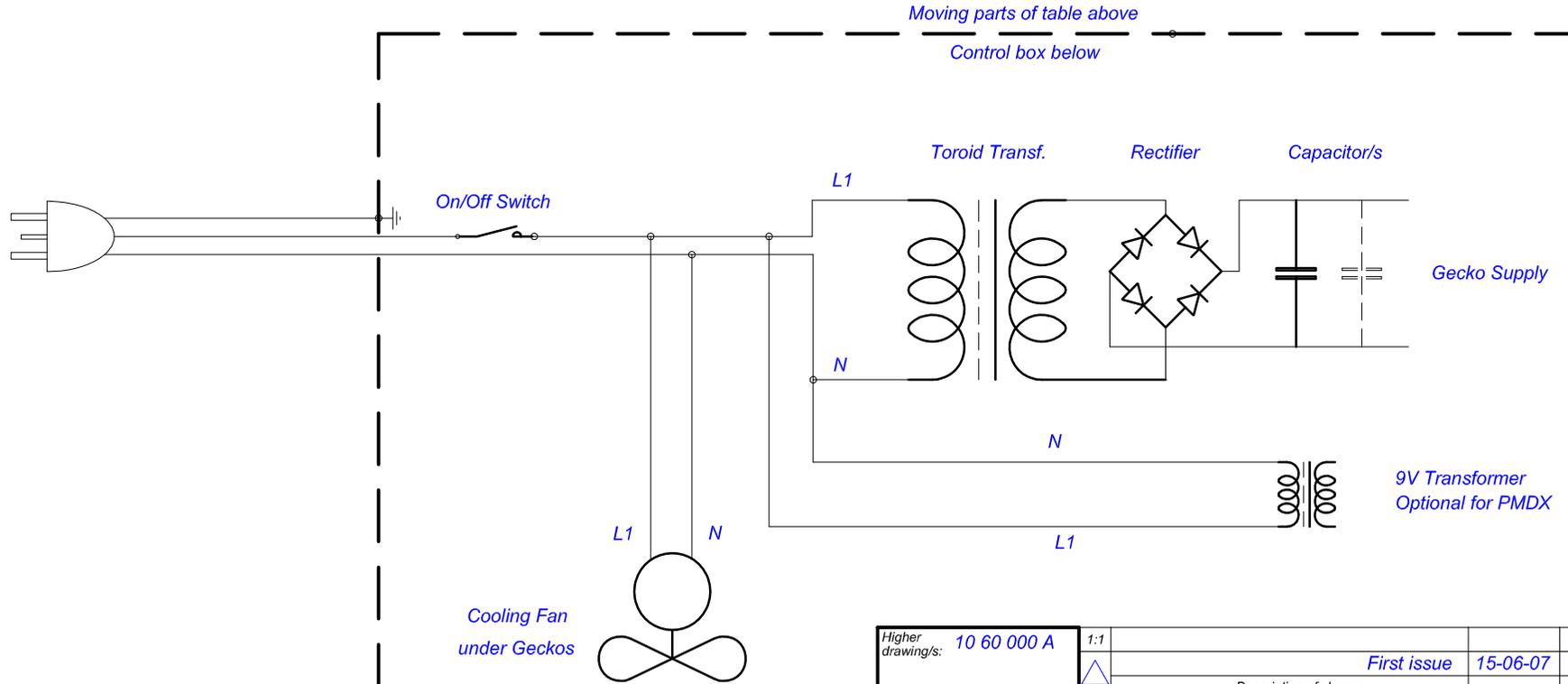
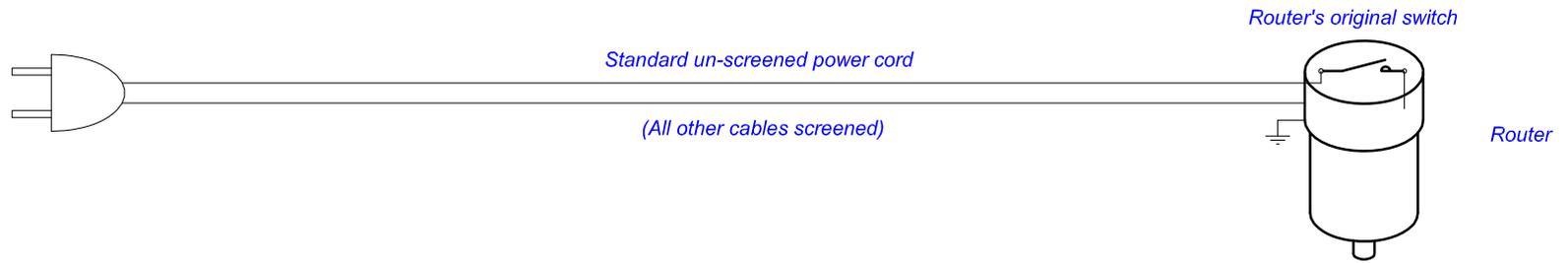
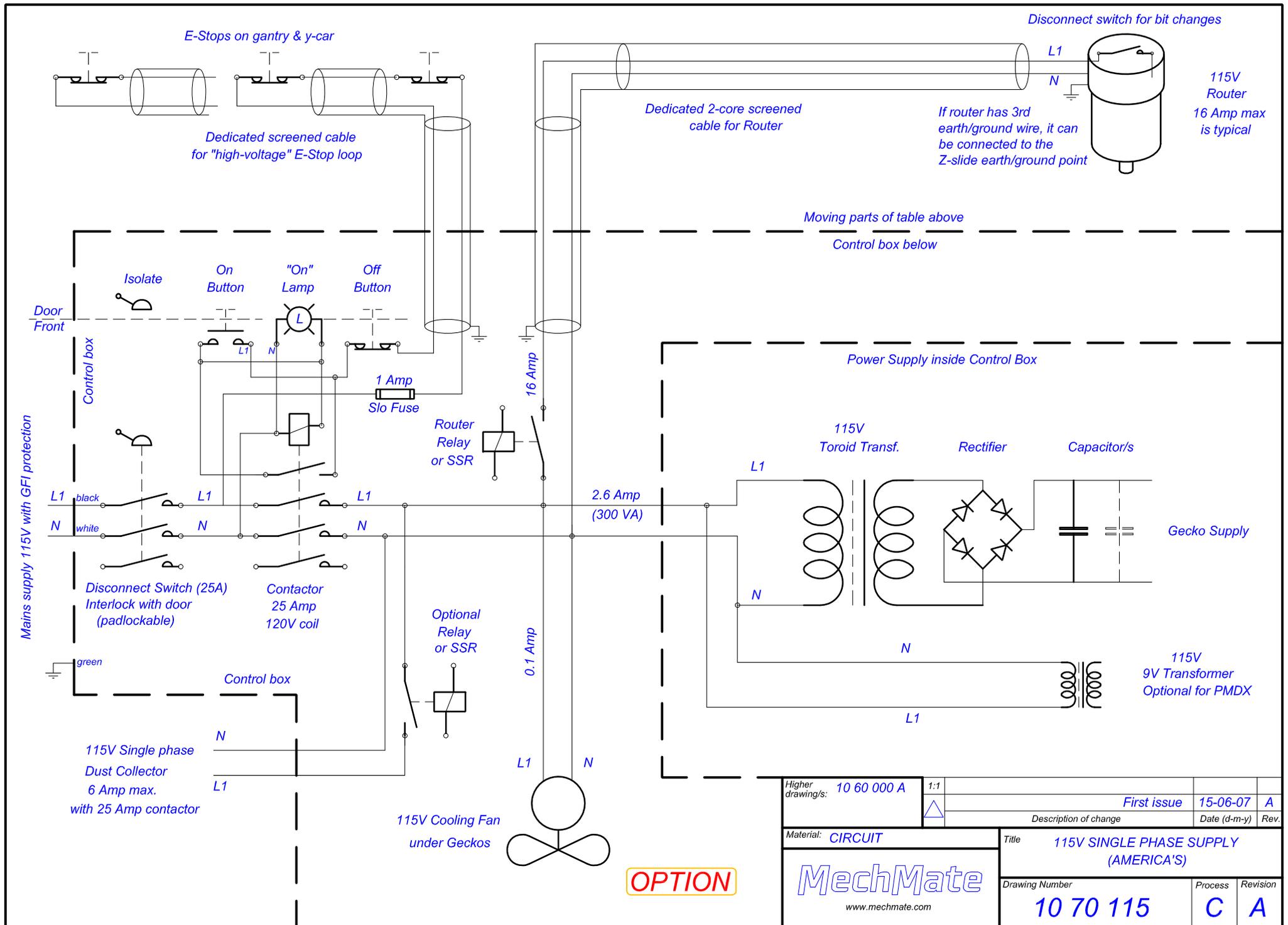


Mains supply 115V with GFI protection



**OPTION**

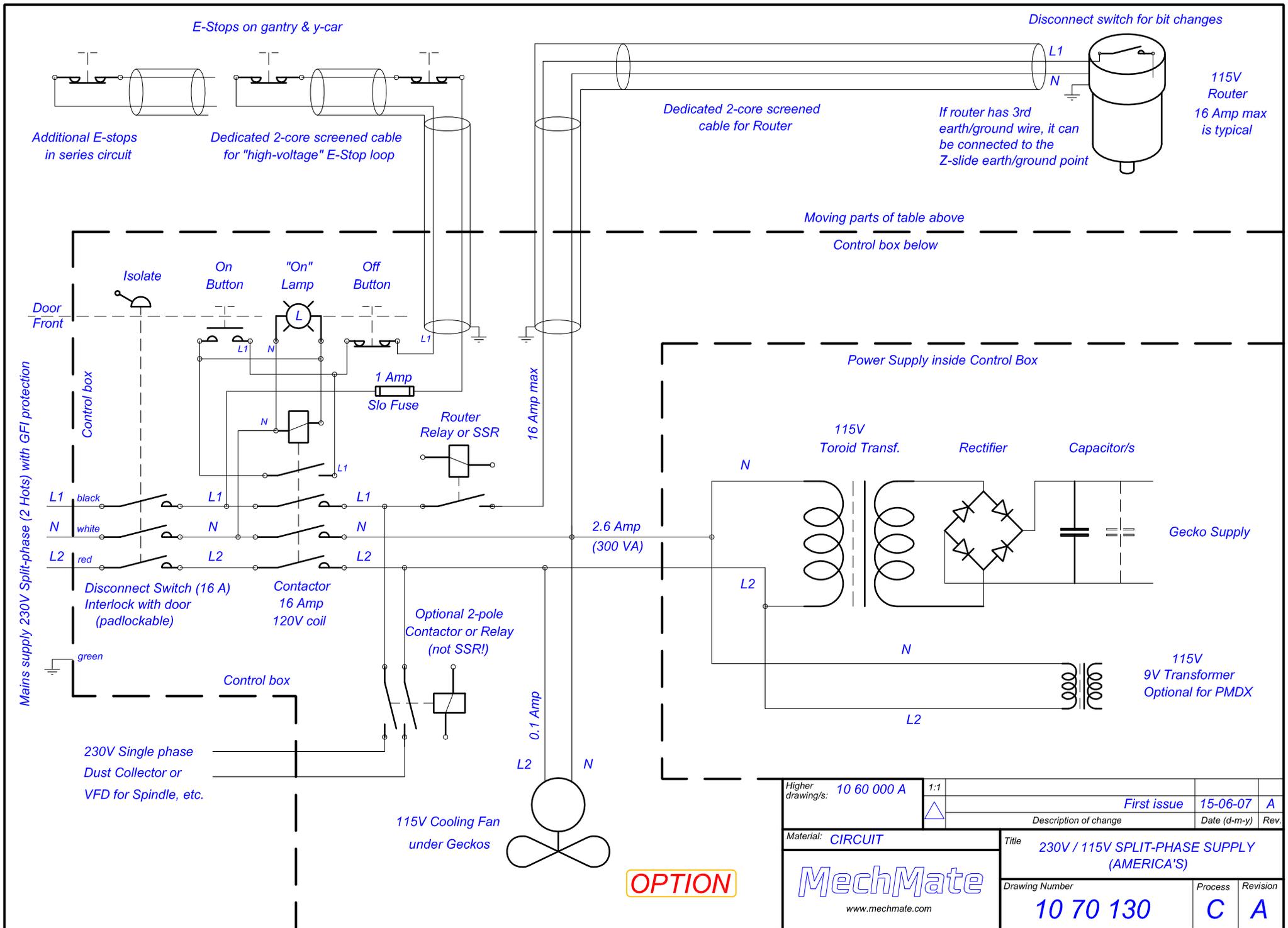
Higher drawing/s:	10 60 000 A	1:1			
			First issue	15-06-07	A
			Description of change		Rev.
Material:	CIRCUIT		Title		
MechMate		SINGLE PHASE "HOBBYIST" SUPPLY			
www.mechmate.com		Drawing Number	Process	Revision	
		10 70 105	C	A	

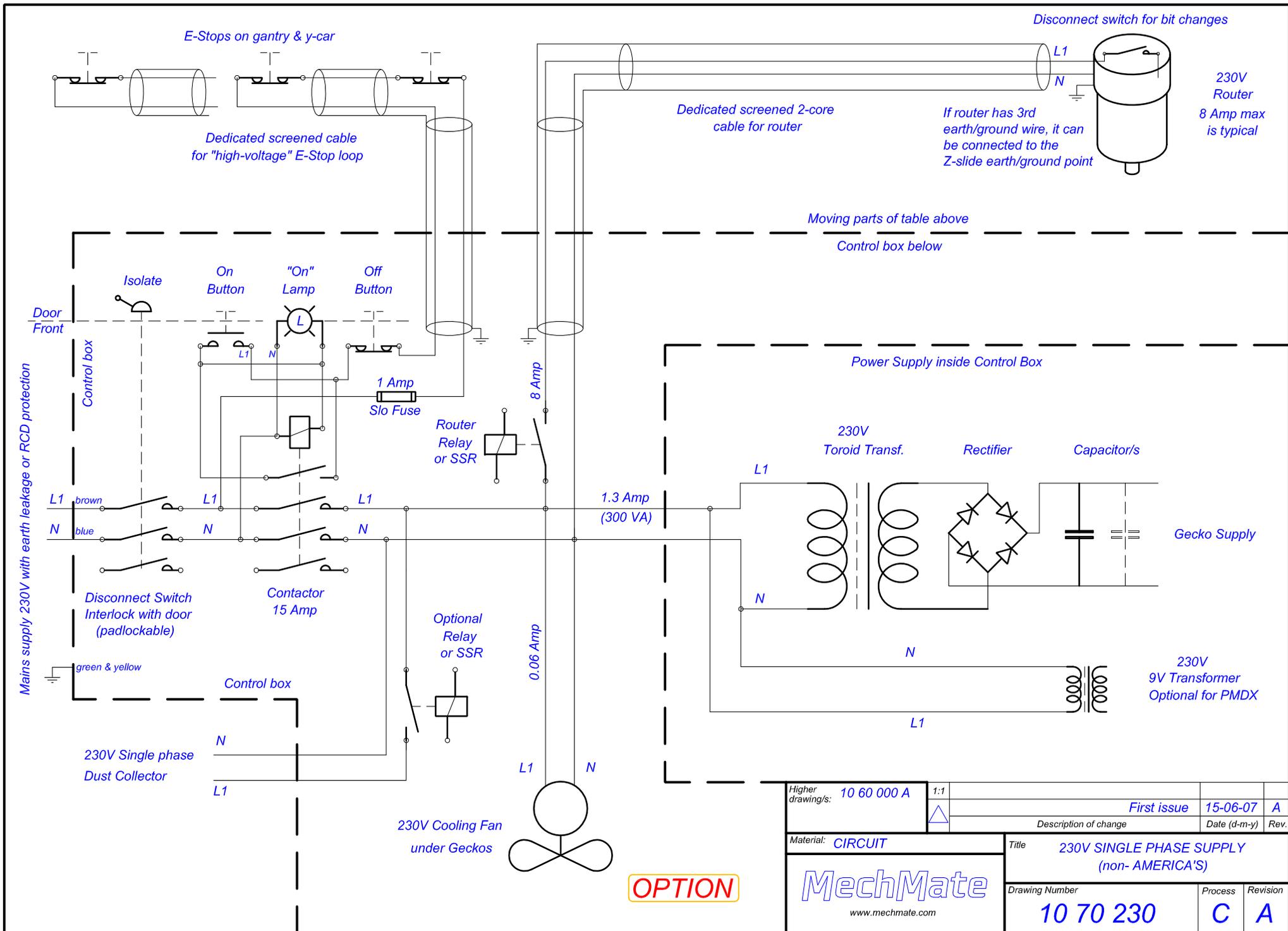


**OPTION**

Higher drawing/s:	10 60 000 A	1:1		
			First issue	15-06-07
			Date (d-m-y)	Rev. A
Material: CIRCUIT			Title: 115V SINGLE PHASE SUPPLY (AMERICA'S)	
Drawing Number			Process	Revision
10 70 115			C	A

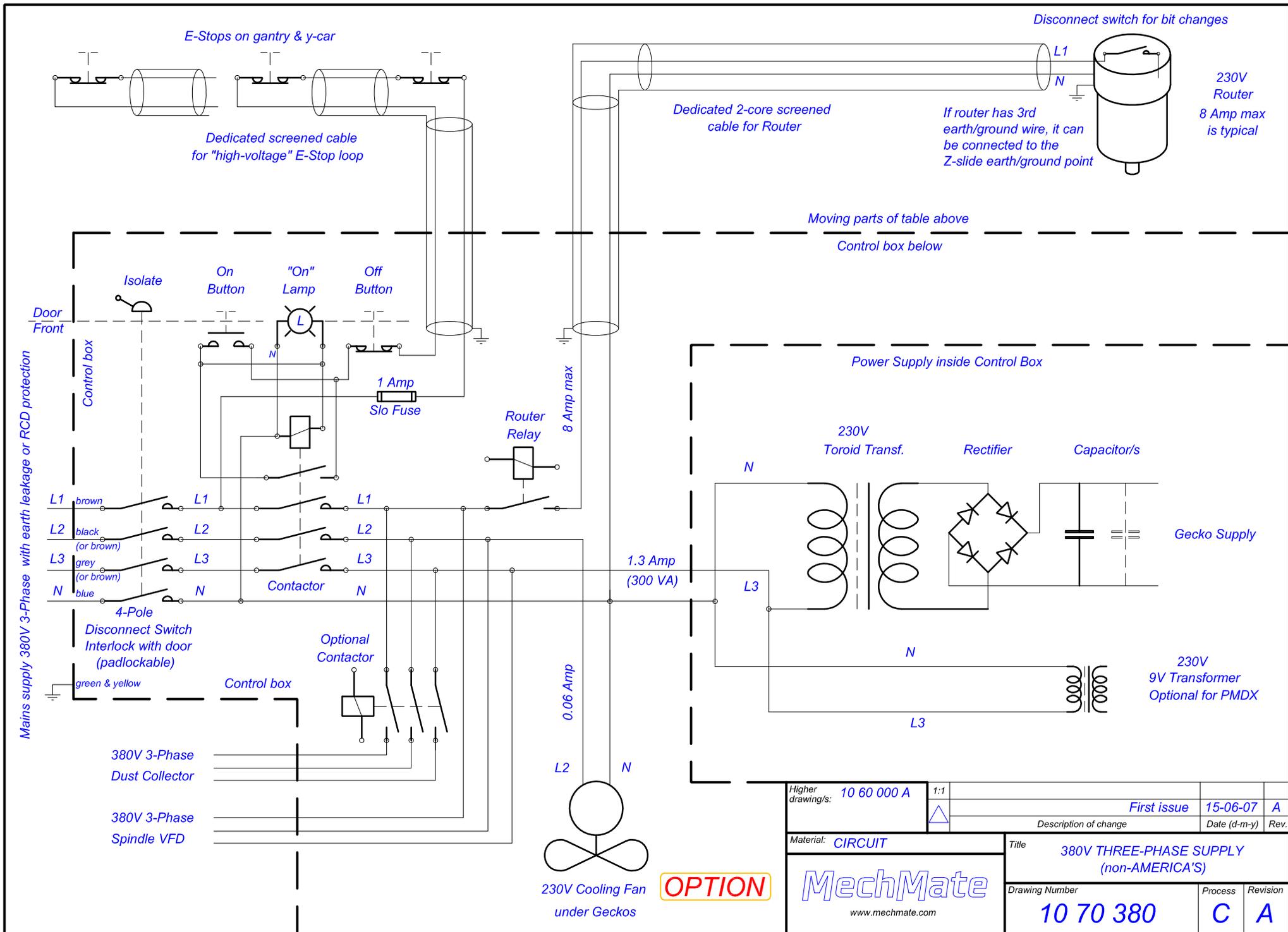
**MechMate**  
www.mechmate.com





**OPTION**

Higher drawing/s:	10 60 000 A	1:1		
			First issue	15-06-07 A
			Description of change	Date (d-m-y) Rev.
Material:	CIRCUIT		Title 230V SINGLE PHASE SUPPLY (non- AMERICA'S)	
	MechMate www.mechmate.com		Drawing Number	Process Revision
			10 70 230	C A



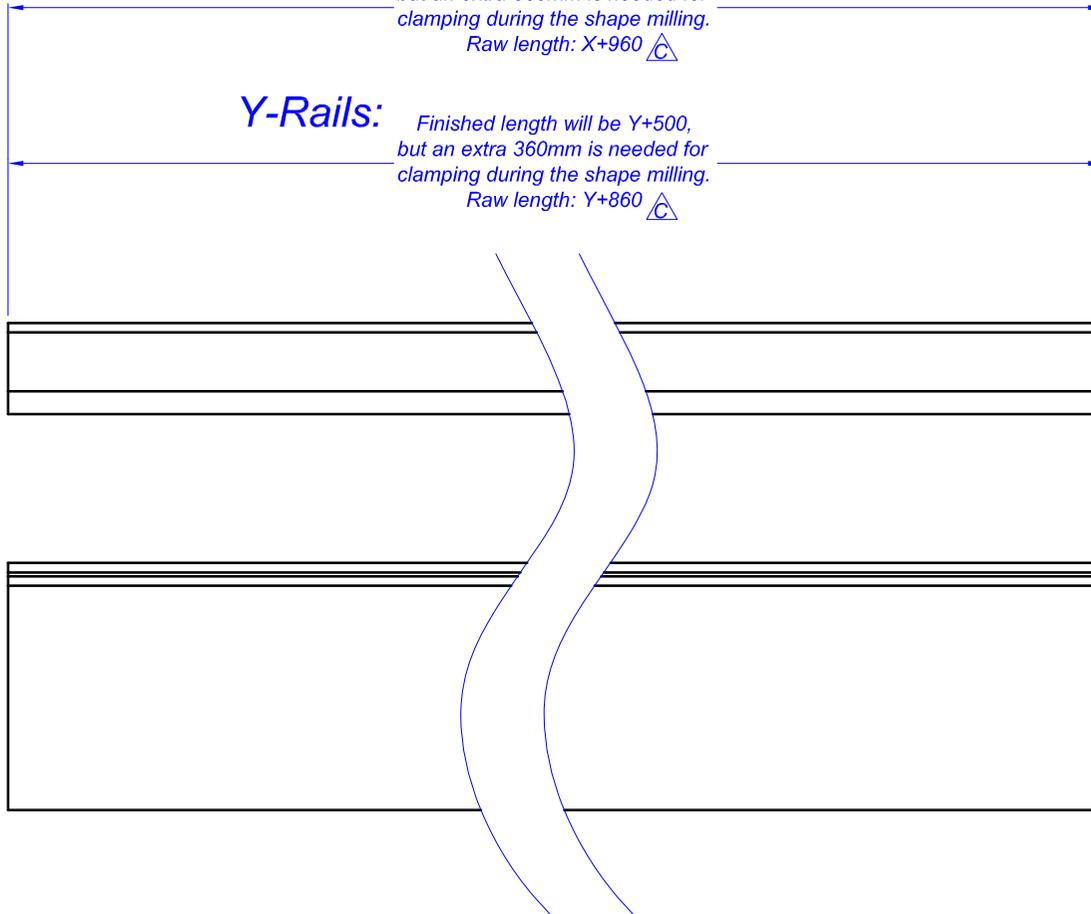
Higher drawing/s:	10 60 000 A	1:1		
			First issue	15-06-07
			Date (d-m-y)	Rev. A
Material: CIRCUIT		Title: 380V THREE-PHASE SUPPLY (non-AMERICA'S)		
Drawing Number: 10 70 380		Process: C	Revision: A	

**OPTION**

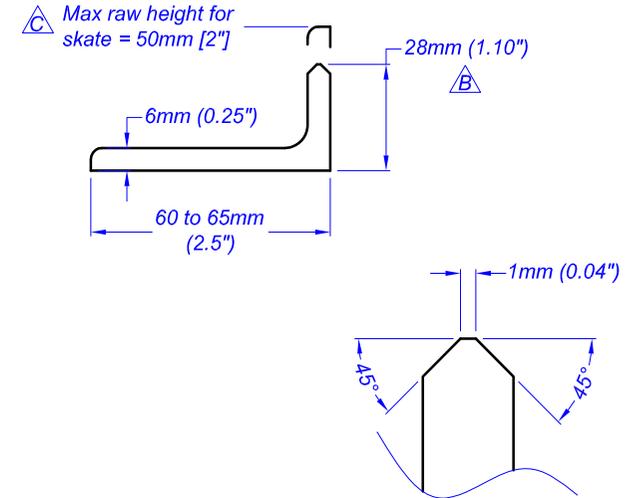
**MechMate**  
www.mechmate.com

**X-Rails:** Finished length will be X+600,  
but an extra 360mm is needed for  
clamping during the shape milling.  
Raw length: X+960 <sup>△</sup>

**Y-Rails:** Finished length will be Y+500,  
but an extra 360mm is needed for  
clamping during the shape milling.  
Raw length: Y+860 <sup>△</sup>



<sup>△</sup>  
When cutting the height of the rail to 28mm, the rail  
will curve. This is not serious. However, reduce the  
distortion by either sawing or using a thin grinding disc.



The reference faces of the rail (bottom and right-side)  
sometimes need to be cleaned with a belt-sander to  
remove scale.

Exact dimensions are not critical. It is more important  
that dimensions are CONSISTENT within about 0.2mm  
[0.01"] over the whole length of a particular rail. ie. that  
a rail is parallel.

**OPTION**

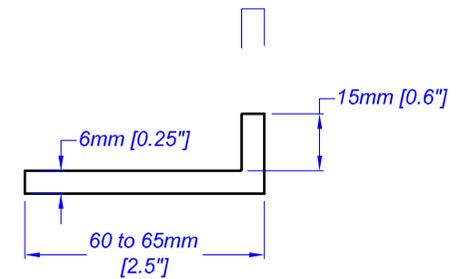
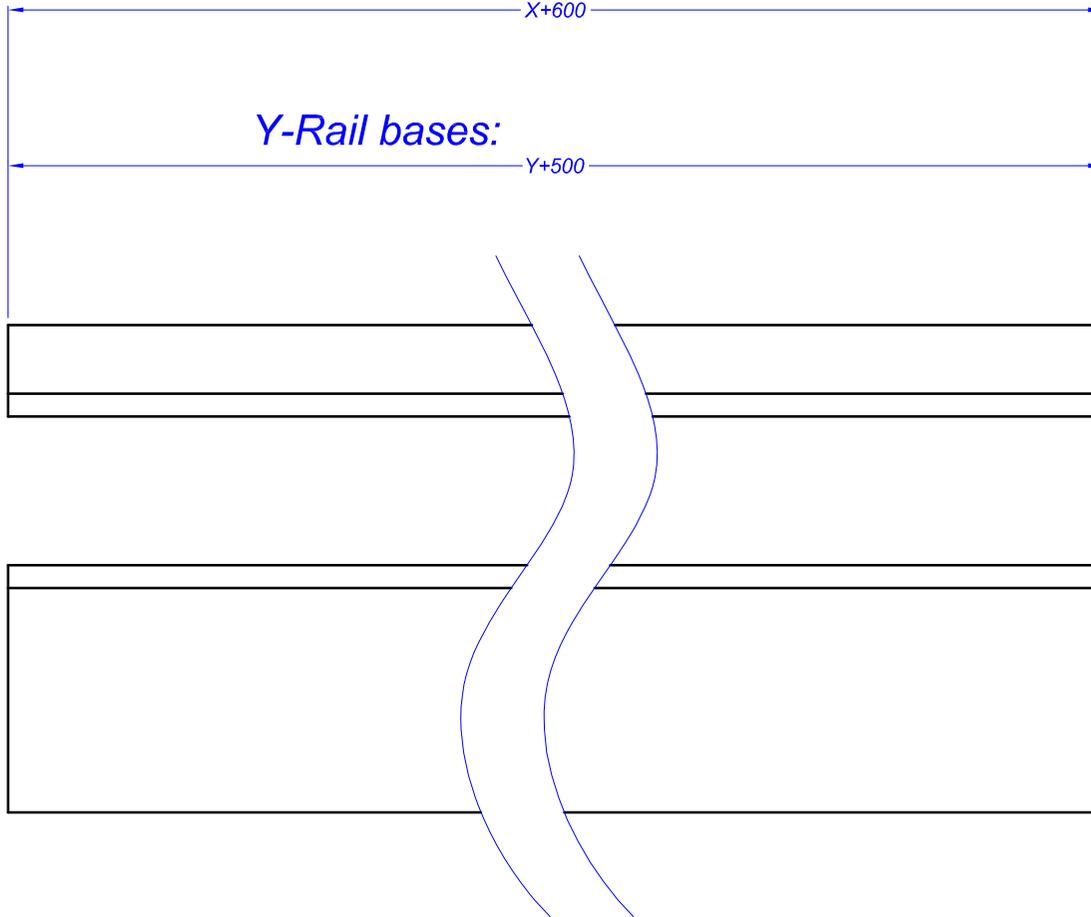
Higher drawing/s:	10 10 246 D 10 20 246 D	1:2 <sup>△</sup>	Raised height from 24 to 28mm Added for grinding skate limitations	07-10-07 27-06-08	B C
			Description of change	Date (d-m-y)	Rev.
Material:	ANGLE IRON/STEEL		Title STEEL RAILS - CUT & MILLED		
Drawing Number		Process		Revision	
M1 10 110		M		C	
www.mechmate.com					

*X-Rail bases:*

X+600

*Y-Rail bases:*

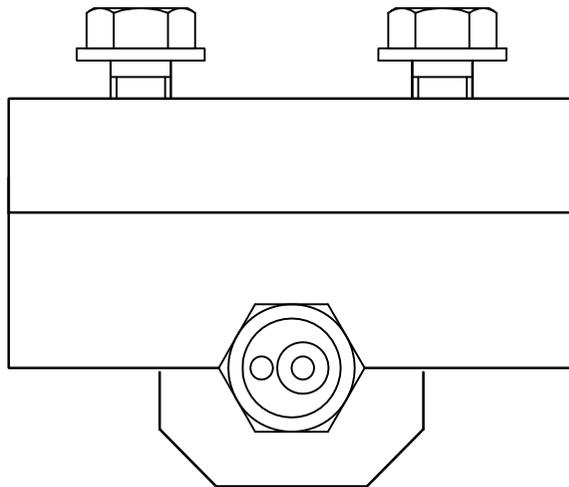
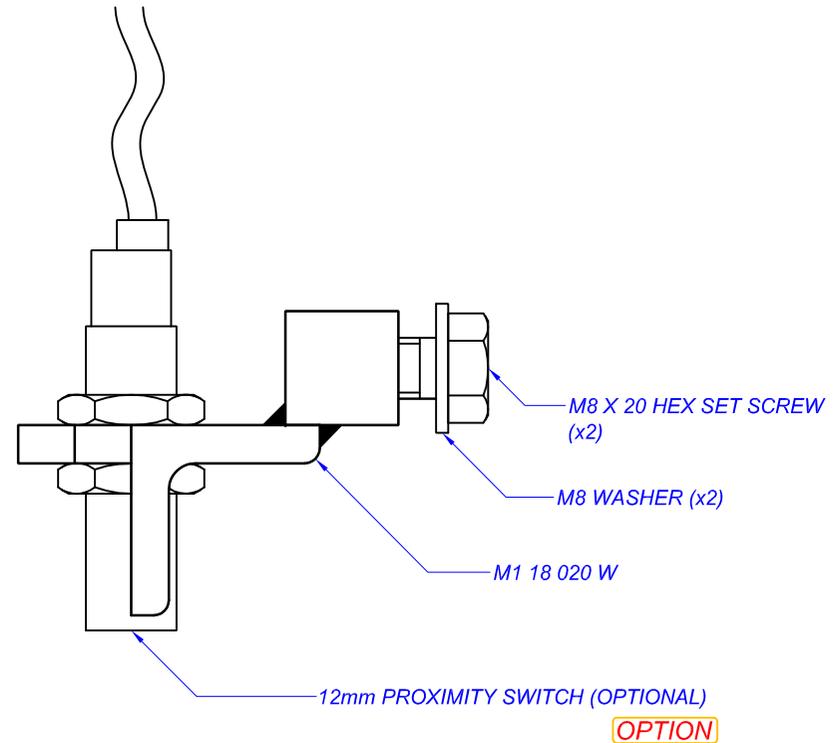
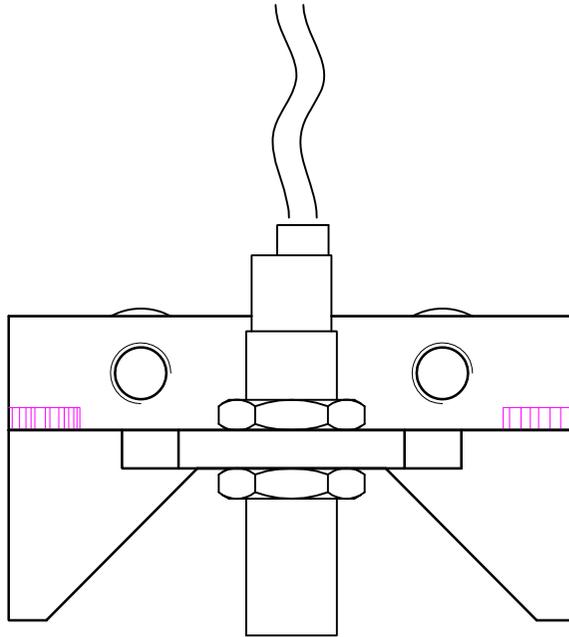
Y+500



The extruded angle must have a fillet radius in the corner no larger than 0.4mm [0.016\"]

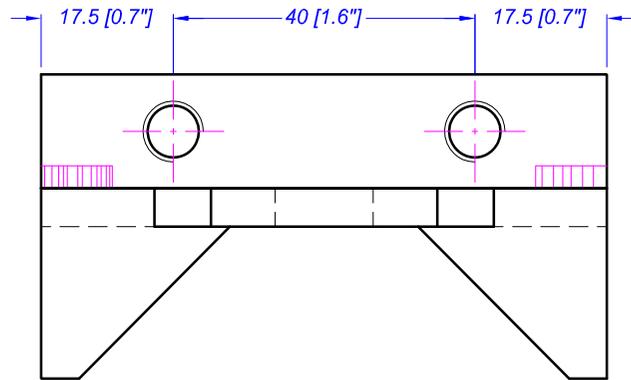
**OPTION**

Higher drawing/s:	10 10 247 D 10 20 247 D	1:2 △			
			First issue	06-10-07	A
			Description of change	Date (d-m-y)	Rev.
Material:	ALUMINIUM (EXTRUDED)		Title ALUMINIUM RAIL BASES - SAWN		
	MechMate www.mechmate.com		Drawing Number	Process	Revision
			M1 10 120	S	A

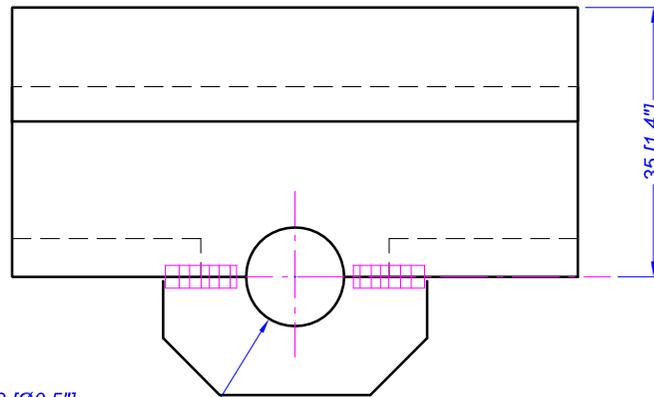
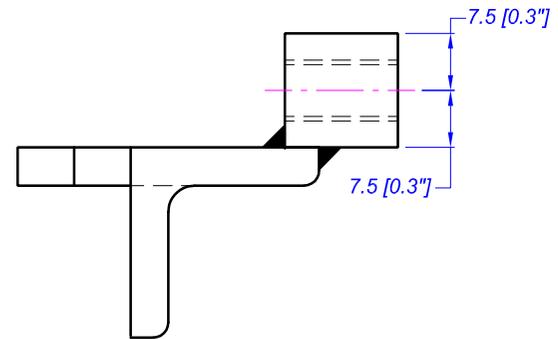


Higher drawing/s:	10 20 000 A	1:1	Moved proxy to miss V-Cap screws	06-10-07	B
	10 30 000 A		First issue	26-11-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	ASSEMBLY		Title		
			CAR STOPPER & LIMIT SWITCH ASSY.		
	Drawing Number		Process	Revision	
	M1 18 000		A	B	

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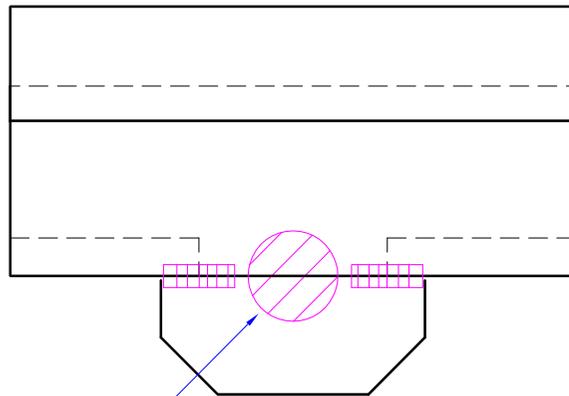
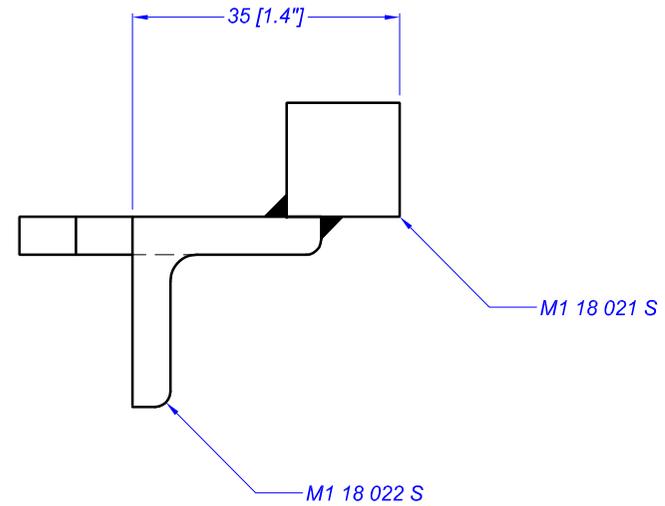
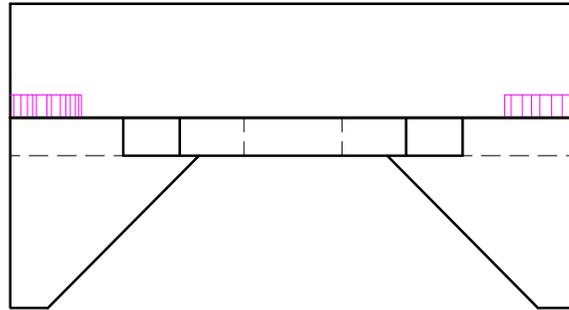


Drill 2 holes  $\text{\O}6.8\text{mm}$  and tap M8x1.25 thread right through



$\text{\O}13 [\text{\O}0.5\"]$   
HOLE FOR 12mm PROXY SWITCH

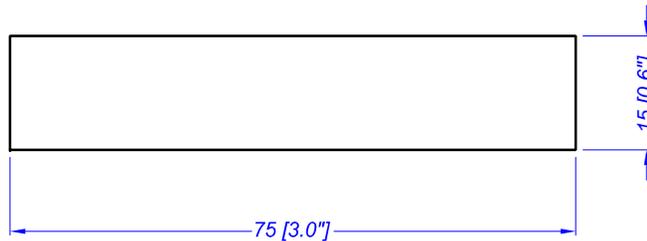
Higher drawing/s:	M1 18 000 A	1:1			
			First issue	28-06-08	A
			Description of change	Date (d-m-y)	Rev.
Material:	WELDED STEEL		Title		
			CAR STOPPER BLOCK - DRILL & TAP		
	Drawing Number		Process	Revision	
	M1 18 020		D	A	
	www.mechmate.com				



TO BE DRILLED - DO NOT WELD HERE

M1 18 023 S

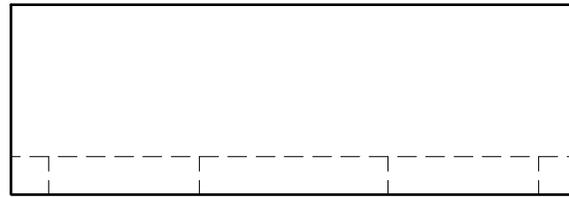
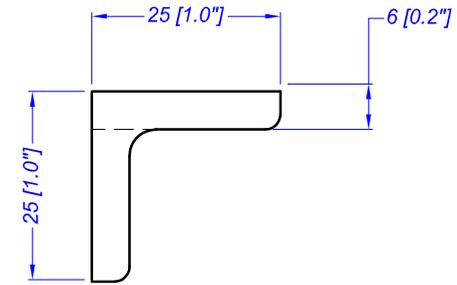
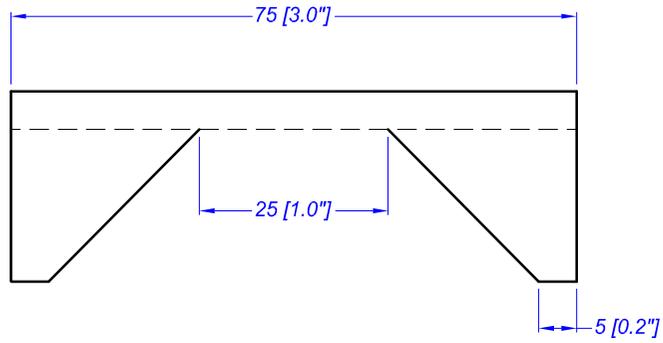
Higher drawing/s: M1 18 020 D		1:1	Finish welding before drilling	28-06-08	B
			First issue	14-10-06	A
			Description of change	Date (d-m-y)	Rev.
Material: STEEL			Title: CAR STOPPER BLOCK - WELDED		
 <a href="http://www.mechmate.com">www.mechmate.com</a>			Drawing Number		Process
			M1 18 020		W
			Revision		B



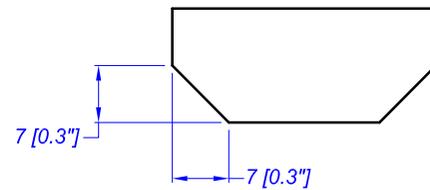
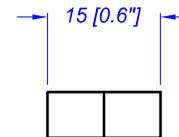
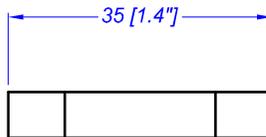
B

Higher drawing/s:	M1 18 020 W	1:1	Changed next higher process	28-06-08	B
			First issue	14-10-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	15mm STEEL SQ BAR		Title		
			STOPPER BASE - SAWN		
	Drawing Number		Process	Revision	
	M1 18 021		S	B	

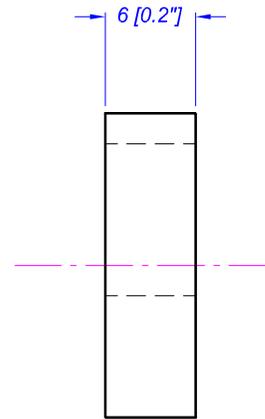
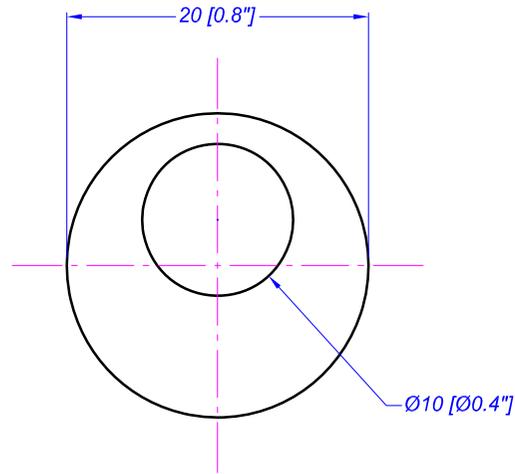
MechMate  
www.mechmate.com



Higher drawing/s:	M1 18 020 W	1:1	Finish notching before welding	28-06-08	B
			First issue	14-10-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	25 x 25 X 6mm ANGLE		Title		
			STOPPER LIP - SAWN & NOTCHED		
	Drawing Number		Process	Revision	
	M1 18 022		S	B	
	www.mechmate.com				



Higher drawing/s:	M1 18 020 W	1:1		
			First issue	28-06-08 A
			Description of change	Date (d-m-y) Rev.
Material:	6mm [1/4"] STEEL OFFCUT		Title	
			PROX EXTENSION - CUT	
	 <a href="http://www.mechmate.com">www.mechmate.com</a>		Drawing Number	Process Revision
			M1 18 023	S A



These disks are intended as a facility to "adjust" the positions of the target holes in the rails. The position of the 10mm hole can be determined after assembly. Some adjustment of the hole position can be done by rotating the disk as an eccentric.

**OPTION**

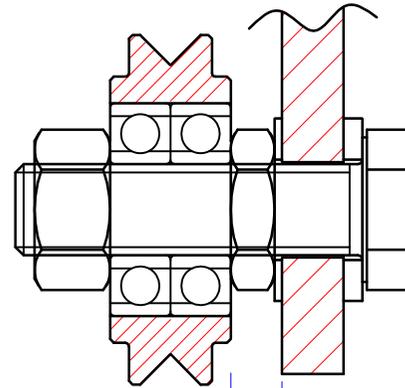
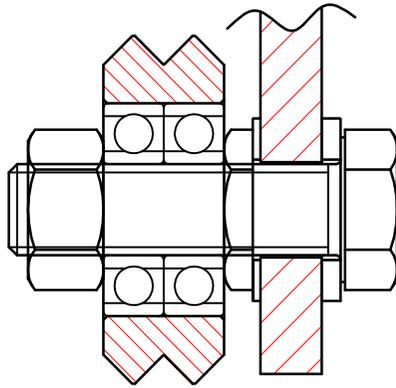
Higher drawing/s:	M1 18 000 A	1:1		
			First issue	30-11-06 A
			Description of change	Date (d-m-y) Rev.
Material:	Ø20mm STEEL RND BAR		Title	
			PROXIMITY TARGET - TURNED	
	Drawing Number	Process	Revision	
	M1 18 027	T	A	

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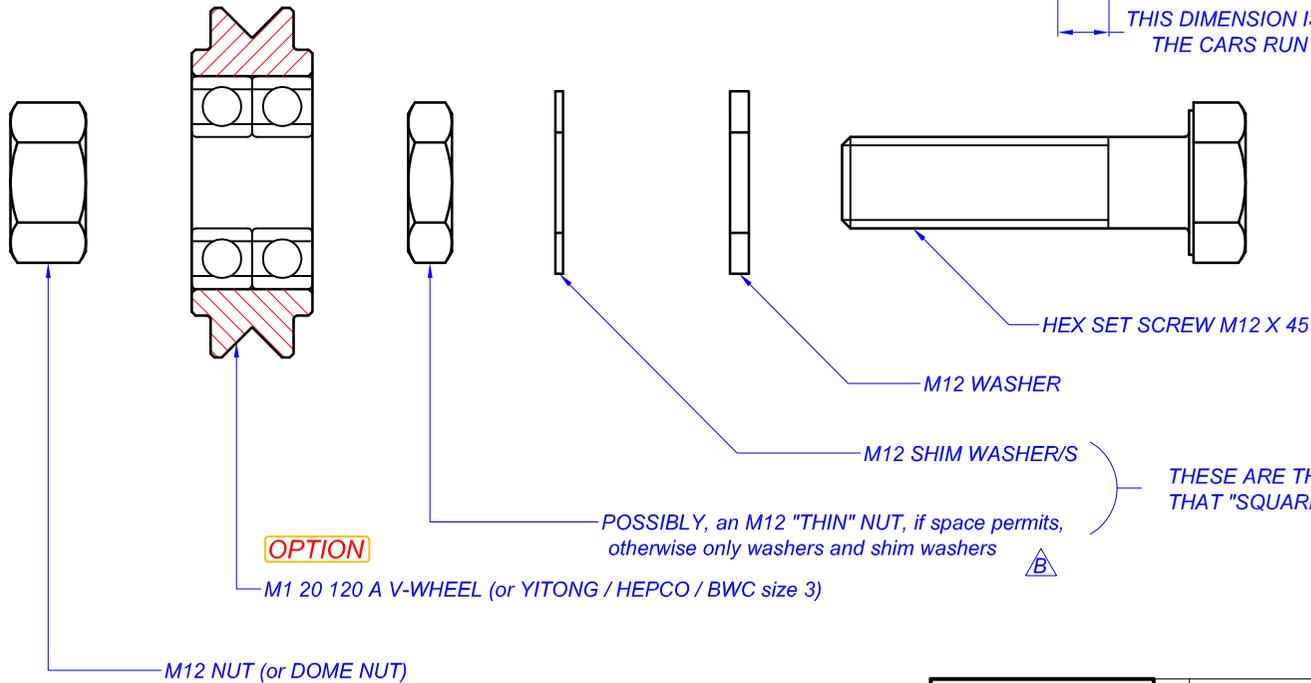
WITH YITONG / HEPCO / BWC size 3 WHEEL

WITH V-CAP RAILS ON ALU

OPTION

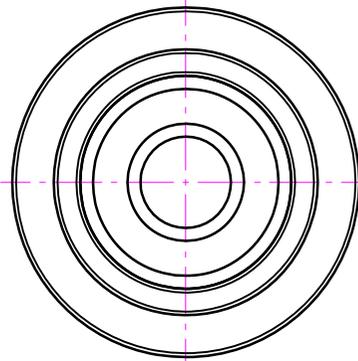
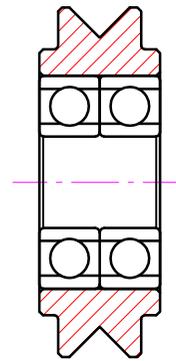


THIS DIMENSION IS ADJUSTED TO MAKE THE CARS RUN SQUARE AND TRUE



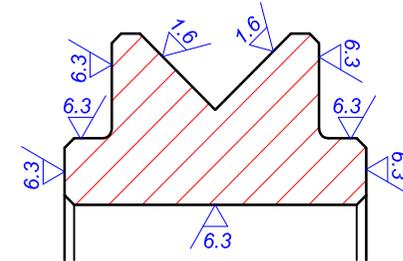
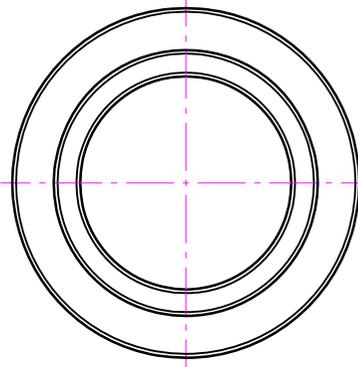
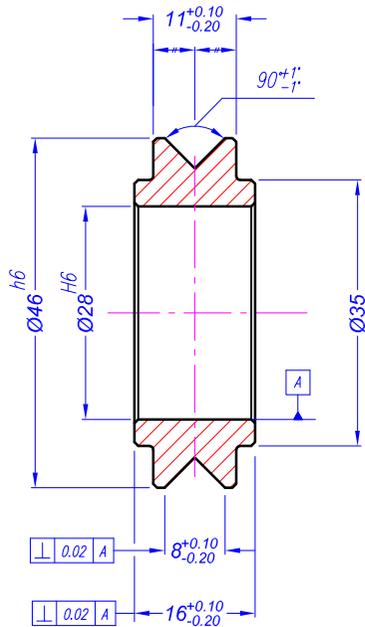
OPTION

Higher drawing/s:	1:1	Optional washers/nut/shims	27-06-08	B
		First issue	23-07-06	A
		Description of change	Date (d-m-y)	Rev.
Material: ASSEMBLY	Title: V-ROLLER ASSEMBLY			
 www.mechmate.com	Drawing Number	Process	Revision	
	M1 20 100	A	B	



2x 6001.2RSR Bearings  
 installed with "LocTite"  
 (See Forum)

Higher drawing/s:	M1 20 100 A	1:1	Compatible to "Size 3"	23-02-07	B
			First issue	23-07-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	Title V-WHEEL				
 <a href="http://www.mechmate.com">www.mechmate.com</a>		Drawing Number		Process	Revision
		M1 20 120		A	B



THE V-GROOVE MAY REQUIRE GRINDING AFTER HARDENING

IF THE V-WHEEL DOES NEED GRINDING, THEN IT IS BEST TO INSTALL THE BEARINGS FIRST AND THEN GRIND THE WHOLE ASSEMBLY ON A MANDREL.

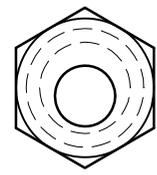
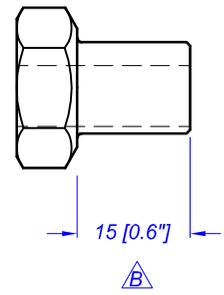
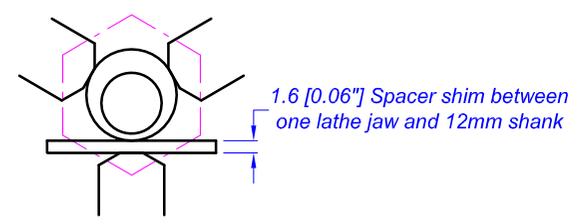
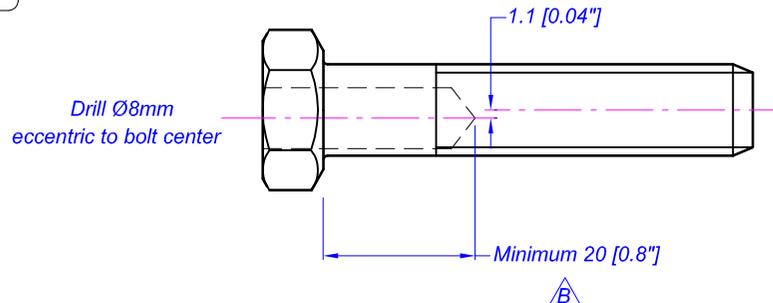
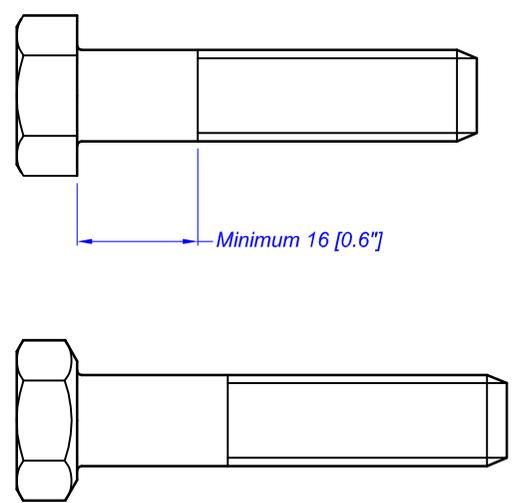
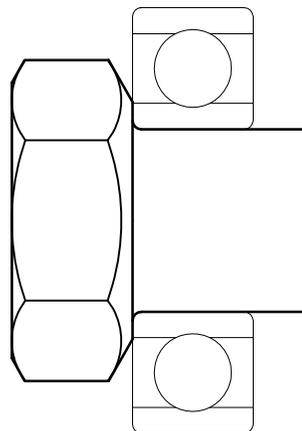
NOTES STILL TO BE ADDED ON THE MATERIAL AND HARDENING

**OPTION**

Higher drawing/s:	M1 20 120 A	1:1	Interchangeable with "Size 3" rollers	23-02-07	B
			First issue	23-07-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	HARDENABLE STEEL		Title		
			V-TYRE		
	Drawing Number		Process	Revision	
	M1 20 121		T	B	

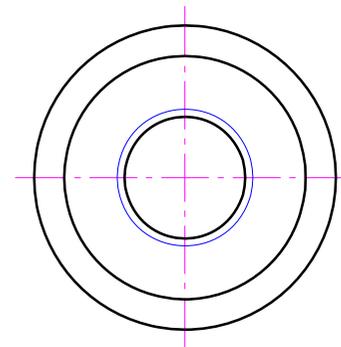
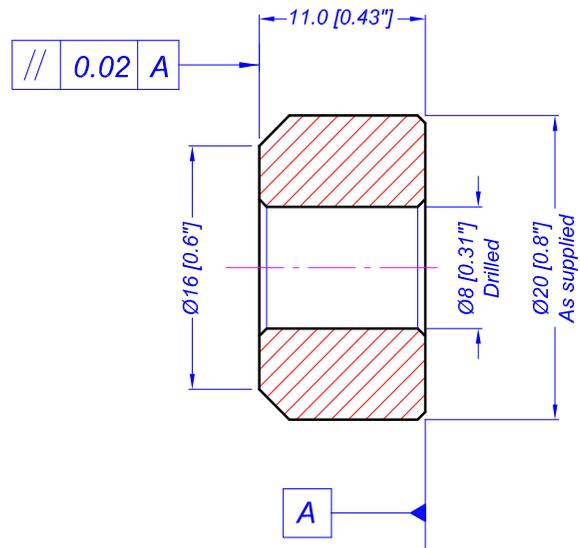
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M12 "High Quality" Bolt with minimum 16 [0.6"] plain shank.



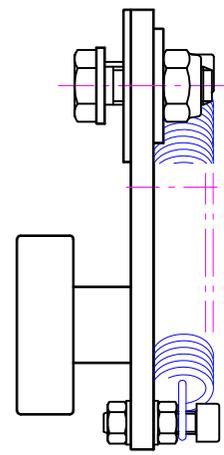
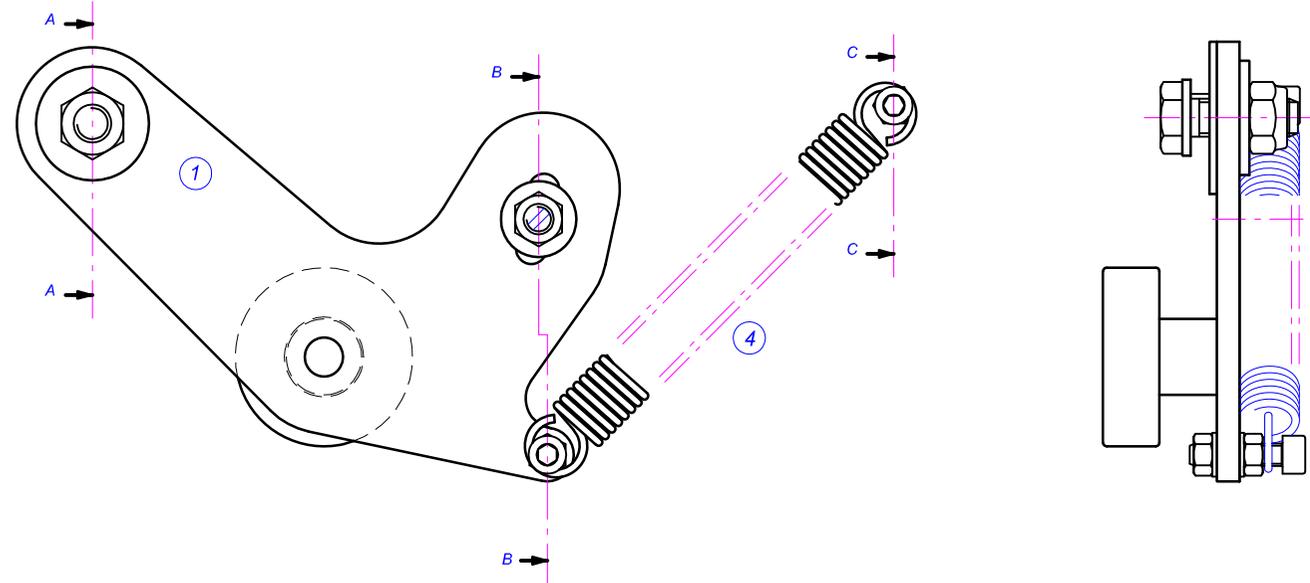
**OPTION**

Higher drawing/s:	10 40 000 A	1:1	Shorten for "Size 3"	23-02-07	B
			First issue	10-11-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	12mm BOLT		Title		
 www.mechmate.com			ECCENTRIC BUSH		
			Drawing Number	Process	Revision
			M1 20 210	T	B

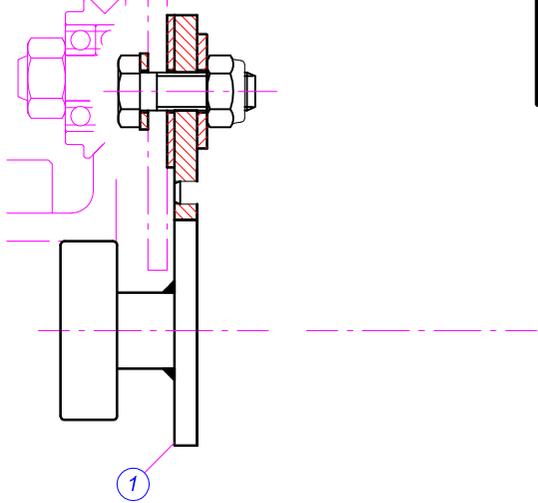
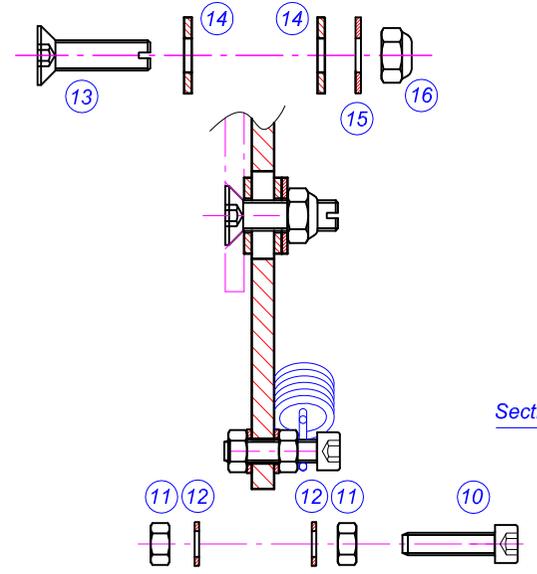
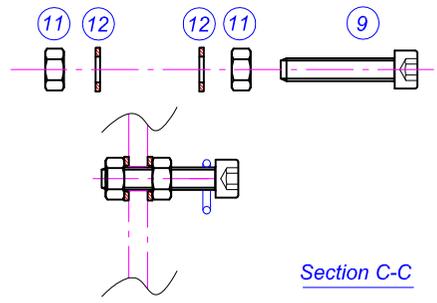
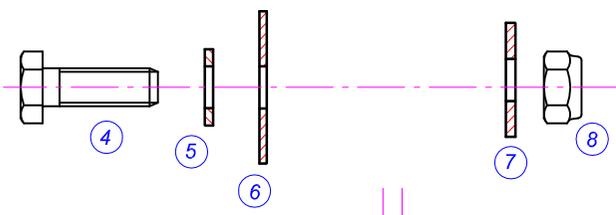


Higher drawing/s:	10 40 000 A	2:1	Compatible to "standard" ecc. bushes	23-02-07	B
			First issue	4-11-06	A
			Description of change	Date (d-m-y)	Rev.
Material:	20mm MILD STEEL BAR		Title		
			BEARING SUPPORT BASE - TURNED		
Drawing Number			Process	Revision	
M1 20 220			T	B	

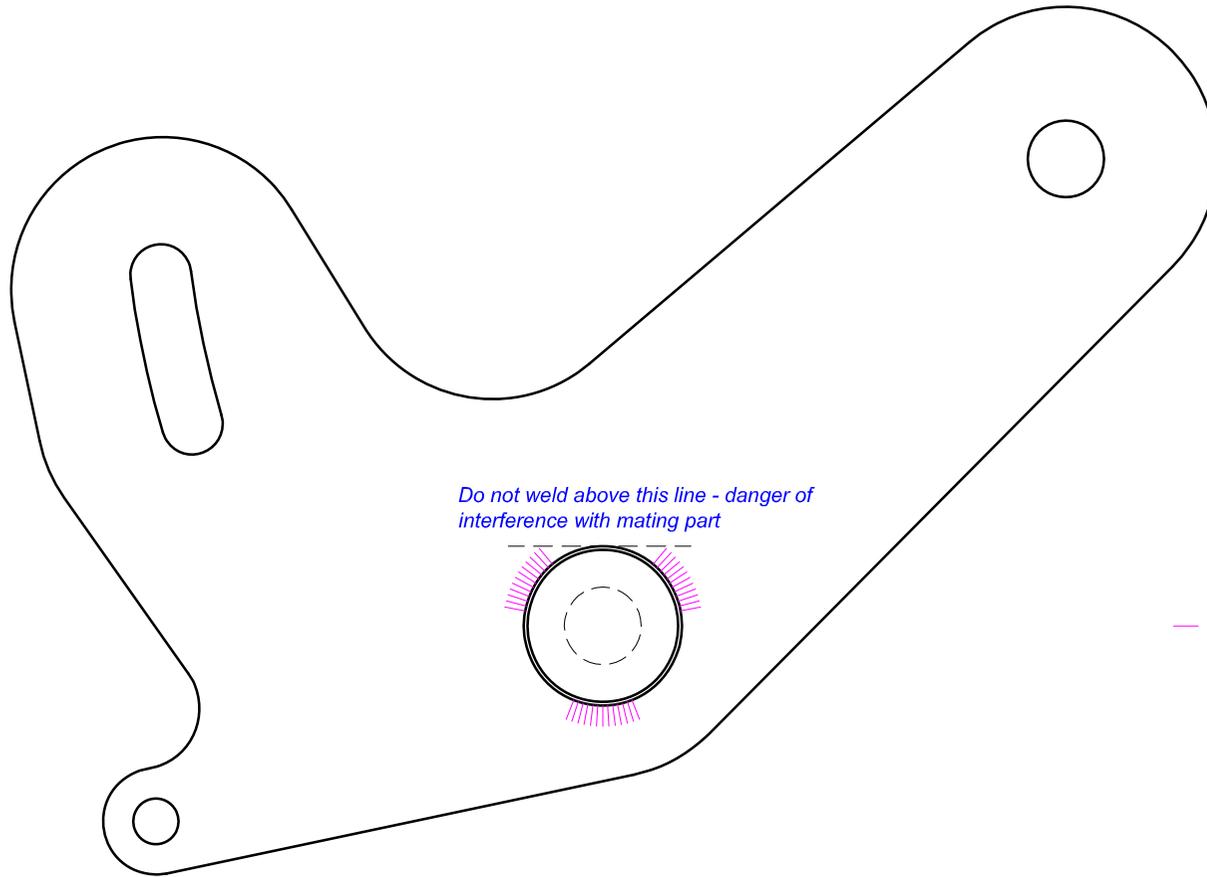
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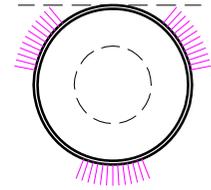
No.	Description	Qty
1	M1 30 222 W Stub Axle Plate	1
2	6304 2RSR Sealed Ball Bearing	1
3	M3 10 100 K Spring	1
4	M10 x 35 Hex Set Screw	1
5	M10 Washer	1
6	40 x 10 x 2 Teflon Washer	1
7	M10 Fender Washer	1
8	M10 Nylock Nut	1
9	M6 x 30 Allen Head Cap Screw	1
10	M6 x 25 Allen Head Cap Screw	1
11	M6 Nuts	4
12	M6 Washers	4
13	M8 x 30 CSK Screw (Tip slotted)	1
14	20 x 8 x 2 Teflon Washer	2
15	M8 Washer	1
16	M8 Nylock Nut	1
17		
18		
19		
20		
21		
22		



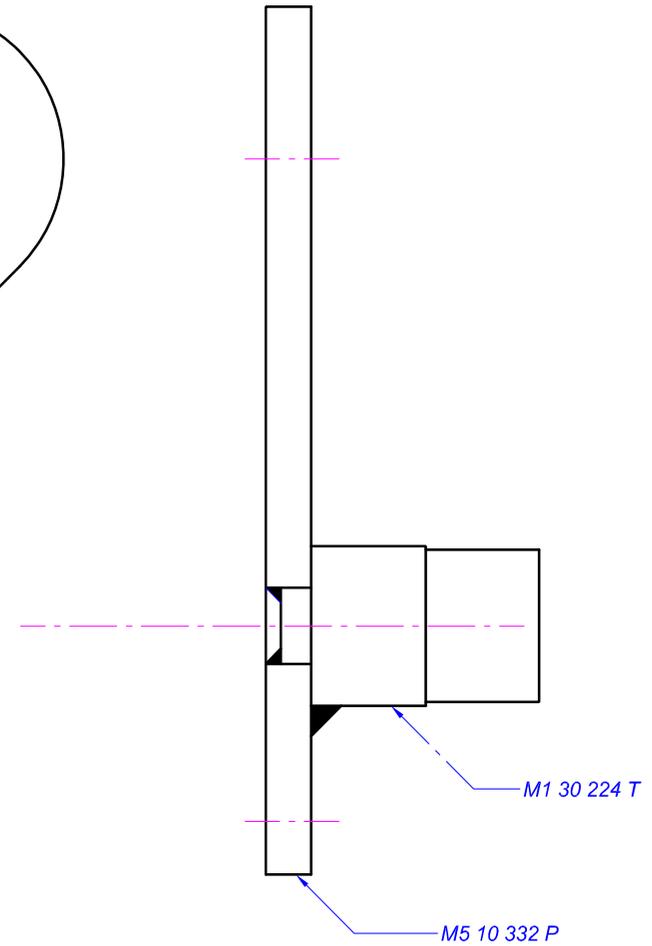
Higher drawing/s:	10 30 000 A	1:2		
			First issue	07-10-07 A
			Description of change	Date (d-m-y) Rev.
Material:	ASSEMBLY		Title	
 www.mechmate.com			HOLD-DOWN IDLER ROLLER - ASSEMBLY	
			Drawing Number	Process Revision
M1 30 200			A	A



Do not weld above this line - danger of interference with mating part

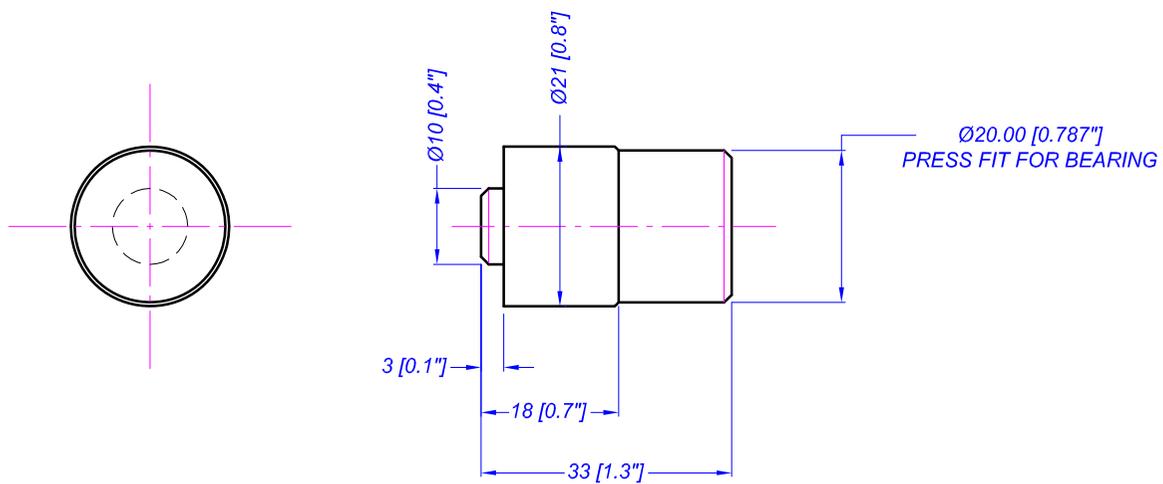


Note: Flatten plate to correct weld distortion.



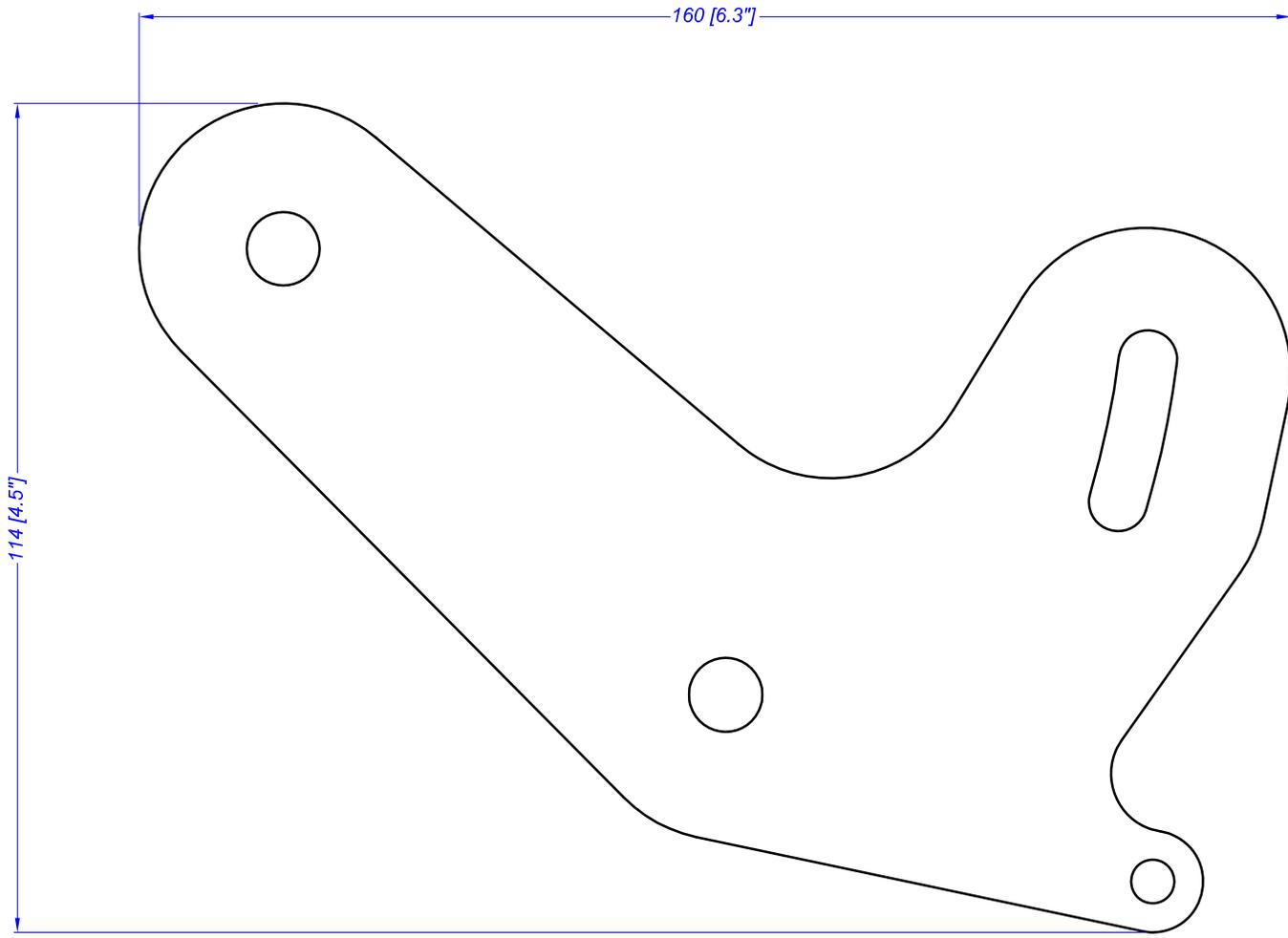
Higher drawing/s:	M1 30 200 A	1:1			
			First issue	07-10-07	A
			Description of change	Date (d-m-y)	Rev.
Material:	STEEL		Title		
			HOLD-DOWN IDLER PLATE - WELDED		
			Drawing Number	Process	Revision
			M1 30 222	W	A

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Higher drawing/s:	M1 30 222 W	1:1			
			First issue	07-10-07	A
			Description of change	Date (d-m-y)	Rev.
Material:	21mm STEEL SHAFTING		Title		
			HOLD-DOWN IDLER STUB SHAFT		
	Drawing Number		Process	Revision	
	M1 30 224 T		T	A	

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PROFILE TO BE CUT

SUPPLY THIS DRAWING IN .dxf FORMAT TO THE CNC LASER CUTTING COMPANY FOR REMAINDER OF DIMENSIONS. THE TWO GIVEN DIMENSIONS ARE TO CHECK SCALE.

Higher drawing/s:	M1 30 222 W	1:1			
			First issue	24-09-07	A
			Description of change	Date (d-m-y)	Rev.
Material:	6mm [1/4"] STEEL 300MPa		Title		
			HOLD-DOWN SWINGPLATE - PROFILE CUT		
Drawing Number			Process	Revision	
M1 30 332			P	A	

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