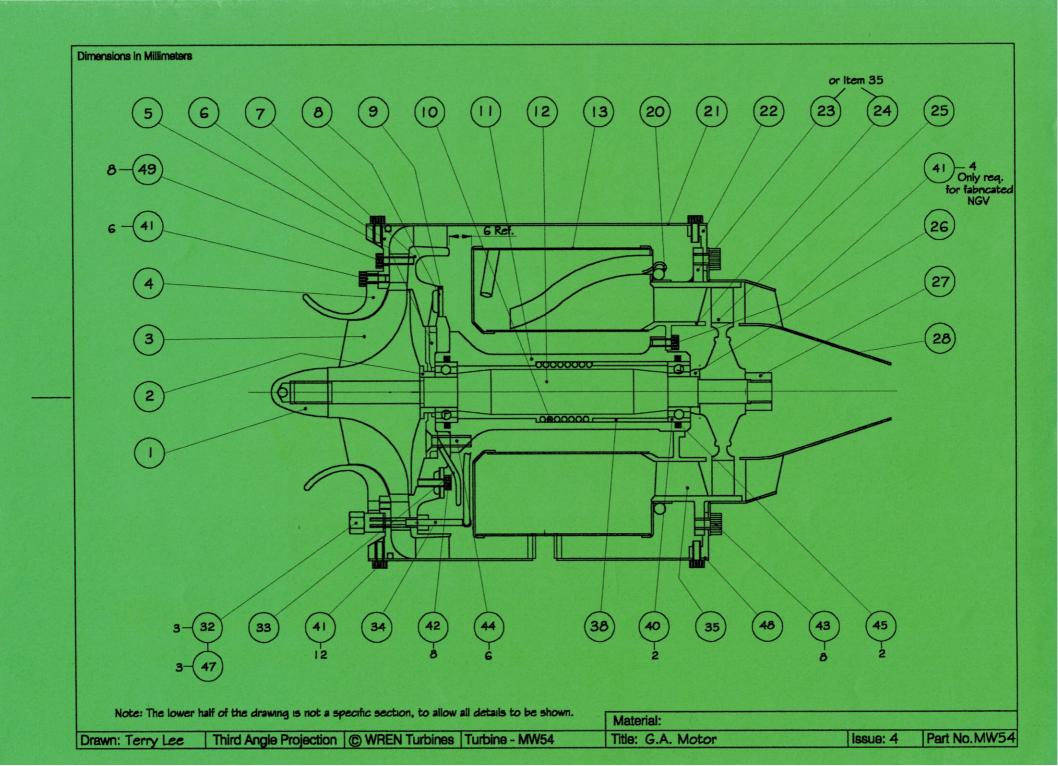


MW54 TURBO-JET

PLANS AND BUILDING INSTRUCTIONS



Item No	Description	No Off	Material	Issue	Remarks
1	Compressor Nut	1	Aluminium alloy	1	
2	Front Spacer	1	Mild steel	1	
3	Compressor	1	Garrett (Part No.446335-10)	5	Standard compressor modified
4	Intake	1	Nylon	4	Drg. now to suit comp. 09 or -10
5	Shaft Seal	1	Aluminium alloy	2	
6	Case Front	1	Aluminium alloy	5	'Chf. not required' note added
7	Diffuser	1	Aluminium alloy	3	Sheet 2: issue 3
8	Filter	1	Stainless steel	2	
9	Filter Cover	1	Aluminium alloy	2	
10	Spring	1	Spring steel	2	
11	Tunnel	1	Aluminium alloy	3	
12	Shaft	1	En 24T	2	
13	Combustion Chamber S/A	1	Comprising items 14 - 19	4	
14	Combustion Chamber Front	1	Stainless steel	1	
15	Glow Plug Boss	2	Stainless steel	1	
16	Combustor Wrapper Inner	1	Stainless steel	2	《 图》2014年
17	Combustor Wrapper Outer	1	Stainless steel	4	
18	Vaporiser Tube	6	Stainless steel	3	
19	Combustion Chamber Rear	1	Stainless steel	2	
20	Fuel Pipe Assy.	1	Brass	3	
21	Case Outer	1	Stainless steel	3	
22	Case Rear	1	Mild steel	3	2000年1月1日 - 1000年1月1日 - 1000年1月 - 1000年11日 - 1000年1
23	NGV Outer	1	Stainless steel	1	Not required if cast version is used - item 35
24	NGV Inner	1	Stainless steel	2	Not required it cast version is used - item 55
25	Turbine Wheel	1	Inconel	1	"是是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是我们的人
26	Rear Spacer	1	Mild steel	1	为企业企业企业的企业企业企业企业企业企业企业企业
27	Turbine Nut	1	Stainless steel	1	
28	Exhaust Cone Assy.	1	Comprising items 29 - 31	2	
29	Cone Outer	1	Stainless steel	1	
30	Cone Inner	1	Stainless steel	1	
				Issue: 3	Item List for MW54 Sht.1

Item No	Description	No Off	Material	Issue	Remarks
31	Outlet Vane	4	Stainless steel	2	
32	Adaptor	3	Brass	2	
33	Lubrication Pipe	1	Brass	2	
34	Gas Pipe	1	Brass/Stainless steel	2	
35	Cast NGV	1		2	Items 23/24 not req
36	Tube End Fitting	3	Stainless steel	3	
37	Templates	62.53		2	
38	Preload Tube	1	Mild steel	2	
39	Swirl Jet	6	Stainless steel	2	
40	Ball Race	2	GRW 688 - Ceramic		
41	Cap screw M2.5 x 5	22*	Stainless steel		*18 if cast NGV
42	Cap screw M2.5 x 7	8	Stainless steel		
43	Cap screw M3 x 4	8	Stainless steel		
44	Skt hd. Csk. Screw M3 x 12	6	Stainless steel		
45	'O' ring	2	16 x 1.5		Viton
46	经验证的证据的证据的		国际的高级。在2000年2月18年的 2 000		· 多数,这种种的一种,但是一种的一种,但是一种的一种。
47	Seal	3	Fibre washer 3.0 bore		
48	Sealant		High temp Silicone		
49	Cap screw M2.5 x 8	8	Stainless steel		
50	'O' ring cord		Dia. 1.5 mm section		275 long
	General arrangement			5	

NOTES

- a) Some items have an indication 'TOP'. It is suggested you mark this position on the item during manufacture.
- b) Some groups of holes are marked with the symbol #, this indicates that the relative position between these groups is important.
- c) All drawings are full size, although some have enlarged views.
- d) All dimensions are **nominal**, this means that you should allow the appropriate clearances where parts are fitted together. Full engineering tolerances would only complicate the manufacture.

	Item List for MW54
ssue: 4	Sht.2

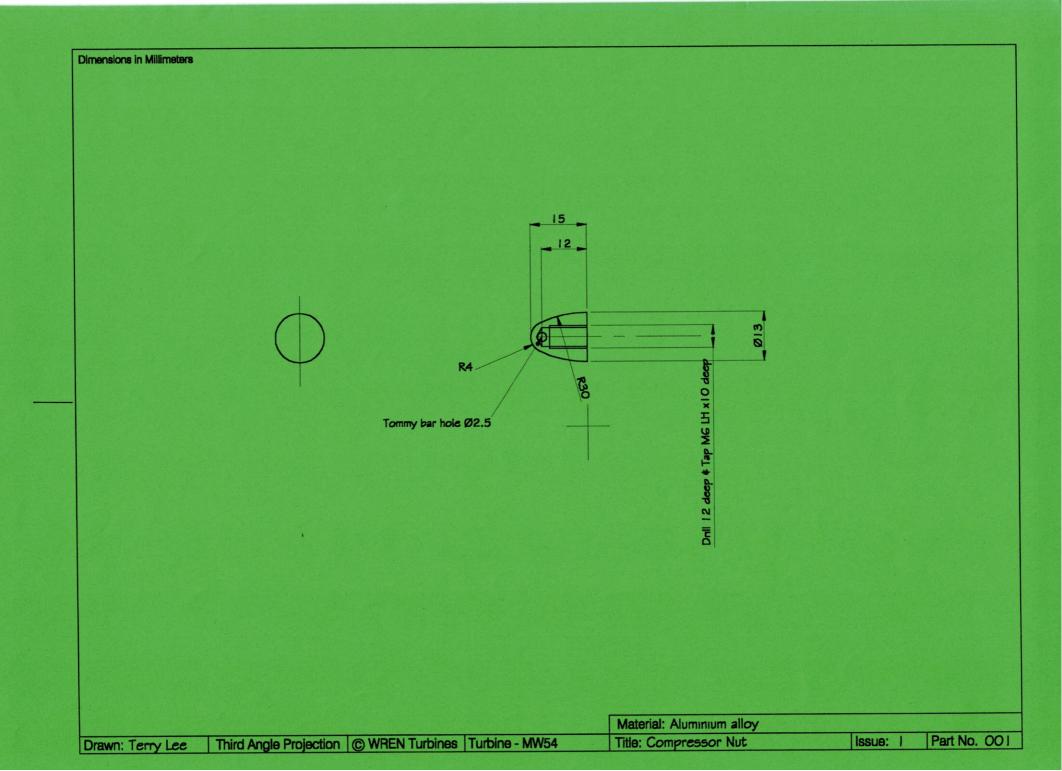
Dimensions in Millimeters

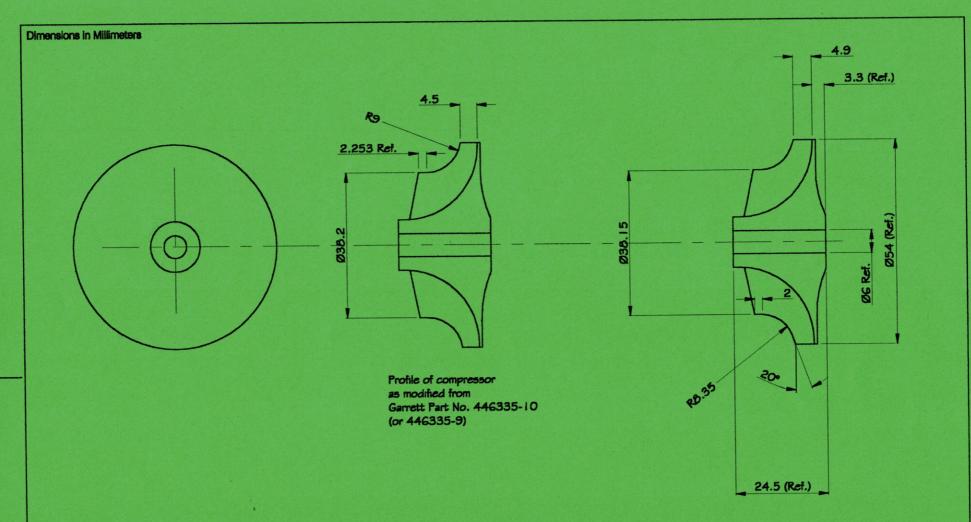
4 These faces MUST be parallel
This dimension may be modified
ensure correct fit between
compressor and diffuser.

This dimension may be modified ensure correct fit between compressor and diffuser.

Actual Size

Drawn: Terry Lee Third Angle Projection © WREN Turbines Turbine - MW54 Title: Front Spacer Issue: I Part No. OO2



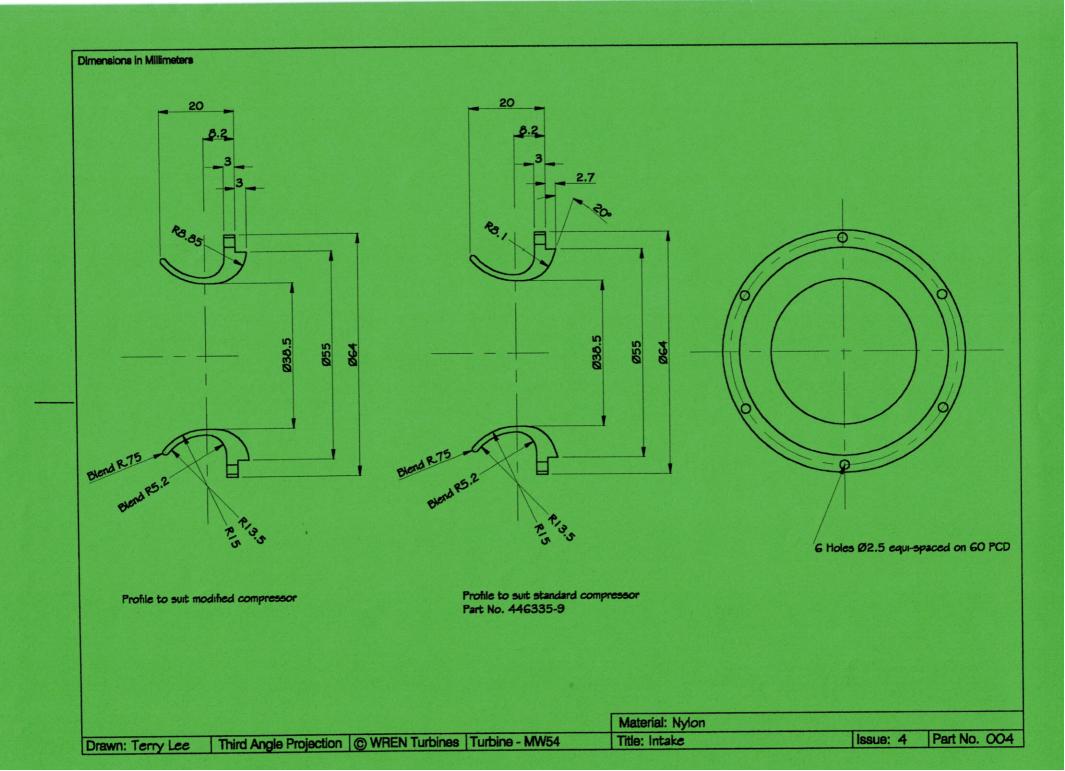


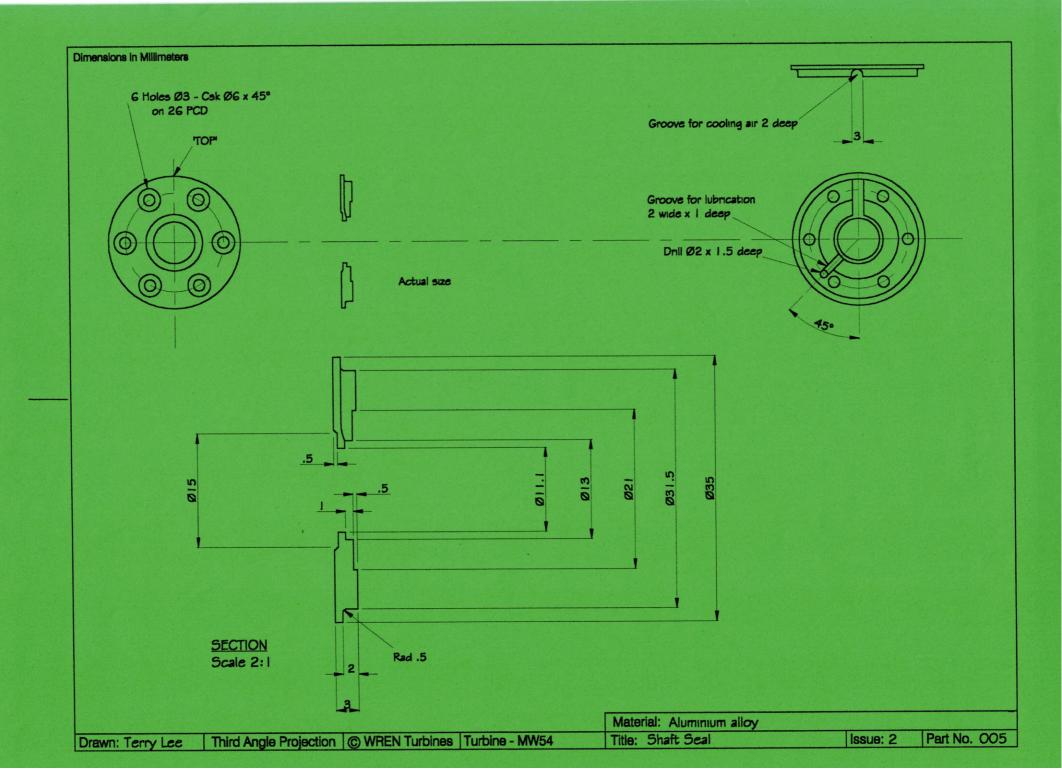
Please Note:

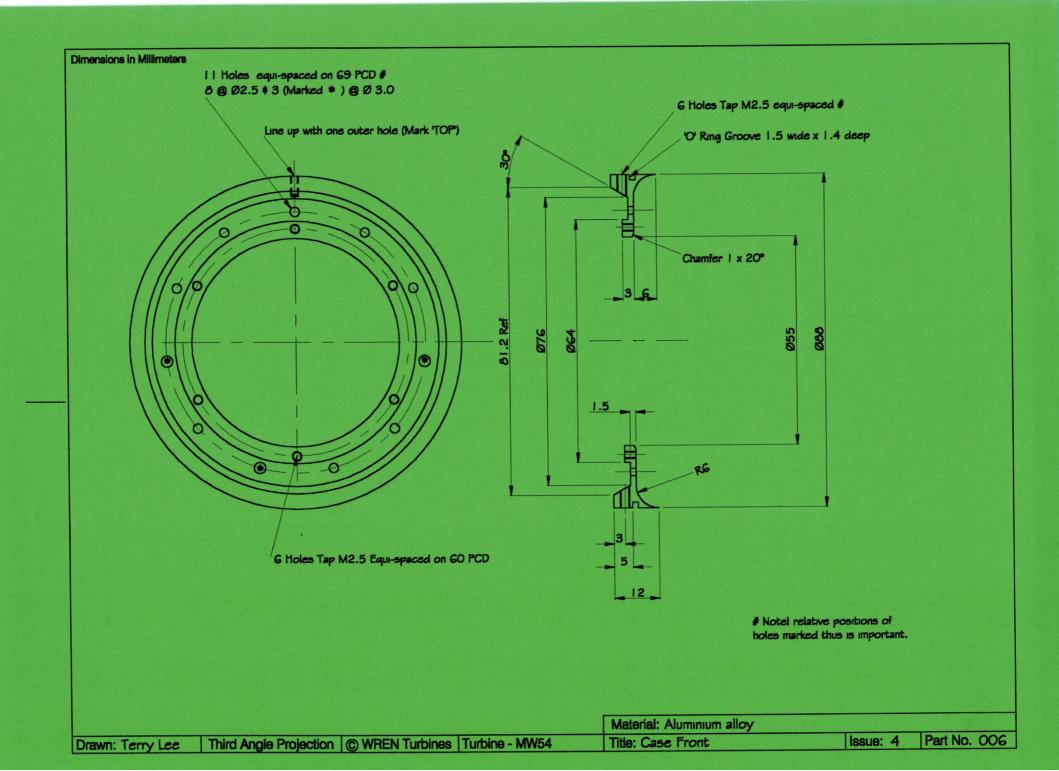
Although the engine will run using the compressor part No. 446335-9, it will accelerate much better using the modified form as shown above. The '-10' compressor is also less expensive.

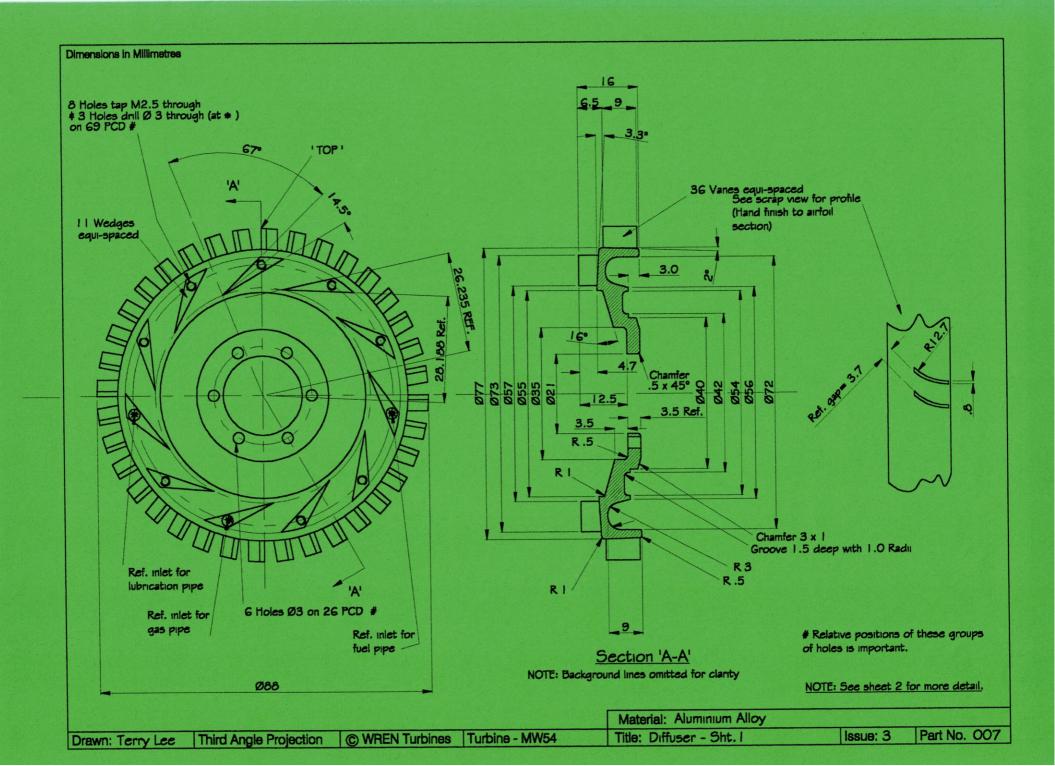
Profile of standard compressor: Garrett Part No. 446335-9

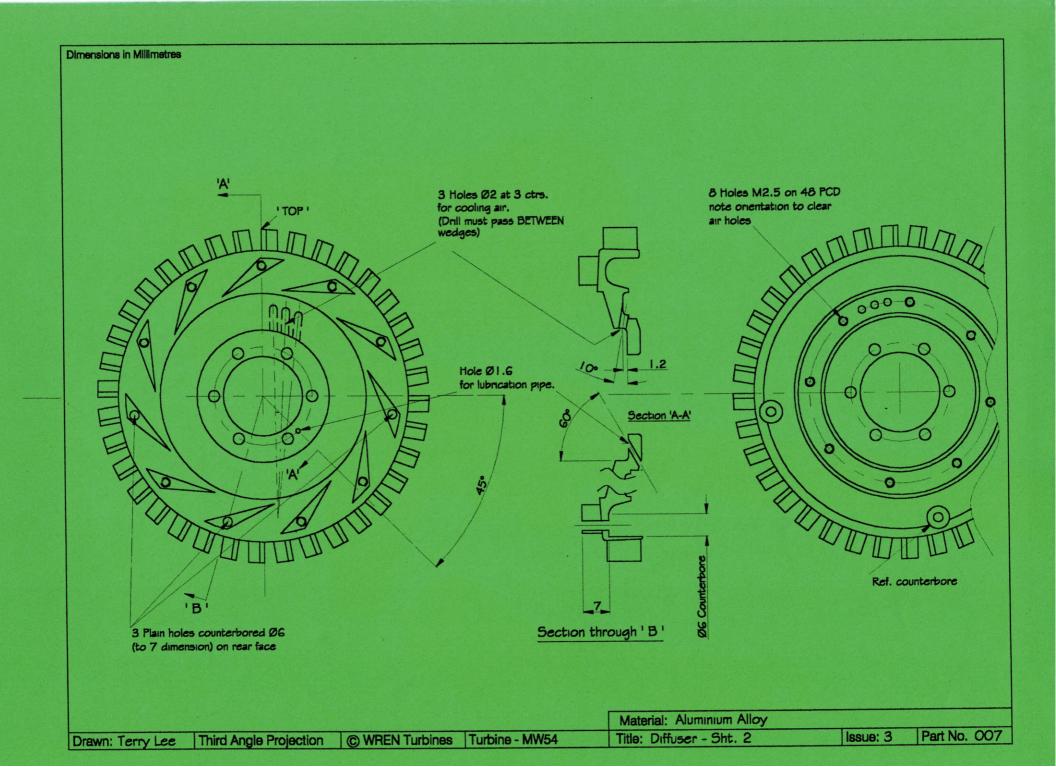
		Material: Aluminium Alloy		
Drawn: Terry Lee	Third Angle Projection © WREN Turbines Turbine - MW54	Title: Compressor	Issue: 5	Part No. 003





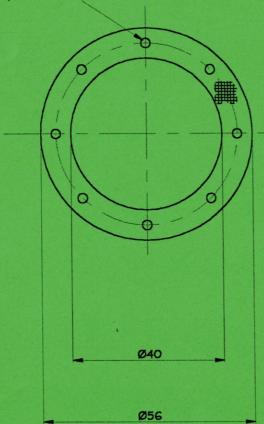






Dimensions in Millimeters

8 Holes Ø2.5 equi-spaced on 48 PCD



Suggested method of manufacture

Affix mesh to filter cover using super glue taking care not to block the mesh in the area of the intake holes.

Cut round edges using scissors or knife.

Punch 2mm fixing holes.

Filter Specification

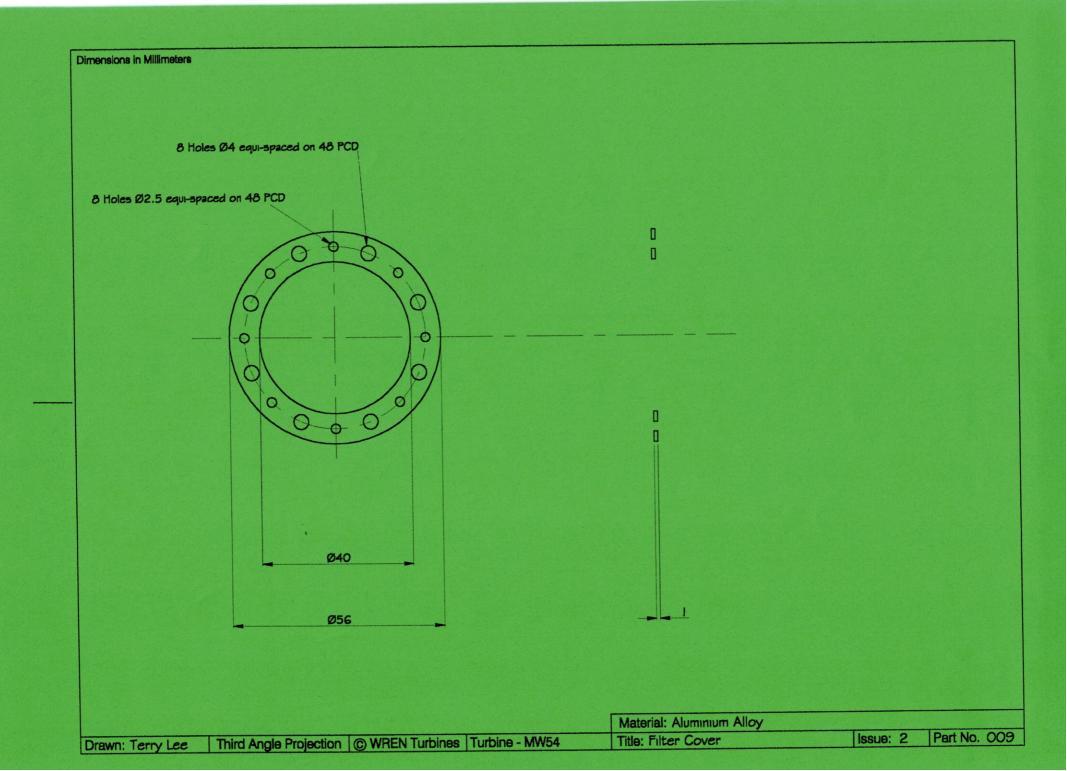
Material: Stainless steel mesh '200 mesh' with strands of .005"

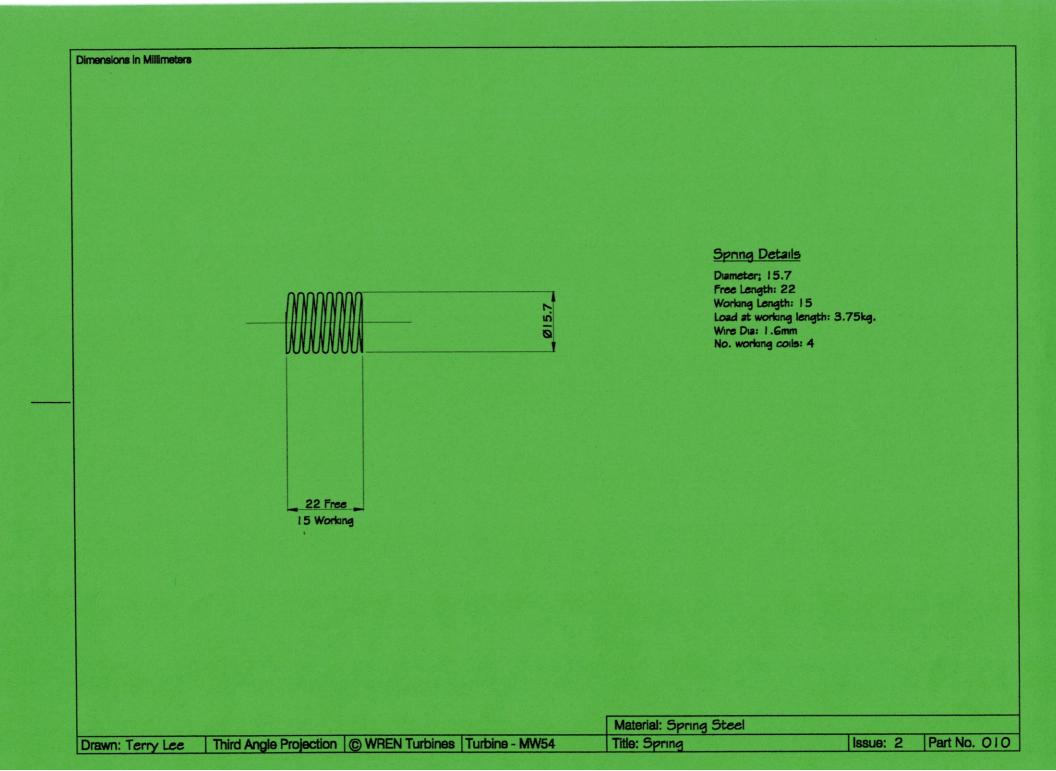
Material may be obtained from:
J.A. Crewe & Co
Watery Gate Farm,
Chipping Campden,
Gloucestershire,
GL55-6QU
Tel: 01386-841979

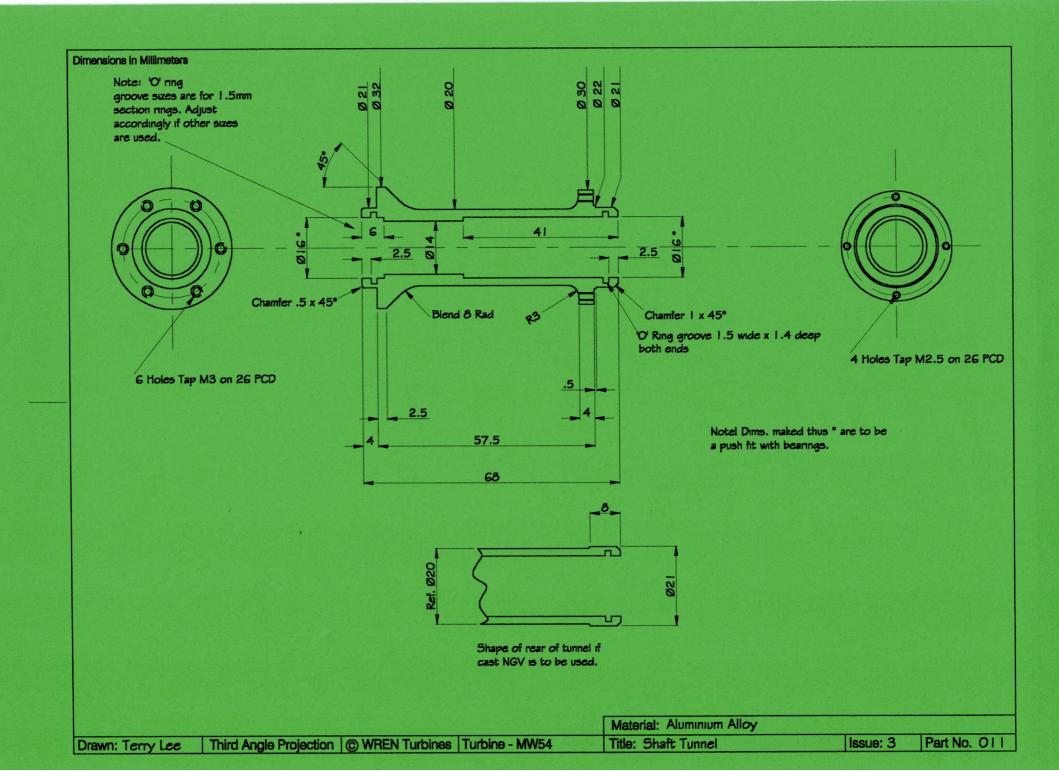
Part No. 008

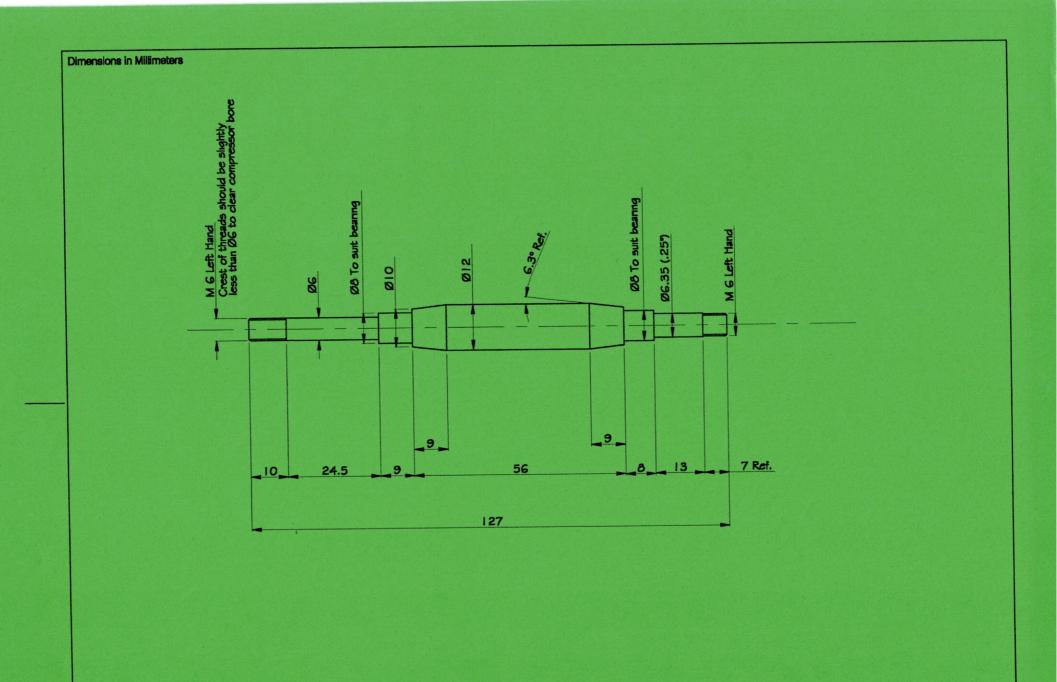
Material: Stainless Steel

Drawn: Terry Lee Third Angle Projection © WREN Turbines Turbine - MW54 Title: Filter Issue: 2

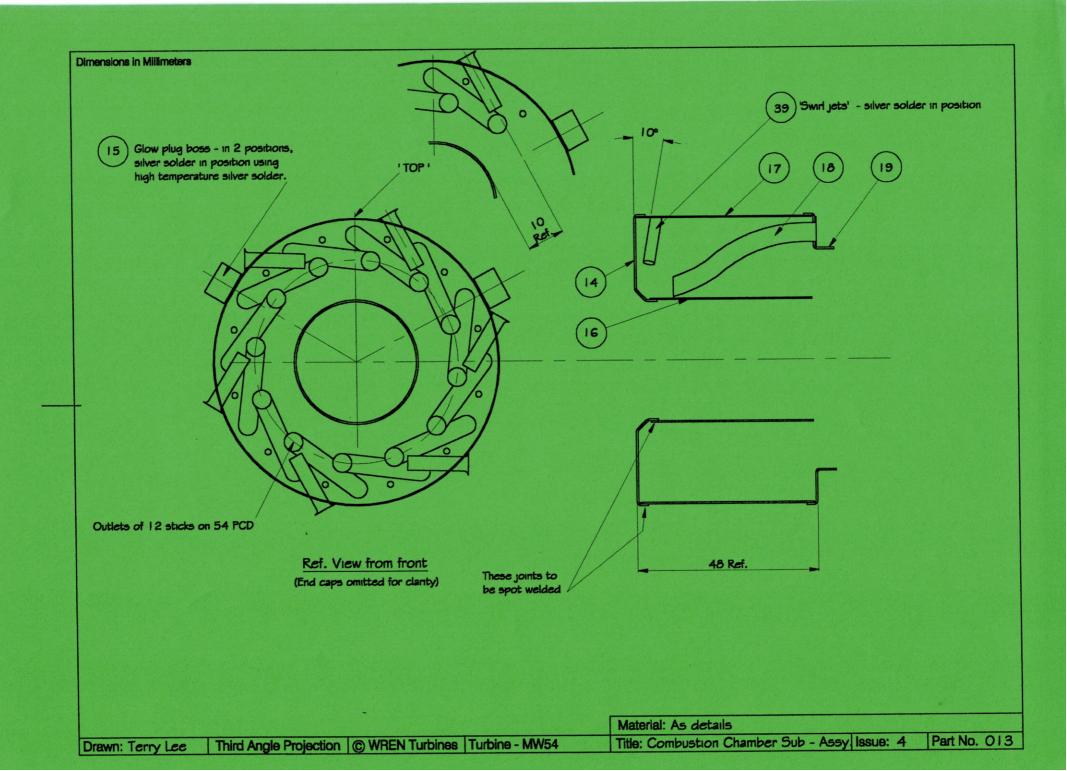


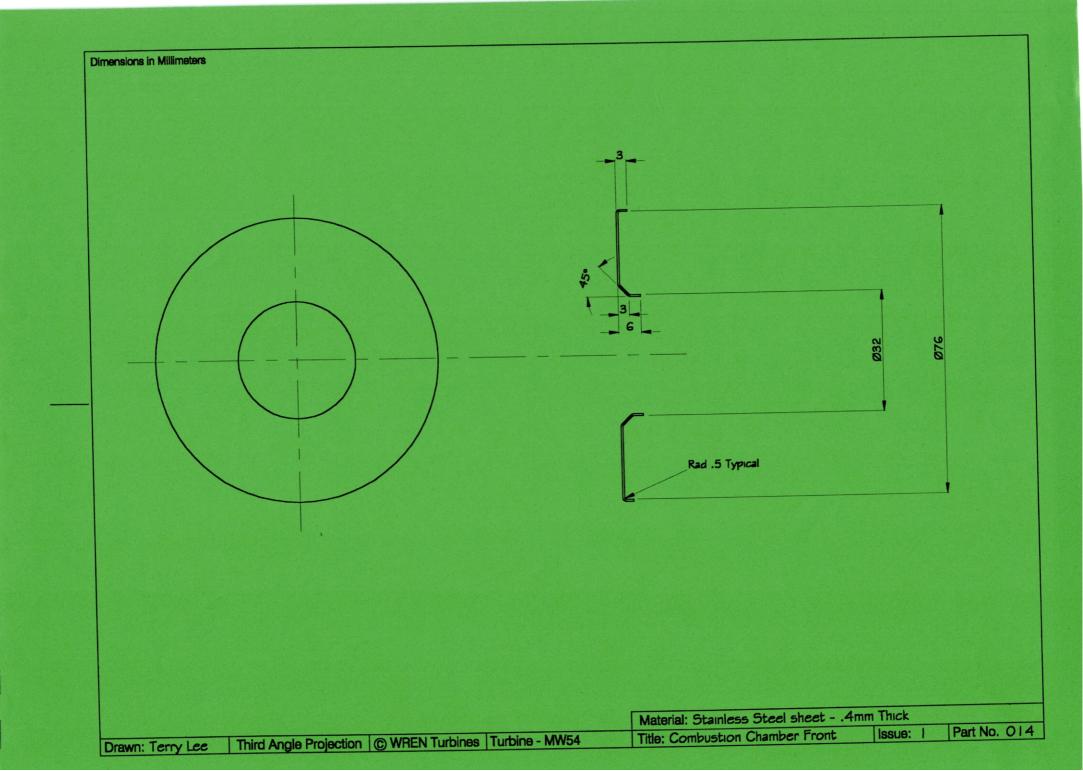


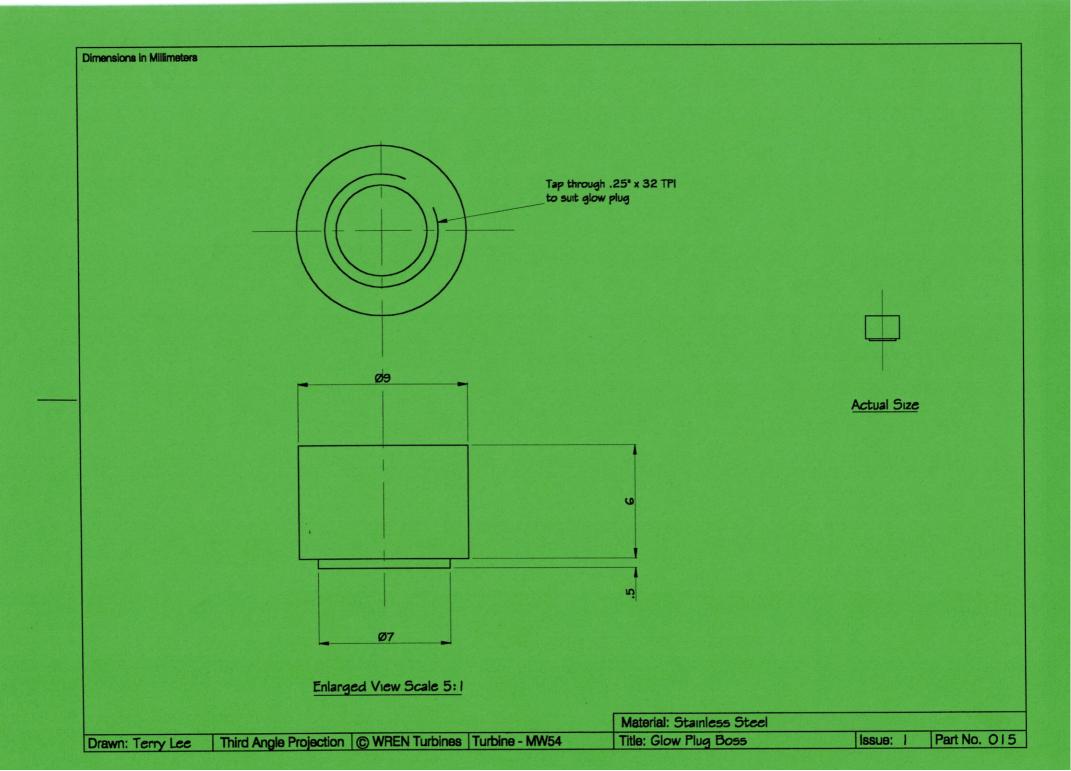


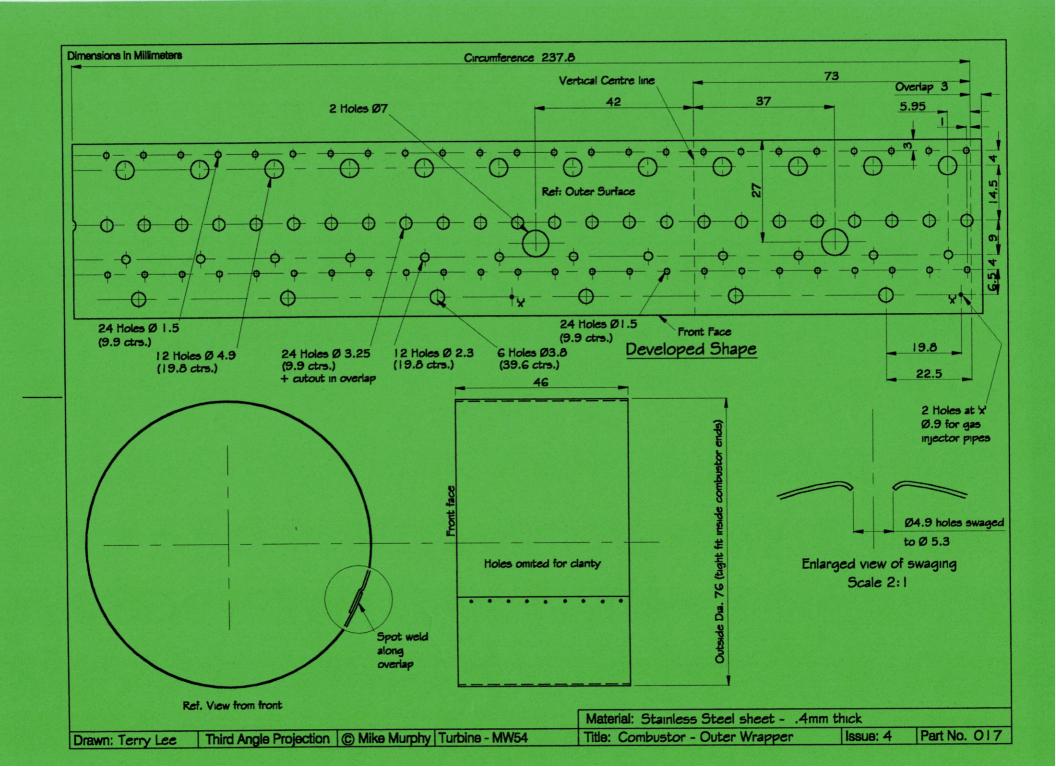


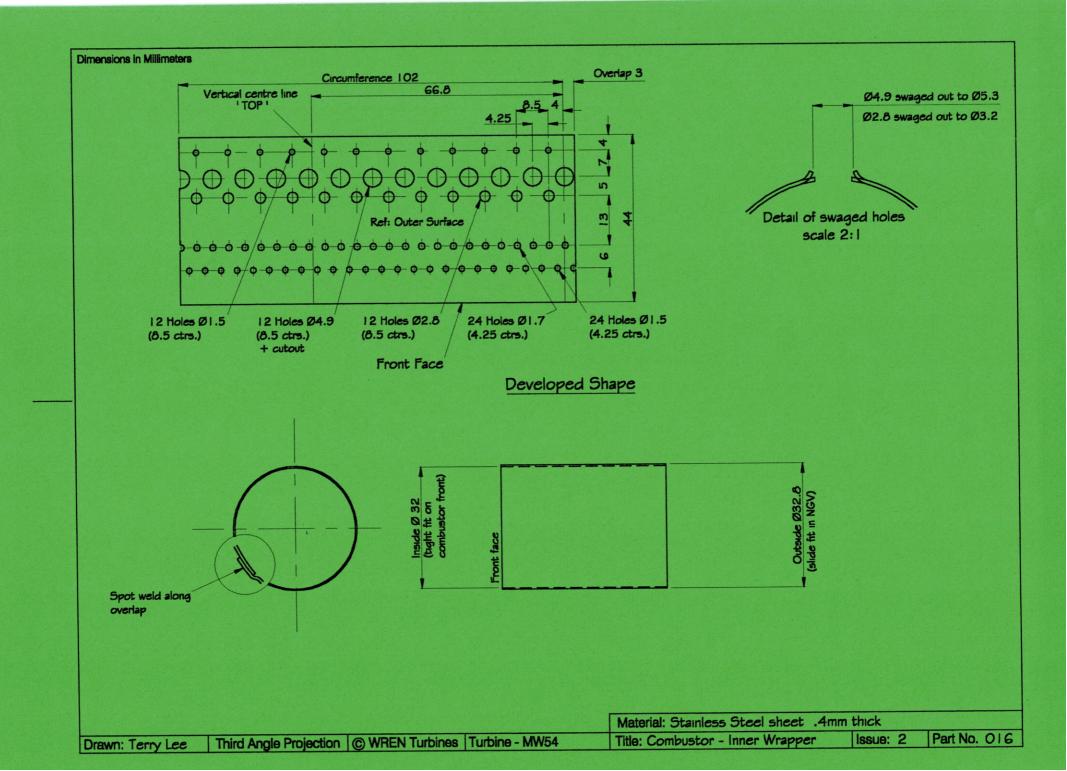
Drawn: Terry Lee Third Angle Projection © WREN Turbines Turbine - MW54 Title: Shaft Issue: 2 Part No. 012

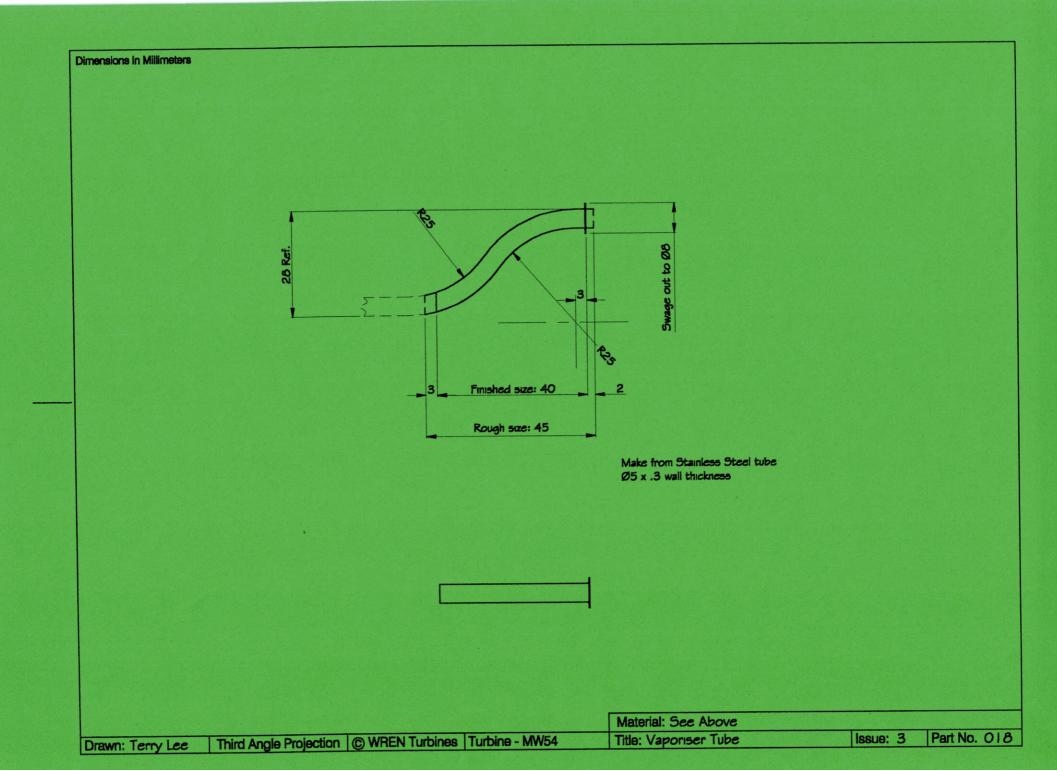


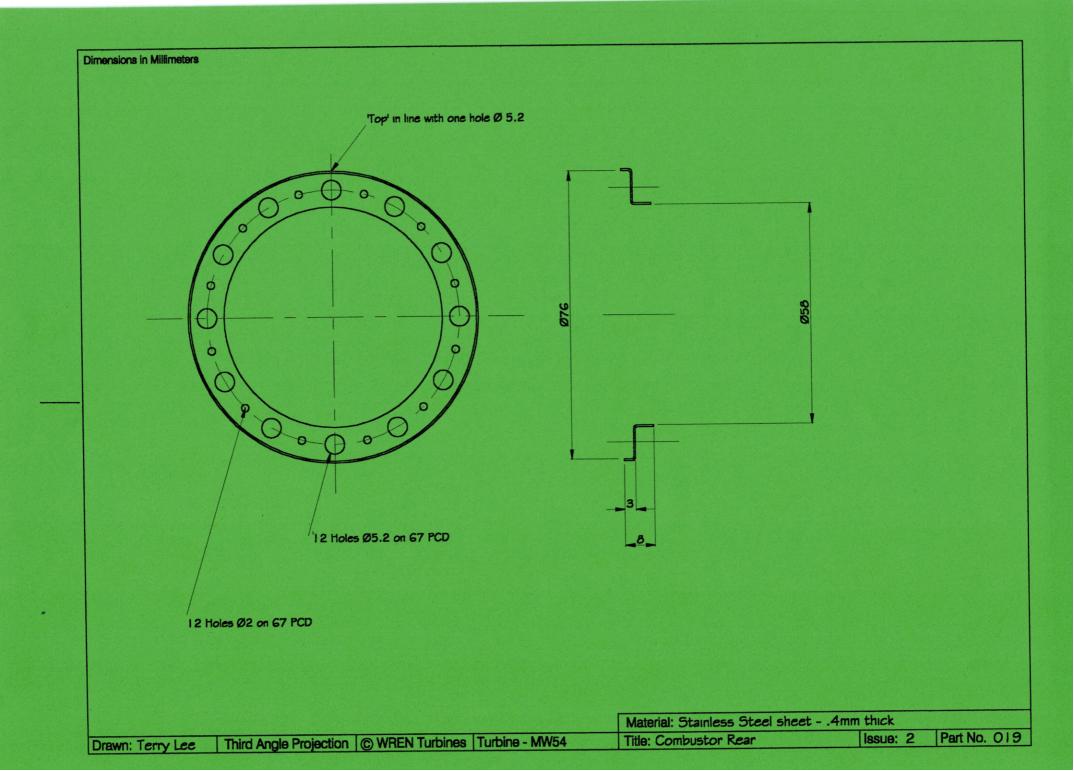


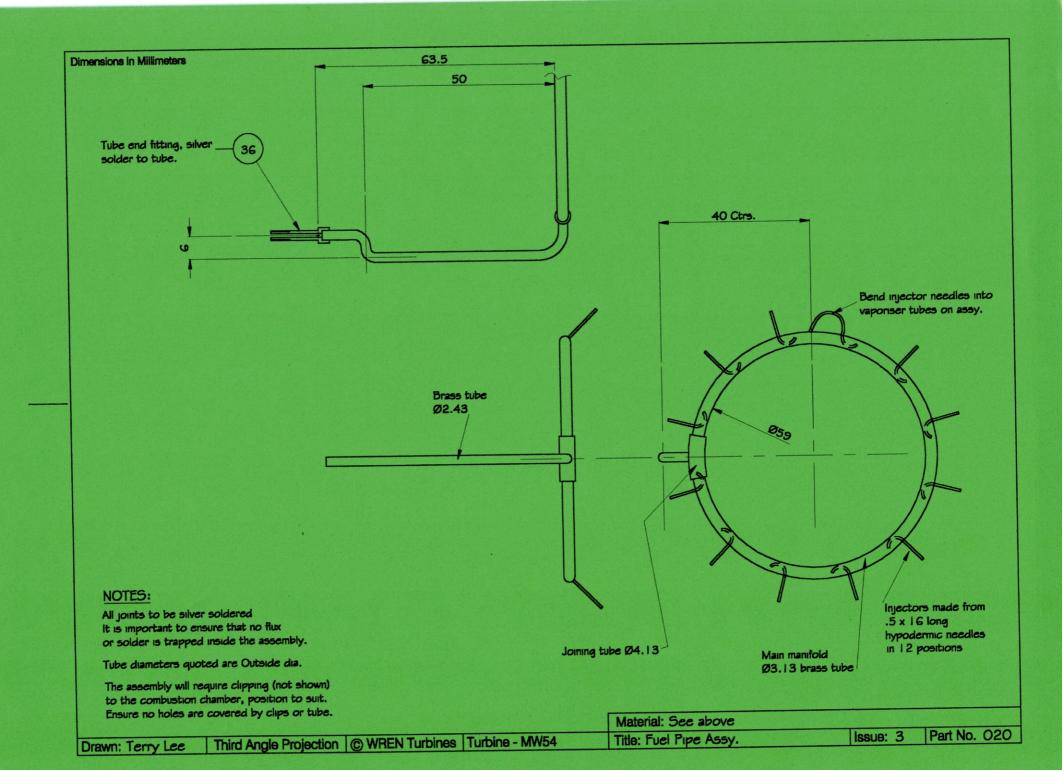


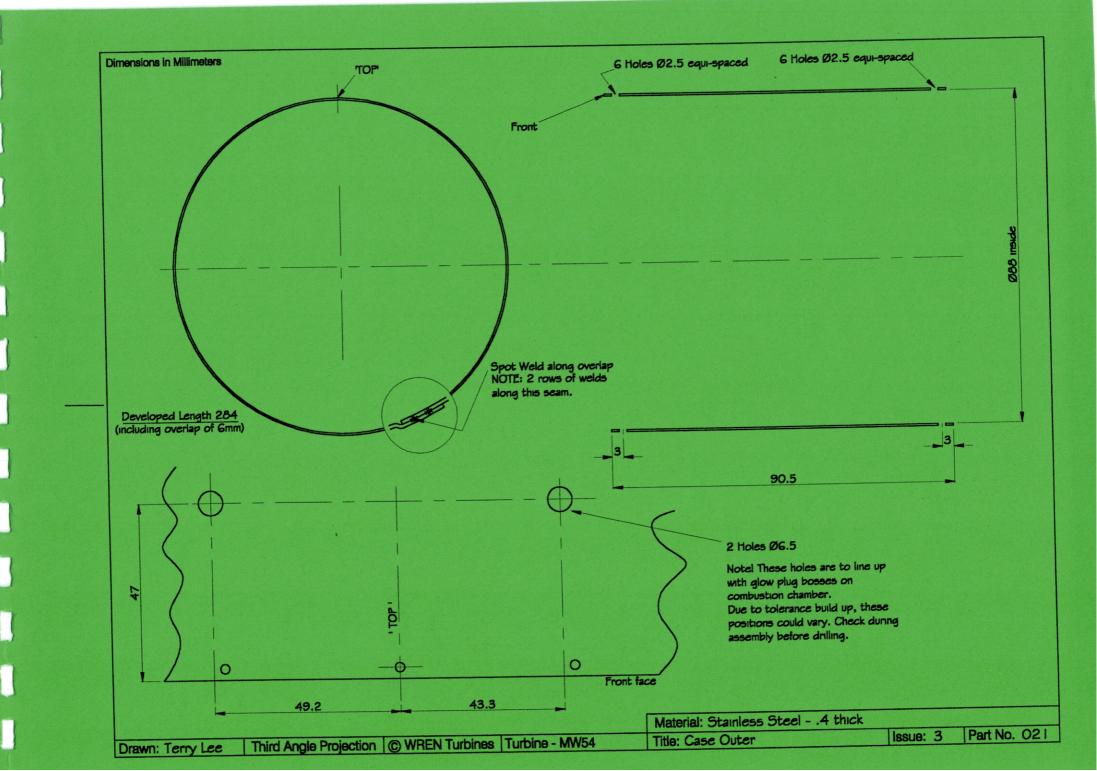


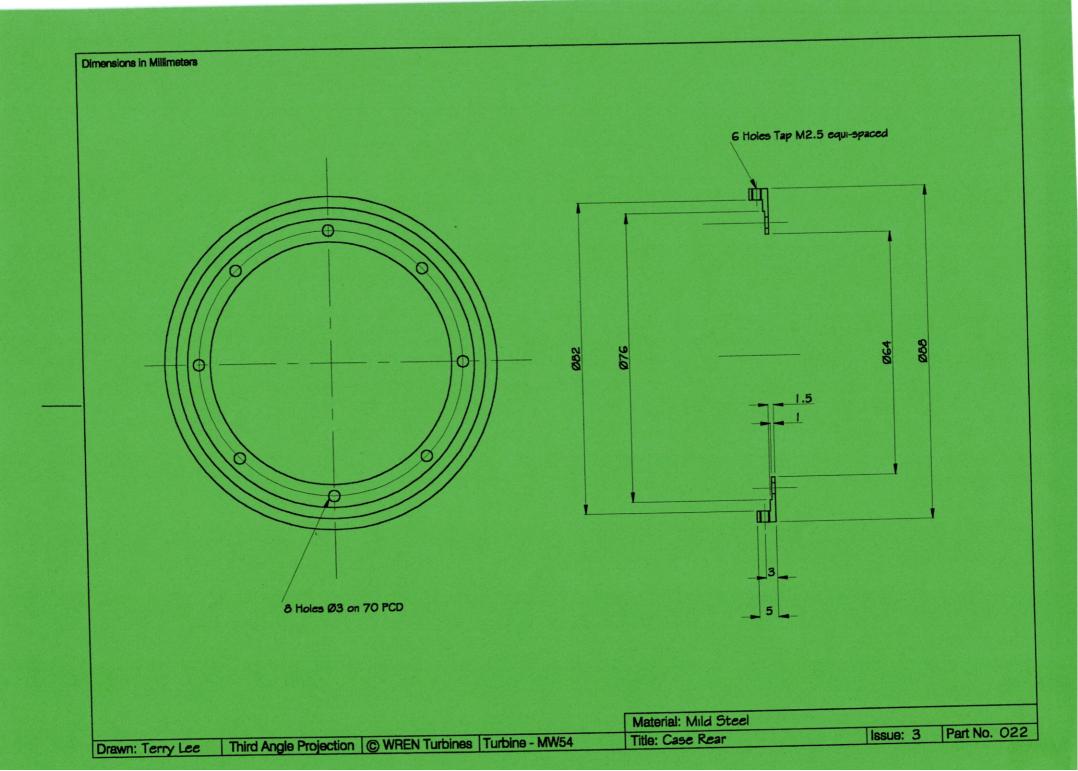


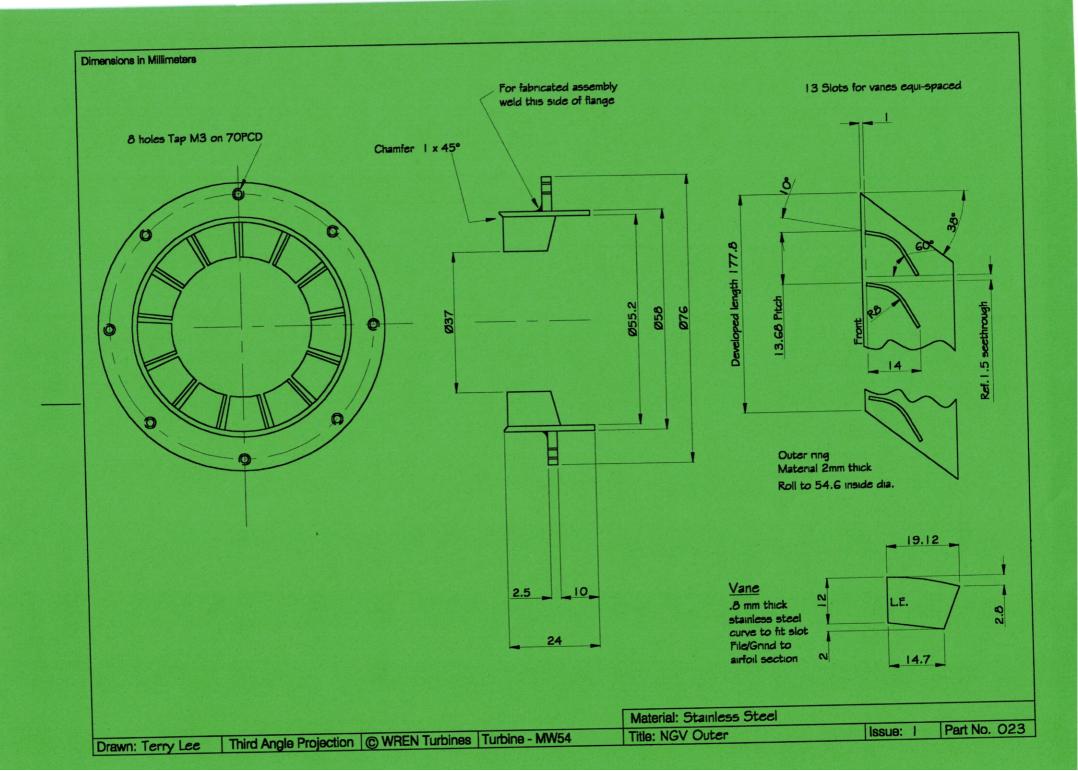


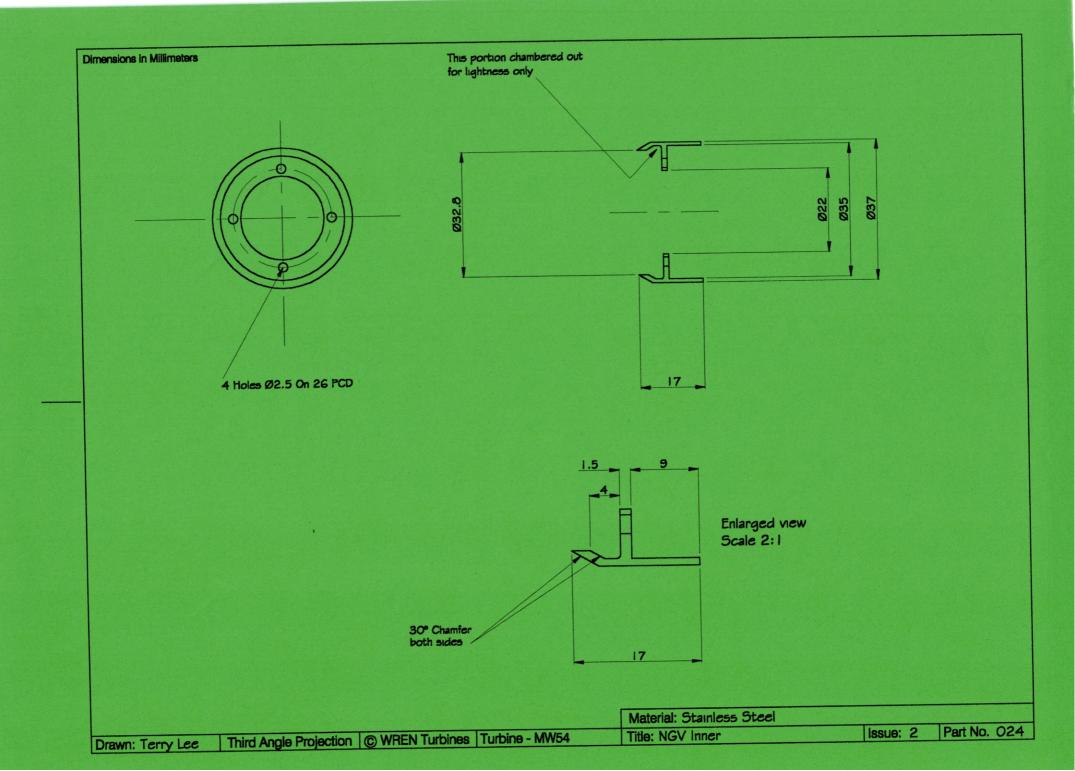


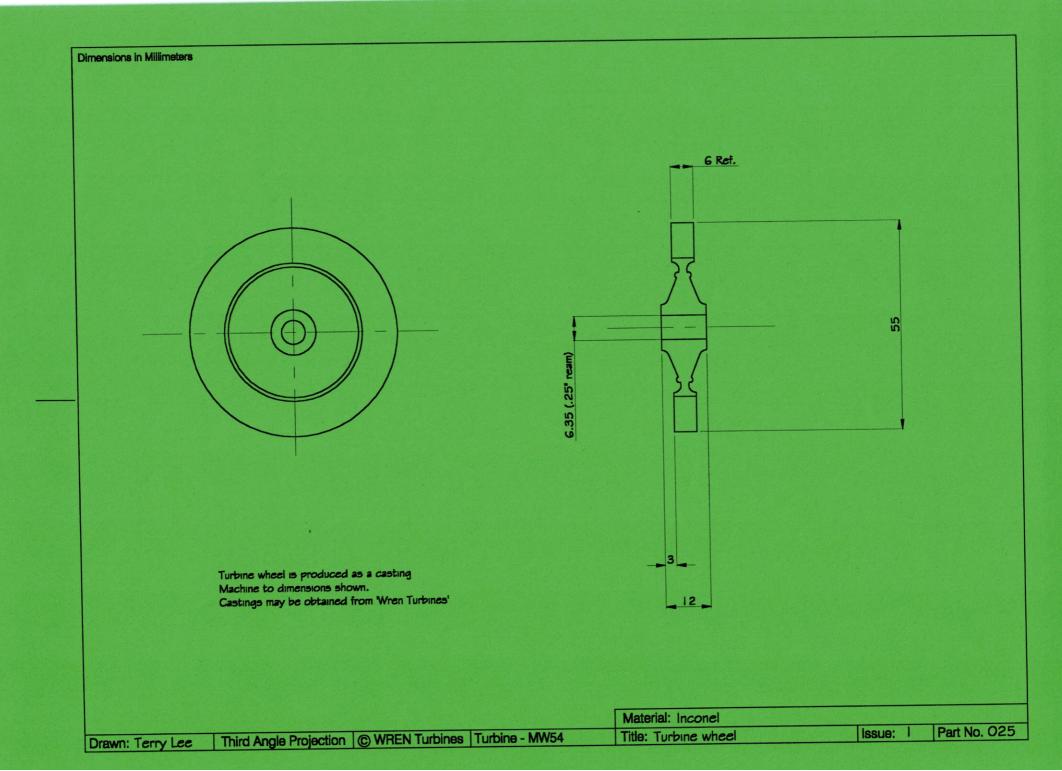


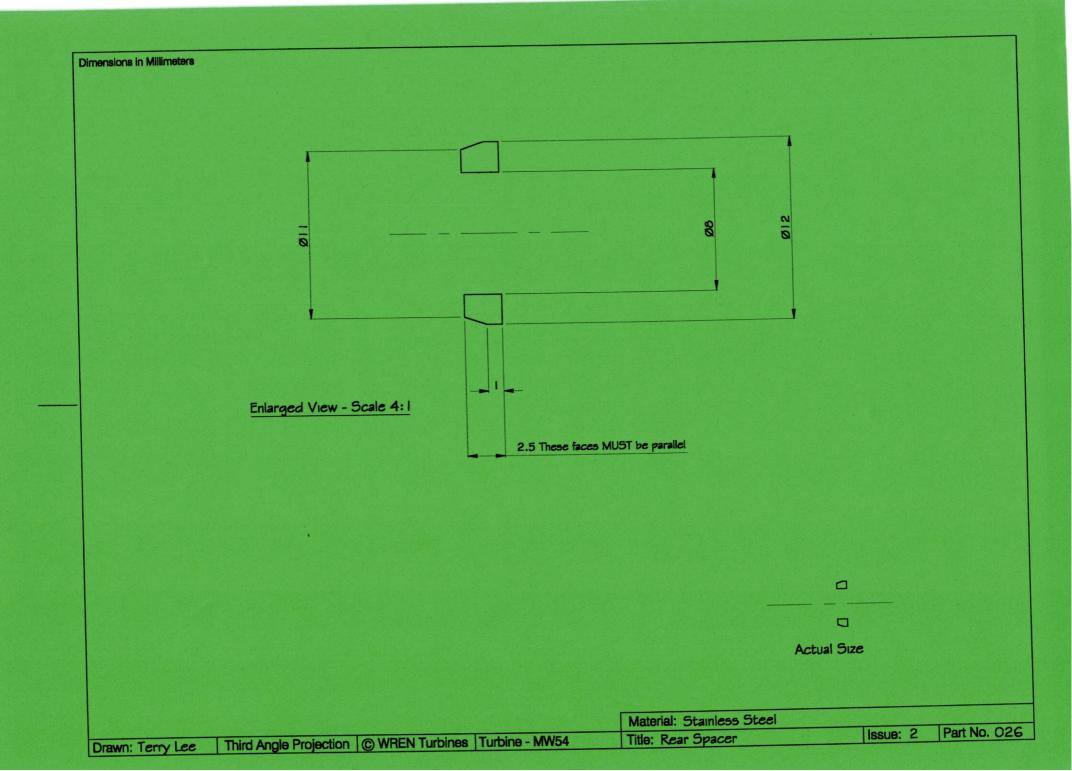


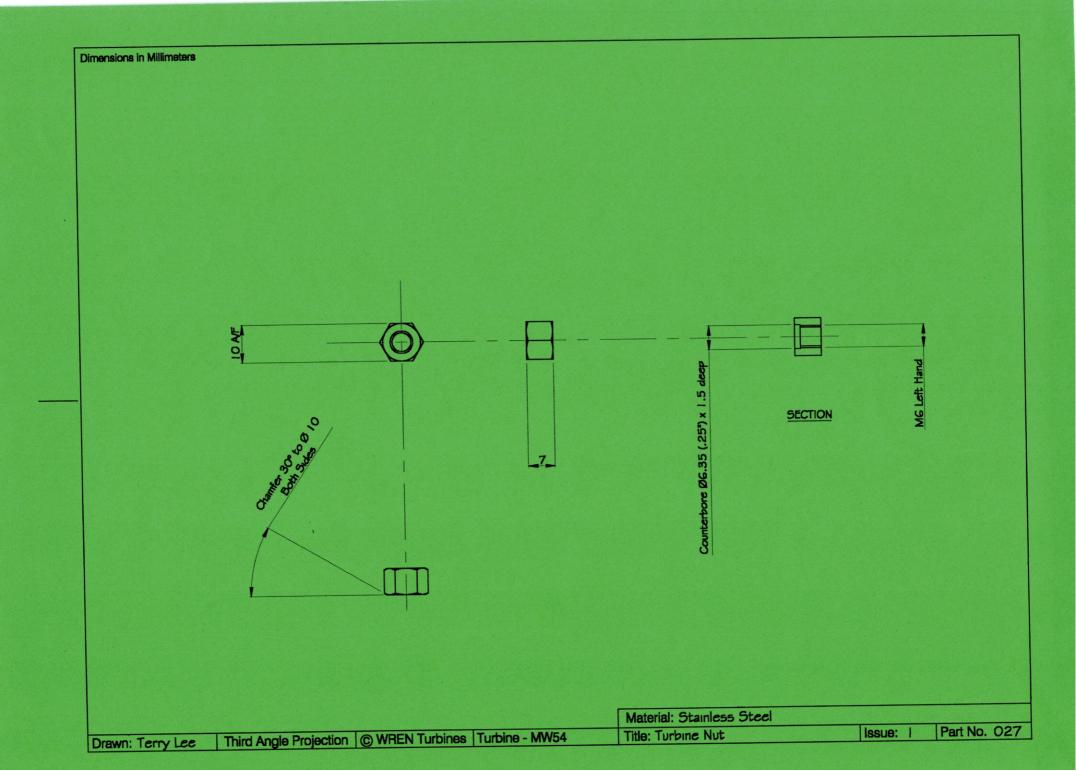


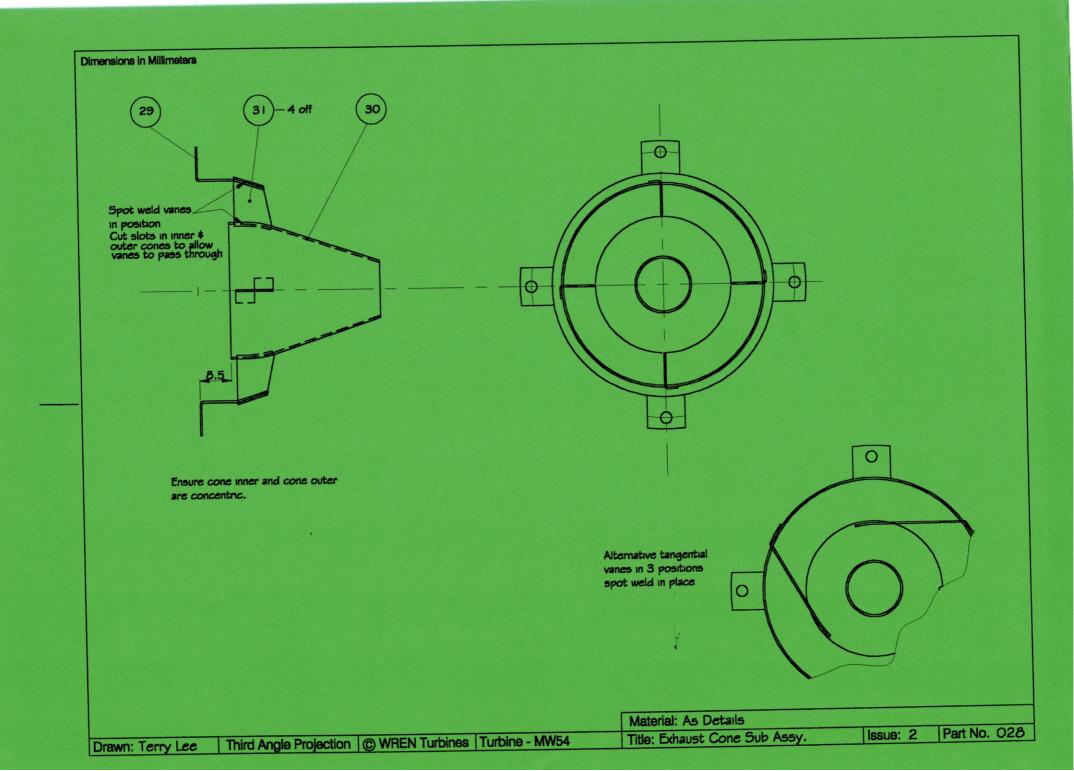


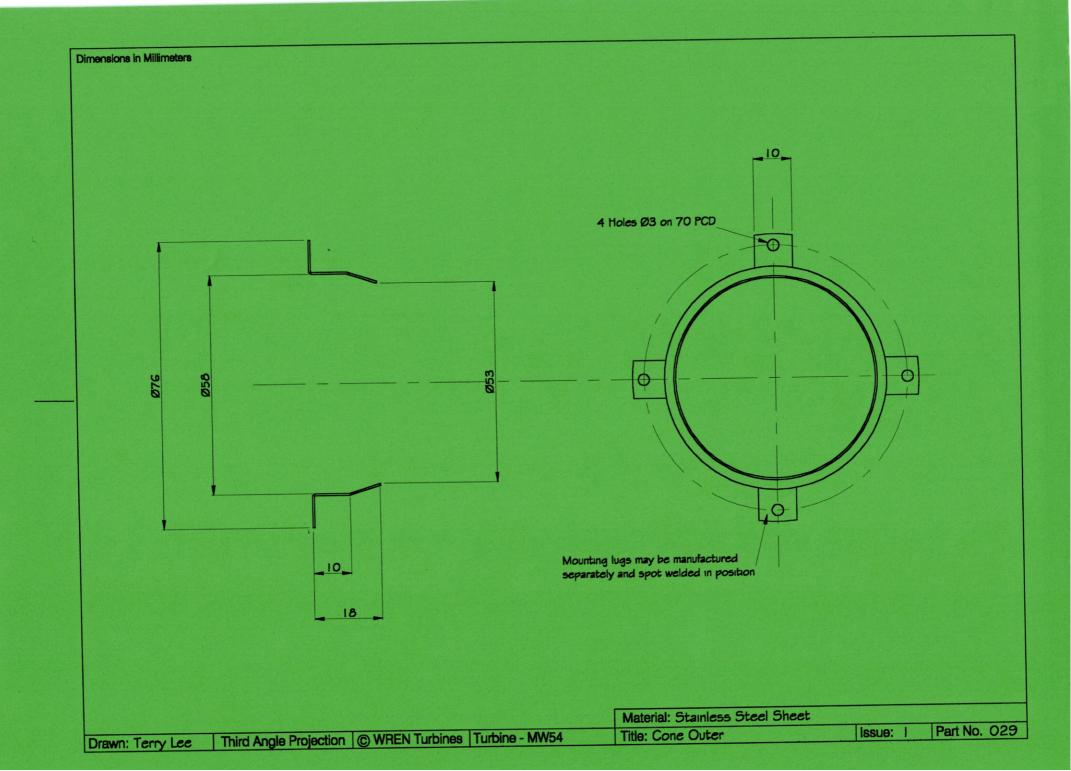


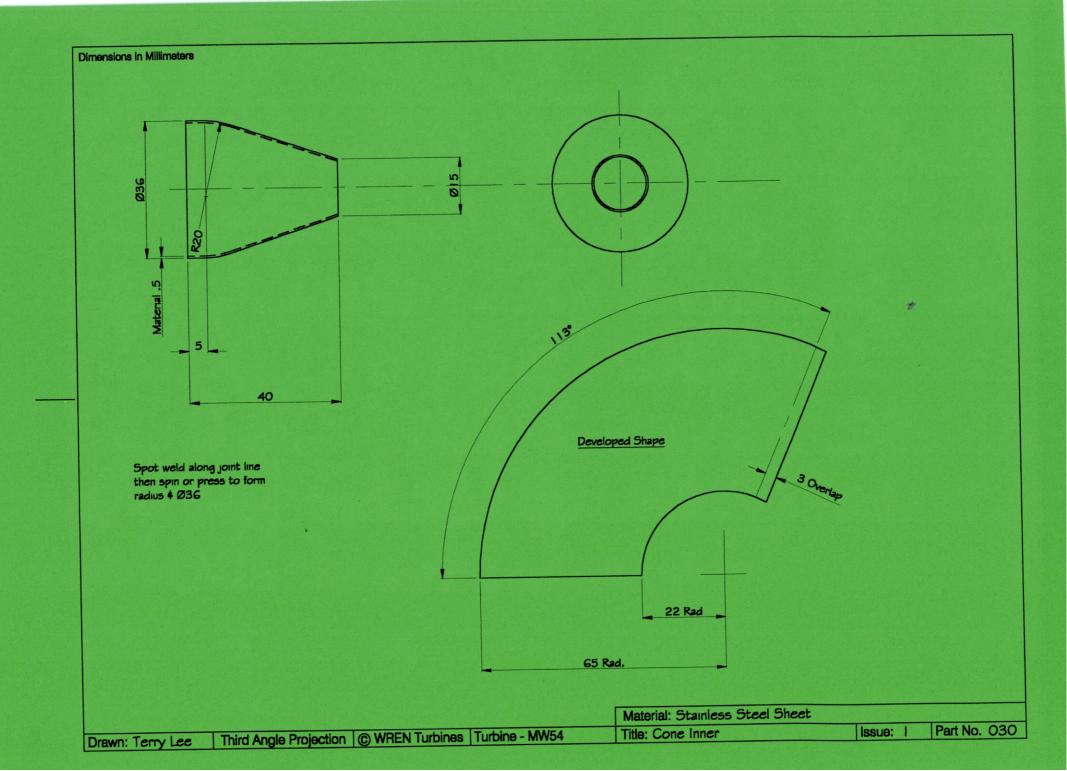


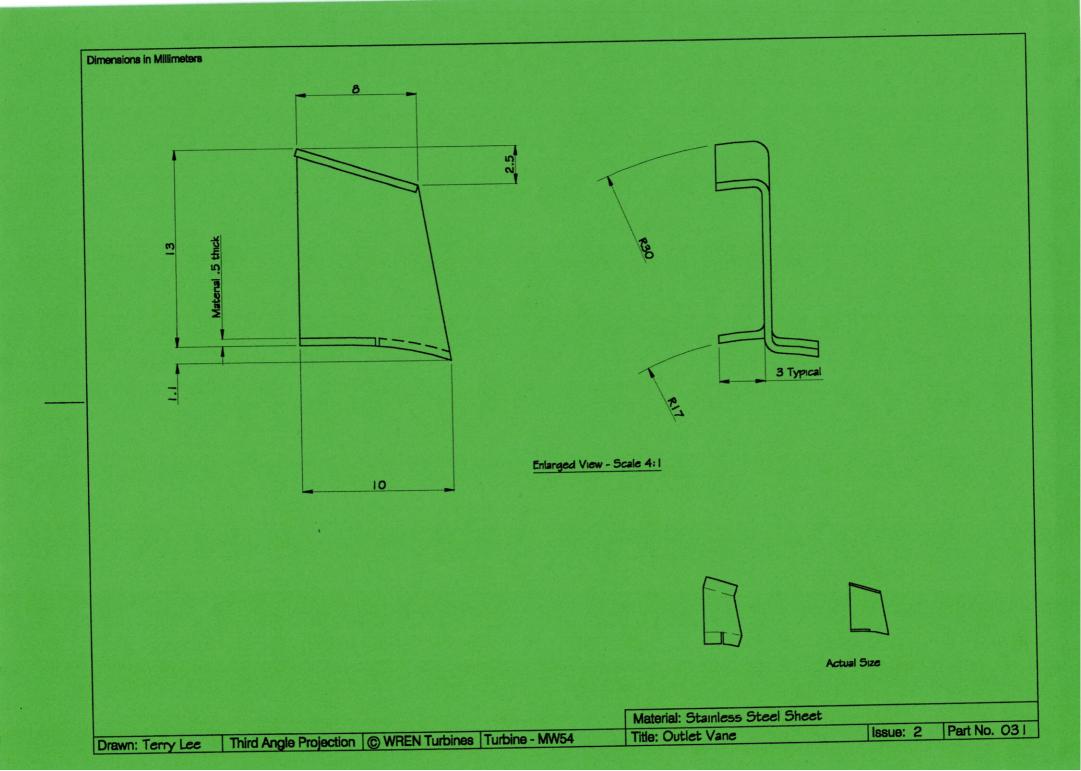


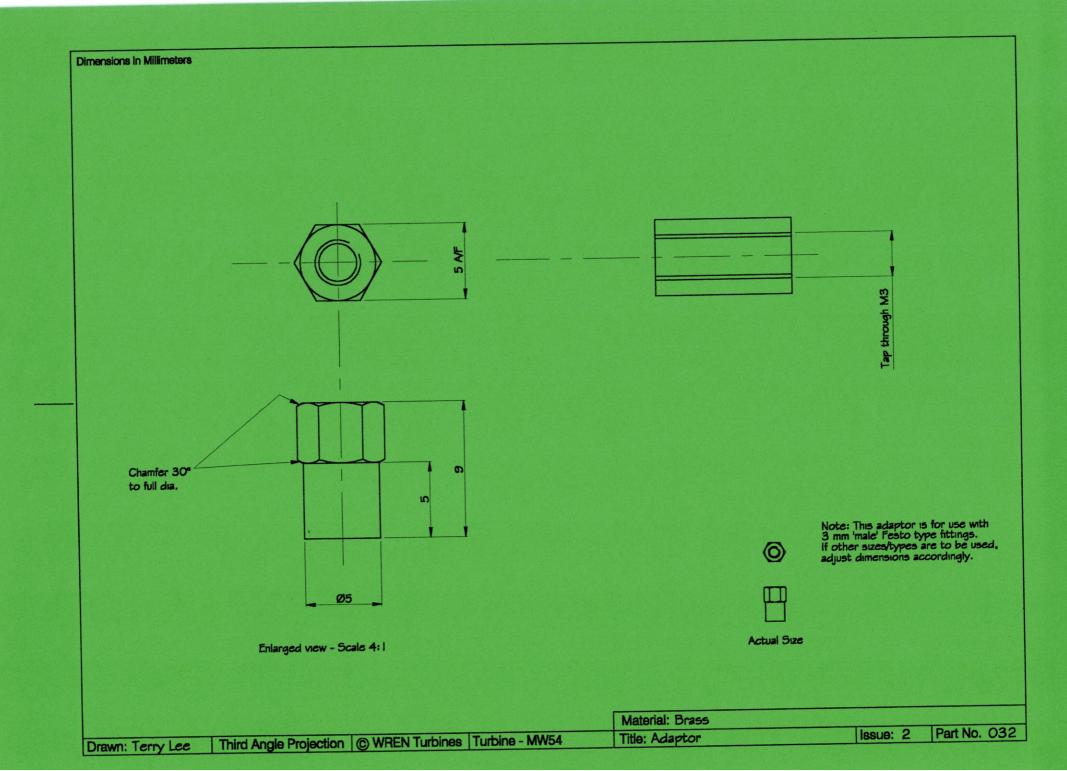


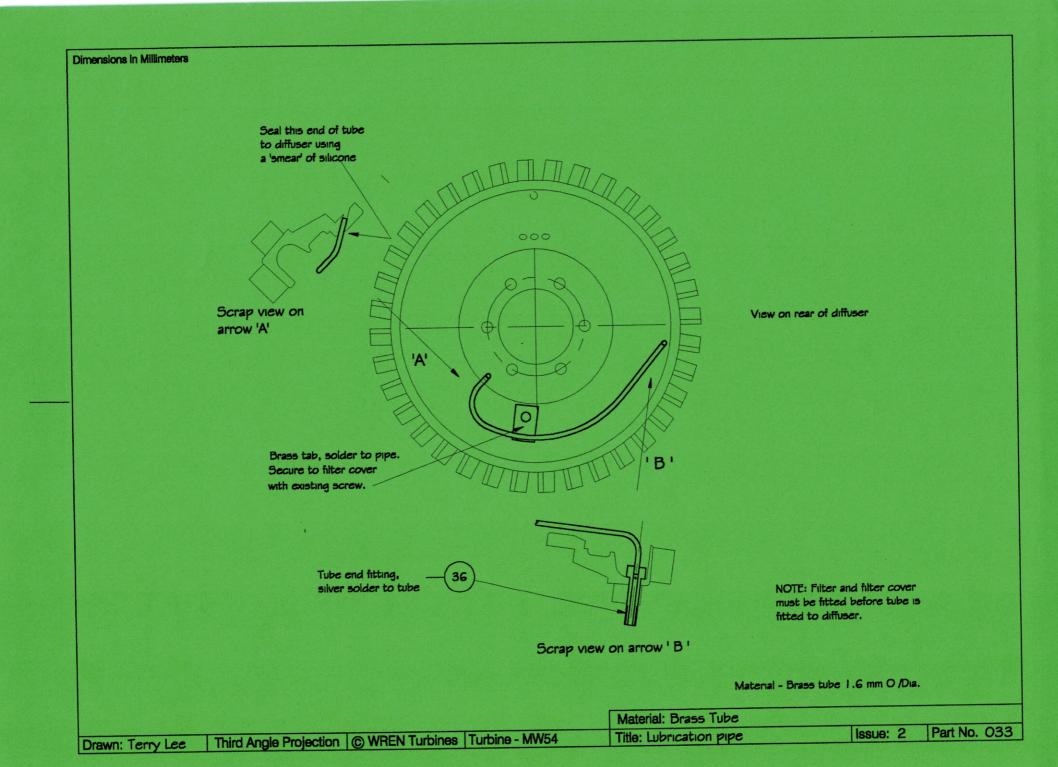


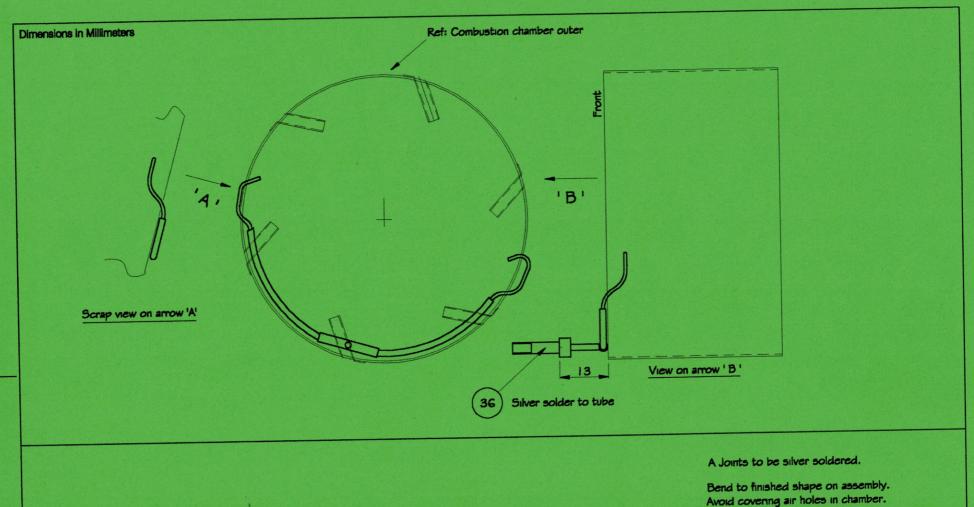


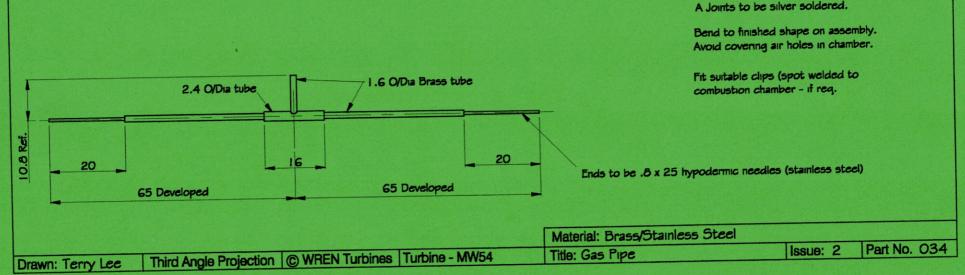


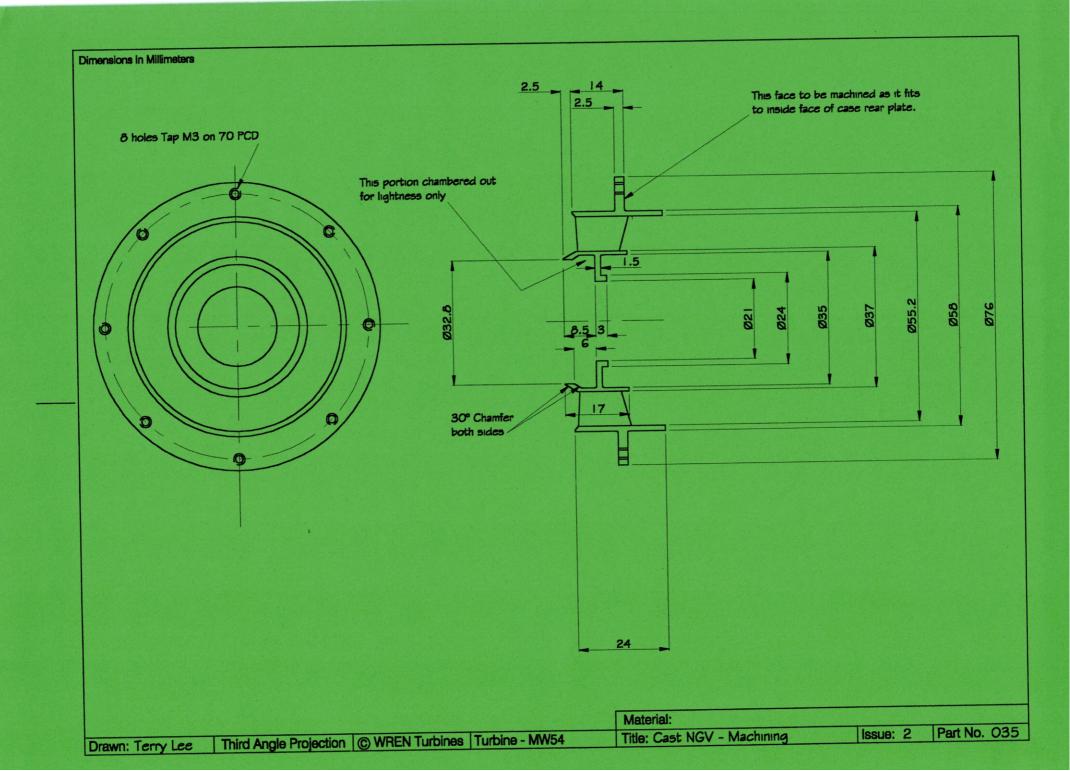


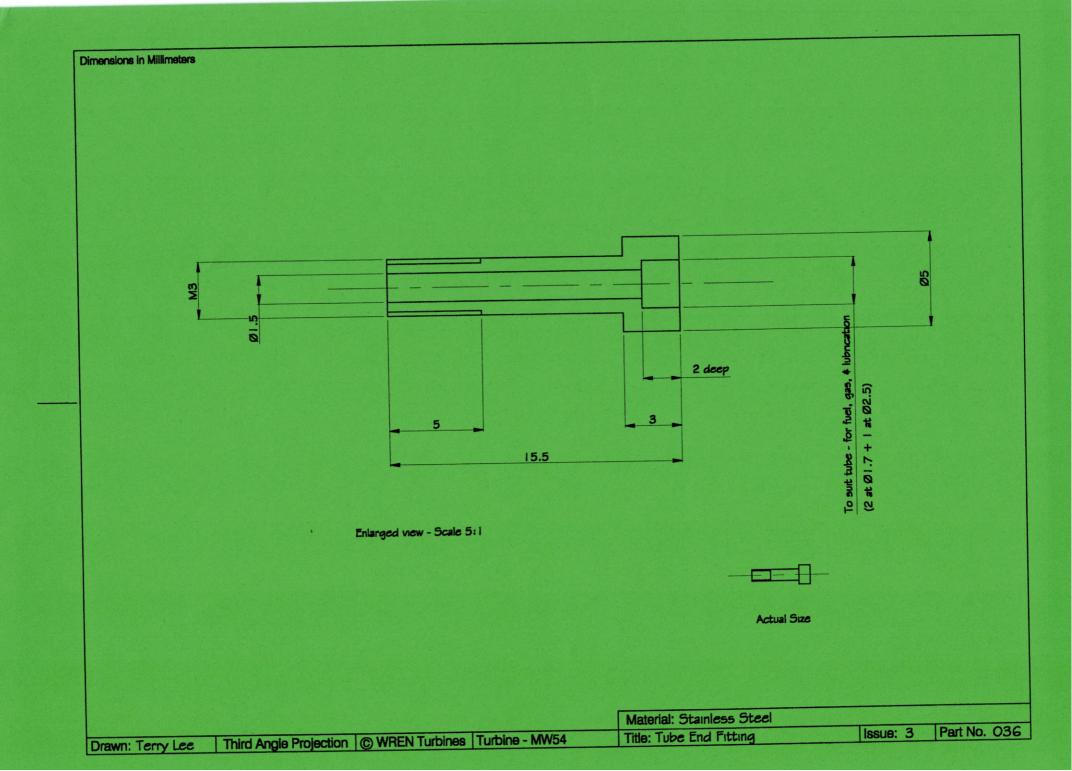






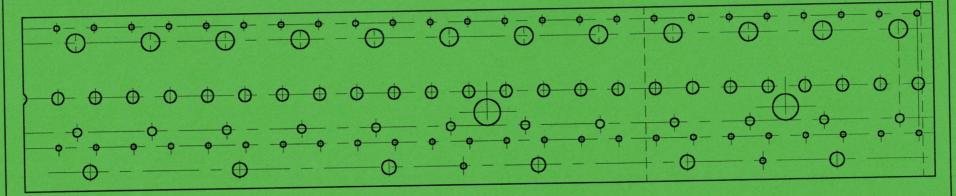


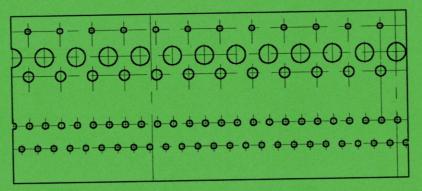




Dimensions in Millimeters

Drawn: Terry Lee





| Third Angle Projection | © Mike Murphy | Turbine - MW54 | Title: Templates | Issue: | Part No. O37

