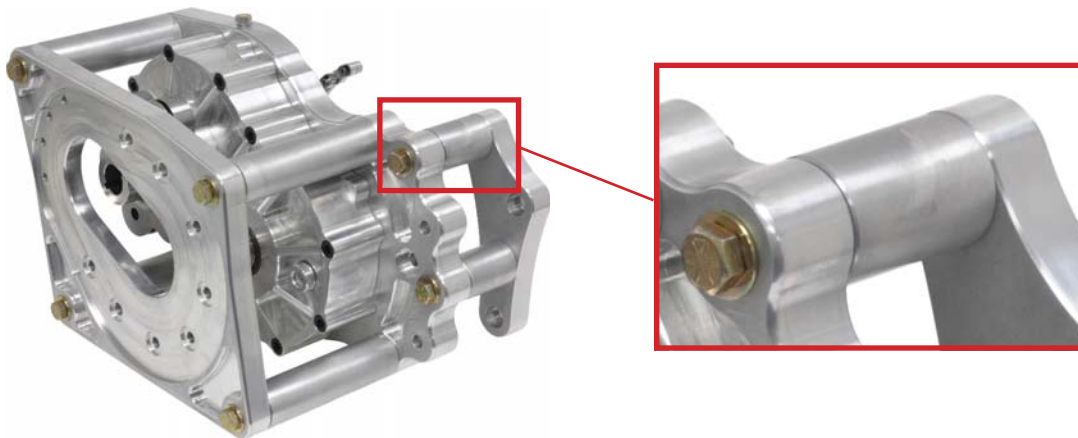


READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY UNDERSTAND THEM BEFORE DOING ANYTHING.  
CALL CHASSISWORKS TECH SUPPORT (916) 388-0288 IF YOU NEED ASSISTANCE.

# TECHNICAL GUIDE



## Standoff Measurement



### WARRANTY NOTICE:

There are NO WARRANTIES, either expressed or implied. Neither the seller nor manufacturer will be liable for any loss, damage or injury, direct or indirect, arising from the use or inability to determine the appropriate use of any products. Before any attempt at installation, all drawings and/or instruction sheets should be completely reviewed to determine the suitability of the product for its intended use. In this connection, the user assumes all responsibility and risk. We reserve the right to change specification without notice. Further, Chris Alston's Chassisworks, Inc., makes **NO GUARANTEE** in reference to any specific class legality of any component. **ALL PRODUCTS ARE INTENDED FOR RACING AND OFF-ROAD USE AND MAY NOT BE LEGALLY USED ON THE HIGHWAY.** The products offered for sale are true race-car components and, in all cases, require some fabrication skill. **NO PRODUCT OR SERVICE IS DESIGNED OR INTENDED TO PREVENT INJURY OR DEATH.**

Chris Alston's Chassisworks  
8661 Younger Creek Drive  
Sacramento, CA 95828  
Phone: 916-388-0288  
Technical Support: sales@cachassisworks.com



# INSTRUCTIONS

## Factory-Machined Standoff Spacers

As an optional paid service Chassisworks can machine finished standoff spacers based off your measurements. Inquire with our sales techs for additional information.

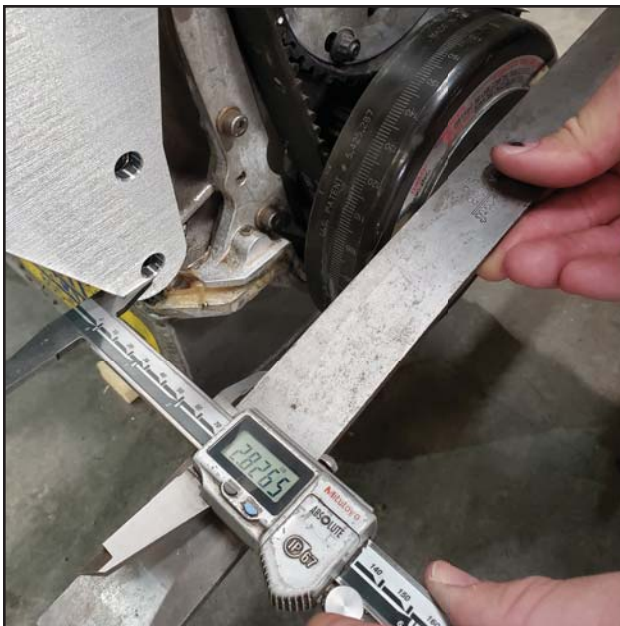
## Measuring for Standoff Spacer Length

You will have received four partially finished spacers with your new CDS supercharger gear drive. Each spacer will come with only one end machined. The following steps will determine the proper cut length for the spacer. You must machine the unfinished end to match. Dimensions are provided below.

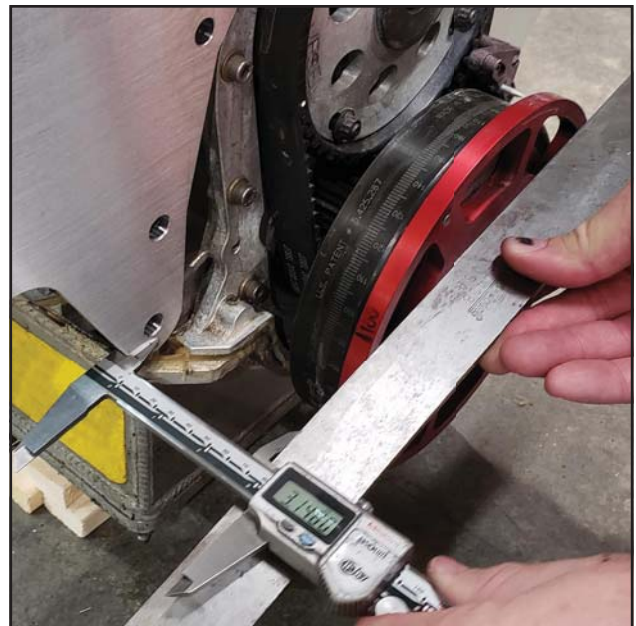
## Measurement

*Motor-plate, balancer and crank-trigger wheel (if used) must be installed prior to measurement.*

*EXCEPTION: The CDS crank-trigger wheel is integrated into the drive hub and must not be installed for measurement. Measure from the balancer face.*



*Harmonic balancer measurement*



*Non-CDS crank-trigger wheel measurement*

- Using calipers and a straight-edge, measure the distance between the front face of the motor-plate and forwardmost face of the balancer or crank-trigger wheel.

Record this as **MEASURED LENGTH**.

**CN and Noonan Blocks** - See footnote in chart.

- Add **1.800** to the **MEASURED LENGTH**, then subtract the **ENGINE MOUNT THICKNESS** found in the table to the right.

This is the **STANDOFF SHOULDER LENGTH**.

- Add **0.500** to the **STANDOFF SHOULDER LENGTH**.

This is the **STANDOFF OVERALL LENGTH**.

*Formula is shown in box below.*

- Complete machining of Standoff Spacer using drawing on following page.

### Machining Notes

- STANDOFF SHOULDER LENGTH** must be within  $\pm 0.020$ " of calculated value.
- All four **STANDOFF SHOULDER LENGTHS** must be within **0.005"** of each other.

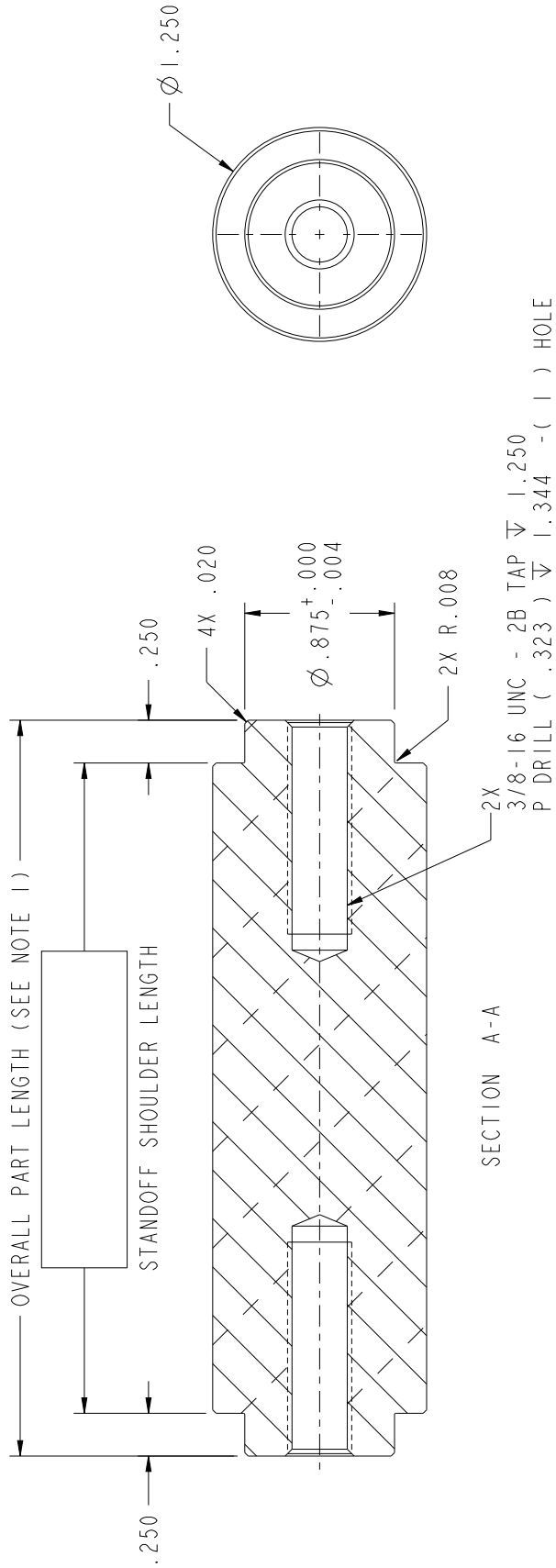
Make	Engine	Engine-Mount Thickness
Chevrolet	Big Block	1.500"
	Small Block	1.500"
	LSX	1.500"
Ford	Small Block 302-351	1.000"
	Big Block 429-460	1.000"
	Modular	0.750"
Mopar	Gen-2 426 Hemi	1.250"
	Gen-3 Hemi	1.000"
	B-Block 383-440	1.250"
Oldsmobile	Oldsmobile V8	1.000"
Aftermarket	Alan Johnson 481X	1.500"
	Alan Johnson TFX Hemi	1.250"
	Brad Anderson Hemi	1.250"
	All Pontiac V8	1.500"
	*CN Blocks Big Block Chevy	0.000"
	*Noonan Hemi	0.000"
<b>Notes</b>		
* - Block manufacturer integrates or provides mounting face for the CDS standoff. Measure from mounting face to balancer or crank-trigger wheel. No additional engine mount thickness used in calculation.		

## STANDOFF LENGTH CALCULATION

<b>MEASURED LENGTH</b>	<b>+</b>	<b>1.800 CONSTANT</b>	<b>-</b>	<b>ENGINE MOUNT THICKNESS FROM CHART</b>	<b>=</b>	<b>STANDOFF SHOULDER LENGTH</b>
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NOTES:

1. OVERALL PART LENGTH IS STANDOFF SHOULDER LENGTH PLUS .500
2. STANDOFF SHOULDER LENGTH MUST BE WITHIN  $\pm .020$  OF CALCULATED VALUE
3. ALL 4 STANDOFF SHOULDER LENGTHS MUST BE WITHIN .005 OF EACH OTHER



SECTION A-A

DESCRIPTION

**STANDOFF SHOULDER LENGTH**

*Chris Alston's* **CHASSISWORKS INC.**  
8661 YOUNGER CREEK DRIVE  
SACRAMENTO, CA 95828  
(916) 388-0288 FAX 388-0295

PART NO.

**7993-162-X**

MEASURED LENGTH + 1.800 CONSTANT - ENGINE MOUNT THICKNESS FROM CHART = STANDOFF SHOULDER LENGTH

7/15/19

DWG: 7993-162-X