

SOLIDWORKS Educational Product. For instructional Use Only.

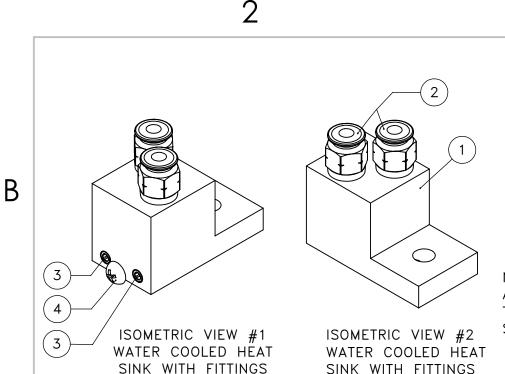
2					1		
Tools Required: (Cutting tools)         a) Table Saw (We use a Dewalt tab arbor)with         b) )non-ferrous metal cutting blade         SBNF-100100 10-Inch 100 Tooth To 5/8-Inch Arbor for Aluminum and         c) A 1/2 saw sled (custom built)         (Measuring tools)         d) Measuring tape         e) Vernier calipers         f) Scribe         g) Hammer         h) Hand punch         i) Ruler         (Drilling tools)         j) Drill press         k) #3 starter drill         l) #29 drill bit	(we used an Oshlun CG Saw Blade with	2) (QT screw 3) (QT 4) (QT 5) (QT connecto Push-to OD tube 6) Loc thread 1	Y 1) 22 Y 1) 6- Y 1) 8- Y 2) 10 Y 2) 17 or (McM -Conne ) tite 246 ocker ( 6" thic	2mm x2 -32 x )-24 x /8 MNP aster c ct Tube o mediu applied k alum	25mm × I–1/4"  I/8" se 1/4 se T to 4n arr 761 Fitting m strer to all	42mm aluminum block lg pan-head Philips et screw 18-8SS of screw 18-8SS of press fit tube ON112_Universal-Thread 1/8-27 mnpt to 4mm of high temperature screws) de tape (see McMaster	В
I) #29 drill bit m)#8-32 tap n) #25 drill bit or 5/32 drill bit o) 10-24 tap p) #36 drill bit q) 6-32 tap r) Size Q drill bit s) 1/8-27 tap t) Vise to hold part while drilling u) #2 Philips screw v) Allan keys           CREATIVE COMMONS DRAWING HIS DRAWING IS RELEASED AS AN OPEN SOURCE DRAWING UNDER CREATIVE COMMONS LICENSE AND CAN BE FREELY REPRODUCED OR MODIFIED           DISCLAIMER HIS DESIGN IS NOT OFFICIALLY	UNLESS OTHERWISE SF DIMENSIONS ARE IN mr TOLERANCES: 0.3mm FRACTIONAL± ANGULAR: MACH± TWO PLACE DECIMAL THREE PLACE DECIMAL INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL: Aluminium or 0 FINISH	M DRAWN CHECKED ±0.3 MFG APPR Q.A. COMMENT	•	DATE 2022/04/01	Raise3D TITLE: SIZE DV A KF	T: KPUPROJ0205 Water cooling for PRo2 printer PARTS LIST PUPROJ0205_01_A	A
ENDORSED BY RAISE3D. USE AT YOUR OWN RISK. WE ACCEPT NO LIABILITY APPLI	CATION DO NOT SCALE DRA	WING			SCALE:	1:1 WEIGHT: SHEET 2 OF 3	

1

SOLIDWORKS Educational Product. For Instructional Use Only.

В

A



	-			
ITE <i>N</i> NO.	DESCRIPTION			
1	HEATSINK MAIN BODY (COPPER OR ALUMINUM)	1		
2	1/8-27 MNPT TO 4mm OD Universal-Thread Push-to- Connect Tube Fitting			
3	10-24 x 1/8" LG 18-8 Stainless Steel Cup-Point Set Screw	3		
4	6-32 x 1-1/4" PAN HEAD PHILLIPS SCREW HEAD	1		
4	6-32 x 1-1/4" PAN HEAD PHILLIPS SCREW HEAD			

B

## NOTES:

 A) APPLY LOCTITE 246 (HIGH TEMPERATURE MEDIUM STRENGTH THREADLOCKER) TO ALL THREADED FITTINGS, SCREWS, AND SETSCREWS PRIOR TO INSERTION. LET STAND 24HOURS PRIOR TO LEAK TESTING.

B)IF LEAK TEST FAILS ONLY AT THREADS, RETRY AGAIN WITH LOCTITE 246.

C) IF LEAK TEST FAILS A 2ND TIME AT THREADS, THEN TRY APPLYING HIGH TEMPERATURE RTV SILICONE AROUND THREADS OF FAILED FITTING AND RETRY

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	<b>PROJECT:</b> KPUPROJ0205 Water cooling for	
		DIMENSIONS ARE IN mm TOLERANCES: 0.3mm FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ±0.3 THREE PLACE DECIMAL ±	DRAWN	МС	2022/04/01	Raise3D PRo2 printer	
			CHECKED			TITLE:	
			ENG APPR.			ASSEMBLY DRAWING OF	
			MFG APPR.			HEAT-SINK AND THREADED	
		INTERPRET GEOMETRIC	Q.A.			FITTINGS	
CREATIVE COMMONS DRAWING THIS DRAWING IS RELEASED AS AN OPEN SOURCE DRAWING UNDER CREATIVE COMMONS LICENSE AND CAN BE FREELY PERPENJECT. OR MODIFIED		TOLERANCING PER: MATERIAL: Aluminium or Copper	COMMENTS:	OMMENTS:		SIZE DWG. NO. KPUPROJ0205_01_A	
REPRODUCED OR MODIFIED DISCLAIMER THIS DESIGN IS NOT OFFICIALLY		FINISH					
ENDORSED BY RAISE3D. USE AT YOUR OWN RISK. WE ACCEPT NO LIABILITY	APPLICATION	DO NOT SCALE DRAWING				SCALE: 1:1 WEIGHT: SHEET 3 OF 3	

Α