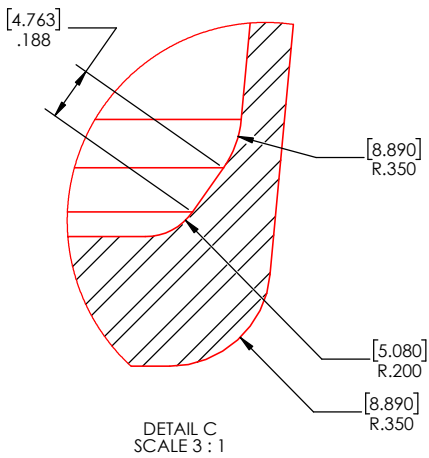
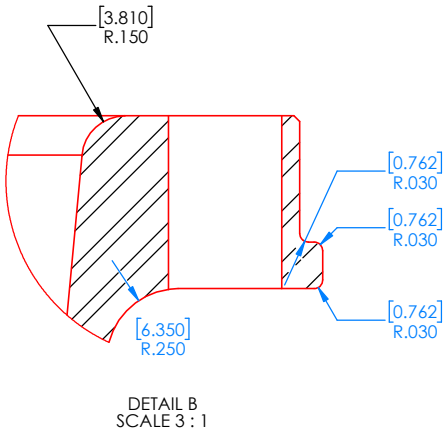
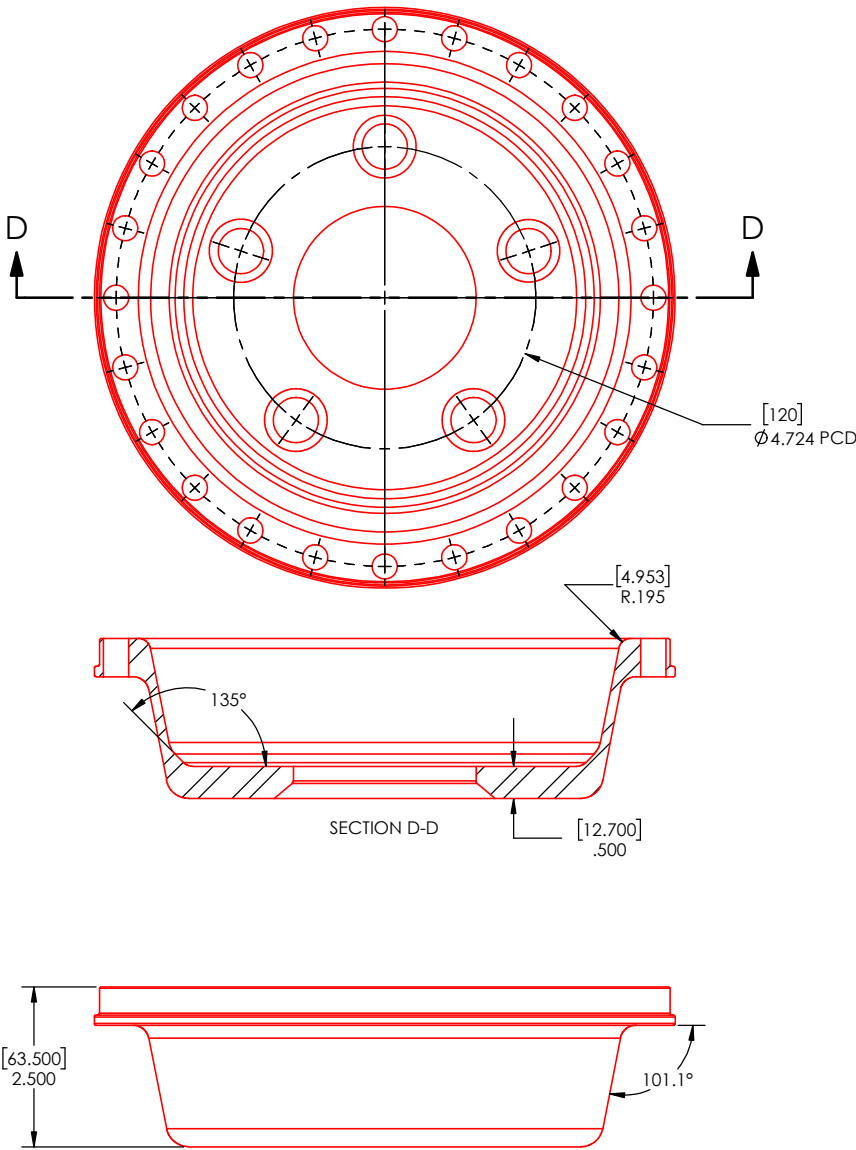
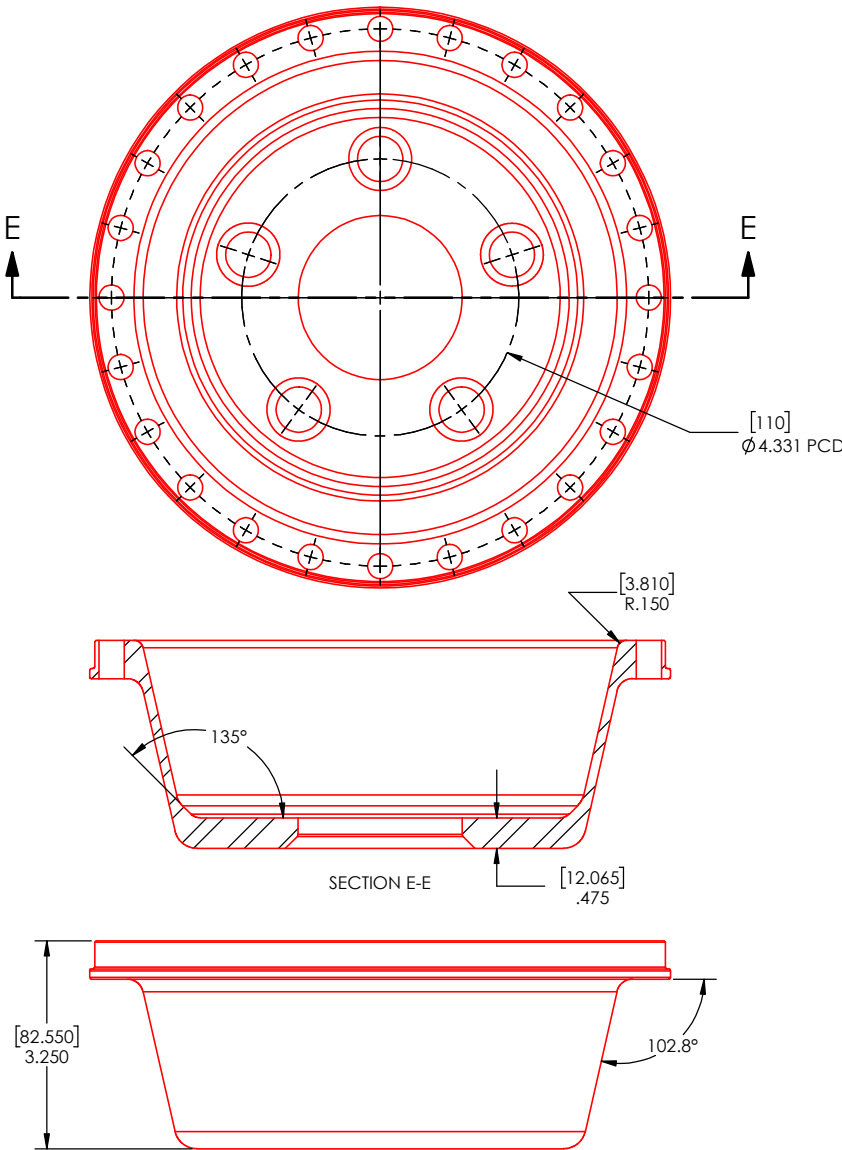
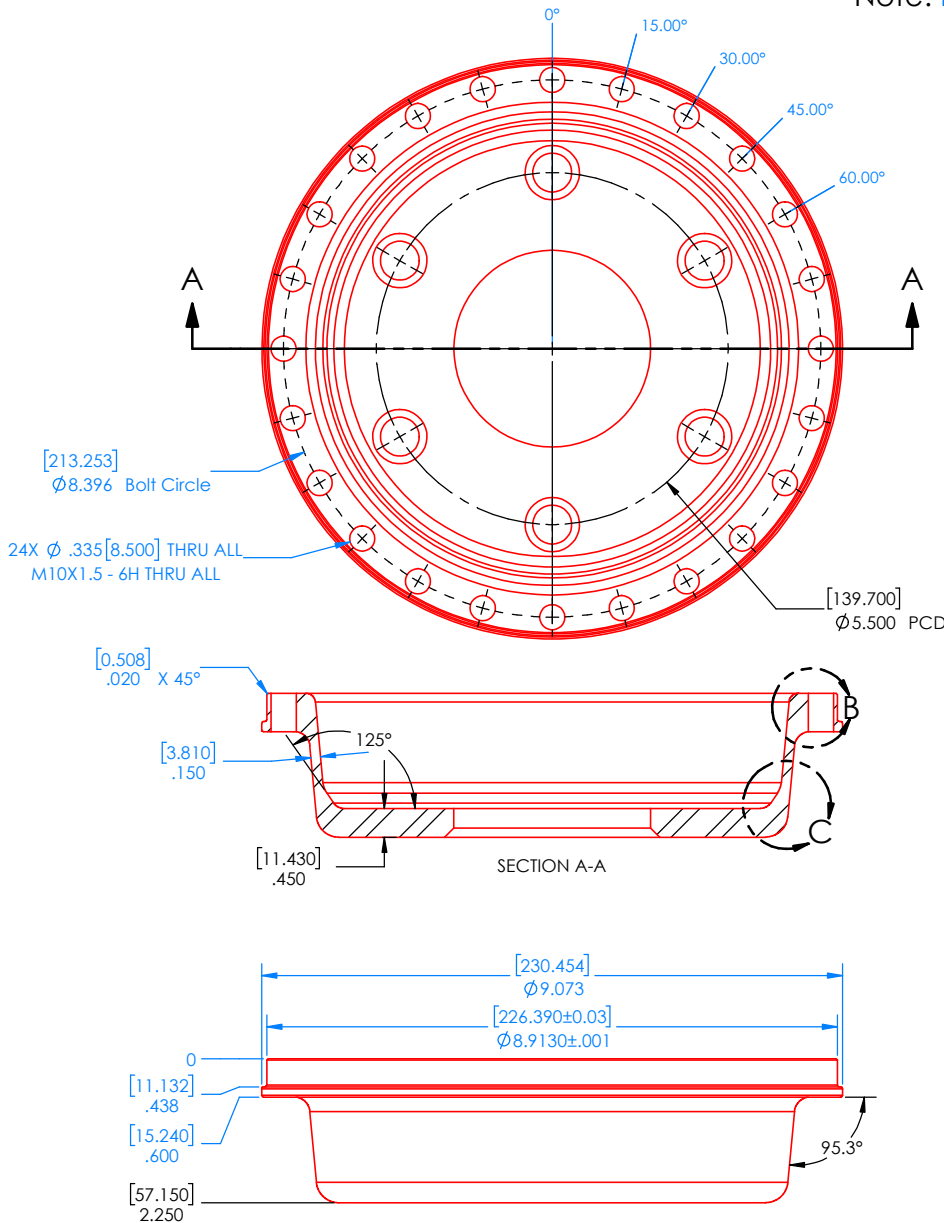


LW12.8-60 Hub Adapter Design Guide

Note: Blue dimensions are CRITICAL and CANNOT change.

Black dimensions can be changed.



To ensure measurement accuracy, customers must use hub adapters with the same transducer mounting geometry as the adapter Michigan Scientific Corporation (MSC) used when calibrating the transducer system. These features are shown in blue. Customers may change all other geometry. Examples of permitted changes are shown above.

The thickness of the hub mounting face can vary but should not be less than 0.450 in (11.430 mm).

Detail C shows geometry that reduces the material stresses to increase the adapter fatigue life. The angle should be between 125-145 degrees.

MSC machines hub adapters from 17-4 H1100 stainless steel. This material provides good insulation from brake heat. Alloy steels can be used but they will conduct brake heat more than the stainless steel. The material should have a yield strength of at least 890 MPa (130 ksi) and a hardness between 32 and 45 HRC.

MSC verifies all rim and hub adapter assemblies using FEA to simulate the SAE J328 wheel durability standard. This should be done with all adapter systems to verify the load ratings and fatigue life of the adapters. A LW12.8-60 transducer has a SAE J328 static load rating of 1225 kg. This should never be exceeded.

MSC can check your adapter designs at no cost. Contact MSC online at michsci.com/contact-us or via phone at 1-231-547-5511.

Details and specifications provided in this document are purely for informational purposes and are subject to alterations. No liability is accepted for errors or omissions. ©2020 Michigan Scientific Corporation

UNLESS OTHERWISE SPECIFIED:		DATE	NAME	MICHIGAN SCIENTIFIC CORPORATION	
DIMENSIONS ARE IN INCHES		3/20/2020	JF/Saley	8500 ANCE ROAD	
TOLERANCES:		CHECKED	3/20/2020	CHARLEVOIX, MICHIGAN 49720	
XXXX ±.0010		ENG APPR	-	www.michsci.com	
XXX ±.005		MFG APPR	-	PRODUCT LINE: LW12.8-60	
XX ±.01				CUSTOMER CODE: PROJECT CODE:	
XX FRACTIONAL ±				DESCRIPTION: LW12.8-60 Hub Adapter Design Guide	
ANGULAR: MACH ±				SIZE: DWG. NO. D LW12.8-60 Hub Adapter Design Guide	
REWORK				SCALE: 2:3	
WEIGHT				SHEET 1 OF 1	
MATERIAL: 17-4 H1100				REV A	
FINISH					