

.99  
SPECIAL  
BACKSET

**(2) 3/8" SET SCREWS**  
**TORQUE BOTH TO 20 FT. LBS**  
**USING TORQUE WRENCH AT**  
**FINAL INSTALLATION** /

2.05

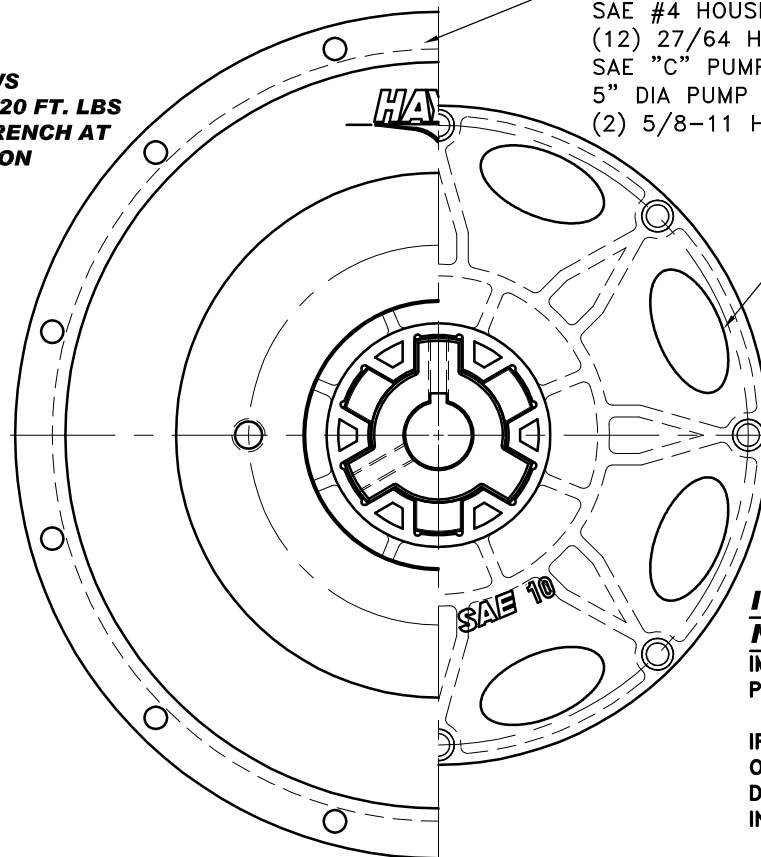
SEE BOX TO  
POSITION HUB  
NOT TO SCALE

CUMMINS -  
FW 30001  
SAE #10

HC1-43  
1-1/4" SHAFT  
5/16" KEY

1.12

**.99  
SPECIAL  
BACKSET**



978003-03  
SAE #4 HOUSING MOUNT  
(12) 27/64 HOLES ON A 15.00 B.C.  
SAE "C" PUMP MOUNT  
5" DIA PUMP PILOT  
(2) 5/8-11 HOLES ON 7.13 B.C.

- C-010  
S.A.E. 10 FIBERGLASS REINFORCED  
NYLON DRIVE PLATE  
(8) .416 HOLES EQ.  
SPACED ON A 11.625 B.C.  
"C" SERIES DRIVE

**IMPROPER INSTALLATION OF HUB COULD CAUSE  
PREMATURE WEAR AND OR FAILURE.**

IF YOU HAVE QUESTIONS CONCERNING LOCATION  
OF METAL HUB ON PUMP SHAFT PLEASE CONTACT  
DISTRIBUTOR OR FACTORY FOR FURTHER  
INFORMATION.

**BOTH HUB SET SCREWS MUST BE PROPERLY  
TORQUED TO 25 FT.LBS. USING TORQUE WRENCH .**  
**PLEASE CONTACT DISTRIBUTOR OR FACTORY FOR  
ANY FURTHER QUESTIONS.**

NOTE: REMOVE HUB FROM ASS'Y, PRESET HUB ON SHAFT AS SHOWN. TORQUE BOTH SET SCREWS TO 25 FT.LBS.  
USING TORQUE WRENCH. SHAFT SHOULD HAVE A MINIMUM OF  $3/4"$  OF ENGAGEMENT IF NOT CONTACT FACTORY FOR RECOMMENDATIONS (231) 879-3372 TO GET HUB PRESET USE THIS EQUATION:

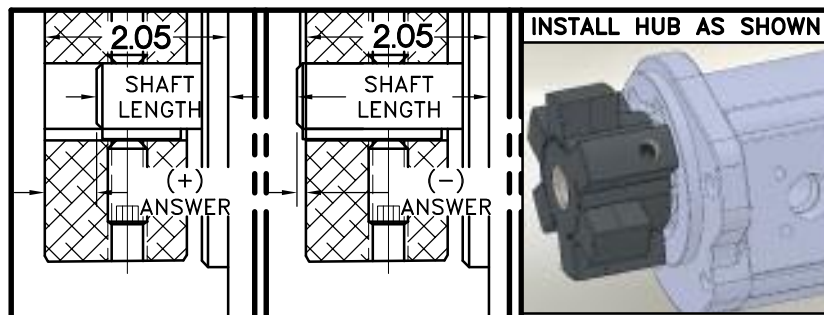
**PERFORM CALCULATION BELOW:**















## 2.05- SHAFT LENGTH - HUB PRESET

IF YOUR ANSWER IS (+) SHAFT IS INSIDE OF HUB, IF  
YOUR ANSWER IS (-) SHAFT STICKS OUT OF HUB.  
(SEE BOXES)

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FOR EXAMINATION WITHOUT OUR CONSENT.

**NOTE: THIS STEP IS IMPORTANT TO ENSURE FULL SHAFT ENGAGEMENT.**



SYMBOLS		DET.	PART NUMBER	DESCRIPTION	QTY.
	FLATNESS	DO NOT SCALE	 <b>HAYES</b> MANUFACTURING INC. ®	<b>CUMMINS 3.3L HEX-FLX ASSY</b>	
	STRAIGHTNESS	DRAWING			
	ANGULARITY	TOLERANCES UNLESS OTHERWISE SPECIFIED			
	PERPENDICULARITY	 MAXIMUM			
	PARALLELISM	ANGLE ±1/2°			
	CONCENTRICITY	FRACTION ±1/32	TITLE		
	TRUE POSITION	DECIMAL	MATERIAL		
	ROUNDNESS	.00 ±.01			
	CIRCULAR RUN OUT	.000 ±.005			
	TOTAL RUN OUT	.0000 ±.0005			
	CYLINDRICITY				
	FINISH				
- UNLESS OTHERWISE SPECIFIED - REMOVE FIRST THREAD ON ALL TAPPED DEPTHS			DRAWN BY	DATE	DRAWING NO.
BREAK ALL SHARP CORNERS .010 TO .020 STAMP OR MARK DRAWING NO.			SIETING	02-23-2009	015-0-HC1-43-C2
			CHECKED BY	SCALE	SHEET OF REV.
			R./H		