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Section E (Transaxle)

Example 1

Length of dummy pinion	=2.991 (75.97 mm) (standard).		
head			
Radius of dummy shaft	$= \cdot 813$ (20.65 mm) (standard).		
Gap between head and	$= \cdot 005 (\cdot 127 \text{ mm}) \text{ (feeler)}$		
shaft	measurement)		
Therefore C in this			
example	=3.809 (96.75 mm)		



Fig. 23. Feelers in pinion gap

To measure the abutment height of the new bearing proceed as follows:— (See Example 2)

A clock gauge is suitably mounted on a surface plate and set to zero on the abutment ring from Tool No. RG365.

A reading then taken on the bearing to be used gives the difference as shown in Fig. 24. Bearing must be well revolved during measurement.

Add this difference to the height of the gauge block (\cdot 705 in.) (17.9 mm). This block must be measured before use as the size can vary from \cdot 703 in.- \cdot 709 in. (17.85-18.0 mm).

A bearing growth allowance of $\cdot 002$ in. ($\cdot 0508$ mm) must be added.

To this measurement must be added the pinion setting distance (D) marked on pinion head. (See Example 3).



Fig. 24. Measuring height of bearing

Example 2

Bearing abutment height as follows:-

Height of gauge block	= 0.705 (17.9 mm)
Clock reading on bearing	= +0.003 (.0762 mm)
Bearing growth allowance	= +0.002 (.0508 mm)
Therefore B in this example	= 0.710 (18.03 mm)
Example 3	
Bearing abutment height	
(Result of Example 2)	= 0.710 (18.03 mm)
Pinion setting distance (say)	= 3.080 (78.23 mm)
So (B+D)	= <u>3.790</u> (96.26 mm)
Shims required as follows:	

Result of Example 1 (C)	=	3.809 (96.75 mm)
Less Result of Example 3 $(B+D)$	=	3.790 (96.26 mm)
	-	

So shimming (S)

0·019 (·49 mm)