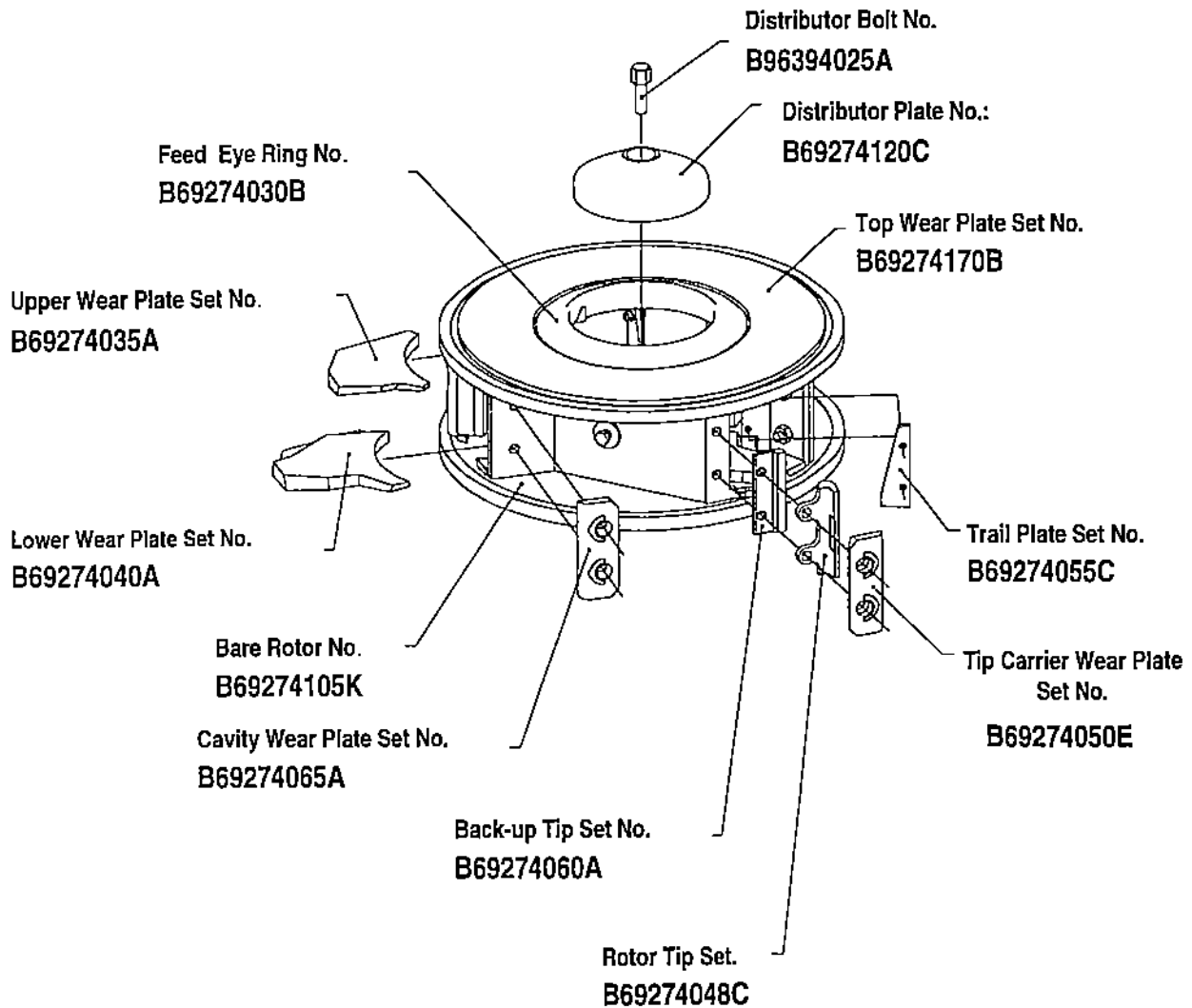
Taper Lock No.: **978076-14**

Rotor 2: Size: **Ø690**

Type: **Open Sided**


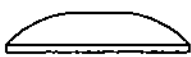


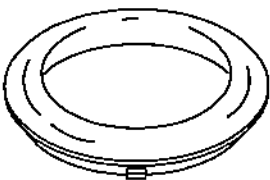
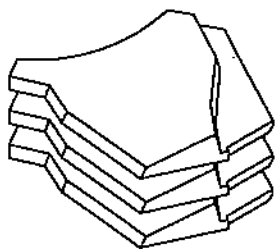
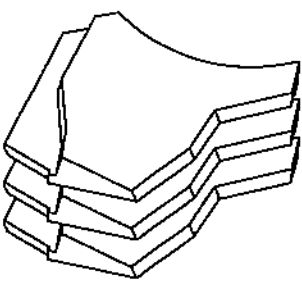
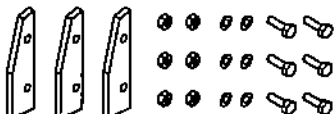
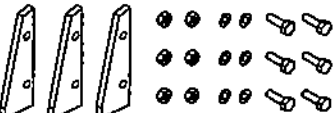
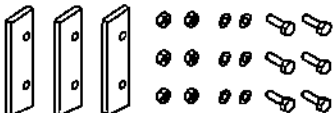
Serial No.: **977059**

Taper Lock No.: **978076-29**



## 6000 DUOPACTOR

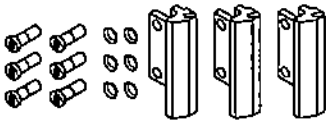
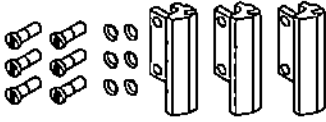
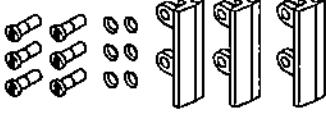
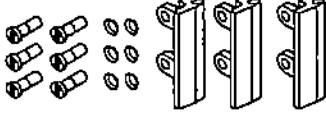
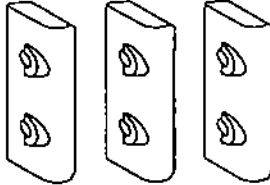
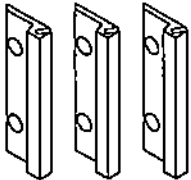
### Rotor Wear Parts

REPLACEABLE WEAR PART	DESCRIPTION	PART NO.
	<b>DISTRIBUTOR PLATE BOLT</b>	<b>B96394025A</b>
	<b>DISTRIBUTOR PLATE (Dome)</b>	<b>B69274020A</b>
	<b>DISTRIBUTOR PLATE (Flat)</b>	<b>B69274020B</b>
	<b>DISTRIBUTOR PLATE (Cone)</b>	<b>B69274020C</b>
	<b>690 FEED EYE RING</b>	<b>B69274030A</b>
	<b>690 UPPER WEAR PLATE SET</b> Includes 3 x 690 Upper Wear Plate    B69274036A	<b>B69274035A</b>
	<b>690 LOWER WEAR PLATE SET</b> Includes 3 x 690 Lower Wear Plate    B69274041A	<b>B69274040A</b>
	<b>TRAIL PLATE SET (Narrow)</b> Includes 3 x Trail Plate (Narrow)    B69274056A 1 x Trail Plate Bolt Set    B96394057A	<b>B69274055A</b>
	<b>TRAIL PLATE SET (Wide)</b> Includes 3 x Trail Plate (Wide)    B69274056B 1 x Trail Plate Bolt Set    B96394057A	<b>B69274055B</b>
	<b>TRAIL PLATE SET (Straight)</b> Includes 3 x Trail Plate (Straight)    B69274056C 1 x Trail Plate Bolt Set    B96394057A	<b>B69274055C</b>

# BARMAC

## 6000 DUOPACTOR

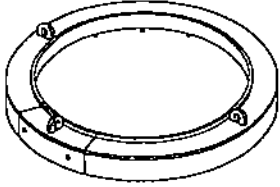

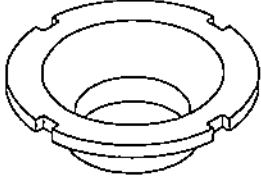
### Rotor Wear Parts

REPLACEABLE WEAR PART	DESCRIPTION	PART NO.
	<b>ROTOR TIP SET (Green)</b> Includes 3 x Rotor Tip 6 x Taper Bolt 6 x Copper Washer	<b>B69274048A</b> B69274047A B96394052C B96394053A
	<b>ROTOR TIP SET (Blue)</b> Includes 3 x Rotor Tip 6 x Taper Bolt 6 x Copper Washer	<b>B69274048B</b> B69274047B B96394052C B96394053A
	<b>ROTOR TIP SET (Yellow)</b> Includes 3 x Rotor Tip 6 x Taper Bolt 6 x Copper Washer	<b>B69274048C</b> B69274047C B96394052C B96394053A
	<b>ROTOR TIP SET (Red)</b> Includes 3 x Rotor Tip 6 x Taper Bolt 6 x Copper Washer	<b>B69274048D</b> B69274047D B96394052C B96394053A
	<b>TIP CARRIER WEAR PLATE SET</b> Includes 3 x Tip Carrier Wear Plate	<b>B69274050E</b> B69274051A
	<b>BACK-UP TIP SET (Replaceable)</b> Includes 3 x Back-up Tip	<b>B69274060A</b> B69274061A

# **BARMAC**

## **6000 DUOPACTOR**

### **Crusher Parts**


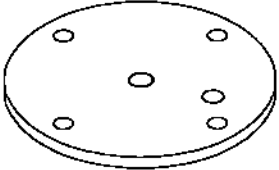
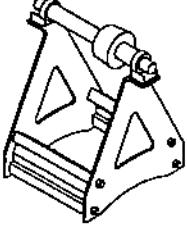
REPLACEABLE WEAR PART	DESCRIPTION	PART NO.
	CAVITY RING	B691S6000B
	CONTROL PLATE	B691S7070A
	FEED TUBE	B691S7040A



# **BARMAC**

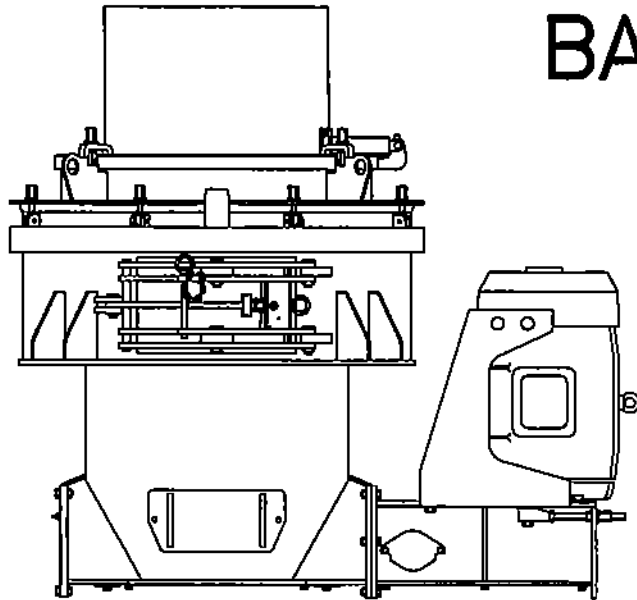
## **6000 DUOPACTOR**

### **Service Accessories**

REPLACEABLE WEAR PART	DESCRIPTION	PART NO.
	LIFTING EYE BOLT	B69AS10B
	ROTOR LIFTING PLATE	B69AS12B
	ROTOR BALANCE MACHINE	B69AS20

TM 215

# BARMAC B6000 DUOPACTOR INSTALLATION



## Single Feed (Hydracascade)

### Congratulations...

...on your purchase of a Svedala Barmac Rock-on-Rock VSI crusher. The Svedala Barmac VSI is the leader in Rock-on-Rock technology and will if installed correctly, be the easiest crusher in your plant to operate and service.

READ THIS BOOK PRIOR TO PREPARATION OF THE SITE and installation of the unit.

This book contains specific information on installation dimensions, SERVICE CONSIDERATIONS and technical specifications. THIS BOOK HAS BEEN PRODUCED TO SUPPLY THE NEW OWNER OF THE BARMAC WITH ALL OF THE INFORMATION required to install a Barmac to ensure that it will operate correctly and will be accessible to service.

If you consider the information is unclear or insufficient please contact your Barmac Representative.

NOTE: NOT ALL COMPONENTS DEPICTED IN THIS BOOKLET ARE SUPPLIED WITH THE STANDARD BARMAC - CHECK WITH YOUR BARMAC REPRESENTATIVE FOR DETAILS

### CONTENTS :

PAGE 2 - GENERAL ARRANGEMENT	A general arrangement of the crusher giving overall reference dimensions. Feed and discharge details are also detailed here.	(Ref.60SFSD1-13/5/96)
PAGE 3 - CRUSHER SUPPORT OPTIONS	Details of standard support arrangements in various configurations. Dynamic force data also included for your reference.	(Ref.60SFSD3-10/8/96)
PAGE 4 - CRUSHER COMPONENT WEIGHTS	Total operating weight and individual weights of main crusher components. Also included are internal component lift out heights for service reference.	(Ref.60SFSD4-10/6/96)
PAGE 5 - CRUSHER SERVICE CONSIDERATIONS	It is important that when installed there is adequate access for service. This page contains details of all aspects of the installation that affect the ability to service the crusher.	(Ref.60SFSD5-10/6/96)
PAGE 6 - CRUSHER ON-SITE ASSEMBLY	Final assembly of the crusher is carried out on site. This page gives assembly instructions and bolt torques.	(Ref.60SFSD6-10/6/96)
PAGE 7 - CRUSHER DRIVE DETAILS	Fitting dimensions for pulleys (sheaves) and maximum power and speed ratings.	(Ref.60SFSD7-14/6/96)
PAGE 8 - SAFETY INTERLOCK AND STARTER	The safety interlock system must be incorporated into the electrical starter of the crusher. Included are basic starter requirements, an explanation of the interlock system and fitting instructions for the interlock.	(Ref.60SFSD8-14/6/96)
PAGE 9 - VIBRATION CONTROL	The Barmac warranty is contingent on this cutout switch being installed and operating correctly.	(Ref.60SFSD9-11/6/96)
PAGE 10 - HYDRASCASCADE CONTROL	A variety of options are given for controlling the cascade ratio. These range from a manual handpump or in smaller models threaded rod adjustment to remote control or interfacing with external control devices.	(Ref.60SFSD10-14/6/96)



Svedala New Zealand Limited  
Mangawhero Road, Private Bag 4071, Matamoras, New Zealand  
Telephone +84 7 8855699 Facsimile +84 7 8855244

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BARMAC B6000 DUOPACTOR  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
INTRODUCTION AND CONTENTS

DRAWN GARTH TAYLOR

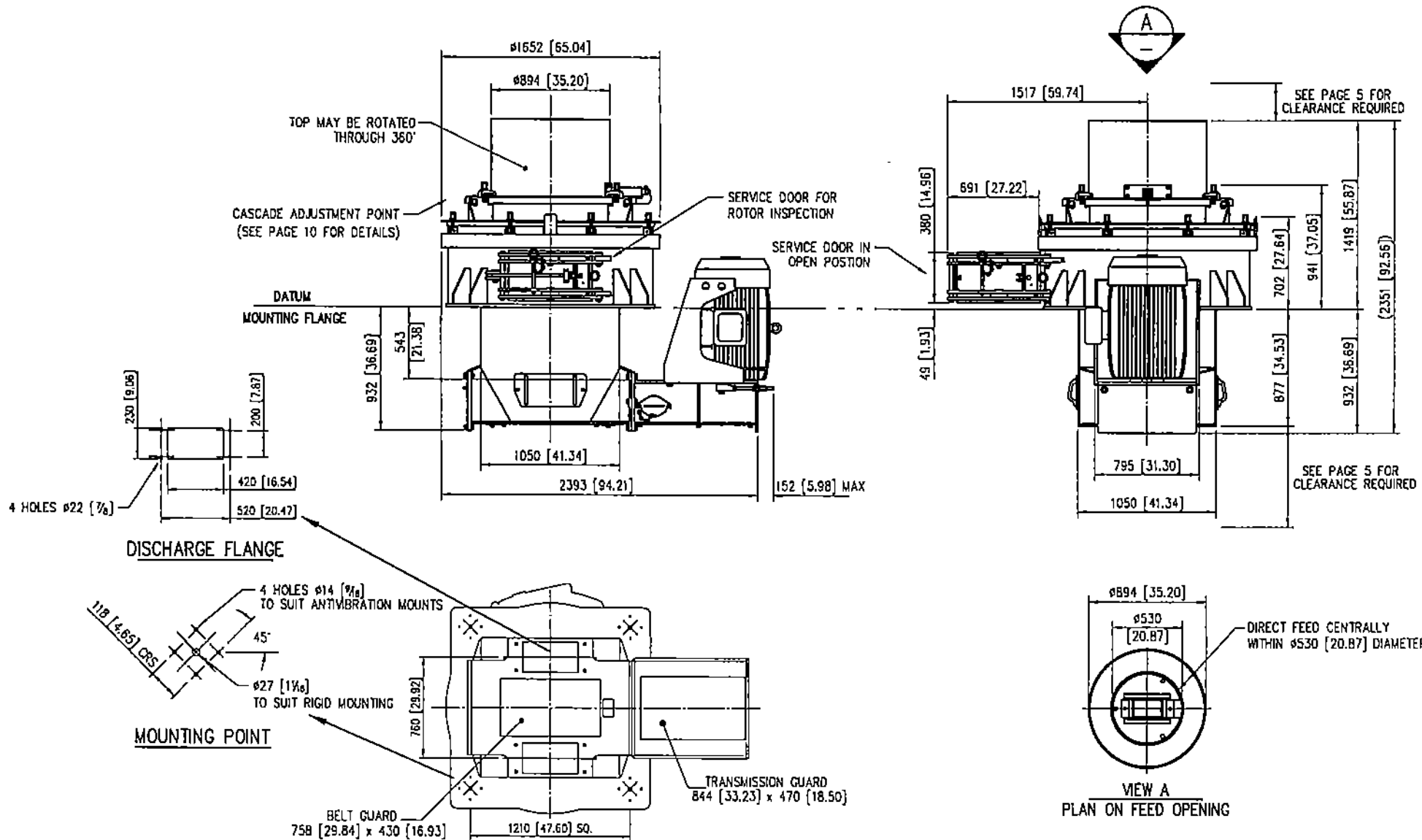
CHECKED *T. W.*

DIMENSIONS  
mm [INCH] PAGE 1 OF 10



DRAWING DATE  
10 / 6 / 96

DRAWING NUMBER  
INS 60SFSD1



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 Telephone +64 7 8885699 Facsimile +64 7 8885214

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**BARMAC B6000 DUOPACTOR**  
**SINGLE FEED / SINGLE DRIVE INSTALLATION**  
**GENERAL ARRANGEMENT**

DRAWN GARTH TAYLOR  
 CHECKED *T. Taylor*  
 DIMENSIONS  
 mm [INCH]  
 PAGE 2 OF 10

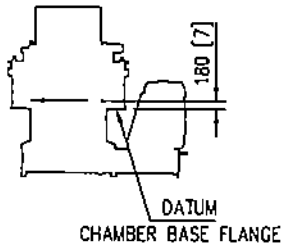
DRAWING DATE 13 / 5 / 96  
 DRAWING NUMBER INS 60SFSD2

### DYNAMIC FORCES

ANY OUT OF BALANCE LOAD ON THE SUPPORT STRUCTURE CAUSED BY ROTOR IMBALANCE WILL BE IN A HORIZONTAL PLANE APPROXIMATELY 180 (7.09) ABOVE THE CRUSHER MOUNTING FLANGE.

THE MAGNITUDE AND FREQUENCY OF SUCH A LOAD FOR A B6000 DUOPACTOR FITTED WITH A 110kW (150HP) MOTOR AND A 690 ROTOR WILL BE AS FOLLOWS:

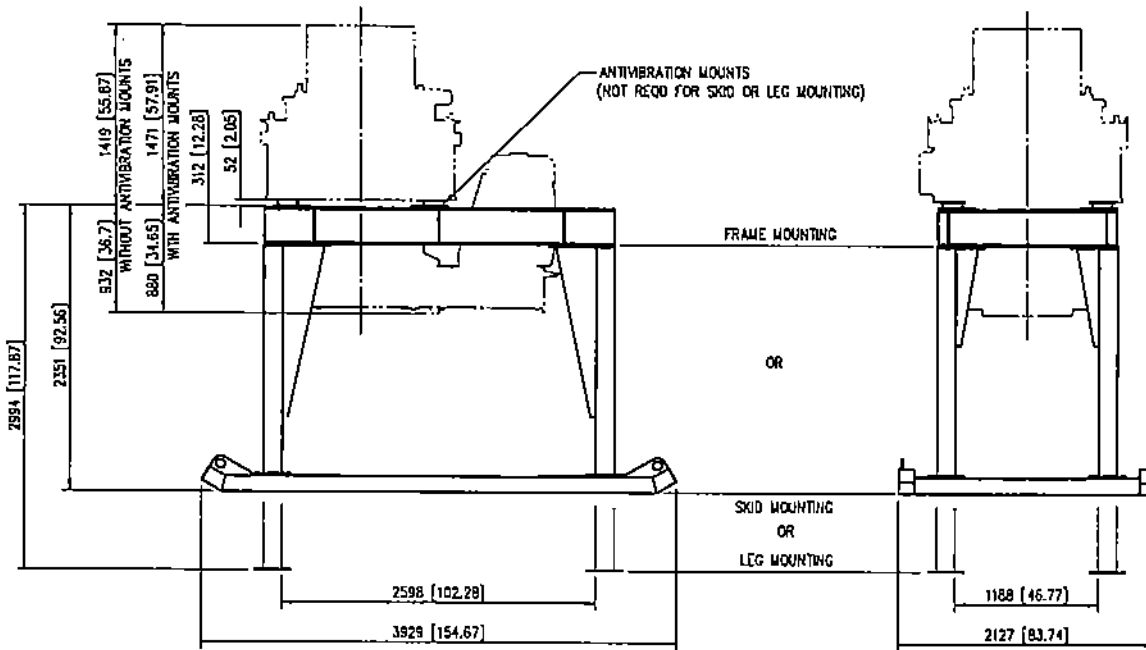
	ROTOR SPEED (MAXIMUM)	ROTOR SPEED (MINIMUM)
SPEED	2500 RPM	1400 RPM
FREQUENCY	42 Hz	23 Hz
IMBALANCE LOAD AT NORMAL RUNNING	17 kN 3822 lbf	5.2 kN 1169 lbf
IMBALANCE LOAD IF ROTOR LOSES TIP ASSEMBLY (OPERATOR NEGLIGENCE)	170.5 kN 38332 lbf	52 kN 11691 lbf
TORQUE AT FULL LOAD	420 Nm 315 ft/lb	761 Nm 561 ft/lb



LEGS MANUFACTURED BY SVEDALA ARE RECOMMENDED AS THEY ARE THE CORRECT STIFFNESS FOR OPERATION WITH THE SVEDALA VIBRATION SWITCH.

THE BARMAC MUST BE ALLOWED TO MOVE IN A HORIZONTAL PLANE  $\pm 5$ mm (3/16") OR FATIGUE DAMAGE TO THE BARMAC OR SUPPORT FRAME MAY RESULT.

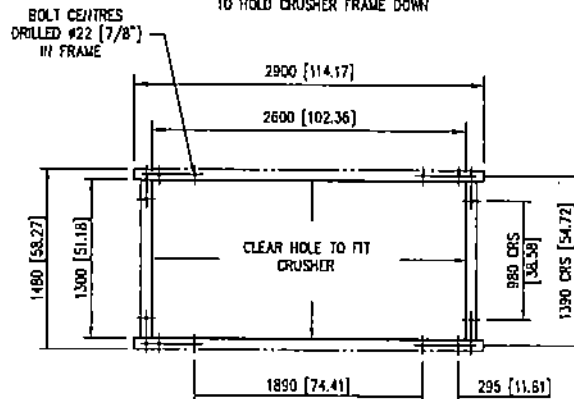
IF THE UNIT IS MOUNTED ON A VERY RIGID SUPPORT STRUCTURE SUCH AS CONCRETE OR HEAVILY BRACED STEEL IT MUST BE ISOLATED ON THE SUPPORT FRAME WITH ANTIVIBRATION MOUNTS AS SHOWN. SVEDALA RECOMMEND THAT 4 OFF "TRELLEBORG" NOVBRA SAW 125 HARDNESS B RUBBER MOUNTS 148 x 148 x 52 (5.8 x 5.8 x 2.0) ARE USED.



### FRAME MOUNTING

FIXING BOLT DIMENSIONS

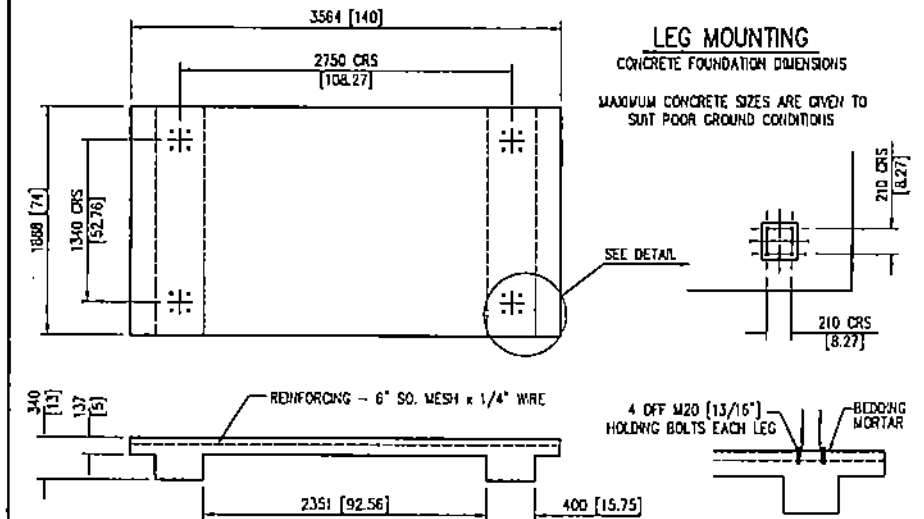
12 BOLTS M20 (13/16") REQUIRED TO HOLD CRUSHER FRAME DOWN



### LEG MOUNTING

CONCRETE FOUNDATION DIMENSIONS

MAXIMUM CONCRETE SIZES ARE GIVEN TO SUIT POOR GROUND CONDITIONS



SVEDALA



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BARMAC B6000 DUOPACTOR  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
CRUSHER SUPPORT OPTIONS

DRAWN GARTH TAYLOR

CHECKED

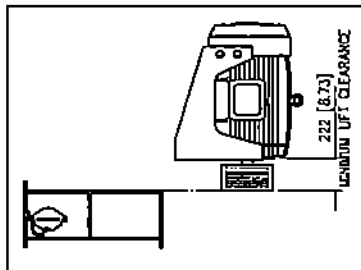
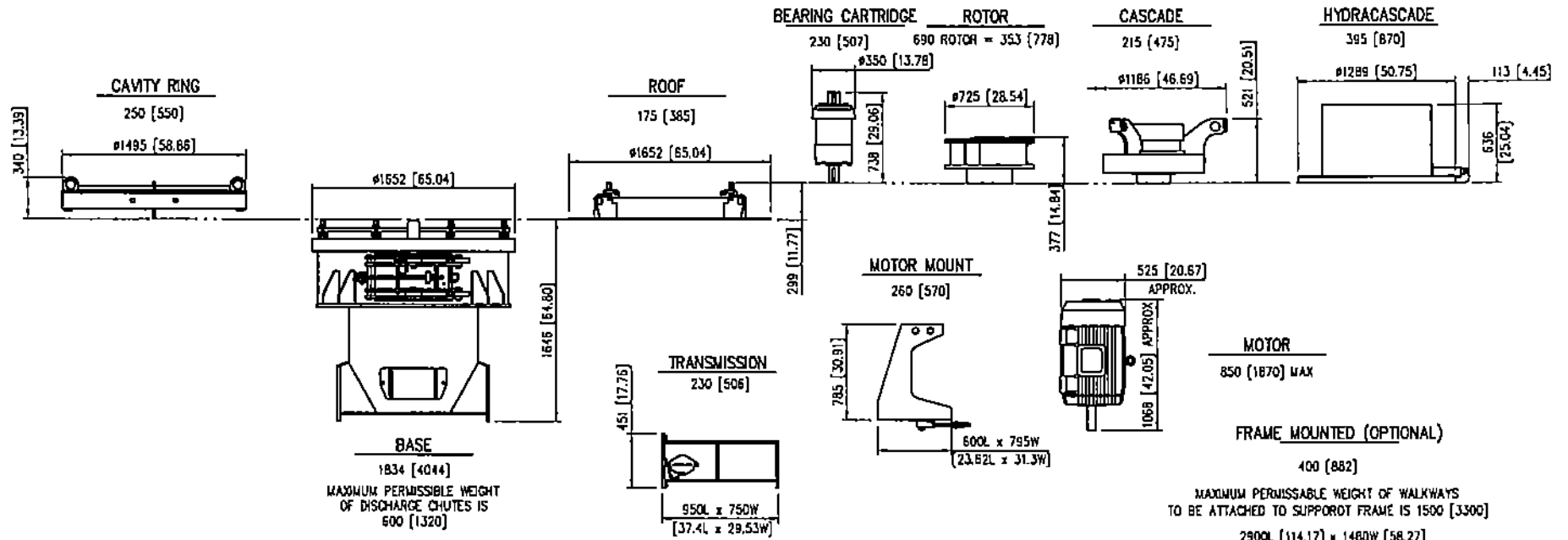
DIMENSIONS  
mm (INCH)

PAGE 3 OF 10



DRAWING DATE  
10 / 6 / 96

DRAWING NUMBER  
INS 60SFSD3



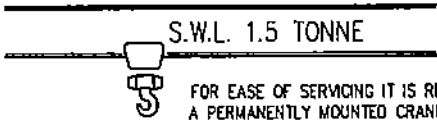
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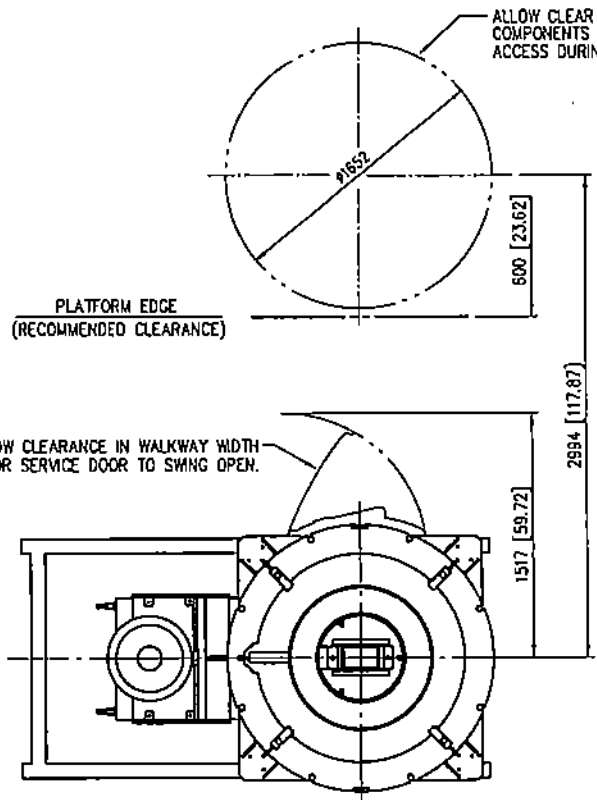
**BARMAC B6000 DUOPACTOR**  
**SINGLE FEED / SINGLE DRIVE INSTALLATION**  
**CRUSHER COMPONENT WEIGHTS**

DRAWN GARTH TAYLOR  
CHECKED T. [Signature]  
DIMENSIONS mm [INCH] PAGE 4 OF 10

**BARMAC**  
DRAWING DATE 10 / 6 / 96  
DRAWING NUMBER INS 60SFSD4



FOR EASE OF SERVICING IT IS RECOMMENDED THAT A PERMANENTLY MOUNTED CRANE OR MONORAIL BE LOCATED ABOVE THE CRUSHER.



CONVEYORS AND FEED CHUTES SHOULD BE POSITIONED TO ALLOW FOR SERVICE ACCESSIBILITY. THE DIMENSION SHOWN IS THE MINIMUM. IF THIS CANNOT BE ACHIEVED THEN THE CONVEYOR OR CHUTE SHOULD BE MOVEABLE OR REMOVABLE.

ROTOR INSPECTION AND SERVICE DOOR MUST BE ACCESSIBLE FORM WALKWAY.

GREASE LUBRICATION POINT LEAVE ROOM FOR ACCESS

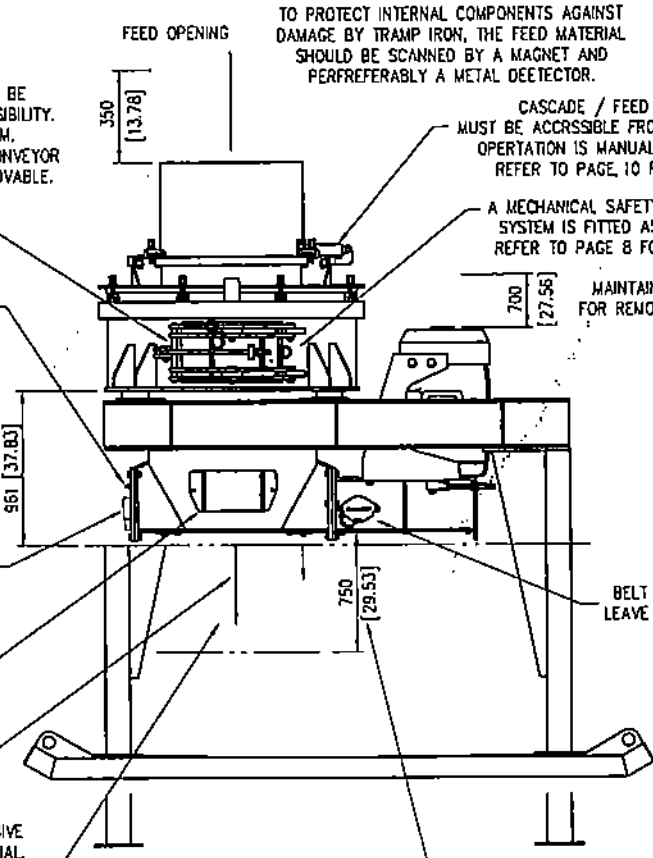
SUGGESTED HEIGHT OF WALKWAY.

THE WARRANTY IS CONTINGENT UPON A CORRECTLY INSTALLED AND OPERATING VIBRATION ACTIVATED CUTOFF SWITCH. REFER TO PAGE 9 FOR DETAILS.

DISCHARGE CHUTE ACCESS LEAVE ROOM FOR ACCESS BOTH SIDES

WASTE GREASE DISCHARGE

DISCHARGE CHUTES MUST GIVE UNIMPEDED FLOW OF MATERIAL. (MINIMUM DISCHARGE HEIGHT) (475mm FOR UNIMPEDED FLOW.)



TO PROTECT INTERNAL COMPONENTS AGAINST DAMAGE BY TRAMP IRON, THE FEED MATERIAL SHOULD BE SCANNED BY A MAGNET AND PERFERFERABLY A METAL DEETECTOR.

CASCADE / FEED CONTROL MUST BE ACCRSIBILE FROM A WALKWAY IF OPERATION IS MANUALLY CONTROLLED REFER TO PAGE 10 FOR DETAILS.

A MECHANICAL SAFETY INTERLOCK SYSTEM IS FITTED AS STANDRD REFER TO PAGE 8 FOR DETAILS.

MAINTAIN CLEARANCE FOR REMOVAL OF MOTOR

BELT INSPECTION PORTS LEAVE ROOM FOR ACCESS.

CONVEYORS AND DISCHARGE CHUTES SHOULD BE MOVEABLE OR REMOVABLE TO PROVIDE ROOM FOR PULLEY REMOVAL AND BELT REPLACEMENT. MINIMUM SERVICE CLEARANCE INDICATED.



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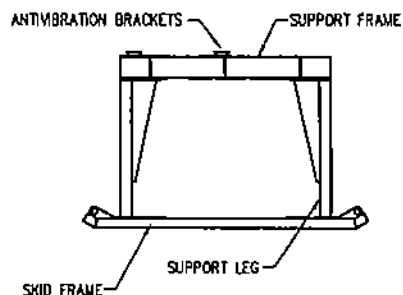
BARMAC B6000 DUOPACTOR  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
CRUSHER SERVICE CONSIDERATIONS

DRAWN GARTH TAYLOR  
CHECKED *TJA*  
DIMENSIONS mm [INCH] PAGE 5 OF 10



DRAWING DATE 10 / 6 / 96  
DRAWING NUMBER INS 60SFSD5

## 1. SUPPORT FRAME ASSEMBLY



- IF ANTI-VIBRATION MOUNTS ARE REQUIRED, FIT THESE TO THE TOP OF THE SUPPORT FRAME USING THE M12 x 50 BOLTS AND HALF OF THE FLAT AND SPRING WASHERS PROVIDED IN BOLT SET B90AP92. TORQUE TO 60Nm (50 ft lb).
- IF SUPPORT LEGS ARE REQUIRED FIT THESE TO THE SUPPORT FRAME USING THE M20 x 80 BOLTS, FLAT AND SPRING WASHERS PROVIDED IN BOLT SET B96AP12. TORQUE TO 285 Nm (220 ft lb).
- IF SKID FRAME IS REQUIRED, BOLT THE FRAME ASSEMBLY TO THIS WITH THE M20 x 55 BOLTS, FLAT AND SPRING WASHERS PROVIDED IN BOLT SET B96AP22. TORQUE TO 285Nm (220 ft lb).

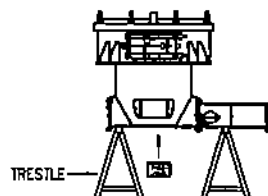
NOTE: IF THE LEGS AND SKID ARE NOT FITTED BOLT THE SUPPORT FRAME INTO YOUR OWN SUPPORT STRUCTURE NOW.



## 2. TRANSMISSION FITTING

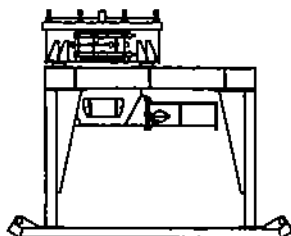
ENSURE THE MATING SURFACES OF THE FLANGES ARE CLEAN, FLAT AND FREE FROM RUST. BOLT THE TRANSMISSION ASSEMBLY ONTO THE BASE ASSEMBLY USING THE M20 x 65 BOLTS WASHERS PROVIDED IN BOLT SET B601S1022A TORQUE TO 285 Nm (220 ft lb).  
NOTE: THE TRANSMISSION ASSEMBLY MAY BE FITTED TO THE RIGHT OR LEFT HAND SIDE RELATIVE TO THE SERVICE DOOR AS REQUIRED.

## 3. BARMAC PULLEY



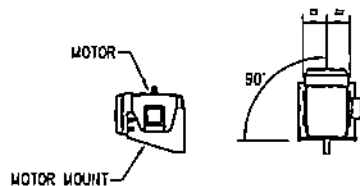
SUPPORT THE BASE ASSEMBLY ON TRESTLES AND FIT THE BARMAC PULLEY TO THE BOTTOM OF THE SHAFT.  
REFER TO PAGE 7 FOR APPROXIMATE FITTED HEIGHT OF PULLEY. FOLLOW PULLEY MANUFACTURERS FITTING PROCEDURE FOR FITTING OF THE TAPERLOCKS.

## 4. BASE FITTING



LOWER THE BASE ASSEMBLY INTO THE SUPPORT FRAME. IF ANTI-VIBRATION MOUNTS ARE FITTED, USE THE M12 x 35 BOLTS, FLAT AND SPRING WASHERS. FROM THE BOLT SET B90AP92 TO AFFIX THE BASE. TORQUE TO 60Nm (50 ft lb) OTHERWISE USE THE 4 M24 x 85 BOLTS, FLAT AND SPRING WASHERS PROVIDED IN BOLT SET B59AP03 TO HOLD THE BASE TO THE SUPPORT FRAME. TORQUE TO 490 Nm (380 ft lb).

## 5. MOTOR FITTING



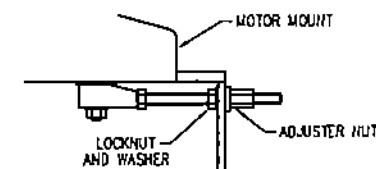
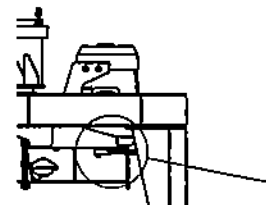
BOLT THE MOTOR TO THE MOTOR MOUNT USING THE APPROPRIATE BOLT SIZES FOR THE MOTOR BEING USED.  
IF THE MOTOR MOUNT HAS NOT BEEN PREDRILLED ALIGN MOTOR AS SHOWN ON PAGE 7 OF THIS BOOKLET AND DRILL THE HOLES REQUIRED.  
NOTE: HARDENED WASHERS SHOULD BE USED IN SECURING THE MOTOR TO THE MOTOR MOUNT.

## 6. MOTOR PULLEYS

FIT THE MOTOR SHEAVES TO THE MOTOR SHAFT.  
REFER TO PAGE 7 FOR APPROXIMATE FITTED HEIGHT OF PULLEY. FOLLOW PULLEY MANUFACTURERS FITTING PROCEDURE FOR FITTING OF THE TAPERLOCKS.

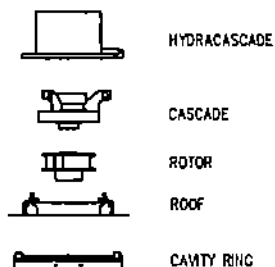
## 7. MOTOR MOUNT FITTING

LOWER THE MOTOR & MOTOR MOUNT ASSEMBLY ONTO THE TRANSMISSION. FIT THE ADJUSTER RODS AS SHOWN. PUSH THE ASSEMBLY TO THE CRUSHER END OF THE ADJUSTMENT FOR BELT FITTING.



## 8. BELT FITTING

FIT THE BELTS BETWEEN THE BARMAC AND MOTOR PULLEY.  
REFER TO OPERATORS MANUAL FOR DETAILS OF FITTING AND TENSIONING. ADJUST HEIGHT OF PULLEYS ON SHAFT IF REQUIRED SO THAT BOTH ARE ALIGNED. MAXIMUM ALLOWABLE MISALIGNMENT = 2.85 [0.11] AT PULLEY CENTERS



## 9. CRUSHER TOP FITTING

DISASSEMBLE THE CRUSHER TOP HALF IF REQUIRED TO THE MAIN ASSEMBLIES AS SHOWN.

## 10. FINAL ASSEMBLY

REFER TO OPERATORS MANUAL FOR ASSEMBLY INSTRUCTIONS RELATING TO THE REMAINDER OF THE CRUSHER COMPONENTS.

NOTE: IT IS POSSIBLE TO ASSEMBLE THE CRUSHER COMPONENTS IN ANY ORDER. THESE INSTRUCTIONS ASSUME ONLY LIGHT LIFTING GEAR IS AVAILABLE AND WILL MAKE THE ASSEMBLY STRAIGHTFORWARD AND TROUBLE FREE.



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BARMAC B6000 DUOPACTOR  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
CRUSHER ON-SITE ASSEMBLY

DRAWN GARTH TAYLOR

CHECKED *TL*

DIMENSIONS  
mm [INCH]

PAGE 6 OF 10

**BARMAC**

DRAWING DATE  
10 / 6 / 96

DRAWING NUMBER  
INS 60SFSD6

# BARMAC

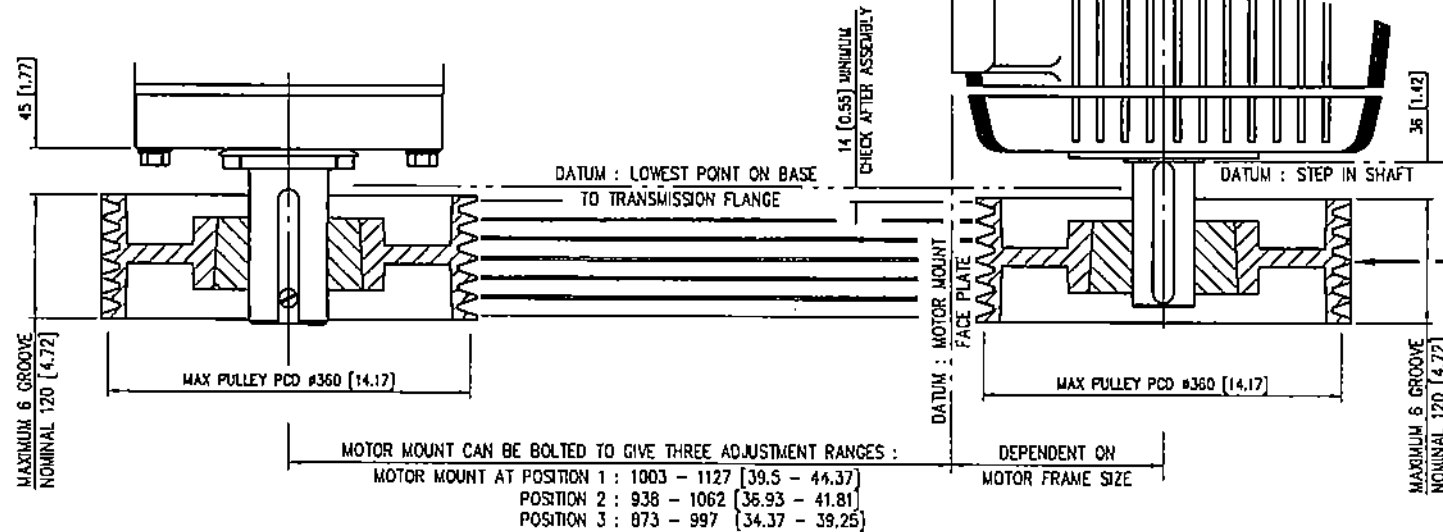
MAXIMUM SPEED = 2500 RPM

MOMENT OF INERTIA : 690 ROTOR = 22 Kgm<sup>2</sup> [526 lbf<sup>2</sup>]  
 PLUS DRIVE TRAIN = 3.5 Kgm<sup>2</sup> APPROX. [83.7 lbf<sup>2</sup>]

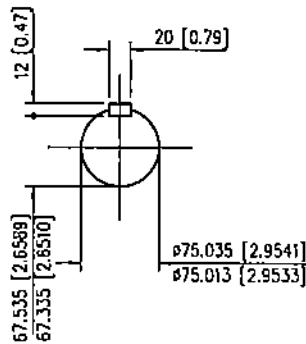
## MOTOR SIZE

MAXIMUM POWER = 110 kW [150 HP]  
 MAXIMUM FRAME SIZE = IEC 280 [NEMA 445]

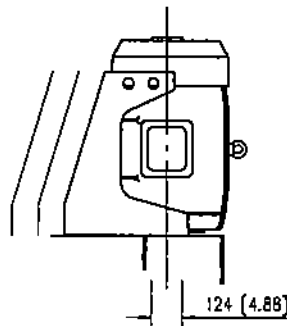
IF A LARGER FRAME SIZE IS NECESSARY TO SUPPLY THE  
 REQUIRED POWER CONSULT SVEDALA NEW ZEALAND TO  
 CONFIRM COMPATIBILITY.



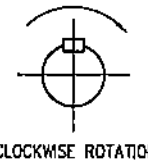
THE FOLLOWING SHAFT LOADINGS ARE APPROXIMATE MAXIMUMS GENERATED BY A 110kW [150HP] MOTOR WITH A 6 GROOVE DRIVE TRIAN.  
 11kN HORIZONTAL DYNAMIC SHAFT LOAD [2469 lbf]  
 12kN HORIZONTAL STATIC SHAFT LOAD [2693 lbf]  
 0.55kN VERTICAL END THRUST [123lbf]



BARMAC SHAFT END DETAIL



POWER CABLE MUST BE ABLE TO FLEX WITHIN ADJUSTMENT RANGE



MOTOR SHAFT VIEW FROM END

## MOTOR REQUIREMENTS

VERTICAL SHAFT DOWN - MOUNTING TYPE V5  
 CYLINDRICAL ROLLER BEARING IN DRIVE END - C3  
 CLEARANCE, SHAFT MATERIAL AISI 4140 RECOMMENDED  
 FRAME MATERIAL 200 MPa MINIMUM STRENGTH  
 IP55 PROTECTION  
 CLASS F INSULATION  
 THERMISTOR PROTECTION



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 SINGLE FEED / SINGLE DRIVE INSTALLATION  
 CRUSHER DRIVE DETAILS

DRAWN GARTH TAYLOR

CHECKED *T. L. Taylor*

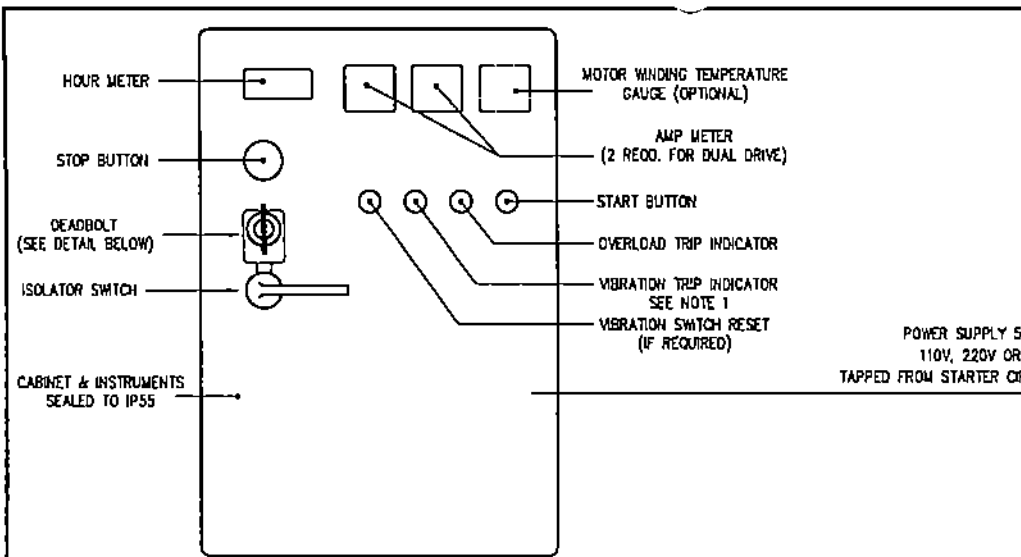
DIMENSIONS  
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 14 / 6 / 96

DRAWING NUMBER  
 INS 60SFSD7



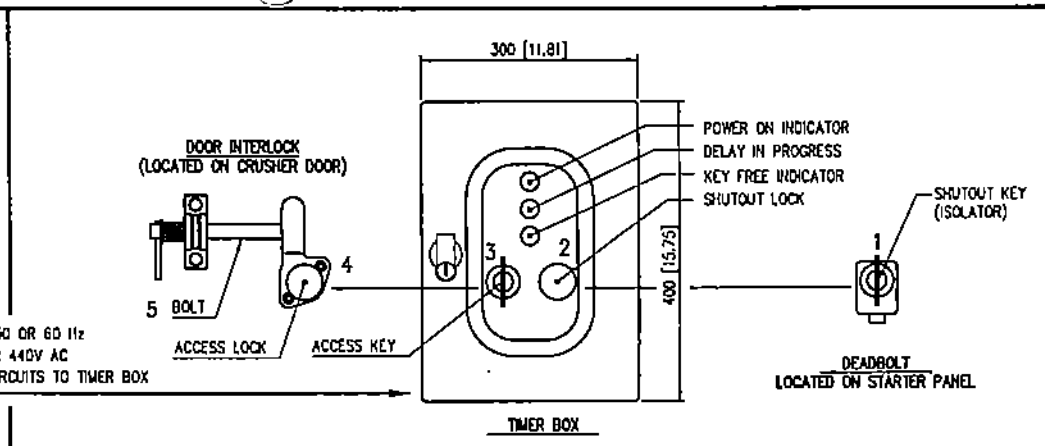


**MOTOR STARTER**

RECOMMENDED MINIMUM REQUIREMENTS SHOWN

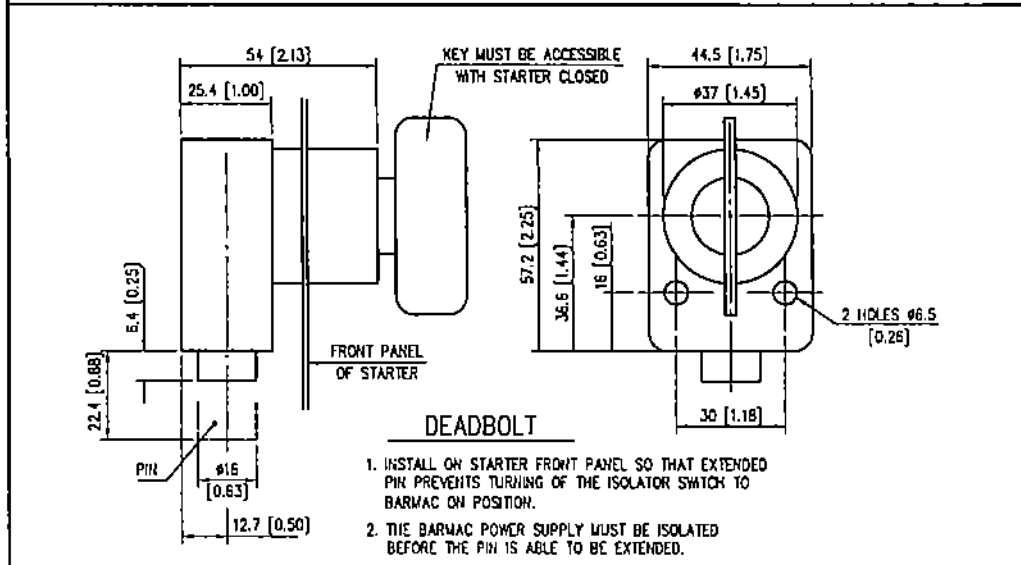
ALSO : - SEMICONDUCTOR FUSES  
 - CAPABLE OF 2 STARTS PER HOUR  
 - RAMP UP TIME OF MINIMUM 15 SEC

SEE PAGE 9 FOR INFORMATION ON INTEGRATION OF THE VIBRATION SWITCH TO THE CONTROL SYSTEM

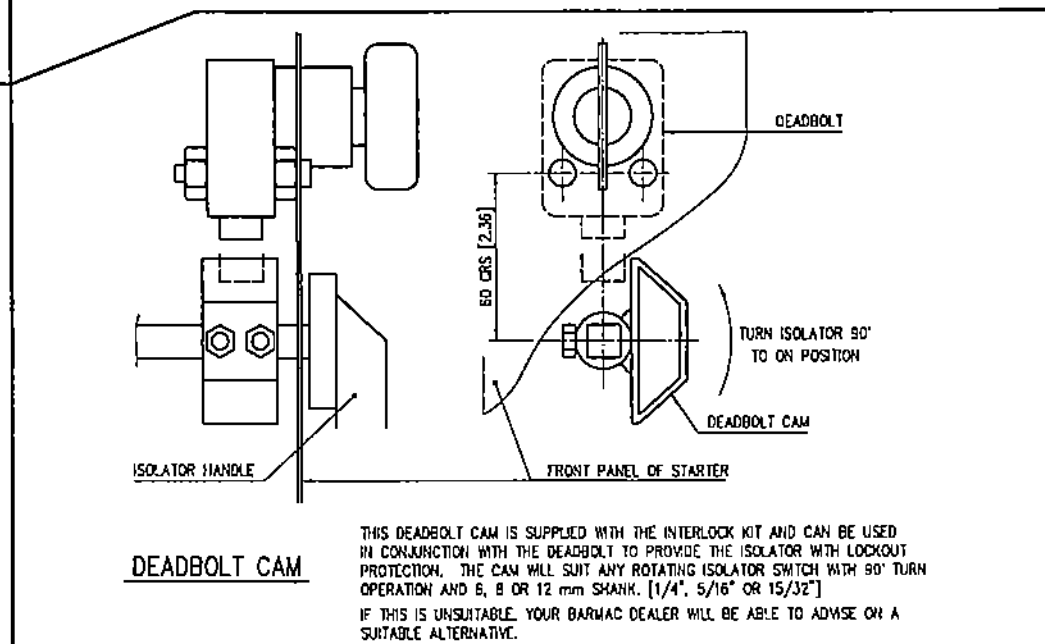


**SAFETY INTERLOCK SEQUENCE OF OPERATION**

- FOR WIRING AND TESTING DETAILS, REFER TO THE MANUAL SUPPLIED WITH THE INTERLOCK KIT
1. TURN SHUTOFF KEY IN DEADBOLT AND REMOVE KEY.
  2. PUT SHUTOFF KEY IN SHUTOFF LOCK AND TURN.
  3. AFTER TIME DELAY HAS ELAPSED, TURN AND REMOVE ACCESS KEY.
  4. PUT ACCESS KEY IN ACCESS LOCK AND TURN.
  5. RELEASE BOLT AND OPEN DOOR.
- TO CLOSE DOOR, ENGAGE BOLT AND TRANSFER KEYS THROUGH REVERSE SEQUENCE. (TIME DELAY WILL NOT ACTIVATE IN REVERSE SEQUENCE.)



1. INSTALL ON STARTER FRONT PANEL SO THAT EXTENDED PIN PREVENTS TURNING OF THE ISOLATOR SWITCH TO BARMAC ON POSITION.
2. THE BARMAC POWER SUPPLY MUST BE ISOLATED BEFORE THE PIN IS ABLE TO BE EXTENDED.



**DEADBOLT CAM**

THIS DEADBOLT CAM IS SUPPLIED WITH THE INTERLOCK KIT AND CAN BE USED IN CONJUNCTION WITH THE DEADBOLT TO PROVIDE THE ISOLATOR WITH LOCKOUT PROTECTION. THE CAM WILL SUIT ANY ROTATING ISOLATOR SWITCH WITH 90° TURN OPERATION AND 6, 8 OR 12 mm SHANK. [1/4", 5/16" OR 15/32"]

IF THIS IS UNSUITABLE, YOUR BARMAC DEALER WILL BE ABLE TO ADVISE ON A SUITABLE ALTERNATIVE.

**SVEDALA**

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**BARMAC B6000 DUOPACTOR**

**SINGLE FEED / SINGLE DRIVE INSTALLATION**

**SAFETY INTERLOCK AND STARTER**

DRAWN **GARTH TAYLOR**

CHECKED *T. Taylor*

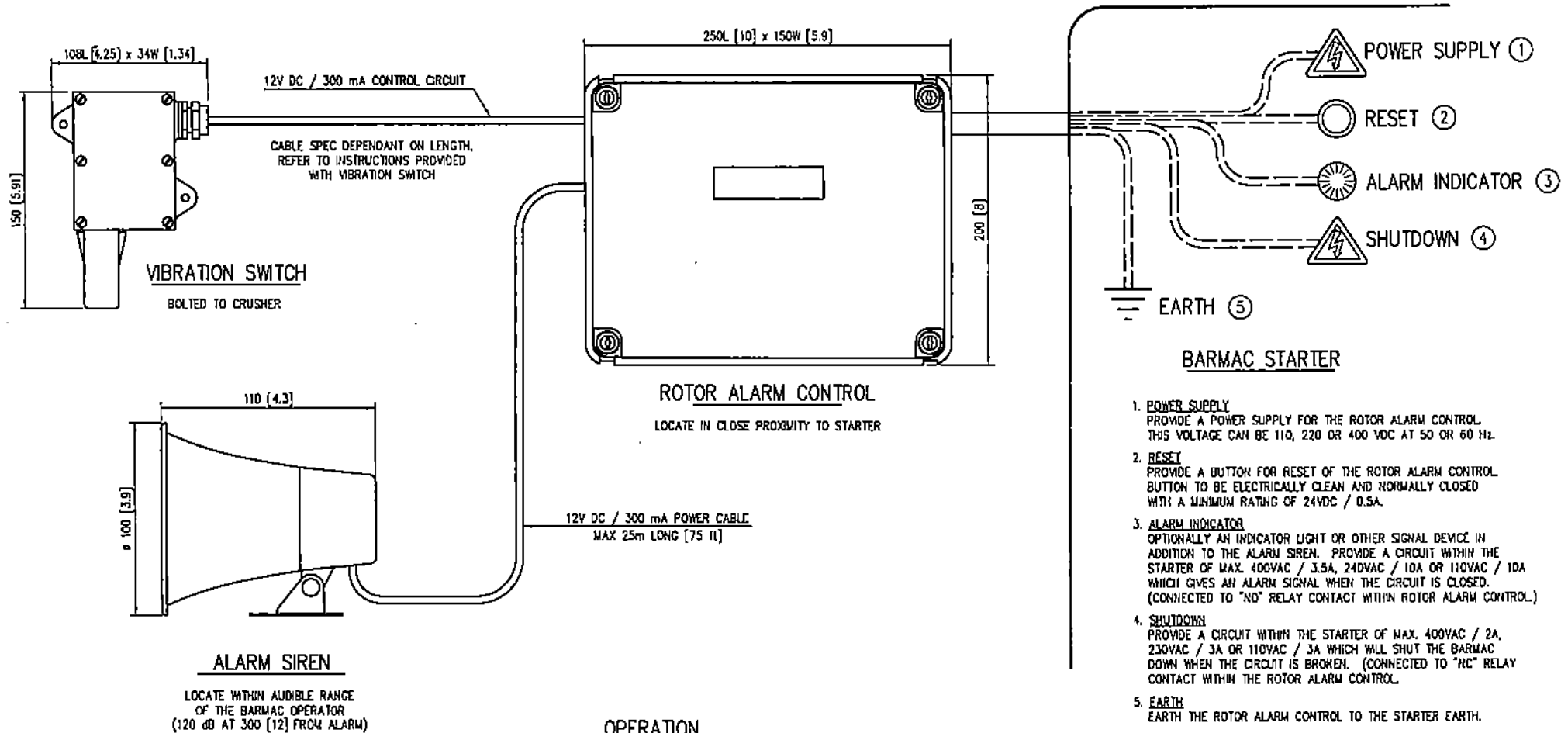
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PAGE **8** OF **10**

**BARMAC**

DRAWING DATE **14 / 5 / 96**

DRAWING NUMBER **INS 60SFSD8**



1. **POWER SUPPLY**  
PROVIDE A POWER SUPPLY FOR THE ROTOR ALARM CONTROL. THIS VOLTAGE CAN BE 110, 220 OR 400 VDC AT 50 OR 60 Hz.
2. **RESET**  
PROVIDE A BUTTON FOR RESET OF THE ROTOR ALARM CONTROL. BUTTON TO BE ELECTRICALLY CLEAN AND NORMALLY CLOSED WITH A MINIMUM RATING OF 24VDC / 0.5A.
3. **ALARM INDICATOR**  
OPTIONALLY AN INDICATOR LIGHT OR OTHER SIGNAL DEVICE IN ADDITION TO THE ALARM SIREN. PROVIDE A CIRCUIT WITHIN THE STARTER OF MAX. 400VAC / 3.5A, 240VAC / 10A OR 110VAC / 10A WHICH GIVES AN ALARM SIGNAL WHEN THE CIRCUIT IS CLOSED. (CONNECTED TO "NO" RELAY CONTACT WITHIN ROTOR ALARM CONTROL.)
4. **SHUTDOWN**  
PROVIDE A CIRCUIT WITHIN THE STARTER OF MAX. 400VAC / 2A, 230VAC / 3A OR 110VAC / 3A WHICH WILL SHUT THE BARMAC DOWN WHEN THE CIRCUIT IS BROKEN. (CONNECTED TO "NC" RELAY CONTACT WITHIN THE ROTOR ALARM CONTROL.)
5. **EARTH**  
EARTH THE ROTOR ALARM CONTROL TO THE STARTER EARTH.

**OPERATION**

WHEN A VIBRATION CONDITION EXISTS, THE ALARM SIREN WILL SOUND IMMEDIATELY.

IF THE VIBRATION CEASES WITHIN THE TIMER SETTING (0 - 3 MINUTES), THE ALARM STOPS.

IF THE VIBRATION CONTINUES FOR LONGER THAN THIS SETTING, THE ROTOR ALARM CONTROL SHUTS DOWN THE CRUSHER AND THE ALARM SIREN CONTINUES TO SOUND.

WHEN CRUSHER SHUTS DOWN, PRESS THE "RESET" BUTTON TO RESET THE ROTOR ALARM CONTROL AND SILENCE THE ALARM SIREN. INVESTIGATE AND REMEDY THE CAUSE OF THE VIBRATION CONDITION BEFORE RESTARTING THE BARMAC IN THE NORMAL MANNER.

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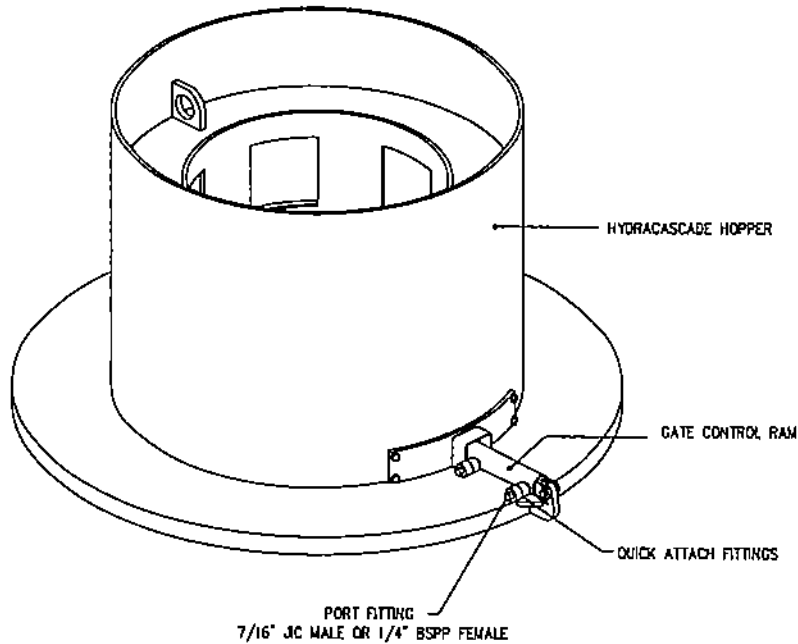
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**BARMAC B6000 DUOPACTOR**  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
VIBRATION CONTROL

DRAWN GARTH TAYLOR  
CHECKED *T. L. L.*  
DIMENSIONS mm [INCH] PAGE 9 OF 10

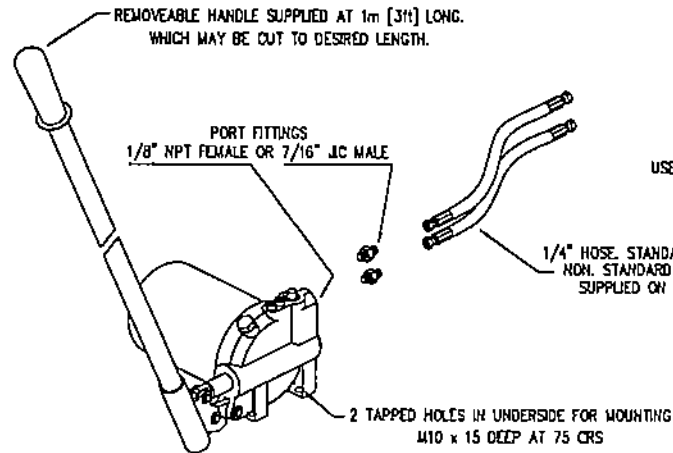
**BARMAC**

DRAWING DATE 11 / 6 / 96 DRAWING NUMBER INS 60SFSD9



**OPTION 1**  
CUSTOMER SUPPLIED HYDRAULIC CONTROL

PROVIDE ANY TYPE OF HYDRAULIC PUMP TO ACTIVATE A DOUBLE ACTING RAM OF 2" BORE x 1" SPEAR x 4" STROKE  
PUMP MUST HAVE PRESSURE RELIEF SET TO 2500PSI.  
MOTION OF SPEAR SHOULD BE NO MORE THAN 0.25" / SEC IN FASTEST DIRECTION.



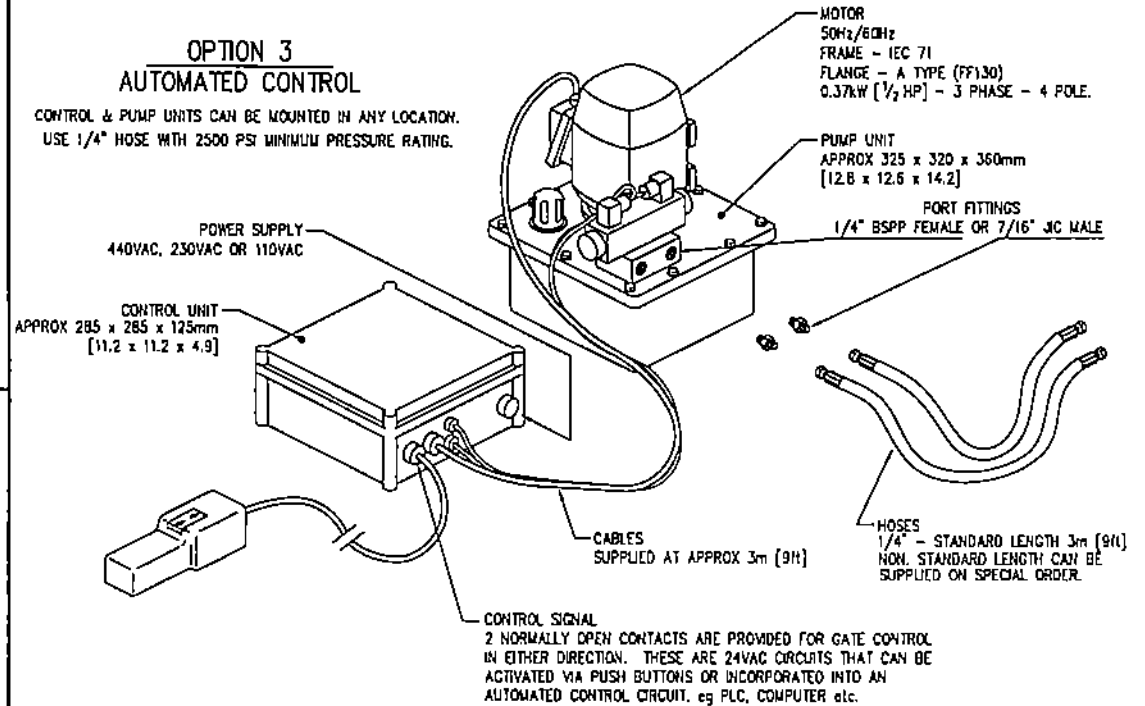
**OPTION 2**  
HANDPUMP CONTROL

HANDPUMP CAN BE MOUNTED IN ANY LOCATION.  
USE 1/4" HOSE WITH 2500 PSI MINIMUM PRESSURE RATING.

1/4" HOSE, STANDARD LENGTH 450mm (17.7)  
NON. STANDARD LENGTHS CAN BE SUPPLIED ON SPECIAL ORDER.

**OPTION 3**  
AUTOMATED CONTROL

CONTROL & PUMP UNITS CAN BE MOUNTED IN ANY LOCATION.  
USE 1/4" HOSE WITH 2500 PSI MINIMUM PRESSURE RATING.



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BARMAC B6000 DUOPACTOR  
SINGLE FEED / SINGLE DRIVE INSTALLATION  
HYRASCASCADE CONTROL

DRAWN GARTH TAYLOR

CHECKED *[Signature]*

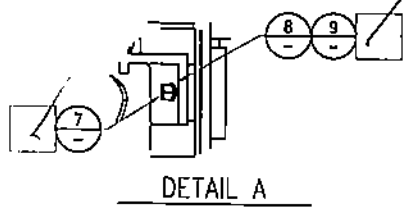
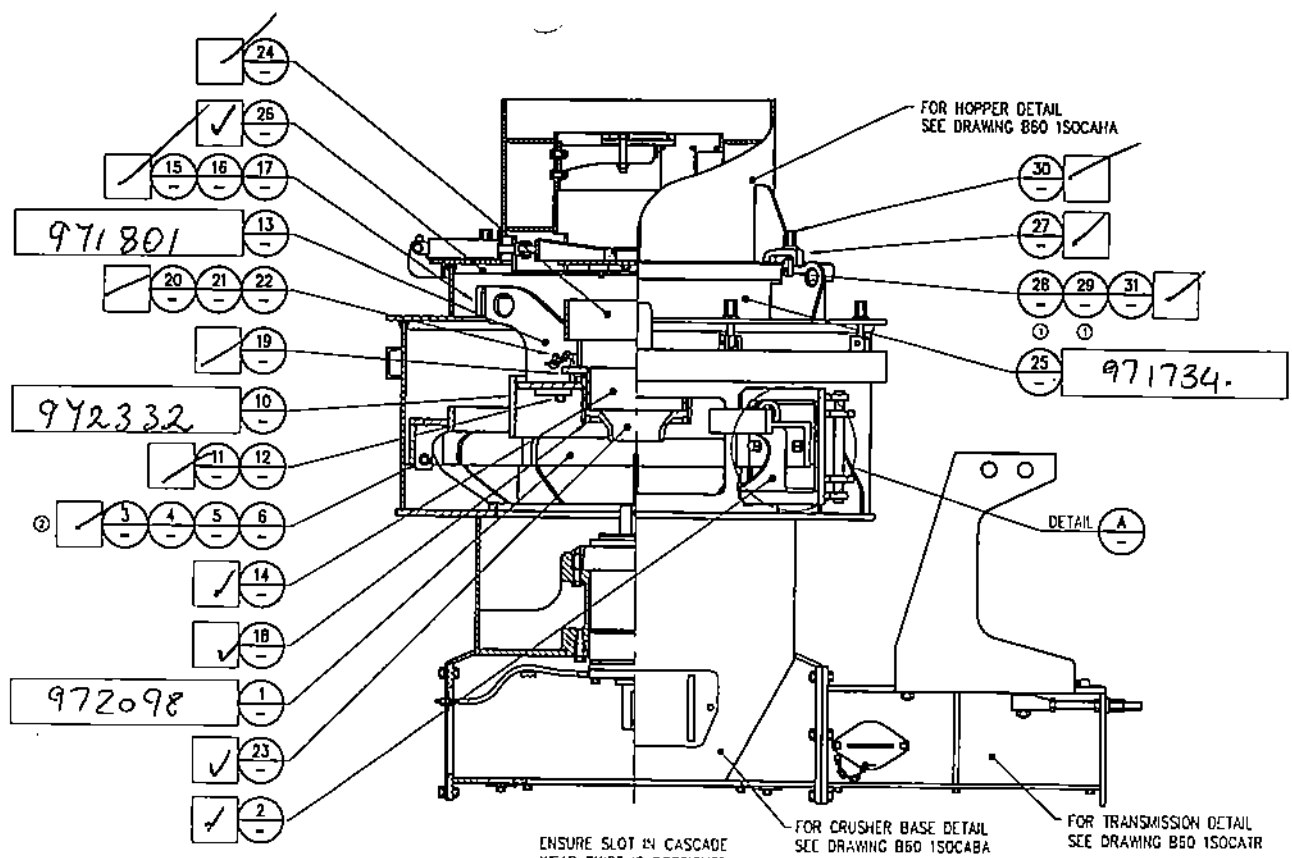
DIMENSIONS mm [INCH] PAGE 10 OF 10



DRAWING DATE 14 / 5 / 96

DRAWING NUMBER INS 60SFSD10

COMPONENT	DESCRIPTION	QTY.	REF.
B601SOCA	6000 DUOPACTOR	1 ASSY	
B6006000A	CAVITY RING ASSEMBLY	1 ASSY	
B50156001A	MAIN SECTION	1	1
B60156002A	DOOR SECTION	1	2
B89156003B	CAVITY RING BOLT SET	1 SET	
BOLT 20*80	BOLT / NUT M20 x 80	2	3
WASHER F20	WASHER M20 FLAT	2	4
WASHER S20	WASHER M20 SPRING	2	5
B96256003A/B	WASHER PLATE	2	6
BOLT 24*50	BOLT M24 x 50	2	7
WASHER F24	WASHER M24 FLAT	2	8
WASHER S24	WASHER M24 SPRING	2	9
B60157300A	CASCADE ASSEMBLY	1 ASSY	
B60157310A	CASCADE WEAR SKIRT KIT	1 KIT	
B60157311A	CASCADE WEAR SKIRT	1	10
B96257012A	WEAR SKIRT BOLT SET	1 SET	
BOLT 20*65	BOLT/NUT M20 x 65	4	11
WASHER F20	WASHER M20 FLAT	4	12
B60157321B	CASCADE	1	13
B90257325A	FEED TUBE CLAMP SLEEVE	1	14
B96257027A	CASCADE HANGER BOLT SET	1 SET	
SS 20*60	SETScrew M20 x 60	3	15
NUT 20	NUT M20	3	16
WASHER F20	WASHER M20 FLAT	3	17
B96257031B	FEED TUBE HOLDER	1	18
B90257332A	CASCADE WEDGE	1	19
B90257333A	CASCADE WEDGE BOLT SET	1 SET	
BOLT 10*50	BOLT / NUT M10 x 50	1	20
WASHER F10	WASHER M10 FLAT	1	21
WASHER S10	WASHER M10 SPRING	1	22
B69157040A	FEED TUBE	1	23
B60157360A	FLOW CONTROL RING	1	24
B60158300A	CRUSHER ROOF ASSEMBLY	1 ASSY	
B60158311A	ROOF	1	25
B70258312A	RUBBER STRIP	1 CA	
KCV 103	RUBBER STRIP 12mm	3990	26
B70258315A	ROOF CLAMP KIT	4 KITS	
B90258316A	CLAMP BRACKET	1	27
B691580230	CLAMP SWING BOLT	1	28
B691580240	CLAMP SWING BOLT PIN	1	29
B96255025A	SWING BOLT NUT	1	30
B24155029A	SWING BOLT CIRCLIP	1 EA	
C/CLIP EX 1/2	CIRCLIP EXTERNAL 1/2"	1	31



**6000 DUOPACTOR  
B601SOCA**

DECALS & NAMEPLATES NOT SHOWN  
SEE DRAWING B60 150CADL

REV.	DETAIL OF CHANGE	DATE	REF.
5	CASCADE WEAR SKIRT ADDED	8/95	CS 611
4	CIRCLIP CHANGED TO 1/2"	7/95	CS 604
3	BOLT SETS CORRECTED	6/96	CS 595
2	WASHER PLATE ADDED	6/96	CS 575
1	PIN & CIRCLIP WERE ROLLPINS	11/94	CS 410

UNLESS OTHERWISE SPECIFIED : PROJECTION 3rd ANGLE

THREADED HOLES  
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING

BOLT TORQUES

M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SWINGBOLT NUTS	74 Nm
M20 SWINGBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY

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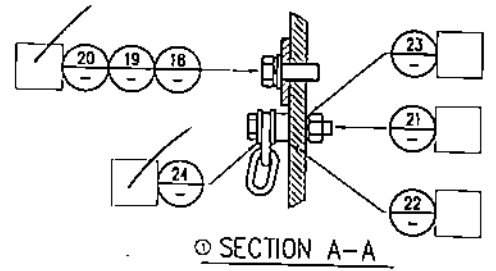
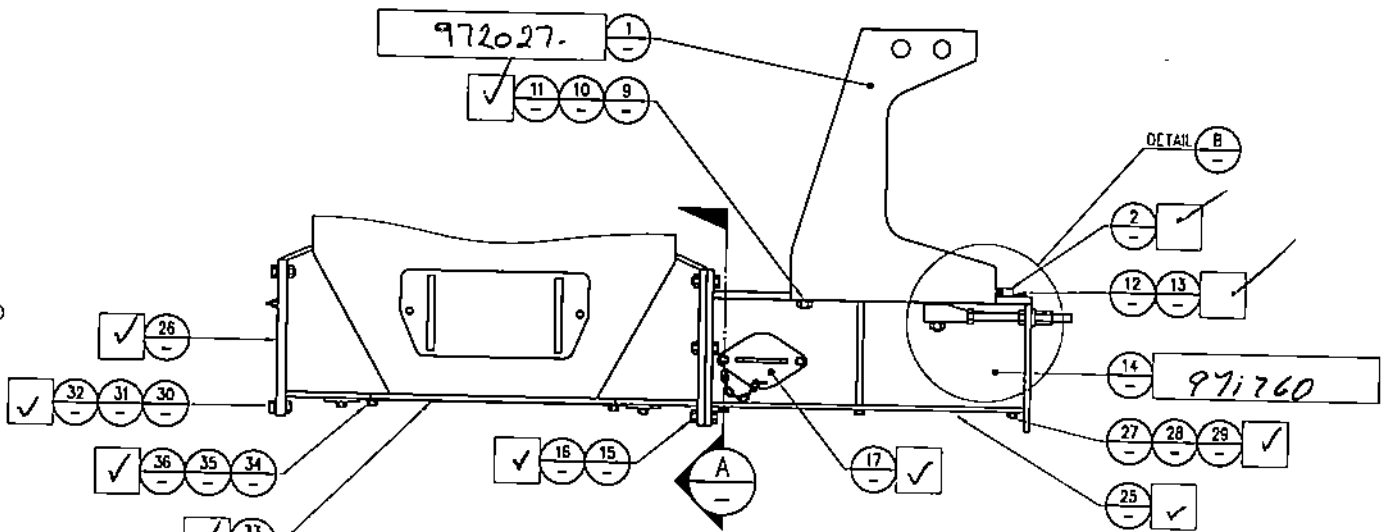
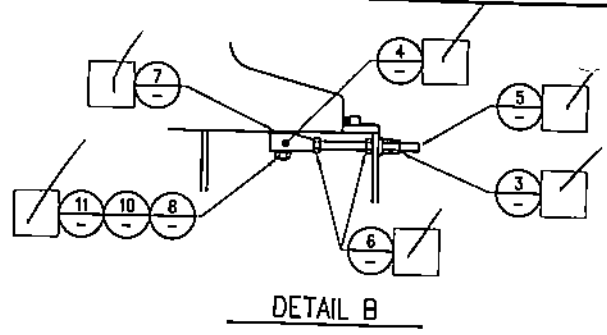
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**BARMAC 6000 DUOPACTOR  
ASSEMBLY  
TOP HALF DETAIL**

DRAWN	JARROD MUDFORD
CHECKED	G.M. Taylor
DIMENSIONS	PART PAGE 1 of 5
mm	ISSUE PAGE 1 of 19

ISSUE REFERENCE	1000317-1
REQUISITION NUMBER	5386
DRAWING DATE	1 / 5 / 97
DRAWING NUMBER	B60 150CA

ITEM NO.	DESCRIPTION	QTY.	ITEM
B601SOCA	6000 DUOPACTOR (CONTINUED)	1 ASSY	
-B691S000A	MOTOR MOUNT ASSEMBLY	1 ASSY	
-B691S011B	MOTOR MOUNT	1	1
-B691S012A	COVER PLATE	1	2
-B691S013B	ADJUSTER ROD KIT	2 KITS	
-B962S1014A	ADJUSTER NUT	1	3
-B962S1051A	ADJUSTER BOSS	1	4
-B691S1052A	ADJUSTER ROD	1	5
-B962S1053A	LOCK NUT	1 EA	
-MUT 24	NUT M24	4	6
-B962S1054A	ADJUSTER ROD WASHER	2	7
B962S1015A	MOTOR MOUNT BOLT SET	1 SET	③
-BOLT 24x130	BOLT / NUT M24 x 130	2	8
-BOLT 24x80	BOLT / NUT M24 x 80	2	9
-WASHER H24	WASHER M24 HARDENED	8	10
-WASHER S24	WASHER M24 SPRING	4	11
-CS 12x25	CAPSCREW M12 x 25	2	12
-WASHER F012	WASHER M12 FAN DISC	2	13
B601S1020A	TRANSMISSION ASSEMBLY	1 ASSY	
-B601S1021A	TRANSMISSION CASE	1	14
-B601S1022A	TRANSMISSION CASE BOLT SET	1 SET	
-BOLT 20x65	BOLT / NUT M20 x 65	9	15
-WASHER H20	WASHER M20 HARDENED	18	16
-B962S1024B	INSPECTION HOLE COVER PLATE	2	17
B962S1025A	INSPECTION HOLE COVER BOLT SET	2 SETS	③③
-BOLT 12x30	BOLT M12 x 30	2	18
-WASHER S12	WASHER M12 SPRING	2	19
-WASHER F12	WASHER M12 FLAT	2	20
-BOLT 10x55	BOLT / NUT M10 x 55	1	21
-COLLAR 12	WASHER M12 COLLAR	1	22
-WASHER S10	WASHER M10 SPRING	1	23
-WASHER F10	WASHER M10 FLAT	2	24
B601S1030A	BELT GUARD ASSEMBLY	1 ASSY	
-B601S1031A	TRANSMISSION BELT GUARD	1	25
-B601S1032A	TRANSMISSION PANEL	1	26
-B702S1033A	TRANSMISSION GUARD BOLT SET	1 SET	③
-BOLT 16x35	BOLT M16 x 35	6	27
-WASHER S16	WASHER M16 SPRING	6	28
-WASHER F16	WASHER M16 FLAT	6	29
B702S1034A	TRANSMISSION PANEL BOLT SET	1 SET	③
-BOLT 20x60	BOLT / NUT M20 x 60	4	30
-WASHER S20	WASHER M20 SPRING	4	31
-WASHER F20	WASHER M20 FLAT	8	32
B702S1035A	BASE BELT GUARD	1	33
B962S1136C	BASE GUARD BOLT SET	1 SET	③
-BOLT 16x35	BOLT M16 x 35	4	34
-WASHER S16	WASHER M16 SPRING	4	35
-WASHER F16	WASHER M16 FLAT	4	36



6000 DUOPACTOR  
B601SOCA

REV.	DETAIL OF CHANGE	DATE	REF.
3	VARIOUS BOLT SET CHANGES	3/97	CS 657
2	BOLT SETS CORRECTED	6/96	CS 595
1	INSPECTION HOLE BOLTS CHANGED	6/96	CS 587

UNLESS OTHERWISE SPECIFIED:		PROJECTION	3rd ANGLE
INCREASED HOLE			
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING			
BOLT LOADS			
M6	5 Nm		
M8	22 Nm		
M12	44 Nm		
M17	77 Nm		
M16	190 Nm		
M20	372 Nm		
M24	540 Nm		
M16 SHANGLDGT NUTS	74 Nm		
M20 SHANGLDGT NUTS	144 Nm		
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY			

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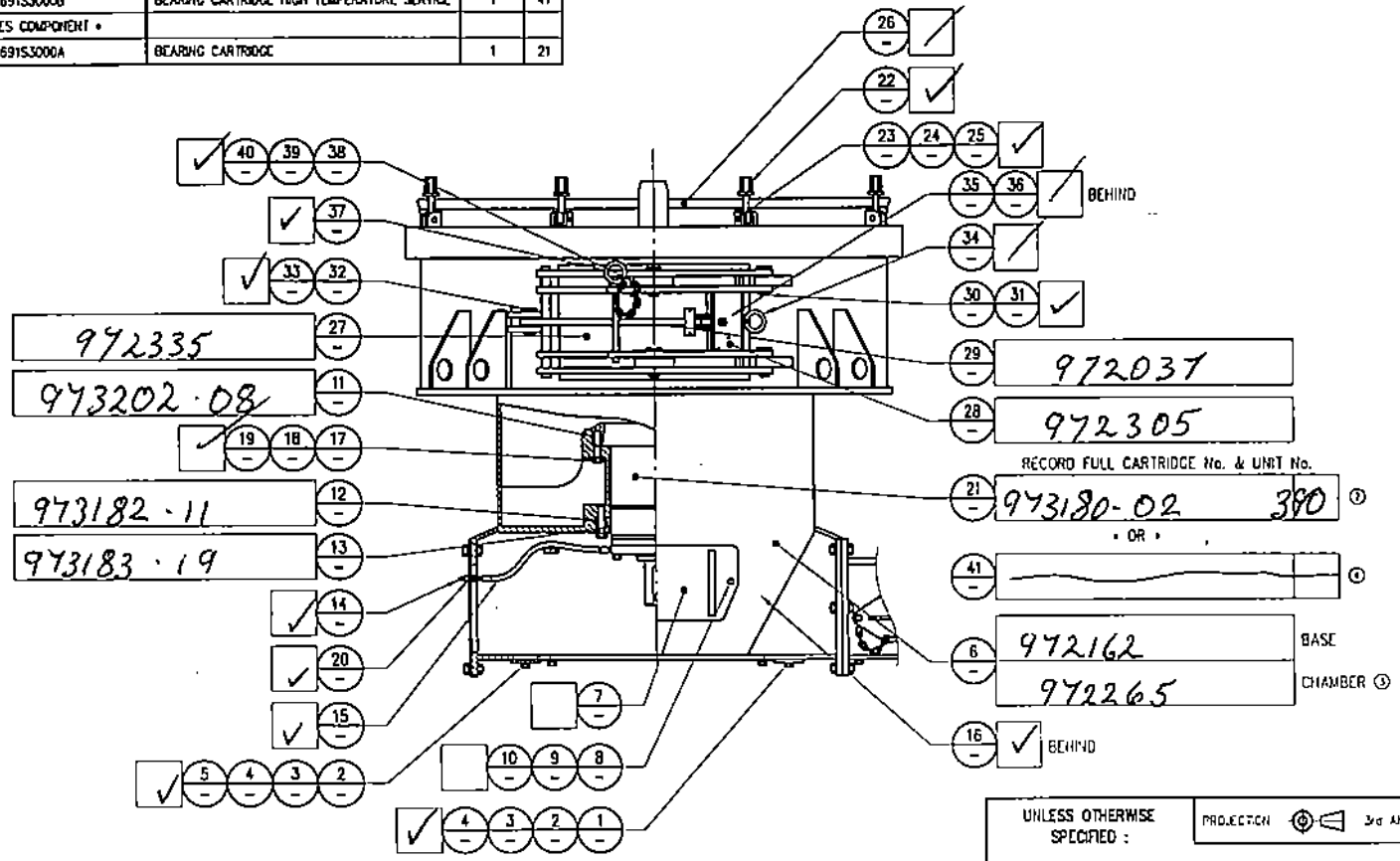
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**BARMAC 6000 DUOPACTOR  
ASSEMBLY  
TRANSMISSION DETAIL**

DRAWN **JARROD MUDFORD**  
CHECKED *[Signature]*  
DIMENSIONS PART PAGE 2 of 5  
mm ISSUE PAGE 2 of 19

ISSUE REFERENCE **5386**  
REQUISITION NUMBER **1006317-1**  
DRAWING DATE **20 / 3 / 97**  
DRAWING NUMBER **B60 1SOCATR**

COMPONENT	DESCRIPTION	QTY.	ITEM	COMPONENT	DESCRIPTION	QTY.	ITEM
B601S00A	6000 DUOPACTOR (CONTINUED)	1	ASSY	B962SE	SAFETY PIN CHAIN BOLT SET	1	SET
B601S2000A	CRUSHER BASE ASSEMBLY	1	ASSY	BOL	BOLT M10 x 40	1	36
B601S1036A	GREASE DUCT	1	1	WASHER S10	WASHER MID SPRNG	1	39
B702S1037A	GREASE DUCT BOLT SET	1	SET	WASHER F10	WASHER MID FLAT	1	40
BOLT 16x35	BOLT M16 x 35	2	2	COMPONENT	DESCRIPTION	QTY.	ITEM
WASHER S16	WASHER M16 SPRNG	2	3	ALTERNATIVE CONFIGURATION	ONLY IF SPECIFICALLY REQUESTED		
WASHER F16	WASHER M16 FLAT	2	4	B691S3000B	BEARING CARTRIDGE HIGH TEMPERATURE SERVICE	1	41
B702S1039A	GREASE HOLE BLANK PANEL	1	5	REPLACES COMPONENT			
B601S2001A	CRUSHER BASE	1	6	B691S3000A	BEARING CARTRIDGE	1	21
B702S2002A	CRUSHER BASE INSPECTION DOOR KIT	2	KITS				
B702S2018A	CRUSHER BASE INSPECTION DOOR	1	7				
B702S2019A	BASE INSPECTION DOOR BOLT SET	1	SET				
BOLT 12x35	BOLT M12 x 35	2	8				
WASHER S12	WASHER M12 SPRNG	2	9				
WASHER F12	WASHER M12 FLAT	2	10				
B962S2003A	TOP TAPER RING	1	11				
B962S2004A	BOTTOM TAPER RING OUTER	1	12				
B962S2005A	BOTTOM TAPER RING INNER	1	13				
B962S2006A	GREASE NIPPLE	3	14				
B601S2009A	GREASE HOSE	3	15				
B612S2010A	GREASE CHUTE	1	16				
B962S2013A	TAPER RING BOLT SET	1	SET				
BOLT 20x90	BOLT M20 x 90	16	17				
CS 20x50	GRUBSCREW M20 x 50	3	18				
WASHER FD20	WASHER M20 CAN DISC	16	19				
B962S2024A	BULKHEAD FITTING	3	20				
B691S3000A	BEARING CARTRIDGE	1	21				
B962S5002B	SWING BOLT KIT	8	KITS				
B962S5026A	SWING BOLT NUT	1	22				
B962S5027A	ROOF SWING BOLT	1	23				
B962S5028A	SWING BOLT PIN	1	24				
B962S5029A	SWING BOLT CIRCLIP	1	EA				
C/CLIP EX 16	CIRCLIP EXTERNAL 16mm	1	EA				
B601S5003A	RUBBER STRIP	1	CA				
KCV 103	RUBBER STRIP 12mm	4970	26				
B601S5011A	DOOR	1	27				
B691S5012C	DOOR HINGE FRAME	1	28				
B691S5013C	DOOR HANDLE	1	29				
B691S5014C	DOOR FRAME HINGE PIN KIT	4	KITS				
B691S5020A	HINGE PIN LONG	1	30				
B691S5022A	FRAME CIRCLIP	1	EA				
C/CLIP EX 30	CIRCLIP EXTERNAL 30mm	1	EA				
B691S5015C	DOOR HANDLE HINGE PIN KIT	1	KIT				
B691S5023A	HINGE PIN SHORT	1	32				
B691S5024A	HANDLE CIRCLIP	1	EA				
C/CLIP EX 30	CIRCLIP EXTERNAL 30mm	1	EA				
B962S5016A	LOCK PIN	1	34				
B962S5017A	SPRING	1	35				
B962S5018B	ROLL PIN	1	EA				
RP 6x45	ROLLPIN 6 x 45	1	36				
B691S5019B	SAFETY PIN	1	37				



6000 DUOPACTOR  
B601S0CA

REV.	DETAIL OF CHANGE	DATE	RET.
6	VARIOUS BOLT SET CHANGES	3/97	CS 557
5	ROLLPIN REPLACED BY CIRCLIP	10/95	CS 618
4	ALTERNATIVE OPTION ADDED	6/96	CS 574
3	CHAMBER CYCLE No. RECORDED	10/95	CS 525
2	CARTRIDGE UNIT No. ADDED	9/95	CS 505
1	NEW DOOR AND BOLT SET	7/95	CS 483

UNLESS OTHERWISE SPECIFIED :  
 PROJECTION 3rd ANGLE  
 ENLARGED HOLES  
 - ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING  
 BOLT SPECIES  
 M6 5 Nm  
 M8 22 Nm  
 M10 44 Nm  
 M12 77 Nm  
 M16 190 Nm  
 M20 272 Nm  
 M24 640 Nm  
 M10 SWINGBOLT NUTS 74 Nm  
 M20 SWINGBOLT NUTS 144 Nm  
 - ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY

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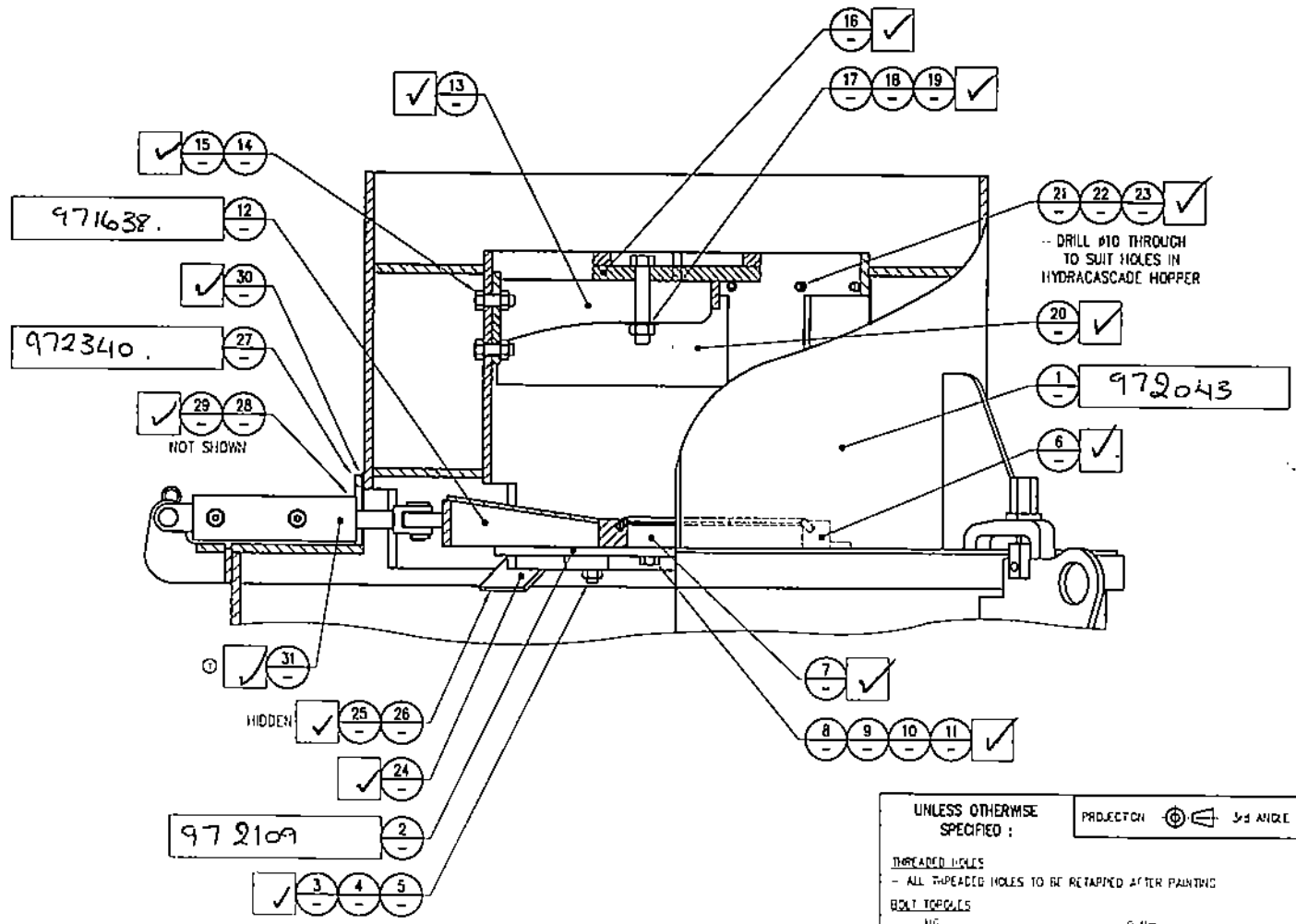
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BARMAC 6000 DUOPACTOR  
 ASSEMBLY  
 CRUSHER BASE DETAIL

DRAWN *JARROD MUDFORD*  
 CHECKED *[Signature]*  
 DIMENSIONS PART PAGE 3 of 5  
 mm ISSUE PAGE 3 of 5

ISSUE REFERENCE **5386**  
 REQUISITION NUMBER **1000317-1**  
 DRAWING DATE **22 / 5 / 97**  
 DRAWING NUMBER **B60 1S0CABA**

COMPONENT	DESCRIPTION	QTY.	ITEM
B601SOCA	6000 DUOPACTOR (CONTINUED)	1 ASSY	
- B601S9200A	HYDRACASCADE HOPPER ASSEMBLY	1 ASSY	
- B702S9311A	HYDRACASCADE HOPPER	1	1
- B601S9320A	CONTROL PLATE KIT	1 KIT	
- B601S9321A	CONTROL PLATE	1	2
- B902S9322A	CONTROL PLATE BOLT SET	1 SET	③
- BOLT 16x55	BOLT / NUT M16 x 55	3	3
- WASHER S16	WASHER M16 SPRING	3	4
- WASHER F16	WASHER M16 FLAT	3	5
- B601S9323A	CONTROL PLATE END LINER	1	6
- B702S9324A	CONTROL PLATE SIDE LINER	2	7
- B902S9325A	CONTROL PLATE LINER BOLT SET	1 SET	
- BOLT 16x40	BOLT M16 x 40	4	8
- WASHER F16	WASHER M16 FLAT	4	9
- BOLT 12x70	BOLT M12 x 70	2	10
- WASHER F12	WASHER M12 FLAT	4	11
- B601S9326A	CHOKE	1	12
- B702S9330A	SPREADER BRACKET KIT	1 KIT	
- B702S9331A	SPREADER BRACKET	1	13
- B691S9032A	SPREADER BRACKET BOLT SET	1 SET	③
- BOLT 16x45	BOLT / NUT M16 x 45	2	14
- WASHER FD16	WASHER M16 FAN DISC	2	15
- B702S9340A	SPREADER PLATE KIT	1 KIT	
- B702S9341A	SPREADER PLATE	1	16
- B702S9342A	SPREADER BOLT SET	1 SET	③
- NUT M24	NUT M24	1	17
- WASHER H24	WASHER M24 HARDENED	1	18
- WASHER S24	WASHER M24 SPRING	1	19
- B702S9350A	RUBBER SKIRT KIT	1 KIT	
- B702S9351A	RUBBER SKIRT	1	20
- B902S9352A	SKIRT BOLT SET	1 SET	
- BOLT 8x25	BOLT / NUT M8 x 25	12	21
- WASHER F8	WASHER M8 FLAT	12	22
- WASHER S8	WASHER M8 SPRING	12	23
- B702S9350A	AIR TRANSFER BLADE KIT	1 KIT	
- B702S9361A	AIR TRANSFER BLADES	5	24
- B902S9362A	AIR TRANSFER BLADE BOLT SET	1 SET	
- BOLT 12x30	BOLT / NUT M12 x 30	10	25
- WASHER S12	WASHER M12 SPRING	10	26
- B702S9370A	RAM COVER KIT	1 KIT	
- B702S9371A	RAM COVER	1	27
- B902S9372A	RAM COVER BOLT SET	1 SET	
- BOLT 12x40	BOLT M12 x 40	4	28
- WASHER F12	WASHER M12 FLAT	4	29
- B702S9373A	RAM COVER GASKET	1	30
- B702S9300A	HYDRAULIC RAM ASSEMBLY	1	31



6000 DUOPACTOR  
B601SOCA

REV.	DETAIL OF CHANGE	DATE	REF.
3	VARIOUS BOLT SET CHANGES	3/97	CS 657
2	BOLT SETS CORRECTED	6/96	CS 595
1	HYDRAULIC RAM ASSEMBLY ADDED	4/96	CS 571

UNLESS OTHERWISE SPECIFIED:		PROJECTION	3/4 ANGLE
THREADED HOLES - ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING			
BOLT TORQUES			
M6	9 Nm		
M8	22 Nm		
M10	44 Nm		
M12	77 Nm		
M16	190 Nm		
M20	372 Nm		
M24	640 Nm		
M16 SWANBOLT NUTS	74 Nm		
M20 SWANBOLT NUTS	144 Nm		
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY			

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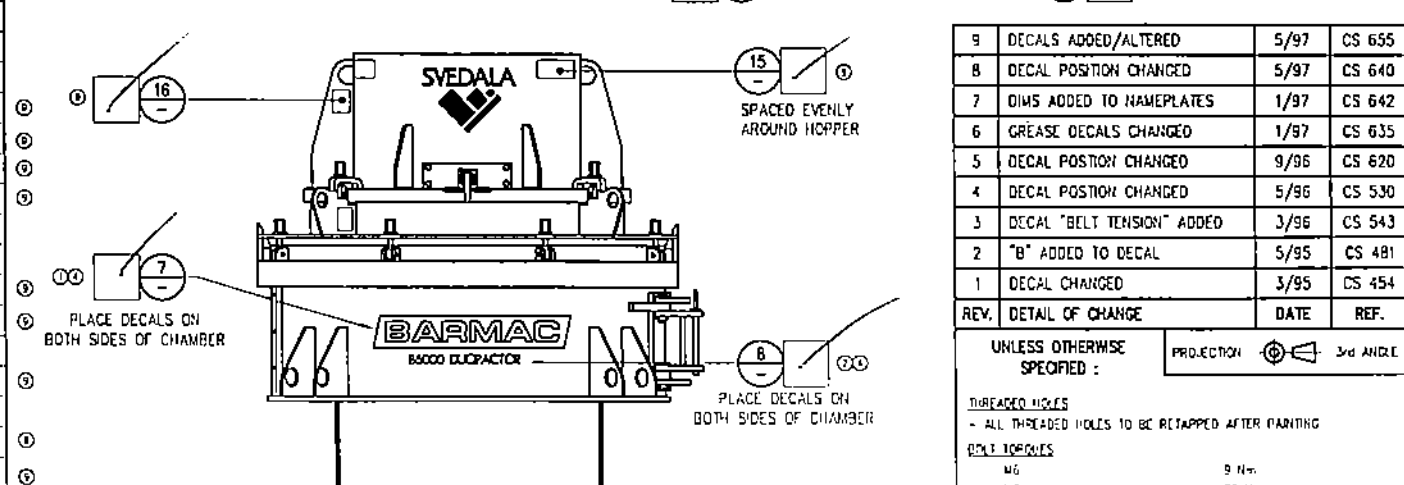
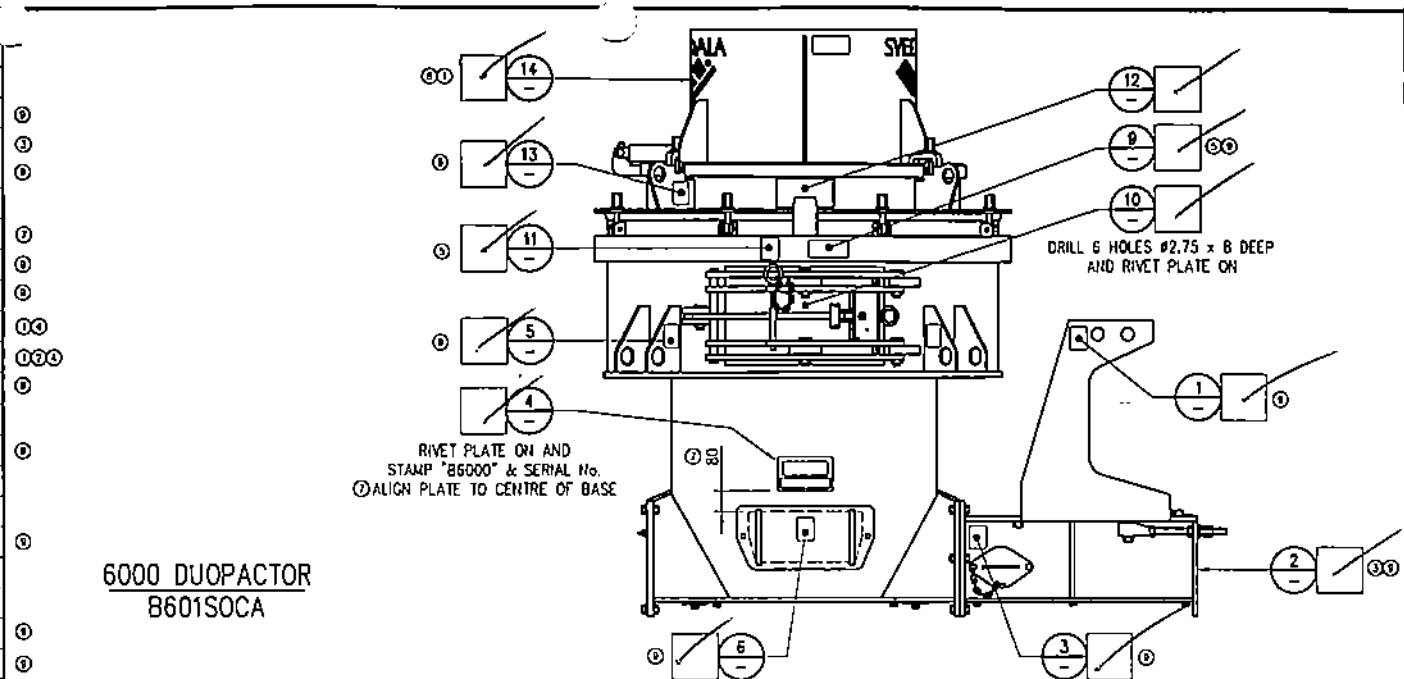
BARMAC 6000 DUOPACTOR  
ASSEMBLY  
HOPPER DETAIL

DRAWN	JARROD MUGFORD
CHECKED	<i>[Signature]</i>
DIMENSIONS	PART PAGE 4 of 5
ITER	ISSUE PAGE 4 of 7

ISSUE REFERENCE	5386	REQUISITION NUMBER	1000317-1
DRAWING DATE	1 / 5 / 97	DRAWING NUMBER	B60 1SOCAHA

COMPONENT	DESCRIPTION	QTY.	ITEM
B601SOCA	6000 DUOPACTOR (CONTINUED)	1 ASSY	
- B601S1020A	TRANSMISSION ASSEMBLY (CONTINUED)	1 ASSY	
- B902S1018A	DECAL "LIFT MOTOR MOUNT ONLY"	2	1
- B902S1023B	DECAL "BELT TENSION"	1	2
- B902S2018A	DECAL "WARNING - DO NOT OPEN"	2	3
- B601S2000A	CRUSHER BASE ASSEMBLY (CONTINUED)	1 ASSY	
- B902S2007B	BASE NAMEPLATE	1	4
- B902S2017B	DECAL "LIFT CRUSHER BODY"	4	5
- B902S2018A	DECAL "WARNING - DO NOT OPEN"	2	6
- B601S5004A	DECAL "BARMAC"	2	7
- B601S5005A	DECAL "B6000 DUOPACTOR"	2	8
- B902S5008B	DECAL "DANGER - DO NOT OPEN"	1	9
- B902S5009A	NAMEPLATE PATENT	1	10
- B902S5031B	DECAL "REFIT SAFETY PIN"	1	11
- B601S8300A	CRUSHER ROOF ASSEMBLY (CONTINUED)	1 ASSY	
- B902S8013A	DECAL "DIRECTION OF ROTOR"	2	12
- B902S8014B	DECAL "LIFT TOP HALF"	4	13
- B601S9300A	HYDRASCASCADE HOPPER ASSEMBLY (CONTINUED)	1 ASSY	
- B902S9113A	DECAL "SVEDALA"	2	14
- B902S9314A	DECAL "DO NOT CLEAR"	3	15
- B902S9315A	DECAL "LIFT HOPPER ONLY"	2	16

COMPONENT	DESCRIPTION	QTY.	ITEM
+ALSO AVAILABLE+	WHEN ORDERED SEPARATELY		
- B60AD01A	DECAL SET	1 SET	
- B902S1018A	DECAL "LIFT MOTOR MOUNT ONLY"	2	1
- B902S1023B	DECAL "BELT TENSION"	1	1
- B902S2018A	DECAL "WARNING - DO NOT OPEN"	4	1
- B902S2017B	DECAL "LIFT CRUSHER BODY"	4	2
- B601S5004A	DECAL "BARMAC"	2	4
- B601S5005A	DECAL "B6000 DUOPACTOR"	2	5
- B902S5008B	DECAL "DANGER - DO NOT OPEN"	1	6
- B902S5031B	DECAL "REFIT SAFETY PIN"	1	8
- B902S8013A	DECAL "DIRECTION OF ROTOR"	2	9
- B902S8014B	DECAL "LIFT TOP HALF"	4	9
- B902S9113A	DECAL "SVEDALA"	2	10
- B902S9314A	DECAL "DO NOT CLEAR"	3	10
- B902S9315A	DECAL "LIFT HOPPER ONLY"	2	10



REV.	DETAIL OF CHANGE	DATE	REF.
9	DECALS ADDED/ALTERED	5/97	CS 655
8	DECAL POSITION CHANGED	5/97	CS 640
7	DIMS ADDED TO NAMEPLATES	1/97	CS 642
6	GREASE DECALS CHANGED	1/97	CS 635
5	DECAL POSITION CHANGED	9/96	CS 620
4	DECAL POSITION CHANGED	5/96	CS 530
3	DECAL "BELT TENSION" ADDED	3/96	CS 543
2	"B" ADDED TO DECAL	5/95	CS 481
1	DECAL CHANGED	3/95	CS 454

UNLESS OTHERWISE SPECIFIED:

PROJECTION 3rd ANGLE

THREADED HOLES  
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING

DRIVE TORQUES

M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M10 SWAGBOLT NUTS	74 Nm
M20 SWAGBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY

**SVEDALA**

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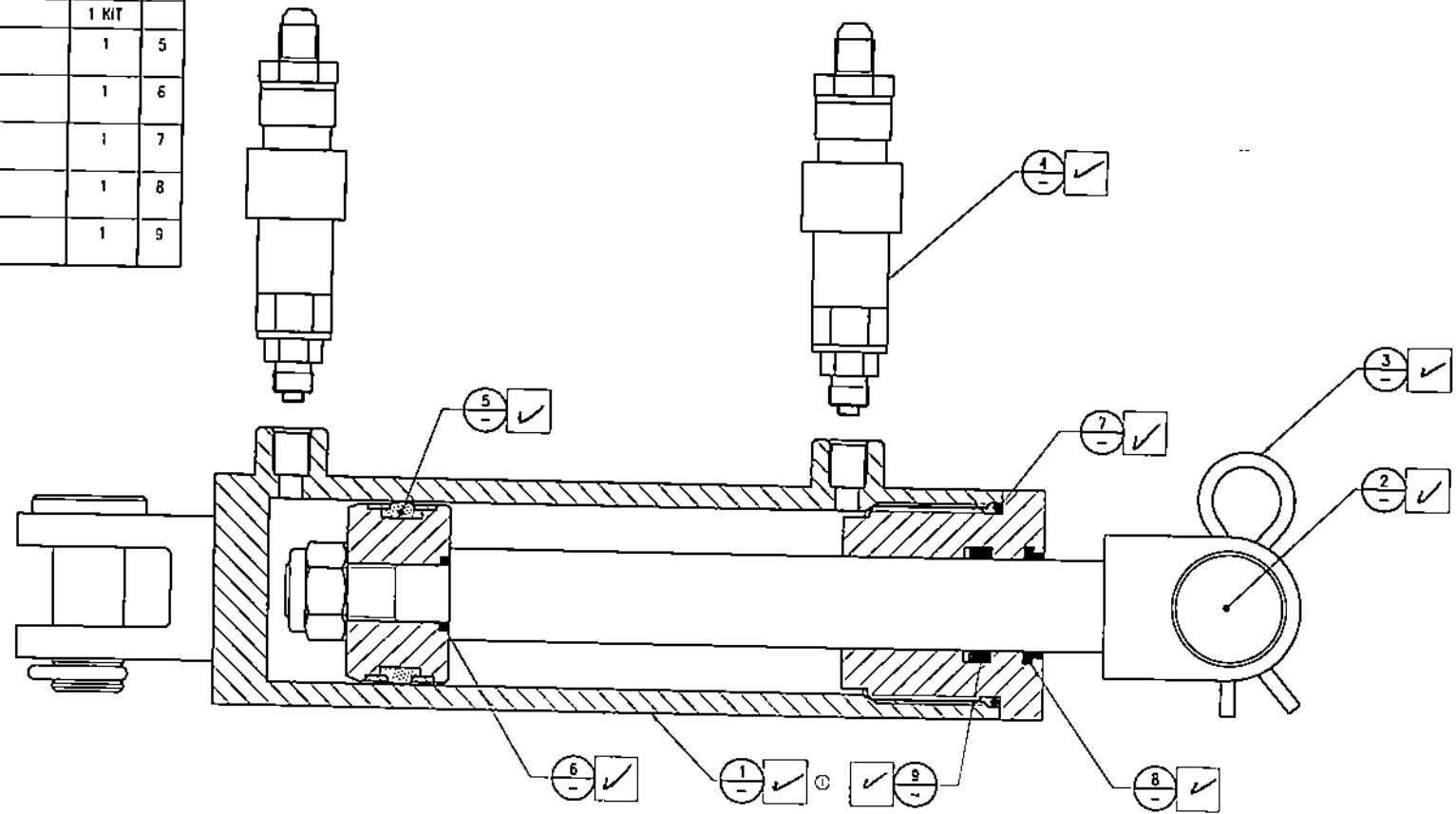
**BARMAC 6000 DUOPACTOR**  
**ASSEMBLY**  
**DECAL / NAMEPLATE POSITIONS**

DRAWN **JUSTIN READ**  
CHECKED **T. G.**  
DIVISIONS PART PAGE **5 of 5**  
ISSUE PART **5 of 19**

ISSUE REFERENCE **5386**  
REQUISITION NUMBER **1000317-1**  
DRAWING DATE **26 / 5 / 97**  
DRAWING NUMBER **B60 1S0CADL**



COMPONENT	DESCRIPTION	QTY.	ITEM
B702SH300A	HYDRAULIC RAM ASSEMBLY	1 ASSY	
- B702SH300A/S	HYDRAULIC RAM	1	1
- B902SH331A	CLEVIS PIN	2	2
- B902SH332A	CLEVIS PIN R-CLIP	2 EA	
R/CLIP AG7	R - CLIP AG7	1	3
- B902SH350A	QUICK COUPLER ASSEMBLY	2	4
COMPONENT	DESCRIPTION	QTY.	ITEM
* ALSO AVAILABLE *			
- B902SH340A	HYDRAULIC RAM SEAL KIT	1 KIT	
- B902SH315A	PISTON SEAL DSP 200 2" DOUBLE ACTING SEAL	1	5
- B902SH316A	PISTON O-RING BS 114 N70 O-RING	1	6
- B902SH318A	END CAP O-RING BS 226 N70 O-RING	1	7
- B902SH319A	END CAP WIPER SEAL AN 100 1" WIPER SEAL	1	8
- B902SH320A	END CAP PRESSURE SEAL SA 146G 1 x 1 1/4 x 1/4" SEAL	1	9



HYDRAULIC RAM ASSEMBLY  
B702SH300A

UNLESS OTHERWISE SPECIFIED :

PROJECTION: 3rd ANGLE

**THREADS**  
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING

**BOLT TORQUES**

M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SWINGBOLT NUTS	74 Nm
M20 SWINGBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY

2	COUPLER SUPPLIED AS ASSEMBLY	5/96	CS 571
1	RAM NOW OUTWORK	10/94	CS 403
REV.	DETAIL OF CHANGE	DATE	REF.

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BARMAC 7000 DUOPACTOR  
HYDRAULIC RAM ASSEMBLY

DRAWN JUSTIN READ  
CHECKED T. G. G.  
DIMENSIONS PART PAGE 1 of 1  
mm ISSUE PAGE 6 of 19

ISSUE REFERENCE  
**5386**

REQUISITION NUMBER  
**1000317-1**

DRAWING DATE  
**29 / 5 / 96**

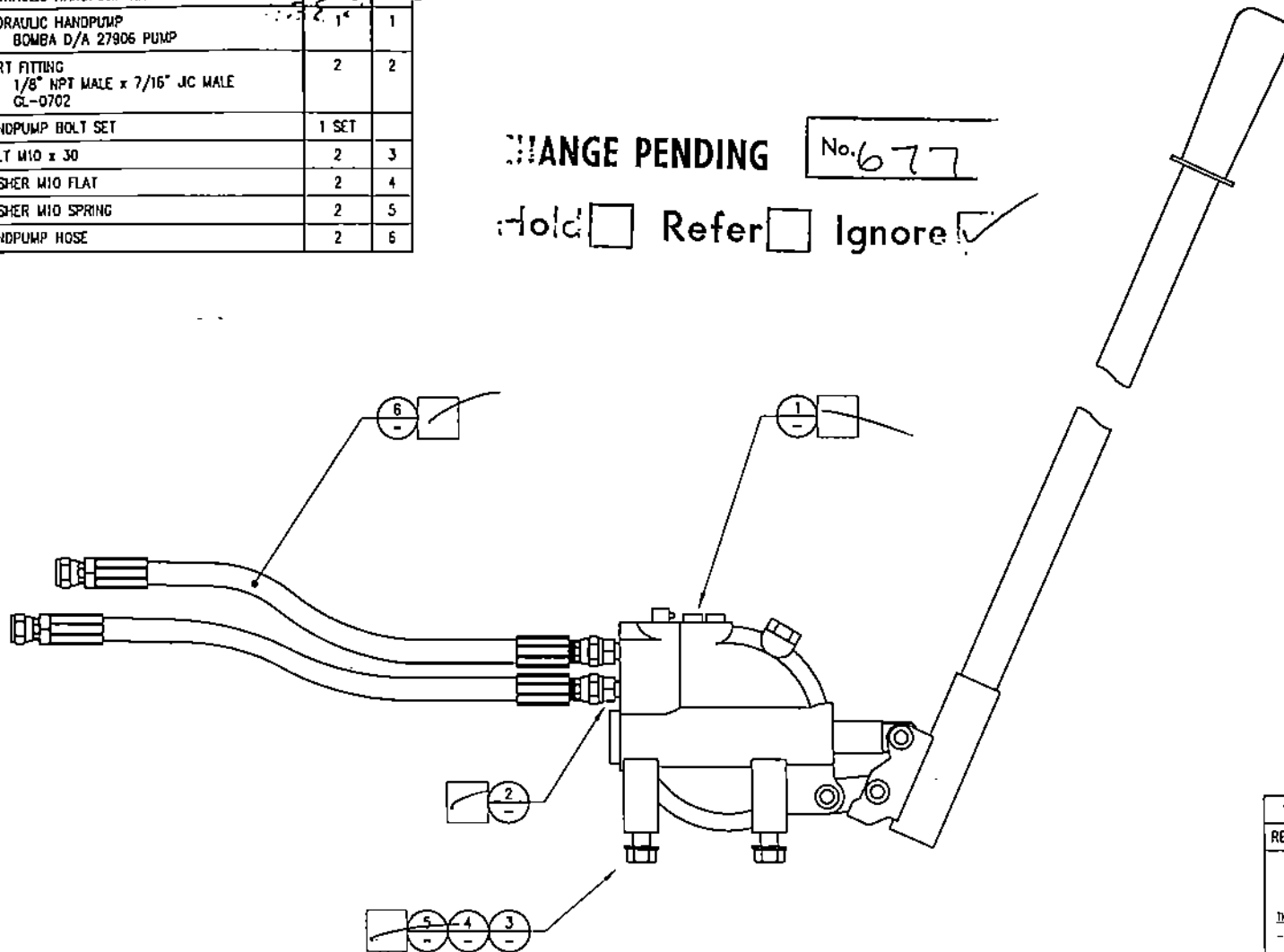
DRAWING NUMBER  
**B70 2SH300A**

COMPONENT	DESCRIPTION	QTY.	ITEM
B96AC10A	HYDRAULIC HANDPUMP KIT	1 ASSY	
B96AC11A	HYDRAULIC HANDPUMP BOMBA D/A 27906 PUMP	1	1
B96AC13A	PORT FITTING 1/8" NPT MALE x 7/16" JC MALE GL-0702	2	2
B96AC14A	HANDPUMP BOLT SET	1 SET	
- BOLT 10x30	BOLT M10 x 30	2	3
- WASHER F10	WASHER M10 FLAT	2	4
- WASHER S10	WASHER M10 SPRING	2	5
B96AC15A	HANDPUMP HOSE	2	6

CHANGE PENDING

No. 677

Hold  Refer  Ignore



HYDRAULIC HANDPUMP KIT  
B96AC10A

REV.	DETAIL OF CHANGE	DATE	REF.
1	HOSES ADDED	11/94	CS 40B

UNLESS OTHERWISE SPECIFIED : PROJECTION 3rd ANGLE

TIGHTENING TORQUES  
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING

BOLT TORQUES

M2	9 Nm
M2	27 Nm
M10	41 Nm
M12	77 Nm
M16	190 Nm
M20	377 Nm
M24	643 Nm
M16 SWANDBOLT NUTS	74 Nm
M20 SWANDBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY



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BARMAC 9600 DUOPACTOR  
HYDRAULIC HANDPUMP KIT

DRAWN JUSTIN READ

CHECKED *[Signature]*

DIMENSIONS PART PAGE 1 of 1

ISSUE PAGE 7 of 19

ISSUE REFERENCE

S386

DRAWING DATE

15 / 8 / 96

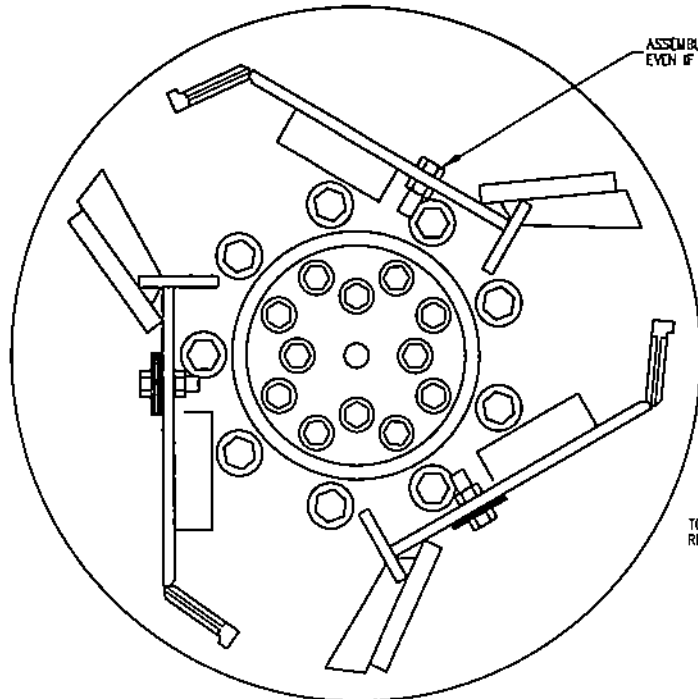
REQUISITION NUMBER

1000317-1

DRAWING NUMBER

B96-AC10A

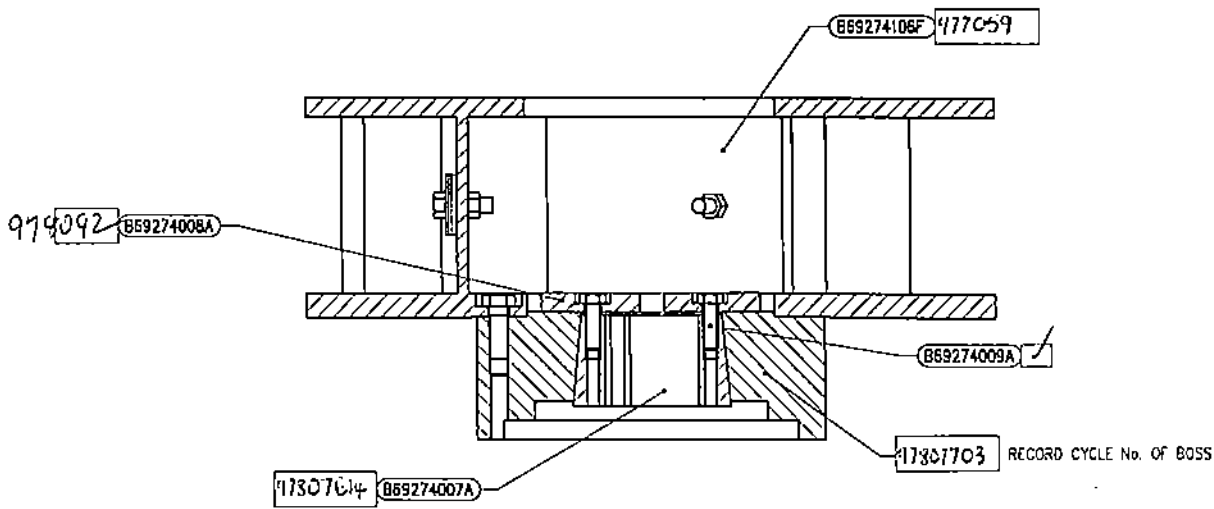
ASSEMBLY	PART	CODE	DESCRIPTION	QTY.
B69274105K			690 OPEN SIDED BARE ROTOR	1
	B69274106F		ROTOR BODY - OPEN SIDED	1
	B69274007A		ROTOR TAPER LOCK - Mk I	1
	B69274008A		TOP PLATE	1
	B69274009A	SS 16-40	TOP PLATE BOLT HEX HEAD SETSCREW M16 x 40	12



ASSEMBLE BOLTS TO ALL SIDES  
EVEN IF NO WEIGHTS ARE REQUIRED

TOP PLATE OF ROTOR  
REMOVED FOR CLARITY

690 OPEN SIDED BARE ROTOR  
B69274105K



B69274106F 477059

979092 B69274008A

B69274009A

17307703 RECORD CYCLE No. OF BOSS

17307614 B69274007A

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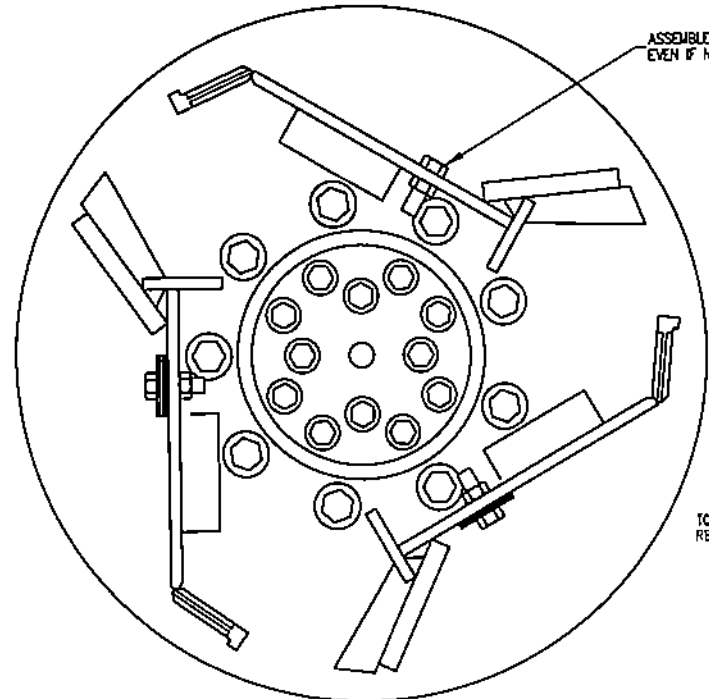
**BARMAC 690 ROTOR**  
**OPEN SIDED**  
**BARE ROTOR**

DRAWN *RAYMOND SUNKEL*  
 CHECKED *[Signature]*  
 DIMENSIONS PART PAGE 1 of 1  
 mm ISSUE PAGE 6 of 19

REQUISITION NUMBER  
**5386**  
 DRAWING DATE  
 16 / 1 / 96

ISSUE REFERENCE  
**1000317-1**  
 DRAWING NUMBER  
**B69 274105K**

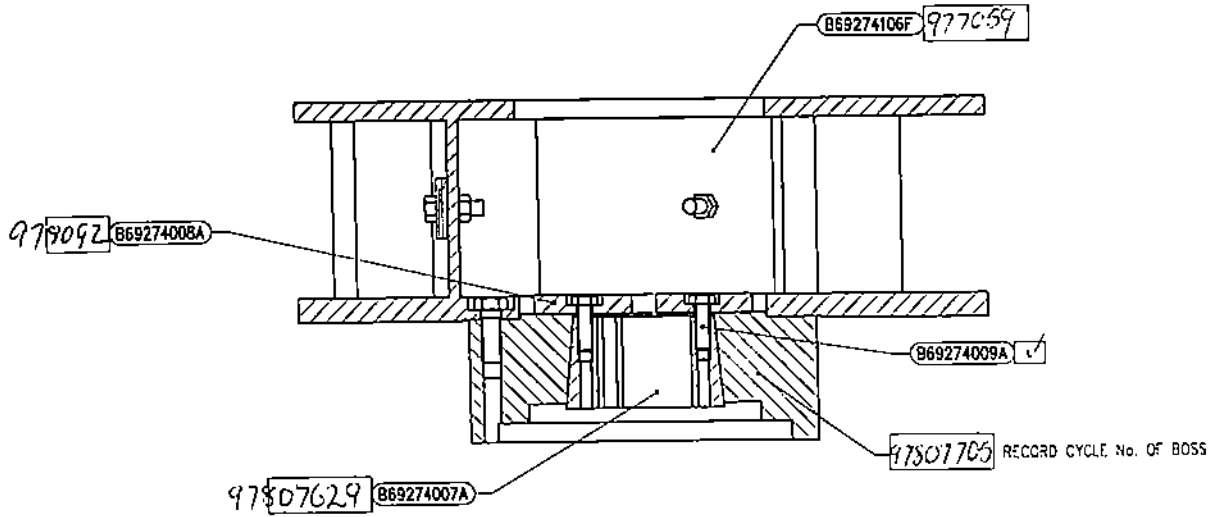
ASSEMBLY	PART	CODE	DESCRIPTION	QTY.
B69274105K			690 OPEN SIDED BARE ROTOR	1
	B69274106F		ROTOR BODY - OPEN SIDED	1
	B69274007A		ROTOR TAPER LOCK - Nk 1	1
	B69274008A		TOP PLATE	1
	B69274009A		TOP PLATE BOLT	12
	SS 16-40		HEX HEAD SETSCREW M16 x 40	



ASSEMBLE BOLTS TO ALL SIDES  
EVEN IF NO WEIGHTS ARE REQUIRED

TOP PLATE OF ROTOR  
REMOVED FOR CLARITY

690 OPEN SIDED BARE ROTOR  
B69274105K



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Phone 684 7 856244

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BARMAC 690 ROTOR  
OPEN SIDED  
BARE ROTOR

DRAWN	RAYMOND SUNKEL
CHECKED	
DIMENSIONS	PART PAGE 1 of 1
mm	ISSUE PAGE 9 of 10

REQUISITION NUMBER	5386
DRAWING DATE	16 / 1 / 96

ISSUE REFERENCE	660317-1
DRAWING NUMBER	B69 274105K

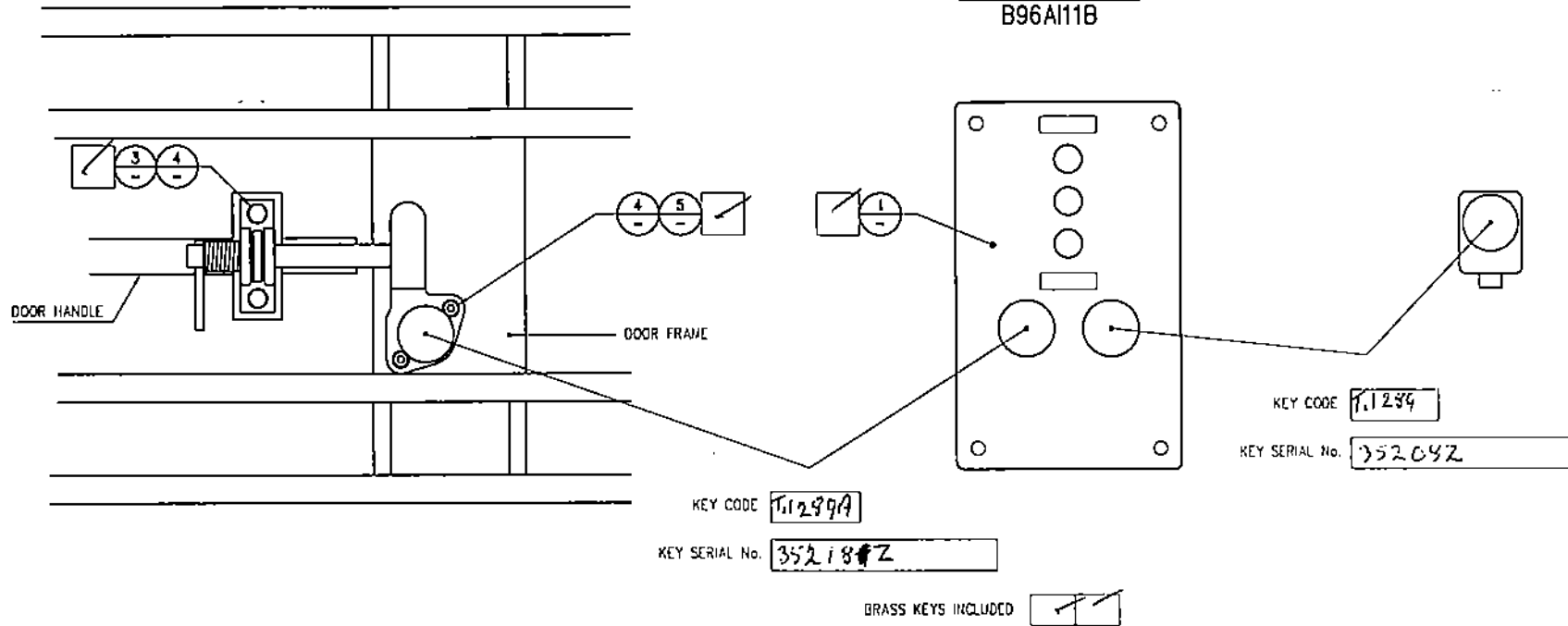
COMPONENT	DESCRIPTION	QTY.	ITEM
B96A110B	SAFETY INTER LOCK KIT	1 ASSY	
B96A111B	DOOR LOCK, TIMER BOX & DEADBOLT	1	1
B96A114A	DEADBOLT CAM OETL - ZW 16	1 EA	
B96A115A	DOOR INTERLOCK BOLT SET	1 SET	
BOLT 6*25	BOLT NUT M6 x 25	2	3
WASHER F6	WASHER M6 FLAT	4	4
CAPSCREW 6*45	CAPSCREW M6 x 45	2	5

CHANGE PENDING

No. 601

Hold  Refer  Ignore

DOOR LOCK, TIMER BOX & DEADBOLT  
B96A111B



DEADBOLT CAM  
B96A114A



SAFETY INTERLOCK KIT  
B96A110B

UNLESS OTHERWISE SPECIFIED :

PROJECTION 3rd ANGLE

TUBE/CO. HOLES  
- ALL TREADED HOLES TO BE RETAPPED AFTER PAINTING

BOLT TORQUES

M5	9 Nm
M6	22 Nm
M10	14 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SAWBOLT NUTS	74 Nm
M20 SAWBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY



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BARMAC 9600 DUOPACTOR  
SAFETY INTERLOCK KIT

DRAWN JUSTIN READ

CHECKED *T. Williams*

DIMENSIONS PART PAGE 1 of 1  
mm ISSUE PAGE 1 of 1

ISSUE REFERENCE

5386

DRAWING DATE

5 / 8 / 96

REQUISITION NUMBER

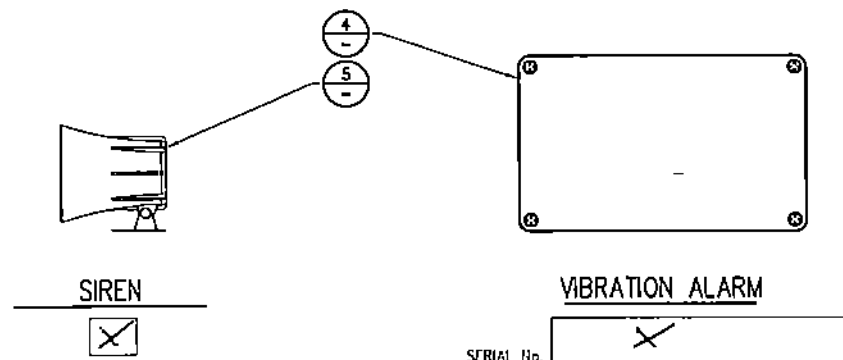
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DRAWING NUMBER

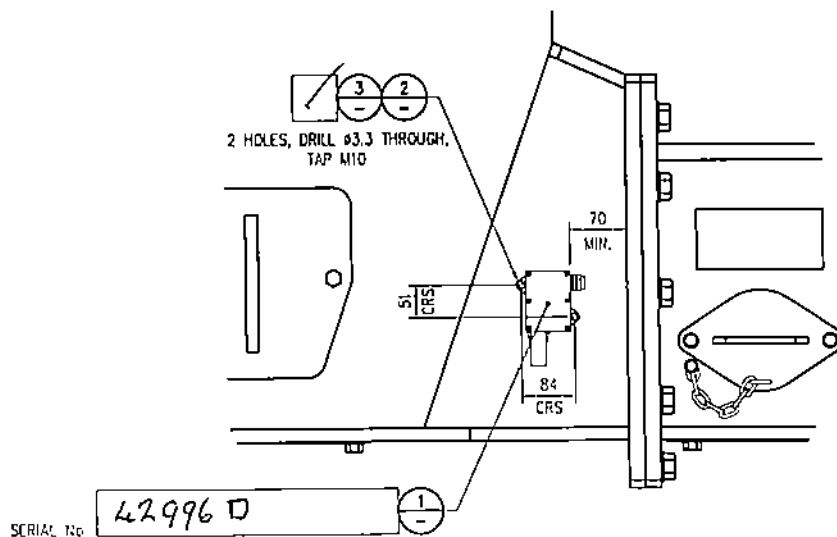
B96 AI10B

COMPONENT	DESCRIPTION	QTY.	ITEM
B96AV10A	VIBRATION CONTROL KIT	1 KIT	
- B96AV11A	VIBRATION SWITCH KIT	1 KIT	
- B96AV12A	VIBRATION SWITCH TYPE - 3171 12v DC SOLENOID RESET	1	1
- B96AV13A	VIBRATION SWITCH SCREW SET	1 SET	
- CHS HD SCREW 4x20	CHS HD SCREW M4 x 20	2	2
- WASHER F4	WASHER M4 FLAT	2	3
B96AV14A	VIBRATION ALARM UNIT	1 UNIT	
- VIBRATION ALARM	TYPE - AUCOM ROTOR ALARM CONTROL	1	4
- SIREN	TYPE - 12v DC, 120 dB	1	5

VIBRATION CONTROL KIT  
B96AV10A



NOTE: IF STARTER HAS BEEN ORDERED  
VIBRATION ALARM UNIT IS NOT REQUIRED.



REV.	DETAIL OF CHANGE	DATE	REF.
1	VIBRATION ALARM UNIT CHANGED	7/96	CS 609

UNLESS OTHERWISE SPECIFIED : PROJECTION 3rd ANGLE

THREADS/LUBES  
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING

BOLT TORQUES

M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SANDBOLT NUTS	74 Nm
M20 SANDBOLT NUTS	144 Nm

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BARMAC 9600 DUOPACTOR  
VIBRATION CONTROL KIT

DRAWN *JAMES MUDFORD*  
CHECKED *[Signature]*  
DIMENSIONS PART PAGE 1 of 1  
MATERIAL ISSUE PAGE 11 of 17

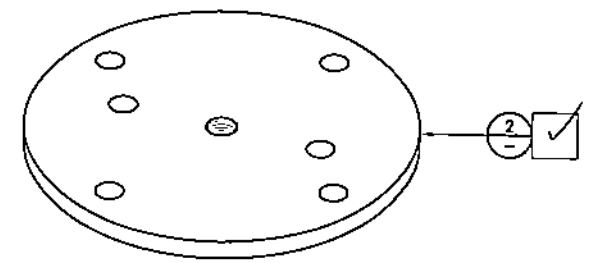
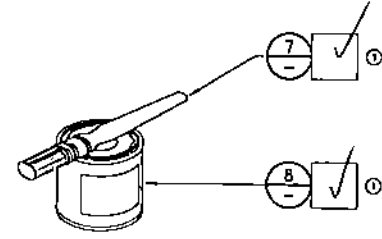
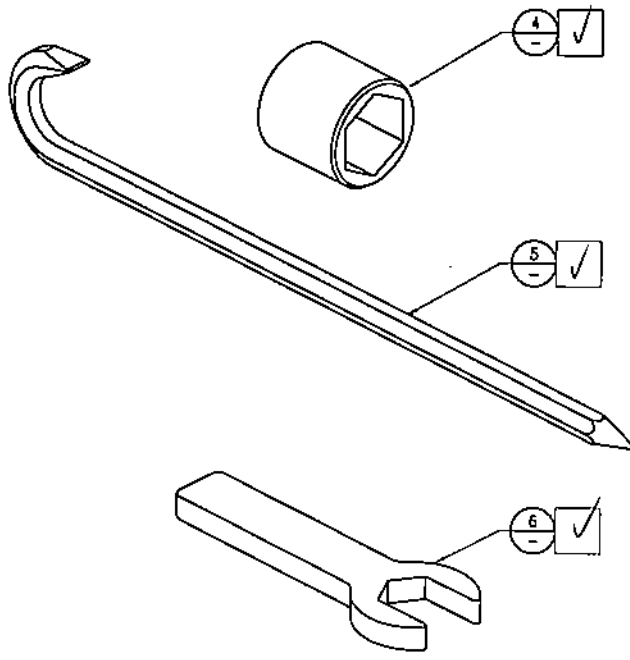
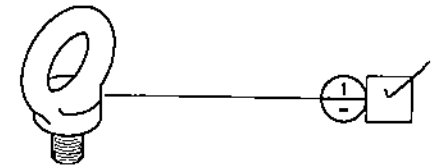
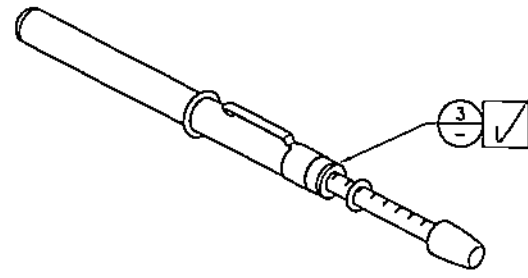
ISSUE REFERENCE  
**5386**

REQUISITION NUMBER  
**1000317-1**

DRAWING DATE  
**8/7/97**

DRAWING NUMBER  
**B96 AV10A**

COMPONENT	DESCRIPTION	QTY.	ITEM
B69AS00A	SERVICE TOOL KIT	1 ASSY	
- B69AS13	ROTOR LIFTING KIT	1 KIT	
- B96AS10B	LIFTING EYE BOLT M24	1	1
- B69AS12B	ROTOR LIFTING PLATE	1	2
- B96AS14	BELT TENSORER	1	3
- B96AS15	DISTRIBUTOR BOLT SOCKET 3/8 A/F x 1/2" SQUARE DRIVE	1	4
- B96AS16	PODGER BAR 600 Long x 16 Section	1	5
- B96AS17	SWING BOLT SPANNER	1	6
- B90AS19	TOUCH-UP PAINT KIT	1 KIT	
- B90AS19/A	BRUSH	1	7
- B90AS19/B	PAINT LEVENES CATACRYL 200ml	1	8



SERVICE TOOL KIT  
B69AS00A

UNLESS OTHERWISE SPECIFIED: PROJECTION 3rd ANGLE

DEBURRED EDGES  
- ALL PRE-DRILLED HOLES TO BE RE-DRILLED AFTER PAINTING

BOLT TORQUES

M6	3 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SWINGBOLT NUTS	74 Nm
M20 SWINGBOLT NUTS	144 Nm

- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY

1	TOUCH-UP PAINT KIT	4/96	CS 494
REV.	DETAIL OF CHANGE	DATE	REF.

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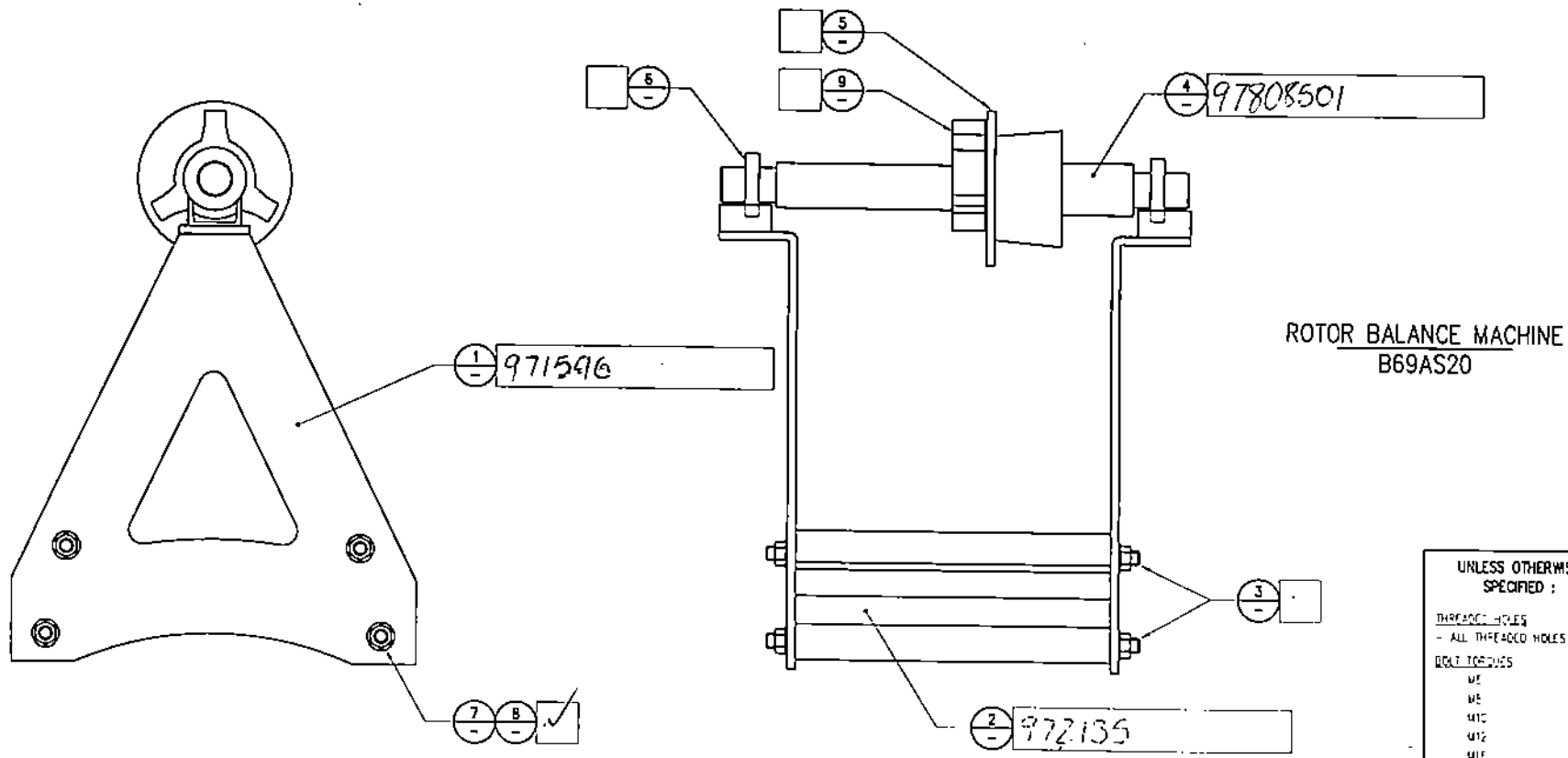
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BARMAC 6900 DUOPACTOR  
SERVICE TOOL KIT

DRAWN	GARTH TAYLOR
CHECKED	
DIMENSIONS	PART PAGE 1 of 1
mm	ISSUE PAGE 12 of 19

ISSUE REFERENCE	REQUISITION NUMBER
5386	1000317-1
DRAWING DATE	DRAWING NUMBER
20 / 6 / 96	B69 AS00A

COMPONENT	DESCRIPTION	QTY.	ITEM
B69AS20	ROTOR BALANCE MACHINE	1 ASSY	
B69AS21	ROTOR BALANCE SIDE FRAME	2	1
B69AS22	ROTOR BALANCE END BRACKET	2	2
B69AS23	ROTOR BALANCE TIE ROD	4	3
B69AS24	ROTOR BALANCE SHAFT	1	4
B69AS25	ROTOR BALANCE SHAFT WASHER	1	5
B96AS26	ROTOR BALANCE BEARING RADIAL BEARING UC210	2	6
B96AS27	ROTOR BALANCE BOLT SET	1 SET	
NUT 20	NUT M20	8	7
WASHER F20	WASHER F20 FLAT	8	8
B96AS29	ROTOR BALANCE LOCKNUT	1	9



ROTOR BALANCE MACHINE  
B69AS20

UNLESS OTHERWISE SPECIFIED :		PROJECTION  3rd ANGLE
THREADS HOLES - ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING		
BOLT TORQUES		
M6	9 Nm	
M8	22 Nm	
M10	44 Nm	
M12	77 Nm	
M16	195 Nm	
M20	372 Nm	
M24	640 Nm	
M16 SWANBOLT NUTS	74 Nm	
M20 SWANBOLT NUTS	144 Nm	
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY		

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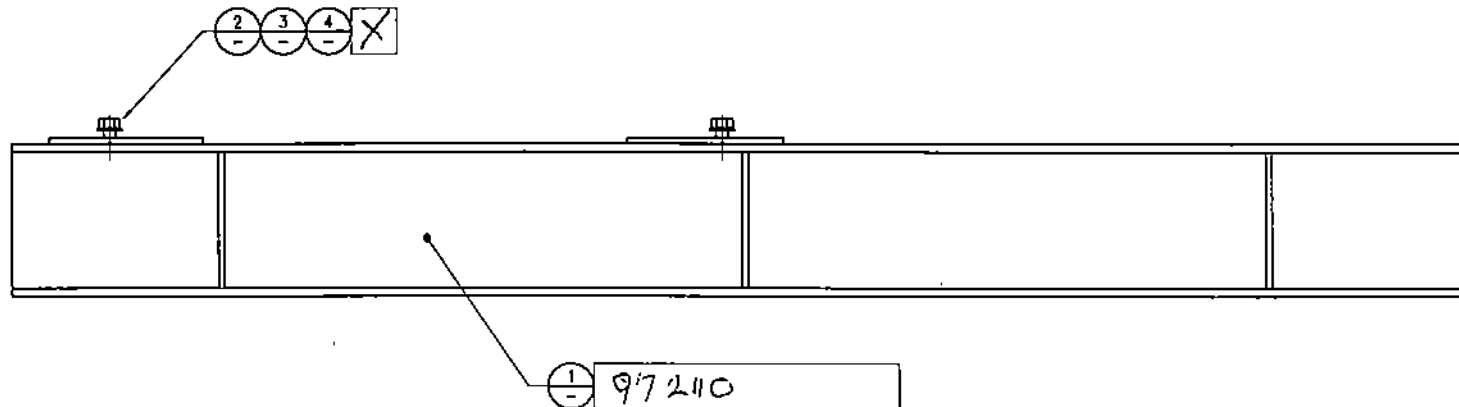
BARMAC 690 ROTOR  
ROTOR BALANCE MACHINE

DRAWN	JARROD MUDFORD
CHECKED	<i>E.H.</i>
DIMENSIONS	PART PAGE 1 of 1
mm	ISSUE PAGE 1 of 1

ISSUE REFERENCE	REQUISITION NUMBER
S386	1000317-1
DRAWING DATE	DRAWING NUMBER
14 / 5 / 97	B69 AS20



COMPONENT	DESCRIPTION	QTY.	ITEM
B60AP01	SUPPORT FRAME KIT	1 KIT	
B60AP02	SUPPORT FRAME	1	1
B69AP03	SUPPORT FRAME BOLT SET	1 SET	
BOLT 24x65	BOLT / NUT M24 X 65	4	2
WASHER T24	WASHER M24 TAPERED	4	3
WASHER H24	WASHER M24 HARDENED	4	4



SUPPORT FRAME KIT  
B60AP01

UNLESS OTHERWISE SPECIFIED :	PROJECTION	3rd ANGLE
THREADS - ISO/IEC		
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING		
BOLT TORQUES		
M6	9 Nm	
M8	22 Nm	
M10	44 Nm	
M12	77 Nm	
M16	190 Nm	
M20	372 Nm	
M24	640 Nm	
M16 SANKBOLI NUTS	74 Nm	
M20 SANKBOLI NUTS	144 Nm	
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY		

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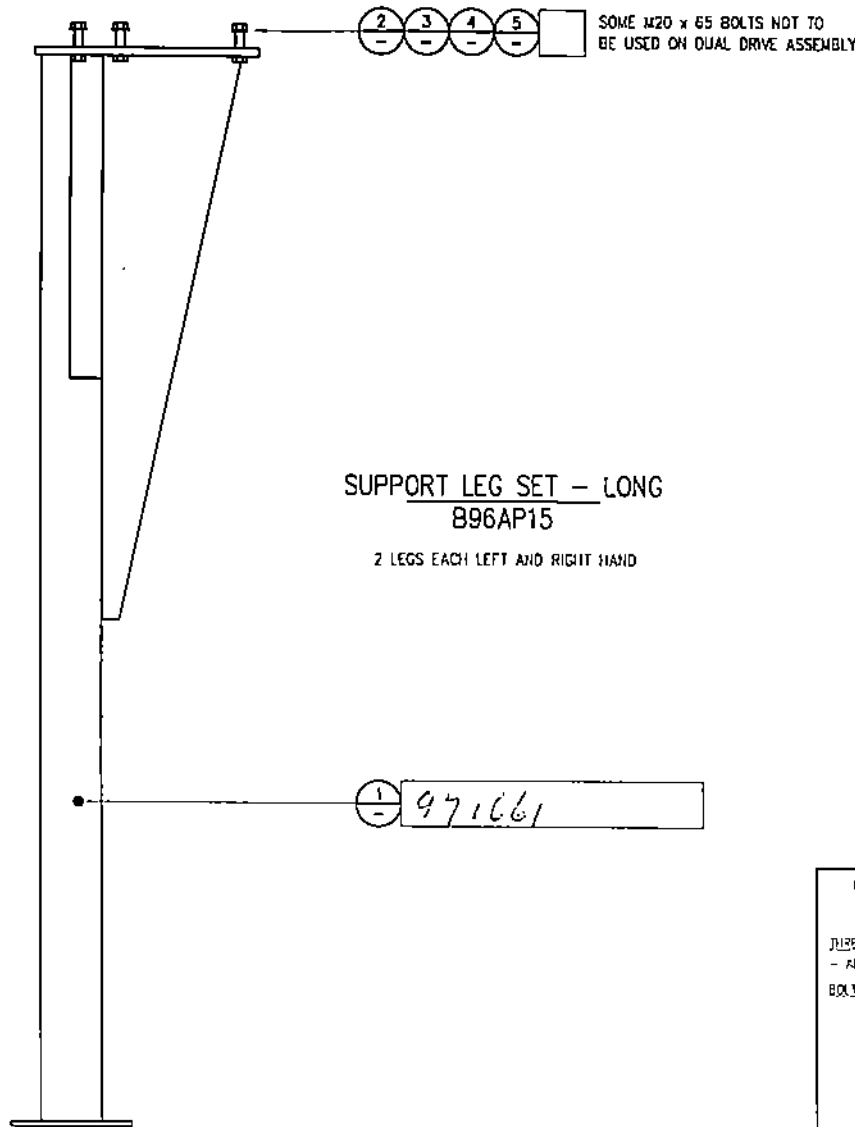
BARMAC 6000 DUOPACTOR  
 SUPPORT FRAME KIT

DRAWN JAAROD MUDFORD  
 CHECKED T.G.  
 DIMENSIONS PART PAGE 1 of 1  
 mm ISSUE PAGE 19 of 19

ISSUE REFERENCE  
 5386  
 DRAWING DATE  
 14 / 5 / 97

REQUISITION NUMBER  
 1000317-1  
 DRAWING NUMBER  
 B60 AP01

COMPONENT	DESCRIPTION	QTY.	ITEM
B96AP15	SUPPORT LEG SET - LONG	1 ASSY	
B96AP16	SUPPORT LEG	4	1
B96AP12	LEG BOLT SET	1 SET	
BOLT 20x80	BOLT / NUT M20 x 80	8	2
BOLT 20x65	BOLT / NUT M20 x 65	12	3
WASHER F20	WASHER M20 FLAT	12	4
WASHER H20	WASHER M20 HARDENED	12	5



**SUPPORT LEG SET - LONG**  
**B96AP15**

2 LEGS EACH LEFT AND RIGHT HAND

UNLESS OTHERWISE SPECIFIED :	PROJECTION  3rd ANGLE
LUBRICATED HOLES	
- ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING	
BOLT TORQUES	
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	190 Nm
M20	372 Nm
M24	640 Nm
M16 SWINGBOLT NUTS	74 Nm
M20 SWINGBOLT NUTS	144 Nm
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY	

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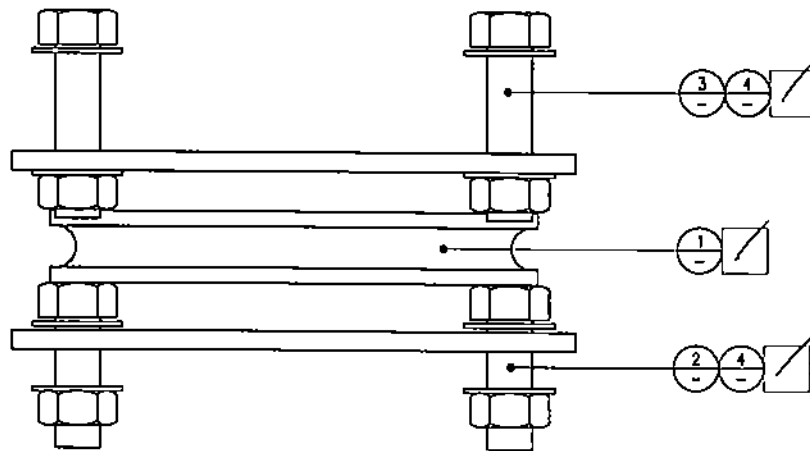
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**BARMAC 9600 DUOPACTOR**  
**SUPPORT LEG SET - LONG**

DRAWN	JARROD MUDFORD
CHECKED	
DIMENSIONS	PART PAGE 1 of 1
mm	ISSUE PAGE 15 of 19

ISSUE REFERENCE	REQUISITION NUMBER
538C	1000317-1
DRAWING DATE	DRAWING NUMBER
14 / 5 / 97	B96 AP15

COMPONENT	DESCRIPTION	QTY.	ITEM
B50AP90	VIBRATION MOUNT KIT	1 KIT	
- B50AP91	ANTIVIBRATION MOUNT HOMBRA SAW 125 HARDNESS B	1	1
B90AP92	ANTIVIBRATION MOUNT BOLT SET	1 SET	
- BOLT 12x50	BOLT / NUT M12 x 50 4D	16	2
- BOLT 12x35	BOLT / NUT M12 x 35	16	3
- WASHER F12	WASHER M12 FLAT	64	4



VIBRATION MOUNT KIT  
B50AP90

UNLESS OTHERWISE SPECIFIED :	PROJECTION  3rd ANGLE
IMPERFECT HOLES - ALL THREADED HOLES TO BE RETAPPED AFTER PAINTING	
BOLT TORQUES	
M5	9 Nm
M6	22 Nm
M8	44 Nm
M10	77 Nm
M12	150 Nm
M16	372 Nm
M20	640 Nm
M24	74 Nm
M16 SWANDBOLT NUTS	144 Nm
M20 SWANDBOLT NUTS	144 Nm
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY	

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BARMAC 5000 DUPACTOR  
VIBRATION MOUNT KIT

DRAWN JAAROD MUDFORD

CHECKED *[Signature]*

DIMENSIONS PART PAGE 1 of 1  
mm ISSUE PAGE 17 of 19

ISSUE REFERENCE

5386

DRAWING DATE

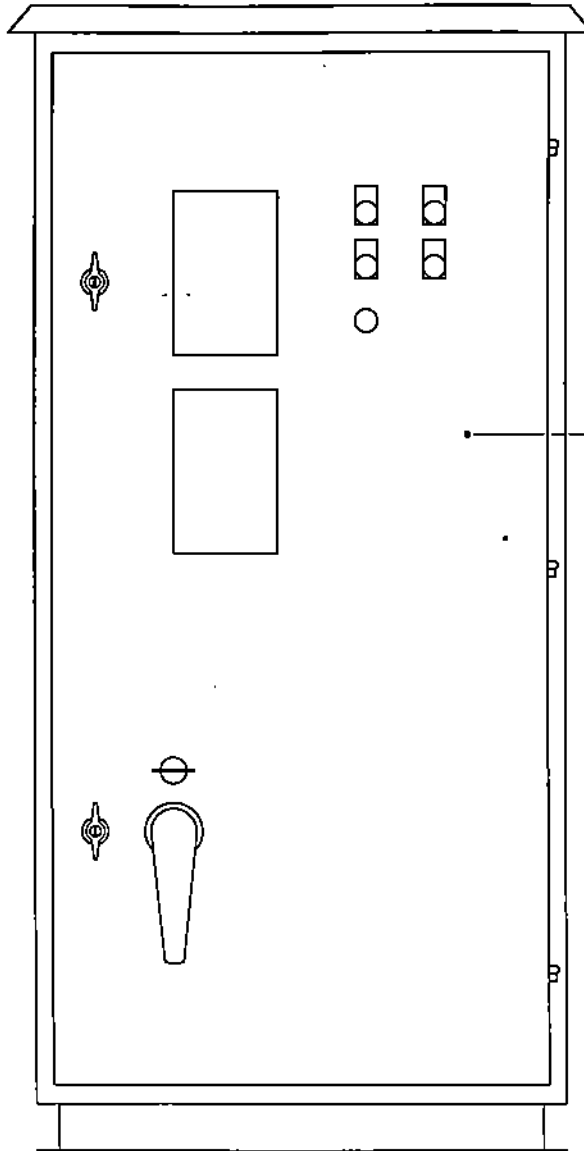
14 / 5 / 97

REQUISITION NUMBER

1000317-1

DRAWING NUMBER

B50 AP90

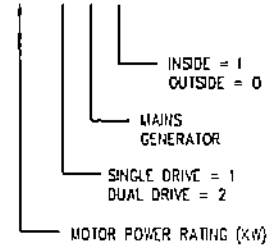


SERIAL No.

61004

AUCOM SOFT START MOTOR CONTROL CENTRE

ASS XXX X X X



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AUCOM SOFT START  
MOTOR CONTROL CENTRE

DRAWN JAAROD MUDFORD		ISSUE REFERENCE	REQUISITION NUMBER
CHECKED <i>[Signature]</i>		5386	1000317-1
DIMENSIONS	PART PAGE 1 of 1	DRAWING DATE	DRAWING NUMBER
mm	ISSUE PAGE 18 of 19	8 / 7 / 97	BC STARTERA

	3000				5000				6000				7000				8000				9000 / XHD					
RATED POWER (KW)	7.5	9.2	11	15	30	37	45	55	55	75	92	110	110	150	185	75	92	110	150	185	110	132	150	185	220	260
FRAME SIZE	132	132	160	160	200	225	225	250	250	260	280	280	280	315	315	315	250	280	280	315	315	280	315	315	355	
A	12	12	14	14	18	18	18	22	22	22	22	22	22	26	26	26	22	22	22	26	26	22	26	26	26	
B	95	95	114	114	139	155	155	174	155	155	177	177	177	203	203	203	155	177	177	203	203	177	203	203	241	
C	140	178	210	254	305	311	311	349	349	349	419	419	419	457	457	457	349	419	419	457	457	419	457	457	630	
D	216	216	254	254	318	356	356	406	406	406	457	457	457	508	508	508	406	457	457	508	508	457	508	508	610	
BOLT SIZE	M10	M10	M12	M12	M16	M16	M16	M20	M20	M20	M20	M20	M20	M24	M24	M24	M20	M20	M20	M24	M24	M20	M24	M24	M24	
TORQUES (Nm)	44	44	77	77	190	190	190	372	372	372	372	372	372	640	640	640	372	372	372	640	640	372	640	640	640	

LESS OTHERWISE SPECIFIED : PROJECTION  3rd ANGLE


- MACHINING ALLOWANCE - PROFILED PLATE : UP TO 50 mm THICK = 6 mm ON DIA.  
OVER 50 mm THICK = 10 mm ON DIA.
- BAR STOCK : UP TO 75 mm DIA = 6 mm ON LENGTH  
OVER 75 mm DIA = 10 mm ON LENGTH  
OVER 200 mm DIA = 15 mm ON LENGTH
- TOLERANCES - LENGTH : UP TO 200 mm = ±0.50  
EACH ADDITIONAL 50 mm = ±0.10
- DIAMETER : UP TO 50 mm = ±0.10  
EACH ADDITIONAL 50 mm = ±0.10
- HOLE CENTRES : IN ALL CASES = ±0.25
- SURFACE FINISH - ▽ NB (SEE BELOW)
- GENERAL - ALL SHARP EDGES TO BE REMOVED  
- NO SALVAGE WELDING WITHOUT PRIOR APPROVAL

DRILLING : A = HOLE Ø

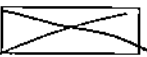
B = HEIGHT FROM BASEPLATE

C = VERTICAL CENTRES

D = HORIZONTAL CENTRES

SIGNED 

ASSEMBLY :

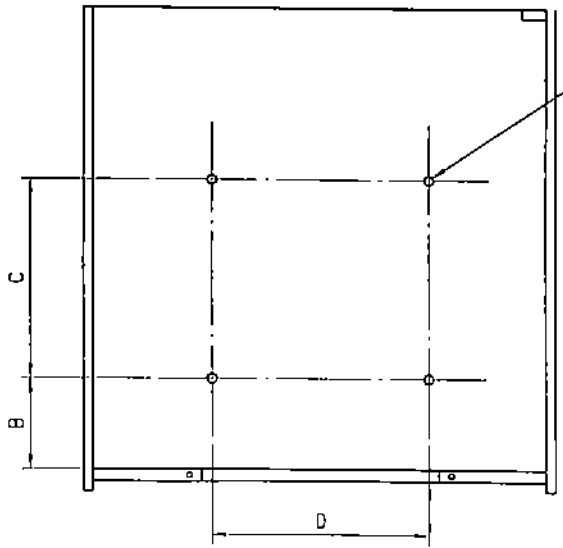
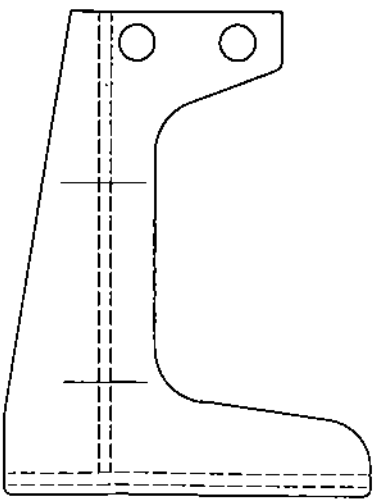
- RECORD MOTOR SERIAL NUMBERS :  S/D +  D/D

- BOLT MOTOR TO MOTOR MOUNT TORQUEING TO  Nm.

- USE 4 BOLTS  x  LONG, NUTS AND FLAT HARDENED WASHERS TO SUIT.

- MAKE SURE GLAND PLATE OF TERMINAL BOX IS FACING THE SHAFT END OF THE MOTOR.

SURFACE FINISHES ▽ = STANDARD MACHINED FINISH = N8 (3.2 micron)  
▽▽ = FINE MACHINED FINISH = N7 (1.6 micron)  
▽▽▽ = POLISHED FINISH = N6 (0.8 micron)



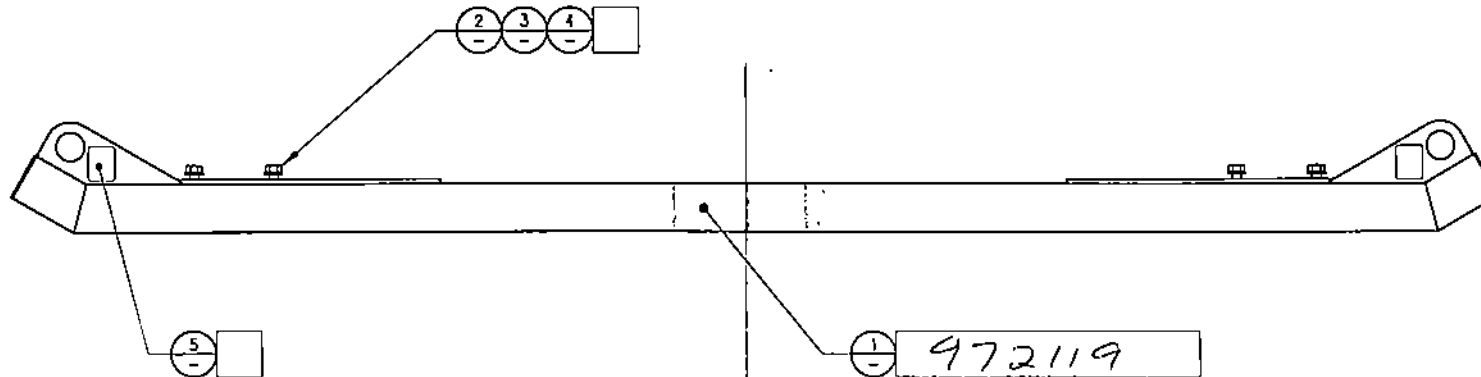
4 HOLES, DRILL ØA THROUGH

MOTOR MOUNT DRILLING

JOB No.

QTY.

COMPONENT	DESCRIPTION	QTY.	ITEM
B69AP20	SKID FRAME KIT	1 KIT	
- B69AR21	SKID FRAME	1	1
- B96AP22	SKID FRAME BOLT SET	1 SET	
- BOLT 24x55	BOLT / NUT M24 x 55	16	2
- WASHER F24	WASHER M24 FLAT	16	3
- WASHER H24	WASHER M24 HARDENED	16	4
- B90AP23A	DECAL "DRAG CRUSHER ONLY"	4	5



SKID FRAME KIT  
B69AP20

CUT IN PROFILE

UNLESS OTHERWISE SPECIFIED :	PROJECTION  3rd ANGLE
<b>THREADED HOLES</b> - ALL THREADED HOLES TO BE RETAPPED AFTER BARTING	
<b>BOLT TIGHTENING</b>	
M6	9 Nm
M8	22 Nm
M10	44 Nm
M12	77 Nm
M16	150 Nm
M20	372 Nm
M24	640 Nm
M16 SWANBOLT NUTS	74 Nm
M20 SWANBOLT NUTS	144 Nm
- ALL THREADS TO BE LIGHTLY LUBRICATED PRIOR TO ASSEMBLY	

1	DECAL ADDED	5/97	CS 655
REV.	DETAIL OF CHANGE	DATE	REF.



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product drawn may infringe copyright.

BARMAC 6900 DUOPACTOR  
SKID FRAME KIT

DRAWN JUSTIN READ

CHECKED *T. Glen*

DIMENSIONS mm	PART	PAGE 1 of 1
	ISSUE	PAGE 16 of 19

ISSUE REFERENCE

5386

DRAWING DATE

30 / 5 / 97

REQUISITION NUMBER

600317-1

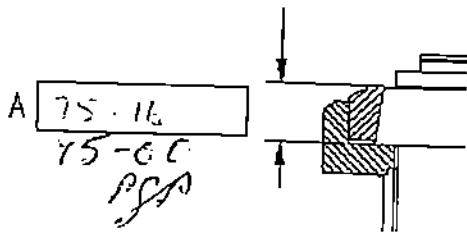
DRAWING NUMBER

B69 AP20

1.2 Check Tool  
 1.1 Ensure correct Bearing Cartridge Fitting Form is included with this drawing.

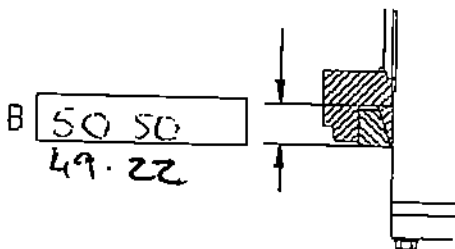
# BEARING CARTRIDGE FITTING

This form to stay with the base until stage 12 of Bearing Cartridge Fitting ED513



**Minimum Dimension "A"**

2400/3000.....	38
4800/5000.....	48
MkI/6000/7000/8000/MkII.....	72
MkIII/9000.....	102



**Minimum Dimension "B"**

2400/3000.....	24
4800/5000.....	24
MkI/6000/7000/8000/MkII.....	47
MkIII/9000.....	47

Top Taper Ring  
 973202 08

Bearing Cartridge  
 973180 02

Unit Number  
 390

Bottom Taper Ring Inner  
 973183 19

Bottom Taper Ring Outer  
 973182 11

Base Type  
 6000

Base Number  
 972162

Assembled By: *J. Holdsworth*  
 Signed

Date: 20-8-97