



STANDARD OPERATING PROCEDURE

Ref:	SOP-0199-03-N-DEV
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Description:	1CM Starpoint Technical Information
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1CM - Coin Mechanism





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Introduction

The 1CM Coin Mechanism is a unit designed to provide the games designer with a means to portray a tumbling coin. This coin would appear to the player to be tumbling in free space.

The motor is incremented by phase control of the motor windings, the order of the waveform step changes giving forward or reverse rotation. The start and stop sequence or ramp up, ramp down, need to be designed with care so that the appearance to the player of starting or stopping is real.

The decals on the two faces of the coin are provided by adhesive backed PVC discs. It is possible to provide any picture a game designer may require.

CONDITIONS OF USE

1. Temperature Range

The mechanism will operate satisfactorily in the temperature range from 0°C to 50°C, provided there is an unrestricted flow of air and proper motor control is exercised.

2. Humidity

The unit will operate in the range of 0% to 95% - relative humidity.

3. Continuous Use

There is no practical limit to continuous use assuming normal motor temperature control procedures are followed. It is expected that normal operation is a minimum 12-hour day.

4. Operational Environment

It is recommended that the unit is not operated in an exposed environment if the public are present. The most suitable method of operation should be behind a glass or screen with a shroud around the cup assembly to hide the mechanism and present the coin to the player.

5. Operational Life

The units have been subjected to various accelerated life tests and a minimum operational life in excess of one million cycles is assumed.

6. Tools & Installation

It is recommended that for ease of assembly and servicing, that either the Starpoint 'Quick Release' fixing feet or Starpoint 'Glass Mounted' foot is used when fixing the unit to a cabinet. Tools will therefore not be required for the installation or removal of the unit. For correct positioning of the fixing feet & glass mounted foot please refer to Starpoint Drawing G4G013-01-ZZZZ & G4G015-01-ZZZZ.

7. Handling

The mechanism gear assembly is factory set. When handling the unit it must always be held by the plastic stand or frame. If the unit is carried, lifted or turned by the plastic cup, it is possible to dislodge the gears and put the gear sequence out of step with the viewing faces.

It is not recommended that the power connection be removed from the unit while the unit is in operation. Failure to remove power will most likely result in damage to the devices in the unit.

8. Warranty

A guarantee of 12 months from the shipment date is available for the 1CM mechanism, subject to Starpoint's standard terms and conditions. This guarantee is offered irrespective of the number of operations of the unit during this period, but subject to operation within the environmental conditions specified above.

A unit, which may require return under guarantee, should be returned directly to Starpoint or the local distributor.

MECHANICAL SPECIFICATIONS

1. **Assembly – Base or Glass Mounting**

Starpoint Drawings G4G013-01-ZZZZ & G4G015-01-ZZZZ shows the General Assembly of the unit, mounted by base or glass mounted applications. When the unit is mounted on the base, the presentation of the viewing area of the coin may be adjustable through 0° to 90°. When glass mounted the unit is a fixed position. The unit will operate in any orientation but must be rigidly fixed to the cabinet with the viewing area in the correct orientation.

2. **Coin Decals**

The coin has been designed to accept any design of decal; to enable customer design, the details of material, size and orientation pips are shown on Starpoint Drawing G6D012-01-ZZZZ. Decals can be changed by carefully removing existing decals or adhering new decals over the top of the old ones, this process may only be carried out once. After which the weight if the decals will not permit proper rotation of the coin. For identification, the two faces of the coin are marked with the letters A & B.

3. **Gear Ratio**

Three full revolutions (144 steps) of the motor will, via the gear ratio of the coin mechanism, cause both faces of the 1CM to be viewed, i.e. every 72 motor steps moves the 1CM to a new face. The games designer is able to control and monitor position by reference to the optic detector. The optic detector is only interrupted when face 'A' (as shown on drawings G4G013-01-ZZZZ and G4G015-01-ZZZZ) is correctly displayed.

4. **Customer Cone Information**

Starpoint drawings F4C015-01-ZZZZ & G6D013-01-ZZZZ show suggested examples of cone vacuum forming & cone decal, which customer's may wish to use as a guide. Starpoint does not supply these.

ELECTRICAL SPECIFICATIONS

1. Electrical Connections

A circuit diagram for the unit is shown in Starpoint Drawing G5D001-01-ZZZZ. The unit is interfaced to the users product by means of a 15 way Molex connector type 7720S Series # 22-50-3155 (IDC Terminal) or 6471 Series No 22-01-2155 (crimp terminal type: 4809)

2. Stepper Motor

The 1CM is supplied with a 12V 48 Step to drawing – A1C004-01-ZZZZ. This motor is manufactured by NMB Japan.

3. Position Control Sensor

Position control is by a self-contained photo optic detector from Temic (AEG, Telefunken) manufacturers part # TYCS 5201 - Starpoint Part No. B2C001-01-ZZZZ. The optic detector is complete with built in Schmitt trigger and open collector output. A high level denotes the optic detector is interrupted. This is a plug in device and may easily be changed.

4. Red LED Indicator

The red LED, fitted in the interface connector, is a service facility to indicate the correct operation of the photo optic detector as described in Section 3. This LED will illuminate when the optic is interrupted if the coin unit is functioning correctly. Manufacturer Temic Part # TLRH4400, (12 volt version used with 5 volt logic for current conservation).

5. Stepper Motor Control

The unit is controlled by a 48-step 12-volt motor, which locates the coin faces in the pre-defined position. There are 72 motor steps from one coin face to the next. Appendix A contains suggested ramps for up, down and run speeds for 39rpm, 52rpm. **Note:** - It is not recommended to drive the 1CM at speeds greater than 52 RPM.

To limit heating effect and save motor supply current drain, it is advised that the power applied to the motor at standstill be pulsed or turned on and off. This provides the required holding torque at standstill and will prevent inadvertent coin movement. It is also recommended that a short delay of 500mS be used before commencing this switching procedure after the coin stopped and before starting the next spin cycle. The delays are to ensure that the on/off sequence does not influence the start and stop ramping. Overall duty cycle of 40%.

6. Stepper Motor Timing Diagram

Appendix C shows a schematic of the unit and an example of the motor pulse timing diagram.

7. Motor Drive Software

a. Reset Procedure

This procedure is recommended at power on, or on occasion when the software identifies that the 1CM is out of step or in an incorrect position.

- Drive the motor approximately 39 RPM
- At every motor step change, monitor the optic output. Immediately the optic tab is detected by the optic cease driving the motor.
- Wait 500mS then power up the motor on the Black and Yellow windings.
- Wait 500mS, this allows the 1CM to settle in position. Check that the optic tab is central in the optic detector. If not repeat above steps, if the optic tab is still not in the optic detector, then there is a fault.
- The 1CM and the software are now initialised.
- Now enter the standstill mode or resume the game in play, whichever is appropriate.

b. Optic Tab Monitoring During Rotation

During rotation or game play it is important to monitor the optic tab to confirm it is at the expected position. This can be achieved during rotation as long as a window is set around the time the optic tab is expected to be seen. This window is to allow for ramping up or down of the motor and variation in the operational spin speeds. To confirm the coin is in synchronisation carry out the following tests in software.

1. When the coin is to stop on face "A", ensure the step sequence stops with the black and yellow windings energised. The optic tab will be in the optic detector. If the optic tab is not in the optic detector enter the reset procedure.
2. To monitor the optic tab during rotation create a window of 6 motor steps, within which the optic tab should interrupt the optic detector. This window is dependant on users software and may need development to an optimum size. If difficulty is experienced with this monitoring, please contact Starpoint on +44 (0) 208 391 7700.

8. Motor Phase Setting

This adjustment may be required when due to exceptional circumstances the motor requires replacement or the gear train need re-alignment. If this adjustment is necessary, contact Starpoint to arrange a suitable repair or replacement.

ORDERING INFORMATION

The production build standard for the 1CM is defined in the specification sheet shown in Appendix B. It is most important to complete the specification sheet when ordering. If difficulty is experienced in completing the sheet, assistance can be obtained by contacting Starpoint on +44 (0) 20 8391 7700.

The following deals with each section in order down the specification sheet.

Customer

Complete the purchasing Company's name.

Customer Part Number

Enter the Customer part number as this will be cross-referred to the Configuration / Specification Number. Both numbers are included on the order and invoice documents.

Date

Complete the date specification sheet is completed.

Comments

An area is available to highlight any special instructions.

Mechanism Type

This is pre-defined. NU refers to 1CM.

Motor

The only one option of motor available is a 48 step, 12v DC NMB unit.

Coin Colour

The coin is available in the colours listed. Other colours may be available on request, contact Starpoint for colour options.

ORDERING INFORMATION - continued

Receptacle Colour

The receptacle is available in the colours listed. Other colours may be available on request, contact Starpoint for colour options. The receptacle is the cup assembly that contains the coin.

Frame Type

The standard option of frame should be specified.

Base

The 1CM unit is available with either the standard base or without, for glass or customer's specific mounting.

Loom

The 1CM unit is available with a standard loom. Details of pin out are shown in drawing G5D001-01-ZZZZ.

Decal Information

Decal set should be specified; this may be a customer defined set. Both of the faces should be defined in the Coin Face Reference box. Example; 'A' face = heads, 'B' face = tails.

Set Position of Frame

This provides the angle that the frame is to be set at when fitted onto a base during manufacture.

Fixing Feet

When standard base fixing is required, 1 off fixing foot 18S008-01-AFBK & 18S009-01-AUBK should be ordered as separate items, per unit. When glass mounting is required, 1 off mounting base 18S023-01-ANBK should be ordered as a separate item, per unit.

CARRIAGE AND DISTRIBUTION

All Starpoint 1CM mechanisms are individually packed in custom designed individual polystyrene packing. These in turn are packed into a cardboard outer box. The quantity per box is 30. The outer box dimensions are;

Internal dimensions - 830 x 544 x 589 mm.

External dimensions (approx) - 840 x 565 x 605 mm.

Appendix A

Ramp Table Examples

All values are in milliseconds (mS) and are the delays between phase changes.

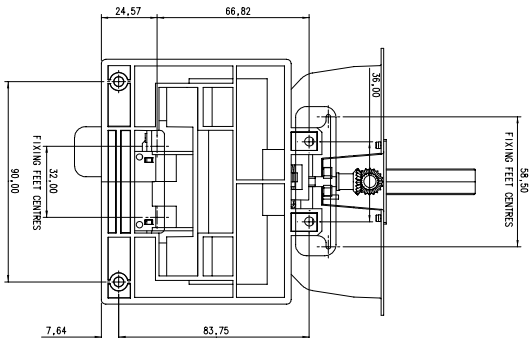
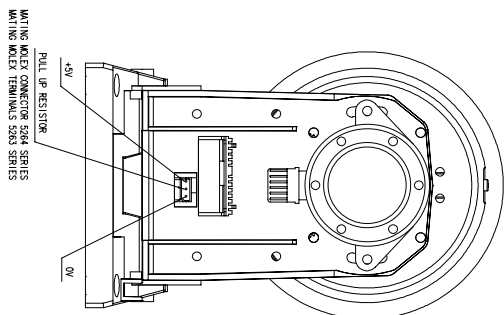
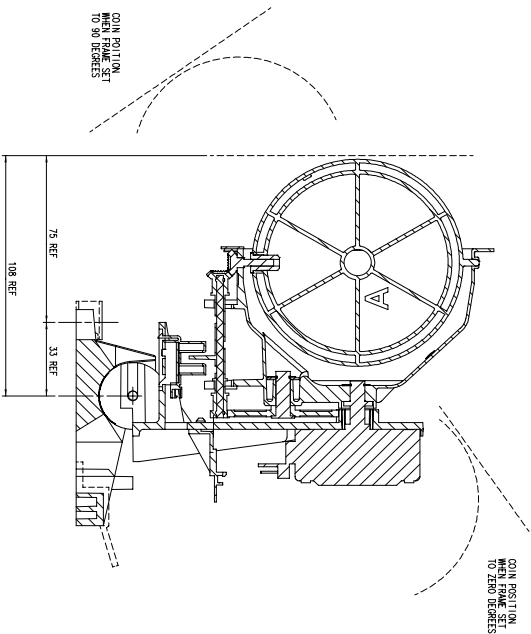
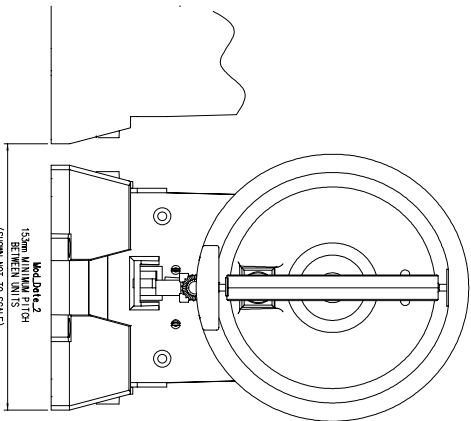
39 RPM	UP	42 – 32 – 14 – 28
	RUN	32
	DOWN	34 – 32 – 36

52 RPM	UP	34 – 30 – 24 – 26
	RUN	24
	DOWN	30 – 26 – 30

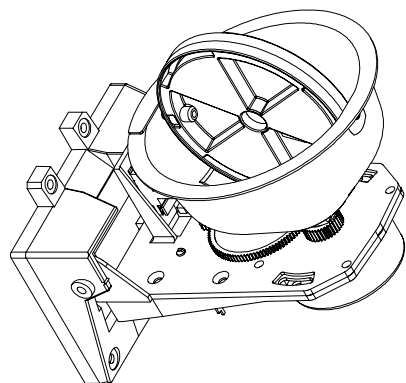
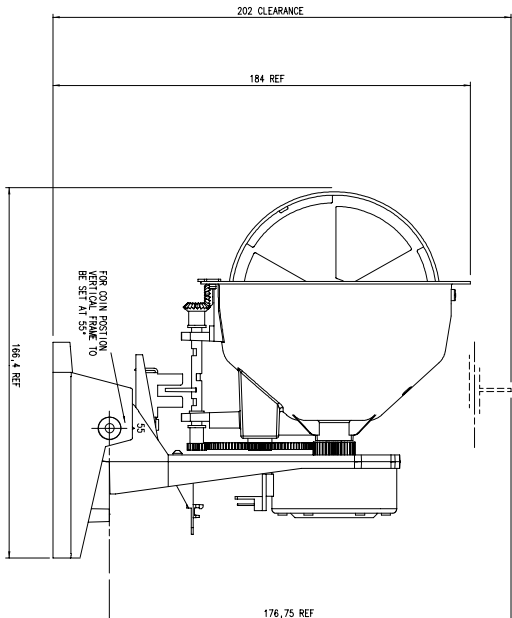
These ramp tables are nominal values, intended as a guide for initial software development. Ramps should be optimised to meet individual requirements, depending on hardware/software drive methods.

Appendix B

STARPOINT		1CM SPECIFICATION / QUOTATION SHEET		
		CUSTOMER:		
		CUSTOMER PART NUMBER:		
		DATE:		
		QUOTATION REQUIRED:	YES / NO	
		QUANTITY REQUIRED:	XXXX	
		COMMENTS:		
COIN FACE A =		COIN FACE B =		
MECH	1CM COIN MECHANISM		NU	
MOTOR	VOLTAGE/ STEP ANGLE	A 12V. 48 STEP NMB	A	
COIN	COLOUR	Y GOLD	G CLEAR	A BLACK
RECEPTACLE	COLOUR	A BLACK	P WHITE	
FRAME	TYPE	1 STANDARD	1	
BASE	TYPE	1 STANDARD	Z NOT REQUIRED OR GLASS MOUNTED	
LOOM	TYPE	A STANDARD	A	
DECAL	TYPE	ZZ NOT FITTED	XX CUSTOMER SPECIFIC	
SETTING	FRAME POSITION	ZZ N/A NO BASE REQUIRED OR GLASS MOUNTED	0 - 90 (SEE PICTURE ABOVE)	
<p style="text-align: right;">STARPOINT</p> <p>UNITS 1-5, KING GEORGES TRADING ESTATE, DAVIS ROAD, CHESSINGTON, KT9 1TT TEL: +44 (0) 20 8391 7700 FAX: +44 (0) 20 8391 7760 E-MAIL: info@starpoint.uk.com SOPF-0161-02-N-DEV</p>				

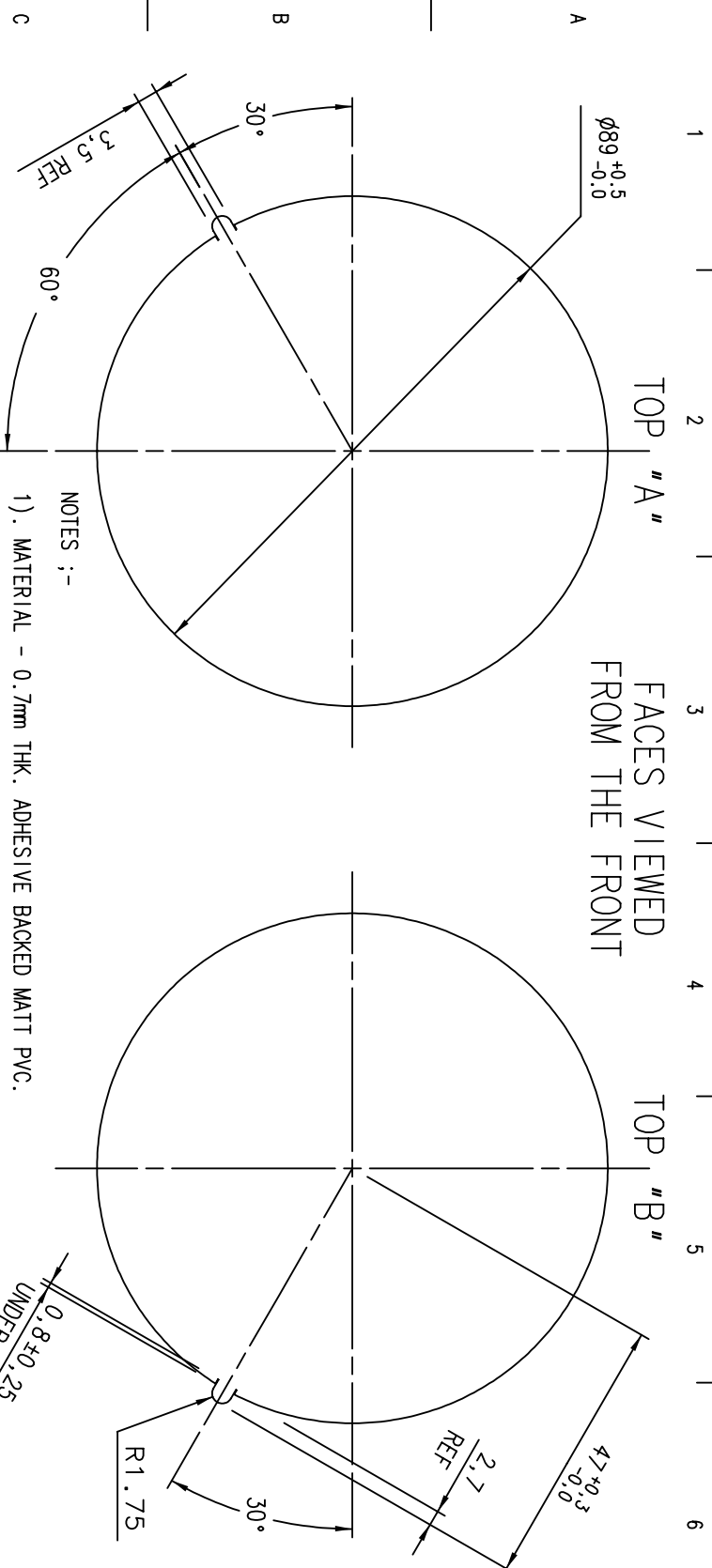


FIXING DETAILS



UNLESS OTHERWISE STATED		UNITED KINGDOM	ISSUE	1
DRAWN BY: J.S.		DATE: 04/10/02	RELEASE FOR INFO PACK	01
CHECKED BY: J.S.		DATE: 04/10/02	MODIFICATION	01
TITLED		FOR COIN UNIT (BASE MOUNT)		
SCALE: 1:1		MAIN GENERAL ASSEMBLY		
SHEET ONE		SPECIFICATION		
DRAWING No. G40015		ISSUE: 01		
SHEET ONE		ZZZZ		



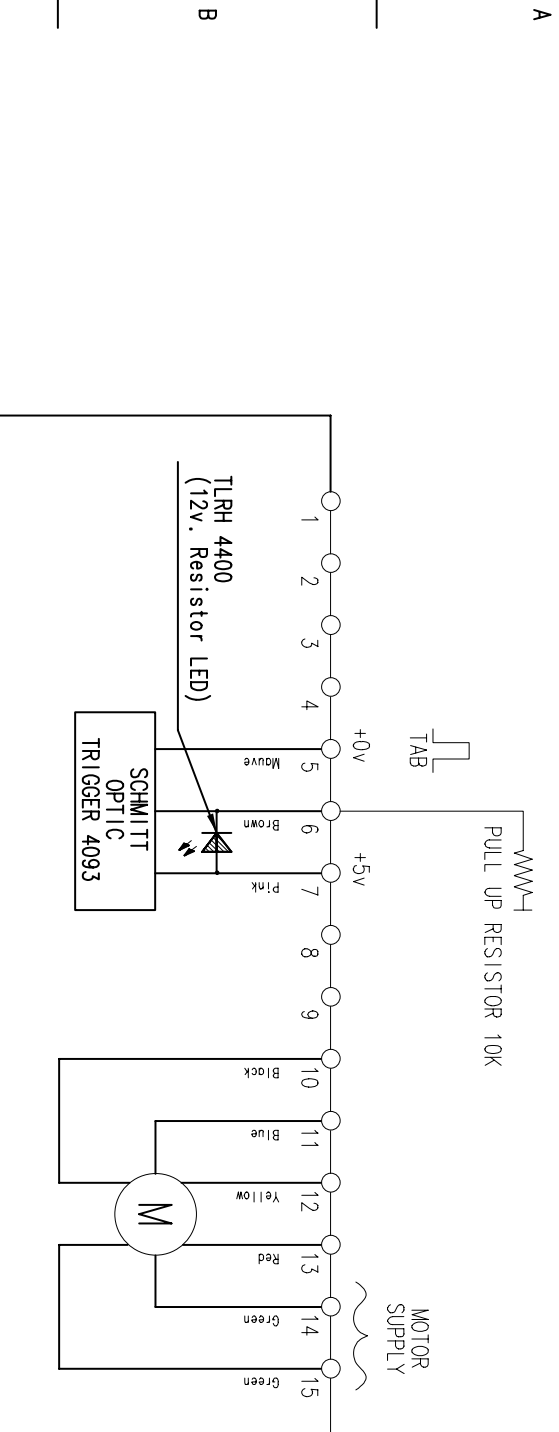


NOTES :-

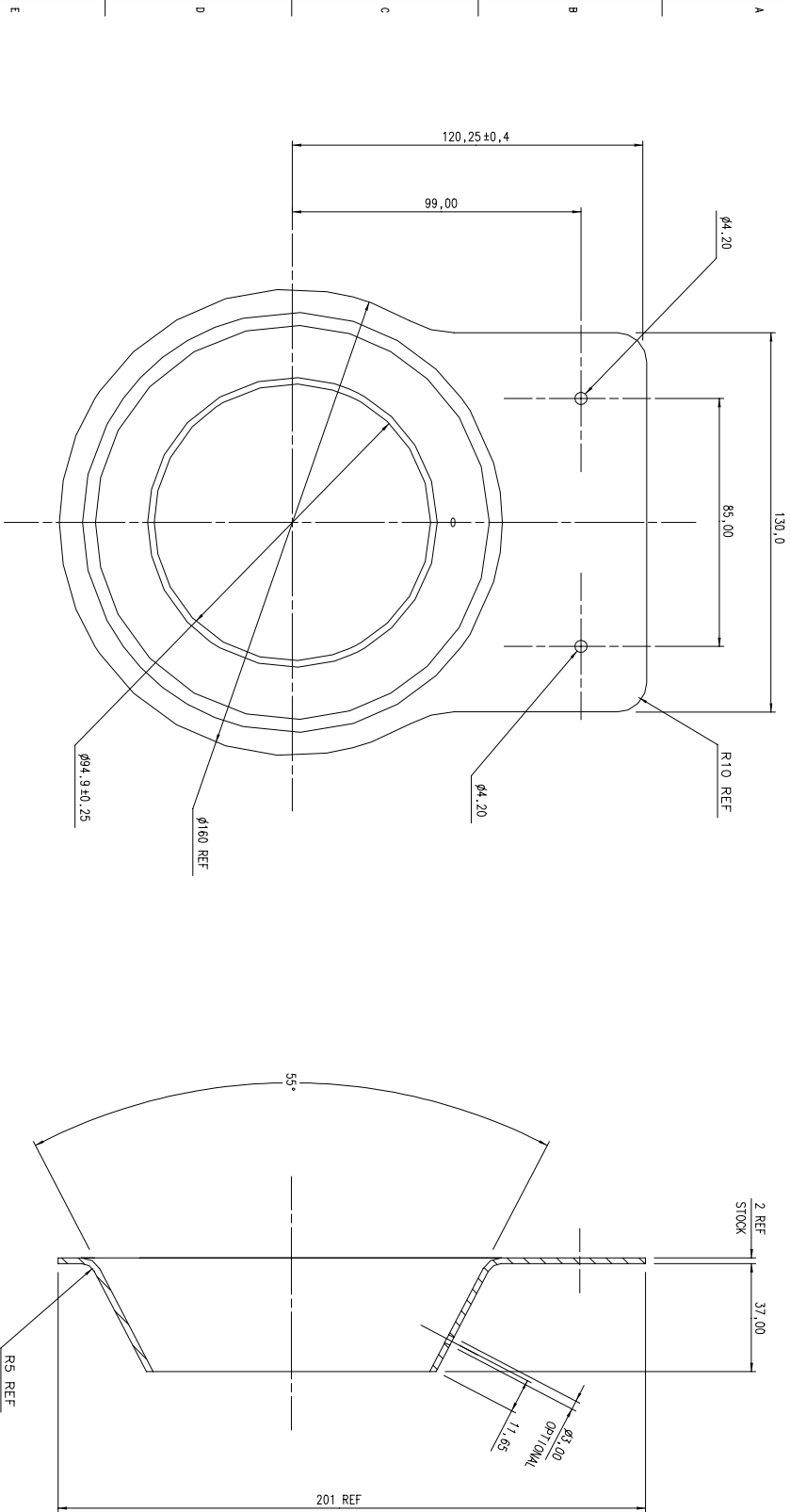
- 1). MATERIAL - 0.7mm THK. ADHESIVE BACKED MATT PVC.
- 2). POSITION REF (TOP-A & TOP-B) TO BE PRINTED ABOVE DECAL AS SHOWN, FOR EASY IDENTIFICATION OF PARTS.

STARPOINT KING GEORGE'S TRADING ESTATE DAVIS ROAD, CHESSINGTON SURREY KT9 1TT - UK. TEL: +44 (0)20 8391 7700 FAX: +44 (0)20 8391 7760 WEBSITE: www.starpoint.uk.com		UNLESS OTHERWISE STATED		GENERAL TOLERANCE:-		1 DEC. PLACE $\pm 0.40mm$, 2 DEC. PLACES $\pm 0.10mm$, CONCENTRICITY $0.10mm$ MAX. ANGULAR $\pm 0.5^\circ$		MATERIAL.		DRAWN		JLS		05/09/02		DRAWING RELEASED		01	
TITLE.		COIN (93 DIA)		DECAL INFORMATION		KEEP CLEAN		FINISH.		CHECKED		AN		DATE		MODIFICATION		ISSUE	
ALL DIMENSIONS IN mm, TO APPLY AFTER PLATING.		SCALE		NTS		USED ON.		1CM		SHEET ONE		ISSUE.		SPECIFICATION		ZZZZ			

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1	2	3	4	5	6			

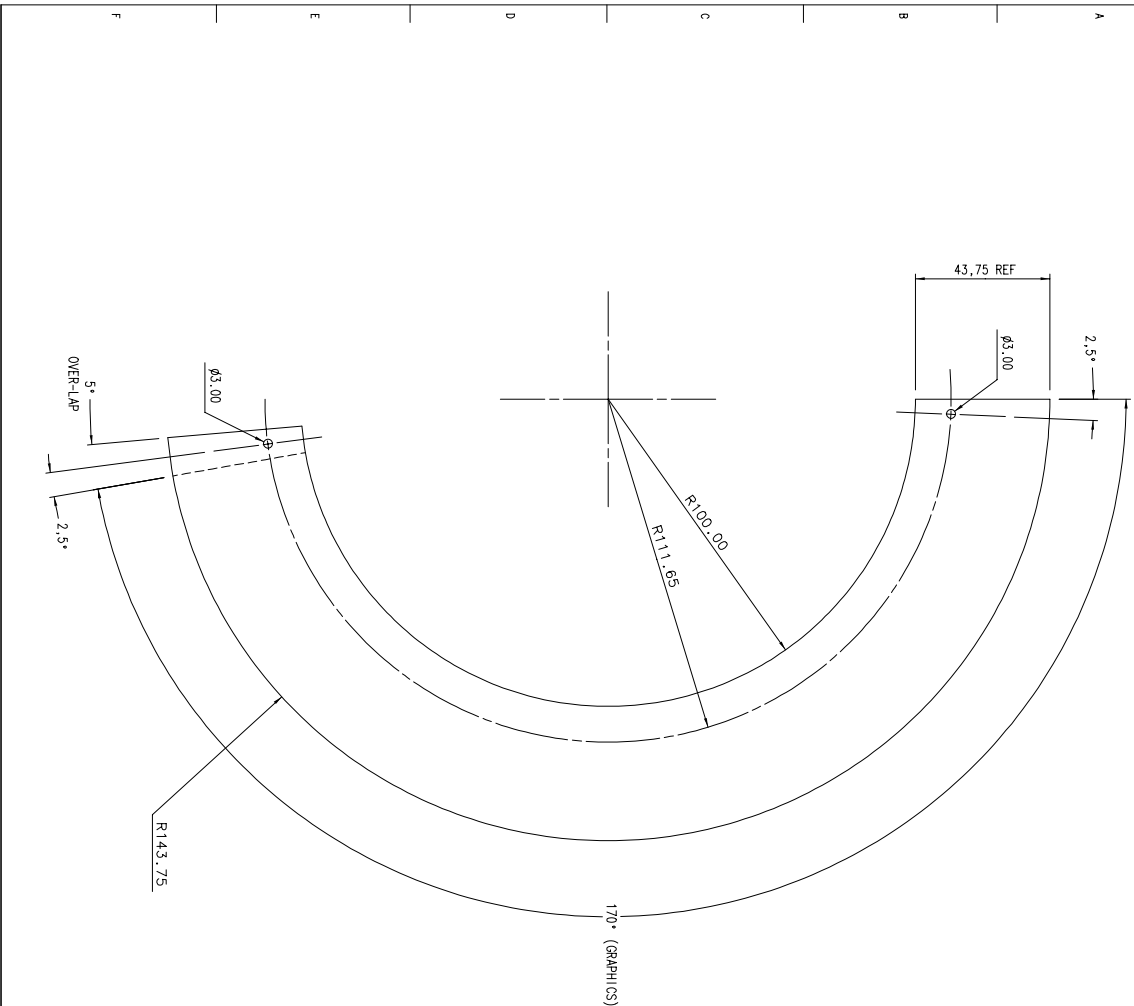


STARPOINT KING GEORGE'S TRADING ESTATE DAVIS ROAD, CHESSINGTON SURREY KT9 1TT - UK. TEL: +44 (0)20 8391 7700 FAX: +44 (0)20 8391 7760 WEBSITE: www.starpoint.uk.com		UNLESS OTHERWISE STATED GENERAL TOLERANCE:- 1 DEC, PLACE ±0.40mm, 2 DEC, PLACES ±0.10mm, CONCENTRICITY 0.10mm, MAX. ANGULAR ± 0.5°		MATERIAL. FINISH.		DRAWN AN		31/10/02 Drawing corrected		02	
ALL DIMENSIONS IN mm, TO APPLY AFTER PLATING.		TITLE. CIRCUIT IDIAGRAM		CHECKED TJ		15/08/02 Redrawn was A2314		DATE MODIFICATION		01	
SCALE 1 : 1		USED ON. 1DU/1CM		SHEET of		ISSUE.		SPECIFICATION		ZZZZ	



UNLESS OTHERWISE STATED				MATERIAL		DRAWN		CHECKED		DATE		MODIFICATION		ISSUE	
GENERAL TOLERANCE:-				HIPS		JLS		01/10/02		DRAWING RELEASED		01		01	
1 DEC. PLACES 0,10mm, 2 DEC. PLACES 0,10mm				FINISH:-		AN		DATE		MODIFICATION		ISSUE		ZZZZ	
ANGULAR ± 0,5°				TITLE:		CONE FORMING		DRAWING No.		F4C015		01		ZZZZ	
ALL DIMENSIONS IN mm, AND TO APPLY AFTER PLATING				USED ON:		SCALE:		SHEET:		ONE		ONE		ONE	
STARPPOINT LTD. KING GEORGE'S TRADING ESTATE DAVIS ROAD, OREBOROUGH, LINCOLN SUPER K79 1TT - UK TELEFONE: 01202 881 770 FAX: 44020 881 770 E-MAIL: sales@starpointhd.com				CONTRACT:		SHEET:		ONE		ONE		ONE		ONE	

© 2001	COPYRIGHT	UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) AND ANGLES ARE IN DEGREES (RADIANS). DIMENSIONS ARE GIVEN TO THE NEAREST MILLIMETER (THIRD ANGLE PROJECTION).						
1	2	3	4	5	6	7	8	9



UNLESS OTHERWISE STATED		MATERIAL:		DRAWN		JLS		01/10/02		DRAWING RELEASED		01	
TOLERANCES: FRACTIONS - 2 DEC. PLACES TO 0.00mm		FINISH:		CHECKED		AN		DATE		MODIFICATION		ISSUE	
DECIMALS - 0.00mm, 0.00mm, 0.00mm		USED ON:		TITLE:		CONE DECAL		DRAWING NO.		ISSUE		SPECIFICATION	
ALL DIMENSIONS IN mm, AND TO APPLY AFTER PLATING		SCALE		SHEET		ONE		G6D013		01		ZZZZ	
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STARPOINT		DIVISION		SHEET		ONE		G6D013		01		ZZZZ	
STARPOINT		DIVISION		SHEET		ONE		G6D013		01		ZZZZ	
STARPOINT		DIVISION		SHEET		ONE		G6D013		01		ZZZZ	
STARPOINT		DIVISION		SHEET		ONE		G6D013		01		ZZ	