

J21

1U Active Air Cooler

PRODUCT SPECIFICATIONS

Specification Version: 08/21/2025

(Specifications are subject to change without notice)

Model Number: J21

- Recommend for AMD® CPU as following
 - AMD® Processor Family, Socket SP7
- Active Air Cooler for 1U Server and Up

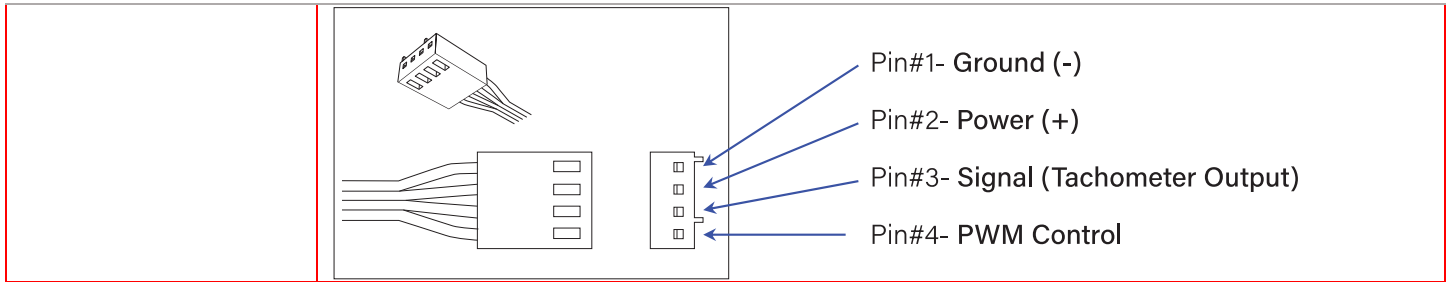
Overall Specification

Dimension	120.0 x 103.6 x 27.2 mm
Weight	605g
Material	Copper Fin + Vapor Chamber
Thermal Grease	Shin-Etsu 8195-4 or Equivalent Pre-Printed
TDP	Up to 300W at 30°C Ambient Temperature

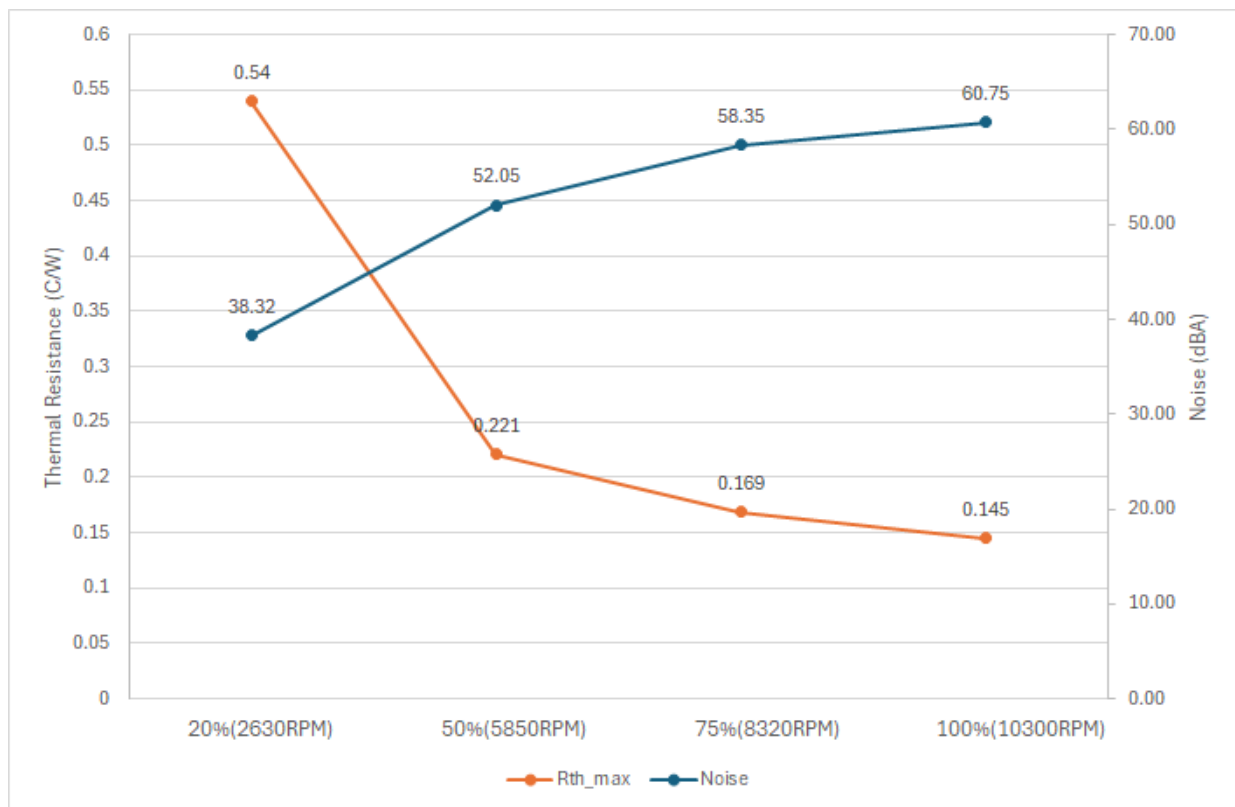
Cooling Fan Specification

Model Number	DB128013BU-PWM(Dual-Outlet)
Dimension	φ80 x 13 mm
Bearing	Double Ball
Rated Voltage	12V
Rated Speed	At Duty Cycle 0~20%: 2000± 200 RPM At Duty Cycle 50%: 5900± 10% RPM At Duty Cycle 100%: 10000±10% RPM
Input Power	At Duty Cycle 0~20%: 1.44 W At Duty Cycle 50%: 10.8W At Duty Cycle 100%: 42.0 W
Maximum Airflow	At Duty Cycle 0~20%: 7.54 CFM At Duty Cycle 50%: 17.8 CFM At Duty Cycle 100%: 26.25 CFM
Rated Static Pressure	At Duty Cycle 0~20%: 7.54 mm-H2O At Duty Cycle 50%: 41.3 mm-H2O At Duty Cycle 100%: 118.64 mm-H2O
Acoustical Noise	At Duty Cycle 0~20%: 35.1 dBA At Duty Cycle 50%: 53.8 dBA At Duty Cycle 100%: 65.2 dBA
Lead Wire Pin Out	Pin#1- Black(-) Pin#2- Yellow(+) Pin#3- Green(Tachometer/ Signal Output) Pin#4- Blue (PWM)

J21 | Socket SP7



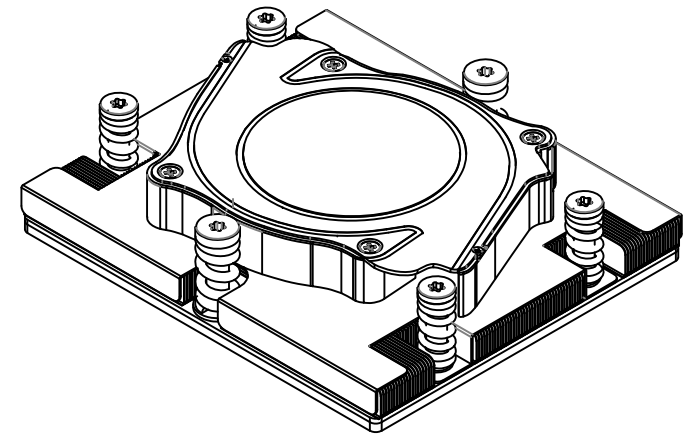
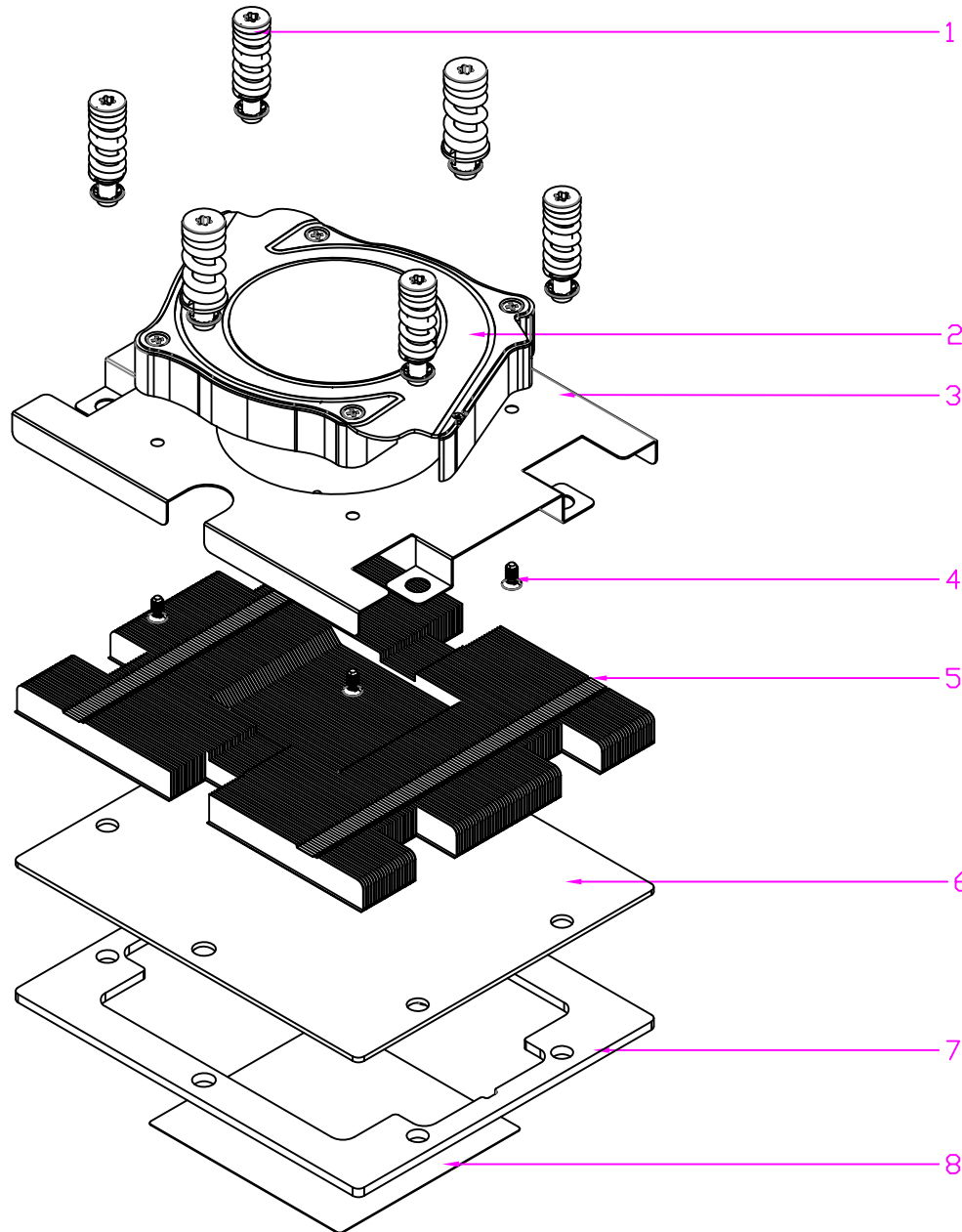
Performance Chart: J21 Thermal Resistance Thermal Resistance vs. Blower Speed



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REV#	DESCRIPTION	CHECKER	DATE
0.0	INITIAL RELEASE	Michael.F	09/12/24

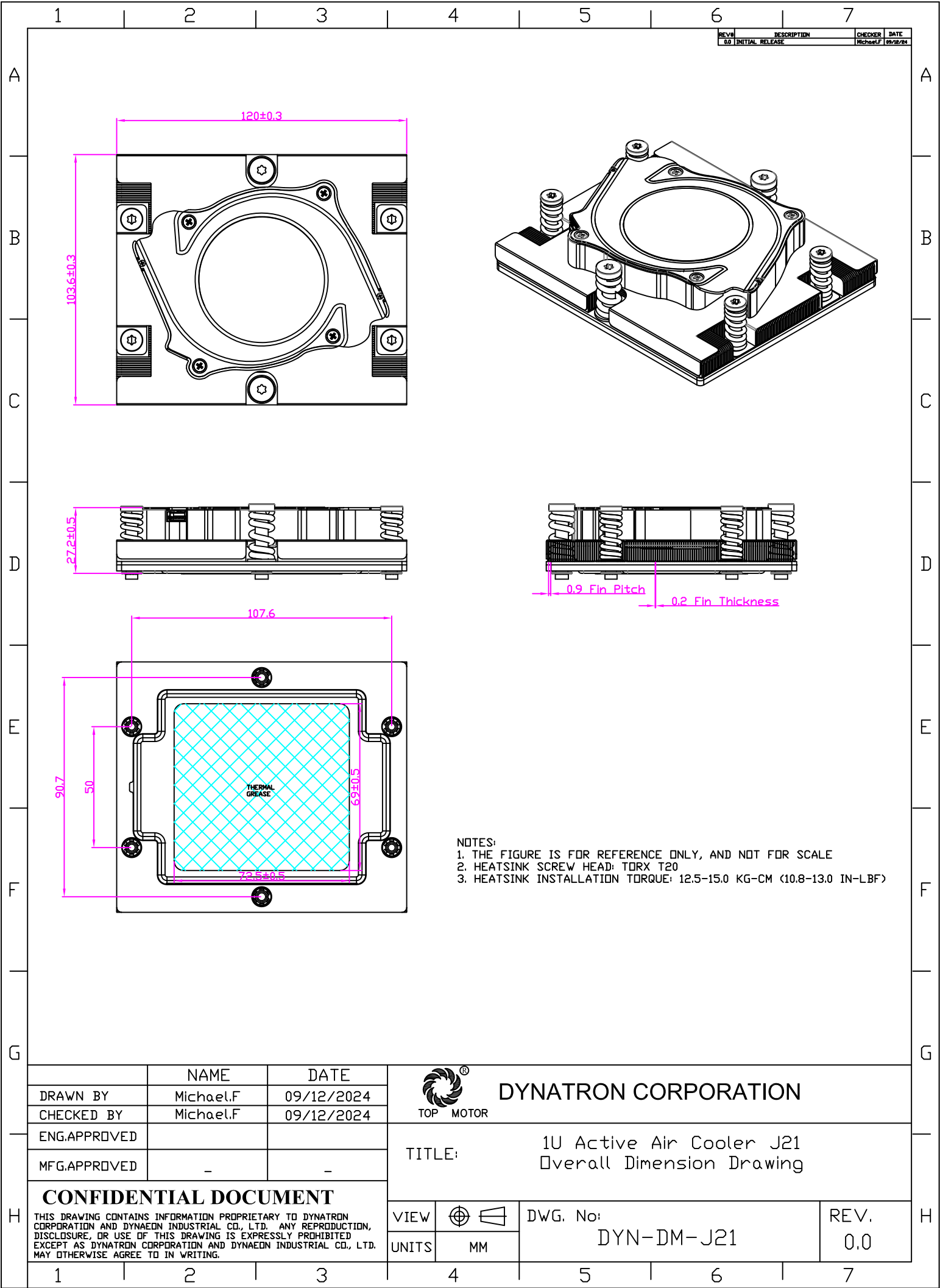


8	THERMAL GREASE	SHIN-ETSU 8195-4 or EQUIVALENT	N/A
7	VC REINFORCEMENT BRACKET	SK7	1
6	HEATSINK VC (VAPOR CHAMBER)	COPPER	1
5	HEATSINK FIN STACK	COPPER	1
4	FAN RETENTION BRACKET SCREW	STEEL	4
3	FAN RETENTION BRACKET	SPCC	1
2	BLOWER, 8013, 10000RPM	PLASTIC	1
1	HEATSINK MOUNTING KIT (SET OF 6)	STEEL	1
ITEM #	DESCRIPTION	MATERIAL	QTY.

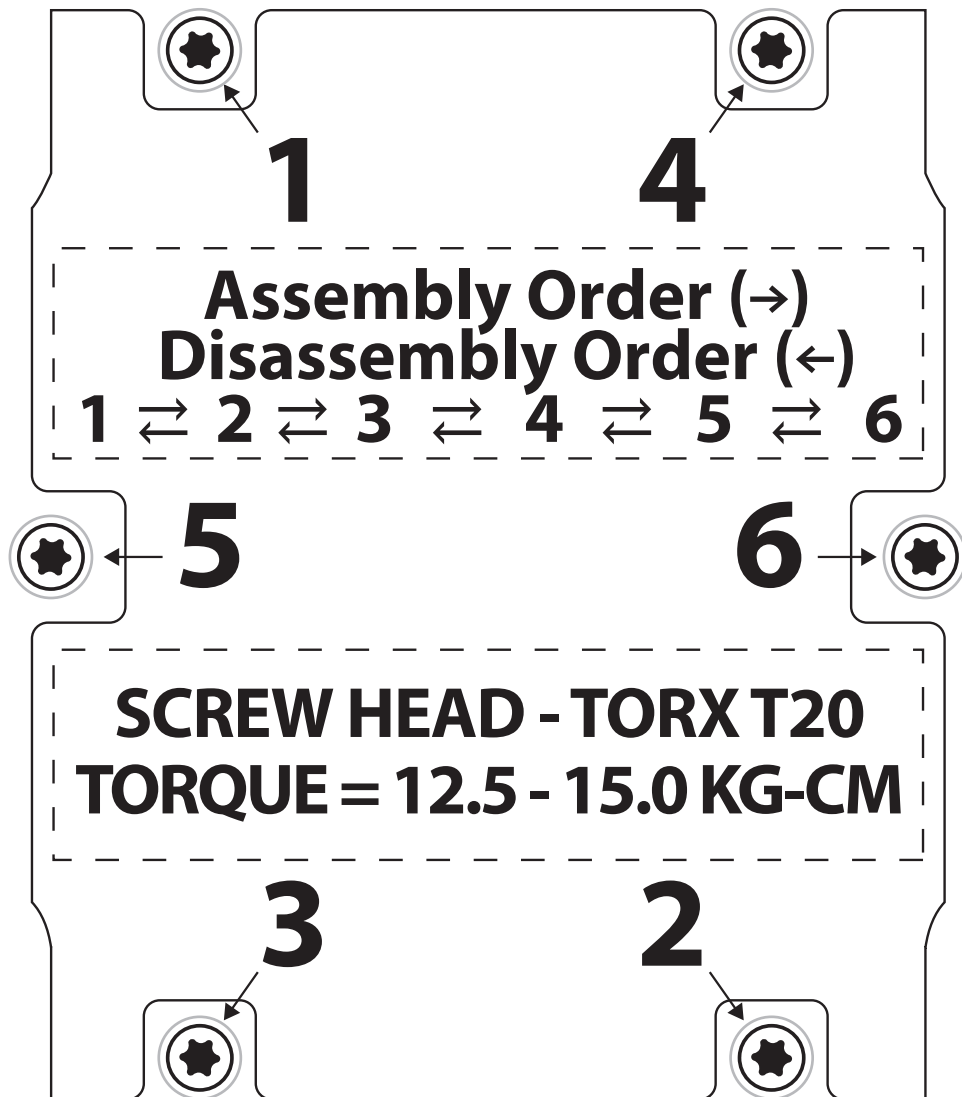
	DATE	NAME	 DYNATRON CORPORATION
DRAWN	09/12/24	Michael.F	TITLE:
CHECKED	09/12/24	Michael.F	1U Active Air Cooler J21
ENG. APPR.			BDM & Exploded Assembly Drawing
MFG. APPR.			
QA			
COMMENTS			
		DWG. No:	REV
		DYN-EP-J21	0.0

NOTES:

1. THE FIGURE IS FOR REFERENCE ONLY, AND NOT FOR SCALE



Recommended Torque Application Pattern for Socket SP7 Coolers



WARNING: Failure to attach thermal solutions one-at-a-time in the sequence 1-2-3-4-5-6 and failure to remove thermal solutions one at a time in the sequence 6-5-4-3-2-1 can lead to permanent socket damage.

Publication History:

08/21/2025: Thermal Resistance vs. Fan Speed

09/12/2024: Initial Release

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