

HORIZONTAL CRANKSHAFT ENGINES

**Models 8B-80100-80200-80300-80400-81100-81200-81300-
81400-82200-82300-82400-83400**

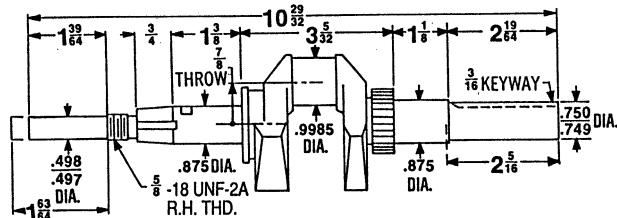
Fig-1 BASIC 260104 (NLA)	Fig-2 260106 (NLA)	
Fig-3 260107 (NLA)	Fig-4 260109 (NLA)	Fig-5 260114 (NLA)
Fig-6 260121 (NLA)	Fig-7 260142 (NLA)	Fig-8 260145 (NLA)
Fig-9 260186 (NLA)	Fig-10 260201 (NLA)	Fig-11 260263 (NLA)
Fig-12 260268 (NLA)	Fig-13 260395 (NLA)	Fig-14 260481 (NLA)
Fig-15 260488 (NLA)	Fig-16 260490 (NLA)	Fig-17 260561 (NLA)

Fig-1 BASIC 260104 (NLA)	Fig-2 260673 (NLA)	
Fig-3 260759 (NLA)	Fig-4	Fig-5
Fig-6	Fig-7	Fig-8
Fig-9	Fig-10	Fig-11
Fig-12	Fig-13	Fig-14
Fig-15	Fig-16	Fig-17

HORIZONTAL CRANKSHAFT ENGINES

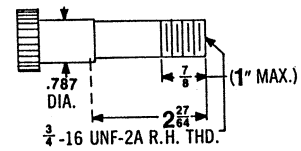
Models 8B-80100-80200-80300-80400-81100-81200-81300-
81400-82200-82300-82400-83400

Fig-1 BASIC



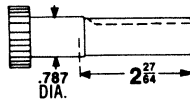
260105 (NLA)

Fig-2



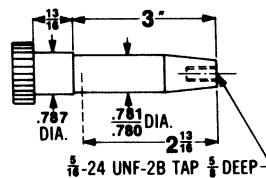
260110 BNR
396383 (NLA)
397252 BRK

Fig-3



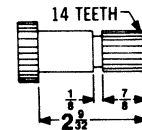
260111 (NLA)

Fig-4



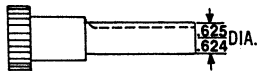
260113 BNR
396381 (NLA)
397251 (NLA)
494033 BRO

Fig-5



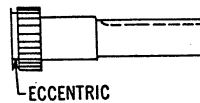
260115 (NLA)
396496 (NLA)
397254 (NLA)
493409 (NLA)

Fig-6



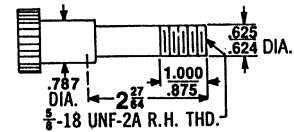
260132 (NLA)

Fig-7



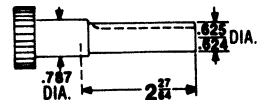
260144 (NLA)

Fig-8



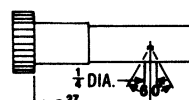
260182 (NLA)
396382 (NLA)
397253 (NLA)
492095 BRO

Fig-9



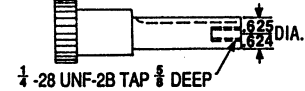
260187 (NLA)
396519 (NLA)
397255 (NLA)
493849 (NLA)
497232 PBRO

Fig-10



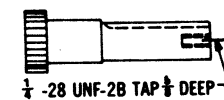
260222 (NLA)

Fig-11



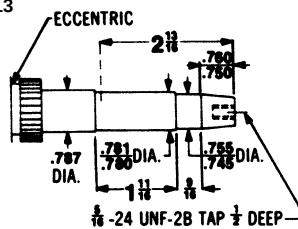
260236 (NLA)
260492 (NLA)
399004 (NLA)
493767 (NLA)
497232 PBRO

Fig-12



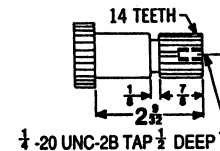
260257 (NLA)
399002 (NLA)
492880 PRO

Fig-13



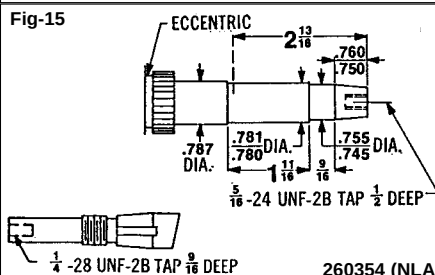
260264 (NLA)

Fig-14



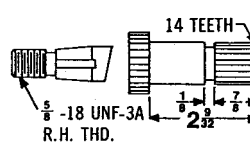
260276 (NLA)
493598 PRGK
493599 PRGO

Fig-15



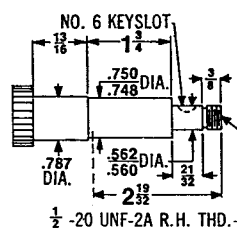
260354 (NLA)

Fig-16



260433 (NLA)

Fig-17



260489 (NLA)
396780 (NLA)
397257 BRK
493619 BRO

Crankshaft Identification List

Form MS-4792-01/02

Fig-1 BASIC 260105 (NLA)	Fig-2 260491 (NLA) 396779 (NLA) 397256 BRK	
Fig-3 260512 (NLA)	Fig-4 260522 (NLA)	Fig-5 260562 (NLA) 399008 PRK 492881 PRO
Fig-6 260674 (NLA)	Fig-7 260932 (NLA) 396359 (NLA) 397250 BRK 493633 BRO	Fig-8 260992 (NLA)
Fig-9 261128 PR	Fig-10 261161 PR	Fig-11 261298 (NLA) 399010 (NLA) 493632 PRO
Fig-12 261404 PR	Fig-13 261450 PR 399006 PRK	Fig-14
Fig-15	Fig-16	Fig-17

HORIZONTAL CRANKSHAFT ENGINES

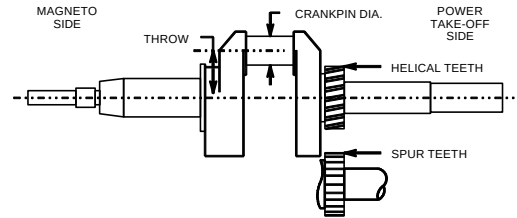
Models 85400

*Crankshafts (and cam gears) are not interchangeable. See IPL for date codes.

Fig-1 BASIC *715053 BFRO *715244 BFRO	Fig-2 *715084 BFRO *715245 BFRO	
Fig-3 *715086 BFRO *715246 BFRO	Fig-4 715088 BFRO	Fig-5 715090 BFRO
Fig-6	Fig-7	Fig-8
Fig-9	Fig-10	Fig-11
Fig-12	Fig-13	Fig-14
Fig-15	Fig-16	Fig-17

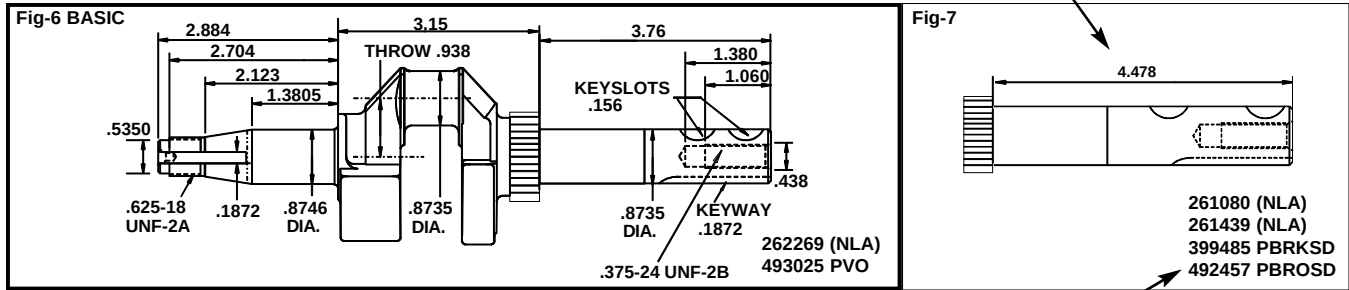
CRANKSHAFT IDENTITY

To determine the part number of a crankshaft, compare the crankshaft with the illustrations shown for the specified engine Model Series. Basic areas where dimensions are called-out in the illustrations are shown at right.



Crankshaft illustrations are grouped by model series and crankshaft orientation. Each group contains one or more complete illustrations of a standard crankshaft boxed by bold lines, and labeled as BASIC.

Any crankshafts which are dimensionally the same as the BASIC are displayed directly following, with only the dimensions that are different shown.



To order the crankshaft, the service number is located in the lower right hand corner of each box. If there is more than one service number listed, the part has been superseded. Review the other part number(s) listed. Check the abbreviations behind the number to determine the correct crankshaft.

LEGEND OF ABBREVIATIONS

The suffix following the part number indicates:

- B** = Ball bearing, power take-off side.
- D** = Deep cover used with flange mount ball bearing or flange mount plain bearing and gear reduction engines.
- E** = Electric starter engine.
- F** = Ball bearing, magneto side.
- G** = Gear reduction.
- J** = Special crankshaft counterweight.
- K** = With plunger flat - fixed or loose timing gear included.
(NOTE: if no plunger flat, Magnetron® module might be included.)
- L** = Pressure lubrication.
- M** = No plunger flat - timing gear not required (2-cycle) or loose timing gear not included - Magnetron® module not included.
- N** = Needle bearing, magneto side.
- (NLA)** = Crankshaft is illustrated for identification, but this part number is no longer available from factory. See illustrations for possible replacement.
- O** = No plunger flat - fixed or loose timing gear included - Magnetron® module not included.
- P** = Plain bearing.
- R** = Rewind starter engine.
- S** = Standard plain bearing cover.
- V** = Vertical pull starter engine.
- Y** = With plunger flat - loose timing gear not included.

The dimension from end of crankshaft to dotted line indicates the distance from the end of the crankshaft to:

- (a) Oil seal on plain bearing horizontal crankshaft engines.
- (b) Mounting face of sump on vertical crankshaft engines.
- (c) Flange mounting face on horizontal crankshaft engines.

NOTE: All crankshaft power take-off tapers are, unless noted, 2-1/4 inches per foot.

