

# Standard Transformer Torque Specs



**Transformers are critical for keeping our nation running:** without transformers, we wouldn't have the electricity we need.

Consequently, it is crucial that **transformers are properly assembled, tested and maintained** in order to extend their lifespan. One significant part of transformer assembly and maintenance is ensuring that the lugs are torqued to the appropriate tension.

Below are the standard torque specs for Maddox transformers (all values in ft-lbs):

## Table of standard torque specs for Maddox transformers

Reference Level III	Wrench	Tolerance	Minimum Tolerance	Torque Value	Maximum Tolerance	Pad	Pole
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71.2.8	Arrester Disconnect SW	± 1.00	9.00	10.00	11.00	x	x
71.2.4	DV Switch	± 1.00	9.00	10.00	11.00	x	x
71.2.9	Internal Fault Detector	± 1.00	9.00	10.00	11.00	x	x
71.2.5	Tap Changer	± 1.00	9.00	10.00	11.00	x	x
71.2.4.1	Neutral Disconnect	± 1.00	9.00	10.00	11.00	x	x
71.4	HV Bushing Insert	± 1.50	13.50	15.00	16.50	x	-
71.2.3	Bayonet	± 1.67	14.99	16.66	18.33	x	-
71.2.8	Under Oil Arrestor Disconnects	± 1.67	14.99	16.66	18.33	x	-
71.2.7	Breaker Handle	± 2.50	22.50	25.00	27.50	x	x
71.2.9	Ground Bar	± 2.50	22.50	25.00	27.50	x	-
71.2.9	Oil Level Gauge	± 3.00	27.00	30.00	33.00	x	-
71.2.3	EL Bayonet	± 6.00	54.00	60.00	66.00	x	-
71.2.6	Load Break Switch	± 6.00	54.00	60.00	66.00	x	-
8.8	Indicator Light (Signal)	± 0.50	4.50	5.00	5.50	-	x
8.7	Stud .375" (3/8")	± 1.50	13.50	15.00	16.50	-	x
8.6	LV Bushing Polymer 1.375"	± 1.65	14.85	16.50	18.15	-	x
8.6	LV Bushing Porcelain 1.375"	± 2.29	20.61	22.90	25.19	-	x
8.7	Stud .500" (1/2")	± 2.50	22.50	25.00	27.50	-	x
8.7	Stud .675" (5/8")	± 2.50	22.50	25.00	27.50	-	x
8.6	LV Bushing Polymer 1.83"	± 3.00	27.00	30.00	33.00	-	x

8.7	Stud .750" (3/4")	± 6.00	54.00	60.00	66.00	-	x
8.7	Stud 1.00" (1")	± 6.00	54.00	60.00	66.00	-	x
8.7	Stud 1.25" (1 1/4")	± 6.00	54.00	60.00	66.00	-	x
8.6	LV Bushing Polymer 2.75"	± 6.25	56.25	62.50	68.75	-	x
8.6	LV Bushing Porcelain 2.75"	± 6.67	60.03	66.70	73.37	-	x
8.12	Side Mount HV Bushings	± 6.67	60.03	66.70	73.37	-	x
8.12	HV Porcelain Bushings	± 8.00	72.00	80.00	88.00	-	x

## Conclusion

Maddox transformers are assembled and tested in accordance with the highest standards of quality. Call us today to receive a custom quote on a new or reconditioned transformer, or to **request repair or field service on your current transformer!**

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