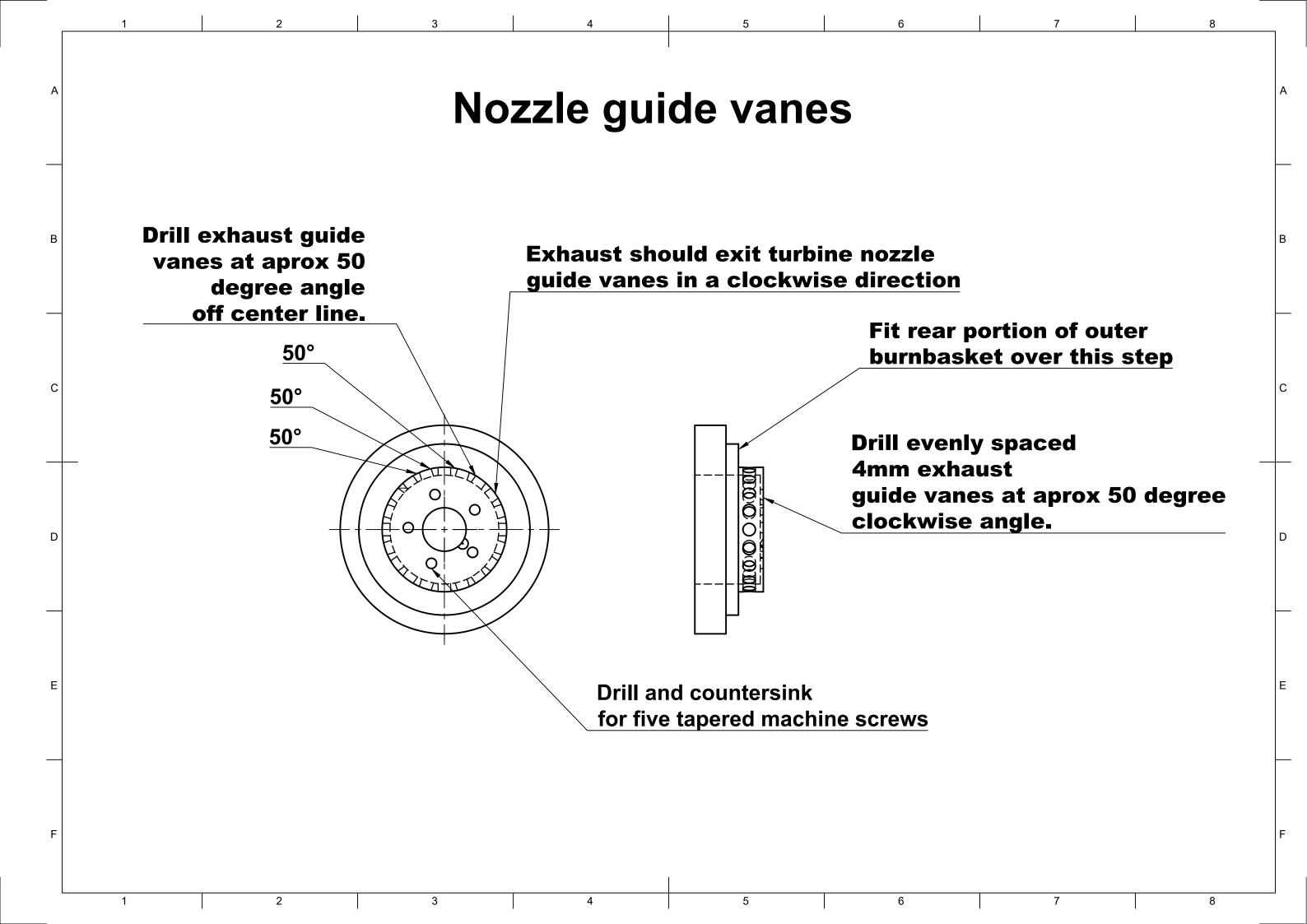
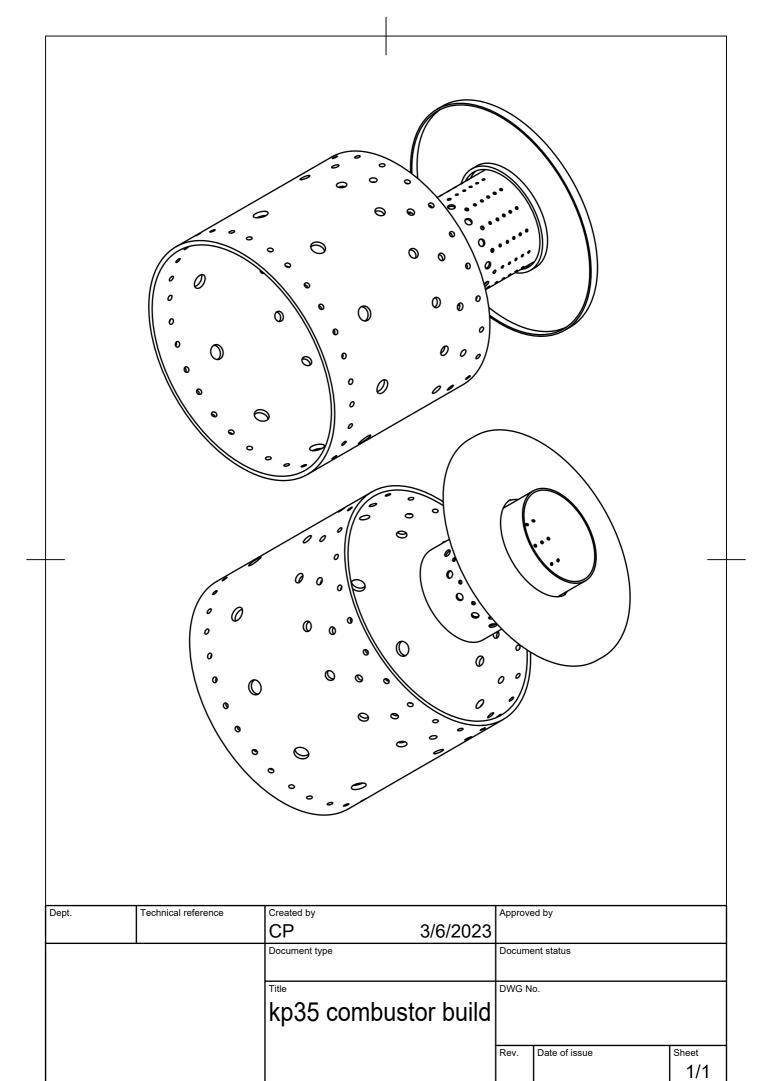
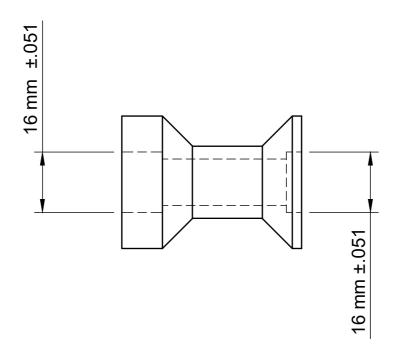


Create outer combustion basket front wall with tabs. Spot weld wall to inner **Combustion** and outer basket. **Basket** Drill 4 (four) holes for vapor tubes Create inner combustion basket rear wall with tabs, fold tabs and Spot weld to rear side of inner burn basket Insert 1.5mm fuel lines into vapor tubes combustion basket length should not exceed the the axle hub. Air should be allowed to pass between the face of the axle hub and into the lower inner burn basket area. Inserted part of vapor tube facing forward **Fuel Delivery System.** Weld tapered end Brass included in the kit. of vapor tube to basket Vapor tubes are to be inserted Leave @10mm without holes Between the inner and outer baskets with inserted end facing for fuel delivery system. forward and tacked/welded at insertion point to basket. Insert 1.5mm fuel line (small tubing) into vapor tubes half the length of the vapor tube.



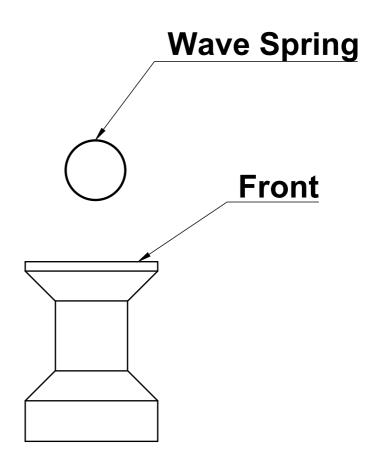


Axle Hub



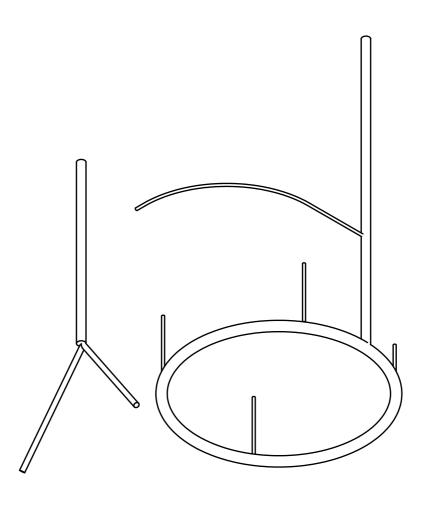
Dept.	Technical reference	Created by		Approv	ed by	
		CP	1/7/2023			
		Document type		Docum	ent status	
		774		DIA/O A		
		Title		DWG N	10.	
		Axle hub16r	mm Bearing			
				Rev.	Date of issue	Sheet
						1/1

Wave spring goes between bearing and front of axle hub.

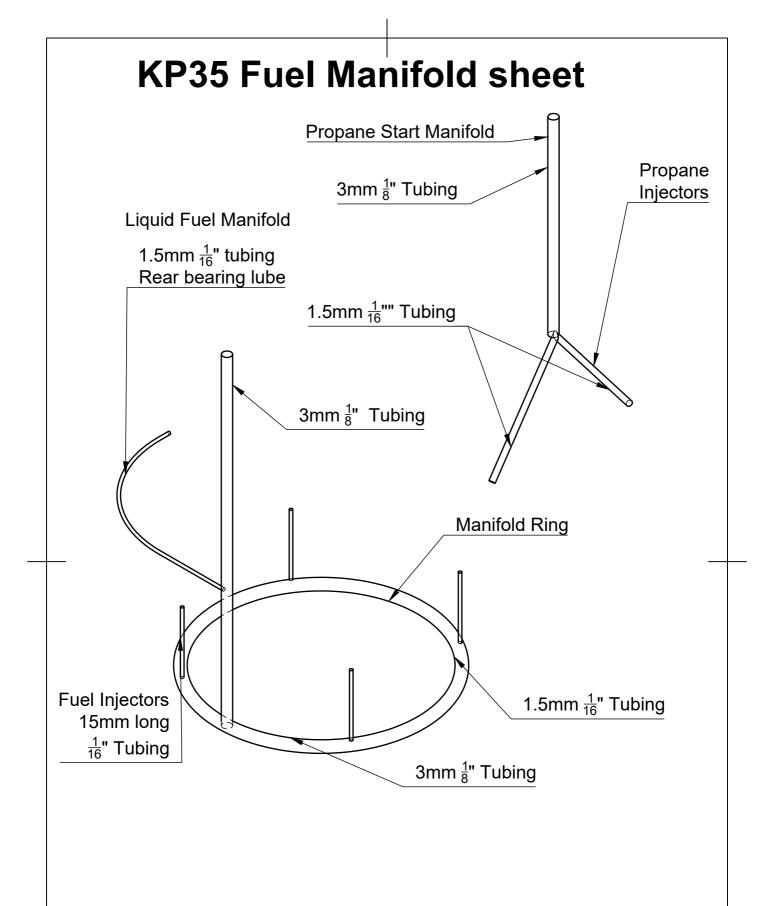


Dept.	Technical reference	Created by		Approv	ed by	
		CP	3/1/2023			
	•	Document type		Docum	ent status	
		700		DIVIO A		
		Title		DWG N	NO.	
		Axle hub16r	nm Bearing			
					į	
				Rev.	Date of issue	Sheet
						1/1

KP35 Fuel Manifold

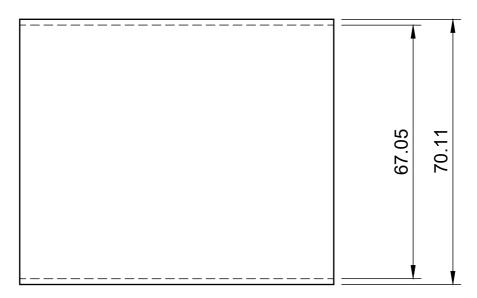


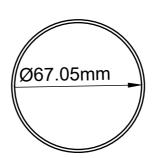
	d by	ved	Approv		Created by	Technical reference	Dept.
				3/3/2023	Carlos Perez		
	nt status	nen	Docum		Document type	•	
	D.	No.	DWG N		Title		
				d revised	Fuel Manifol		
Sheet	Date of issue	Tr	Rev	,			
	Date of issue		Rev.				



Dept.	Technical reference	Created by		Approve	ed by	
Design	Jm50Combustor	Minijets	2021	CP		03/21
		Document type		Docume	ent status	
		Public		Acti	ve	
		Title		DWG N	0.	
		Fuel Manifold Specsheet			21010	
		Opcosilect		Rev.	Date of issue	Sheet
						1/1

Outer Shell





Dept.	Technical reference	Created by		Approv	red by		
		CP	1/8/2023				
	•	Document type		Document status			
		Title		DWG No.			
		casing		BWG1	v o.		
				Dov	Data of issue	Chast	
				Rev.	Date of issue	Sheet 1/1	

Inner Liner

Front/Intake

Holes front to rear 1.5mm 2.75mm 4mm

Make sure to leave sheet metal overlap for tacking liner end to end.

REAR/Exhaust

Dept.	Technical reference	Created by		Approv	ed by	
		CP	3/6/2023			
	·	Document type		Docum	ent status	
		Title		DWG N	lo.	
		KP35 Inner co	ombustor liner			
				Rev	Date of issue	Sheet
				Rev.	Date of issue	

Outer Liner Holes Front to rear 1.5mm 2mm 2.75mm 4mm Make sure to leave sheet metal overlap for tacking combustor together. Front/Intake Rear/Exhaust 52mm Dept. Technical reference Created by Approved by 3/3/2023 CP Document type Document status DWG No. KP35 outer combustion basket Rev. Date of issue Sheet 1/1

Thank you for purchasing the KP35 Mini jet engine kit.

Combustor Assembly:

Using the templates provided cut inner liner and outer liners to specefied width and length leaving approximately 10-12mm or around 3/8" of extra length to allow for tacking combustor liners in a circular diameter.

It is recommended that you use hose clamps to get each piece to the appropriate diameter. This will hold the circumference while you work with them.

Be sure to create a snug fit on outer liner and rear 58mm NGV step.

When cutting inner liner it is recommended that you leave excess length on the forward portion of liner for easier tacking. Remove excess material when completed.

This will help prevent the possibility of cutting the inner liner too short and making it difficult to tack to the front end cap. Make sure to mock up the liners together while utilizing the NGV, to help set appropriate lengths.

Although you can use an electric spot welder on the forward portion of the combustor to tack together, another easier method would be to use high temp (1200F) silver solder.

An electric spot welder is ideal on the erear end cap and inner liner, although if the cap fits well around rear of inner liner no tacking is necessary and it would be held in place by the rear NGV and axle hub using screw that hold the NGV in place. Just insert inner liner into cap when assembling.

Assembling outer liner to size and drilling is best done by utilizing

NGV to help prevent distorting liner with the pressure from drilling. Make sure to drill both inner and outer liner hole prior to assembling together,

Remove any chads or sharp edges using a dremel.

Fuel Manifold:

When assembling fuel manifold ring, make sure to create a diameter that fits snug over the outer rear of the outer liner while attached to the NGV. This assures fitment of outer shell over the entire assembly.

Any bulges of high spots can be tapped down making sure not over flatten the fuel manifold ring if you do this.

The 6" 1/16" line coming from the fuel feed line is for rear bearing lubrication. Drill a 1/16" hole near the rear bearing in the axle hub to allow insertion of oil lube line.

Use the supplied brass fittings for coupling both the fuel manifold ring and also for coupling 2 1/16" lines into the 1/8" brass tubing as shown in the print. This is your propane start fuel line, and is used to transfer the flame to the liquid fuel for starting the ignition process

End Caps:

When cutting end caps it is best to drill 16mm center hole in rear cap prior to cutting out of form.

This will help prevent distortion.

Use a dremel with a flat blade to remove inner hole in front end cap where the inner liner will set.

Make sure to leave the flange on inner end cap hole rto help with tacking together. This will give you material to tack to.

Mounting outer shell:

You can drill and tap 8 holes equally placed on the circumference of bothe fron and rea sections to hold to shell in place and to creat a tight seal. Another way is to usee 3" hose clamps to hold the shell in place. This is a simple but effective method and gives you something to hold onto if you are using a vice for example.