

SHORT BLOCKS

SERVICE ENGINE SALES MANUAL

SHORT BLOCK SPECIFICATIONS

Blocks are available in 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 23, 24, 25, 28, 29, 30, 31, 32, 35, 38, 40, 42, 44, 46, 47, and 54 cubic inch assemblies. To use a Short Block Assembly, the ignition, carburetion and starter parts are transferred to the Short Block from the old engine. If additional new parts are required, they are supplied from stock at regular parts prices.

Short Block Assembly instructions and an Illustrated Parts List are included with each Short Block. Carefully read the Assembly instructions for specific information pertaining to the assembly being used.

Each Short Block Assembly includes a metallic self-adhesive label to be applied to the engine, adjacent to the original nameplate. The label bears a symbol (example V-51) which must be added to the original type number (example 0125 V-51) when replacement parts are ordered. The label must be applied in order to correctly identify the engine after repair with a Short Block.

LEGEND OF ABBREVIATIONS

Governor: "AV" – air vane, "M" – mechanical.

Bearing: "P" – plain, "B" – ball or DU.

Accessory Mounting Boss: Tapped hole in crankcase cover used to fasten clutch brackets, belt guards, etc.

Right Angle Auxiliary P.T.O. "R.A. PTO"
"CW" – clockwise rotation.
"CWW" – counterclockwise rotation.

"I/C® SERIES" Short Blocks: These short blocks include a cast iron sleeve, Cobalite™ exhaust valve and seat, and an exhaust valve rotator, a combination which has proven desirable on Industrial/Commercial applications. The use of an "I/C®" Series short block, when repairing engines powering Industrial/Commercial applications, will result in a reduction of down time and maintenance costs because of the extended valve life.

Dimension: Distance from end of crankshaft to one of the points listed below:

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

VERTICAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Pressure Lubrication	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 90700, 92500, 92900, 93500 (Type Nos. 3000 & up) 93900, 95500, 95900, 96500, 96900, 98900, 9L900, 10A900, 10C900, 10D900 & 10J900

VB-0	398210	492748	Tapped 3/8-24, 2 WK and 3/16" Keyway	3-5/32(b)	AV	P					
VB-1	398211	492086	Tapped 3/8-24, 2 WK and 3/16" Keyway	2-7/16(b)	AV	P					
VB-2	398212	493618	Tapped 3/8-24, WK	1-3/16(b)	AV	P					
VB-3	398213	494034	Tapped 3/8-24, WK	1-13/16(b)	AV	P					
VB-4	398214	492748	Tapped 3/8-24, 2 WK and 3/16" Keyway	3-5/32(b)	AV	P					R.A. PTO 691240 CW
VB-5	398215	492748	Tapped 3/8-24, 2 WK and 3/16" Keyway	3-5/32(b)	AV	P					R.A. PTO 690506 CCW
VB-6	398216	492086	Tapped 3/8-24, 2 WK and 3/16" Keyway	2-7/16(b)	AV	P					R.A. PTO 691240 CW
VB-7	398217	492086	Tapped 3/8-24, 2 WK and 3/16" Keyway	2-7/16(b)	AV	P					R.A. PTO 691240 CCW

Used on Model Series 99700

VC-3	495238	494635	Tapped 3/8-24, 2 WK, Keyway 25 mm dia.	3-5/32(b)	M	P	P	X			Sleeve Bore
VC-4	495239	494639	Tapped 3/8-24, WK, Keyway 25 mm dia.	2-7/16(b)	M	P	P	X			Sleeve Bore

Used on Model Series 100700

VC-0	492380	262268	Tapped 3/8-24, 2 WK, 7/8" dia.	3-5/32(b)	AV	P	P				
VC-1	492381	262269	Tapped 3/8-24, 2 WK, 7/8" dia.	2-7/16(b)	AV	P	P				

Used on Model Series 110600, 120600 and 121600

692745	692745	691457	Tapped 3/8-24, 2 WK, Keyway 7/8" dia.	3-5/32(b)	M	P	P				
692746	692746	693291	Tapped 3/8-24, WK, Keyway 7/8" dia.	2-7/16(b)	M	P	P				
692747	692747	692893	Tapped 3/8-24, WK, Keyway 7/8" dia.	1-13/16(b)	M	P	P				
692748	692748	691456	Tapped 3/8-24, 2 WK, Keyway 25 mm dia.	3-5/32(b)	M	P	P				
692749	692749	694491	Tapped 3/8-24, WK, Keyway 25 mm dia.	2-7/16(b)	M	P	P				
692750	692750	691457	Tapped 3/8-24, 2 WK, Keyway 7/8" dia.	3-5/32(b)	M	P	P				R.A. PTO 690522 CW
692751	692751	691457	Tapped 3/8-24, 2 WK, Keyway 7/8" dia.	3-5/32(b)	M	P	P				R.A. PTO 690522 CCW
692752	692752	691457	Tapped 3/8-24, WK, Keyway 7/8" dia.	3-5/32	M	P	B	X			
692755	692755	692803	Tapered		M	P	P				
693065	693065	691458	Tapped 7/16-20, Keyway 25 mm dia.	2-7/16(b)	M	P	B				
693066	693066	692988	Stepped, WK		M	P	B				
693067	693067	691458	Tapped 7/16-20, Keyway 25 mm dia.	2-7/16(b)	M	P	B				
693068	693068	692988	Stepped, WK		M	P	B				
694898	694898	694153	Tapped 7/16-20, Tapered		M	P	B				
697753	697753	691457	Tapped 3/8-24, 2 WK, Keyway 7/8" dia.	3-5/32(b)	M	P	P				

Used on Air Vane Governor Engines in Model Series 110700 and 110900 (Type Nos. 1000 and up)

VB-24	398224	492096	Tapped 3/8-24, 2 WK, 3/16" Keyway	3-5/32(b)	AV	P	P				R.A. PTO 691240 CW
VB-25	398225	492096	Tapped 3/8-24, 2 WK, 3/16" Keyway	3-5/32(b)	AV	P	P				R.A. PTO 690506 CCW
VB-27	398227	492087	Tapped 3/8-24, 2 WK, 3/16" Keyway	2-7/16(b)	AV	P	P				R.A. PTO 691240 CCW

VERTICAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Pressure Lubrication	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 120000

498826	498826	691451	Tapped 3/8-24, 2 WK, Keyway, 7/8" dia.	3-5/32(b)	M	P	B				
498827	498827	691452	Tapped 3/8-24, 2 WK, Keyway, 7/8" dia.	2-7/16(b)	M	P	B				
498828	498828	691455	Tapped 3/4-24, 2 WK, Keyway, 7/8" dia.	1-13/16(b)	M	P	B				
498829	498829	691450	Tapped 3/8-24, 2 WK, Keyway, 25 mm dia.	3-5/32(b)	M	P	B				
498830	498830	691454	Tapped 3/8-24, 2 WK, Keyway, 25 mm dia.	2-7/16(b)	M	P	B				
498831	498831	493433	Tapped 7/16-20, Serrated, 1" dia.		M	P	B				
498832	498832	692980	Tapped 7/16-20, Keyway, 25 mm dia.	2-7/16(b)	M	P	B				
498833	498833	691451	Tapped 3/8-24, 2 WK, Keyway, 7/8" dia.	3-5/32(b)	M	P	B				R.A. PTO 691778 CCW
498834	498834	691451	Tapped 3/8-24, 2 WK, Keyway, 7/8" dia.	3-5/32(b)	M	P	B				R.A. PTO 691778 CW
499527	499527	691482	Tapered, Tapped 5/16-24		M	P	P				R.A. PTO 691778 CW
694809	694809	692978	Tapped 3/8-24, 2 WK, Keyway, 25 mm dia.	1-13/16(b)	M	P	B				
694810	694810	694079	Tapped 7/16-20, Keyway, 25 mm dia., Tapered		M	P	B				
696276	696276	696009	Tapped 7/16-20, Keyway, 25mm dia.	3-5/32 (b)	M	P	P				
790450	790450	694478	Tapped 3/8-24, Keyway, 25mm dia.	3 (b)	M	P	P				

Used on Model Series 133700 and 135700

497150	497150	397109	Tapped 3/8-24, WK	1-13/16(b)	M	P	B		X	X	Sleeve Bore I/C® Series
497151	497151	397107	Tapped 3/8-24, 2 WK	3-5/32(b)	M	P	B		X	X	Sleeve Bore I/C® Series
497152	497152	397115	Tapped 3/8-24, 3/16" & 1/4" Keyways	3-5/32(b)	M	P	B		X	X	Sleeve Bore I/C® Series
497153	497153	496842	Tapped 3/8-24, 3/16 Keyway, 7/8" dia.	3-5/32(b)	M	P	B				Sleeve Bore I/C® Series

Used on Model Series 210000

697739	697739	697390	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
697740	697740	697390	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B				Sleeve Bore

Used on SYNCHRO-BALANCED® Model Series 220700, 251700, 252700 and 253700

VS-256	396611	391794	Tapped 3/8-24, 2 WK, 1"-7/8" dia.	3-5/32(b)	M	P	B		X	X	Synchro-Balanced® I/C® Series
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Used on Model Series 28A700, 28B700, 28C700, 28D700, 28M700, 280700, 281700, 282700, 283700, 284700, 285700, 286700, 288700 and 289700

496606	496606	495162	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B		X	X	Synchro-Balanced® I/C® Series
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Used on Model Series 28P700 and 28Q700

694267	694267	694187	Tapered		M	P	B	X			Sleeve Bore
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Used on Model Series 290700, 294700 and 303700

VE-1	494057	807586	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
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Used on Model Series 287700, 28E700, 28N700, 28P700, 28Q700, 310000

697761	697761	697127	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B				Sleeve Bore
697762	697762	697516	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
699341	699341	699106	Tapered, Tapped 5/16-24	3-5/32(b)	M	P	B	X			Sleeve Bore

VERTICAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing P.T.O. Side	Bearing Magneto Side	Pressure Lubrication	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 350700 and 351700

496241	496241	807779	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
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Used on Model Series 380700 and 381700

695393	695393	692172	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
695394	695394	808675	Tapped 7/16-20, Keyway, 1"-1/8" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore

Used on Model Series 405000, 406000 and 407000

692714	692714	691046	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
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Used on Twin Cylinder Model Series 420000

●●VSA-423	492103	394684	Tapped 3/8-24, 2 WK, 1"-7/8" dia.	3-5/32(b)	M	B	B		X	X	Sleeve Bore I/C® Series
●●VSA-424	492104	394684	Tapped 3/8-24, 2 WK, 1"-7/8" dia.	3-5/32(b)	M	B	B		X	X	Sleeve Bore I/C® Series
VSA-425	493289	492590	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	B	B	X	X	X	Sleeve Bore I/C® Series
499946	499946	495290	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	B	B	X	X	X	Sleeve Bore I/C® Series

Used on Model Series 40H700

698177	698177	691046	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
698178	698178	691047	Tapped 7/16-20, Keyway, 1"-1/8" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore

Used on Twin Cylinder Model Series 445000, 446700

698172	698172	691046	Tapped 7/16-20, Keyway, 1" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore
698173	698173	691047	Tapped 7/16-20, Keyway, 1-1/8" dia.	3-5/32(b)	M	P	B	X			Sleeve Bore

●● **NOTE:** For use on engines originally equipped with MAGNETRON® ignition system.

● **NOTE:** When short block is used to repair model series 146400, 146700, 147400 or 147700. New cylinder head number 211592 is also required.

HORIZONTAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Flange Mtg. Holes	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on 6 and 8 Cubic Inch Engines

HC-3	491039	492095	Threaded 5/8-18	2-27/64(a)	AV	B	B	X	X	X	Sleeve Bore I/C® Series
HC-14	491041	493663	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	AV	B	B	X	X	X	Sleeve Bore I/C® Series
HC-15	491042	397255	5/8" dia., Keyway	2-27/64(c)	AV	B	B	X	X	X	Sleeve Bore I/C® Series

Used on Model Series 85400

497649	497649	715084	Threaded 5/8-18	2-27/64(c)	M	B	B	X			Sleeve Bore
497650	497650	715053	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	M	B	B	X			Sleeve Bore
497651	497651	715086	Tapered, Tapped 5/16-24	2-13/16(c)	M	B	B	X			Sleeve Bore

Used on Model Series 90100, 90200, 91200 and 93300

495914	495914	492880	3/4" dia., Keyway, Tapped 1/4-28	2-5/16(a)	AV	P	P				
495915	495915	493767	5/8" dia., Keyway, Tapped 1/4-28	2-5/16(a)	AV	P	P				
495920	495920	492880	3/4" dia., Keyway, Tapped 1/4-28	2-27/64(c)	AV	P	P	X			

Used on Model Series 90100, 90200, 91200, 92200, 93300 and 94000

497652	497652	495211	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	AV	B	B	X	X	X	Sleeve Bore
497653	497653	495210	Threaded 5/8-18	2-27/64(c)	AV	B	B	X	X	X	Sleeve Bore
497654	497654	497232	5/8" dia., Keyway, Tapped 1/4-28	2-27/64(c)	AV	B	B	X	X	X	Sleeve Bore
497655	497655	493599	6 to 1 Gear Reduction CCW Rotation		AV	P	B	X	X	X	Sleeve Bore

Used on Model Series 93400

497189	497189	492880	3/4" dia., Keyway, Tapped 1/4-28	2-5/16(a)	M	P	B	X			Sleeve Bore
497191	497191	493599	6 to 1 Gear Reduction CCW Rotation		M	P	B	X			Sleeve Bore
497192	497192	493767	5/8" dia., Keyway, Tapped 1/4-28	2-27/64(c)	M	P	B	X			Sleeve Bore
497193	497193	495210	Threaded 5/8-18	2-27/64(c)	M	P	B	X			Sleeve Bore
497194	497194	495211	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	M	P	B	X			Sleeve Bore

Used on Model Series 100200, 130200, 135200 and 136200

HB-62	491147	397087	Threaded 5/8-18	2-27/64(c)	M	B	P	X			
HB-63	491148	492090	Tapered, Tapped 5/16-24	2-13/16(c)	M	B	P	X			
HB-64	491149	397095	6 to 1 Gear Reduction CCW Rotation		M	P	P	X			
HB-65	491150	397108	3/4" dia., Keyway, Tapped 3/8-24	1-21/64(a)	M	P	P				

Used on Model Series 110400, 121400 and 123400

693779	693779	693403	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(a)	M	B	B	X			Sleeve Bore
693780	693780	693594	Threaded 5/8-18	2-27/64(c)	M	B	B	X			Sleeve Bore
693781	693781	693596	Tapered Keyway, Tapped 3/8-24		M	P	B	X			Sleeve Bore
693782	693782	693887	3/4" dia., Keyway, Tapped 1/4-28	2-27/64(c)	M	P	B	X			Sleeve Bore
693783	693783	694439	6 to 1 Gear Reduction CCW Rotation		M	P	B				Sleeve Bore
696265	696265	693403	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(a)	M	B	B	X			Sleeve Bore
696316	696316	695763	3/4" dia., Keyway, Tapped 5/16-24	2-5/16(a)	M	P	B	X			Sleeve Bore, Auxiliary PTO
696317	696317	693887	1" dia., Keyway, Tapped 3/8-24	2-3/4(c)	M	P	B	X			Sleeve Bore

HORIZONTAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Flange Mtg. Holes	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 120300, 121300, 123300, 124300, 126300, 127300 128300

699579	699579	699443	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(a)	M	B	B	X			Sleeve Bore
699580	699580	699441	Threaded 5/8-18	2-27/64(c)	M	B	B	X			Sleeve Bore
699581	699581	699452	Tapered Keyway, Tapped 3/8-24		M	P	B	X			Sleeve Bore
699582	699582	699445	3/4" dia., Keyway, Tapped 1/4-28	2-27/64(c)	M	P	B	X			Sleeve Bore
699583	699583	699444	6 to 1 Gear Reduction CCW Rotation		M	P	B				Sleeve Bore
699584	699584	699443	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(a)	M	B	B	X			Sleeve Bore
699585	699585	699451	3/4" dia., Keyway, Tapped 5/16-24	2-5/16(a)	M	P	B	X			Sleeve Bore, Auxiliary PTO
699586	699586	699445	1" dia., Keyway, Tapped 3/8-24	2-3/4(c)	M	P	B	X			Sleeve Bore

Used on Model Series 115400 and 117400

497643	497643	715009	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	M	B	B	X			Sleeve Bore
497644	497644	715039	Threaded 5/8-18	2-27/64(c)	M	B	B	X			Sleeve Bore
497645	497645	715041	Tapered, Tapped 5/16-24	2-13/16(c)	M	B	B	X			Sleeve Bore
497647	497647	715043	25 mm dia., Keyway	2-27/64(c)	M	B	B	X			Sleeve Bore

Used on Model Series 131200, 131400, 132200, 132400, 133200, 133400, 135200 and 136200

496821	496821	494035	Tapered, Tapped 5/16-24	2-11/16(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
694195	694195	495644	Threaded 5/8-18	2-27/64(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
694196	694196	496843	Tapered, Tapped 5/16-24	2-13/16(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
694199	694199	495845	Tapered, Keyway, Tapped		M	P	B	X	X	X	Sleeve Bore I/C® Series
694200	694200	497276	3/4" dia., Keyway, Tapped 5/16-24	2-27/64(c)	M	P	B	X	X	X	Sleeve Bore I/C® Series

Used on MECHANICAL Governor Model Series 146400, 147400 (Type Nos. 0500 & up) & Model Series 170400 (Type Nos. 0010 & up)

•H-81	299771	492479	Threaded 1-14	3-21/32(c)	M	P	P	X		X	
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Used on Model Series 185400

497639	497639	715098	1" dia., Keyway, Tapped 7/16-20	2-29/32(c)	M	B	B	X			Sleeve Bore
497640	497640	715101	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X			Sleeve Bore
497641	497641	715100	Threaded 1-14, 1" Tapped Length	3-21/32(c)	M	B	B	X			Sleeve Bore
497642	497642	715098	1" dia., Keyway, Tapped 7/16-20	2-29/32(c)	M	B	B	X			Sleeve Bore

Used on Model Series 190400

•H-91	390631	492460	Threaded 1-14	3-21/32(c)	M	B	P	X		X	
•H-92	390632	492458	1" dia., Keyway, Tapped 7/16-20	3-21/32(c)	M	B	P	X		X	
•H-93	390633	492459	6 to 1 Gear Reduction CCW Rotation		M	P	P			X	
•H-94	390634	492454	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	P	X	X	X	

- **NOTE:** When short block is used to repair model series 146400, 146700 or 147400,147700, new cylinder head no. 211592 is also required.

HORIZONTAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Flange Mtg. Holes	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 192400, 195400, 197400, 19B400, 19E400, 19F400 and 19G400

497538	497538	495790	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X	X	X	Sleeve Bore
497539	497539	495663	6 to 1 Gear Reduction CCW Rotation		M	P	B	X	X	X	Sleeve Bore
497542	497542	495884	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	P	B	X	X	X	Sleeve Bore

Used on Model Series 195400

HSB-93	398293	492470	6 to 1 Gear Reduction CCW Rotation		M	P	B	X	X	X	Sleeve Bore I/C® Series
HSB-94	398292	492471	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
HSB-95	398294	492449	Threaded 1-14, 1" Thread Length	3-21/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series

Used on Model Series 201400, 202400, 203400, 204400, 205400 and 206400

696094	696094	695462	1" dia., Keyway, Tapped 7/16-20	3-21/32(c)	M	B	B	X			Sleeve Bore
696095	696095	695369	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X			Sleeve Bore
696096	696096	694678	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X			Sleeve Bore
696097	696097	695817	6-1 Gear Reduction CCW Rotation		M	P	B	X			Sleeve Bore
696098	696098	695818	Threaded 1-14, 1" Thread Length	3-21/32(c)	M	B	B	X			Sleeve Bore
790841	790841	696412	3/4" dia., Keyway, Tapped 3/8-24	2-17/32(c)	M	B	B	X			Sleeve Bore

Used on Model Series 210400 and 21A400

698553	698553	695462	1" dia., Keyway, Tapped 3/8-24	3-21/32(c)	M	B	P	X			
698554	698554	694678	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	P	X			
698555	698555	695818	Threaded 1-14, 1" Thread Length	3-21/32(c)	M	B	P	X			
699302	699302	695369	1" dia., Keyway, Tapped 3/8-24	2-3/4(c)	M	B	P	X			
790926	790926	696412	3/4" dia., Keyway, Tapped 3/8-24	2-17/32(c)	M	B	P	X			

Used on Model Series 235400 and 245400

499535	499535	715342	1" dia., Keyway, Tapped 7/16-20	2-29/32(c)	M	B	B	X			Sleeve Bore
499536	499536	715344	Threaded 1-14, 1" Tapped Length	3-21/32(c)	M	B	B	X			Sleeve Bore
499537	499537	715343	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X			Sleeve Bore
499538	499538	715342	1" dia., Keyway, Tapped 7/16-20	2-29/32	M	B	B	X			Sleeve Bore

Used on Model Series 254400

HB-256	399022	399728	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
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Used on Model Series 256400

499544	499544	491645	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
499545	499545	491645	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series

Used on Model Series 290400, 294400 and 303400

HD-1	494054	692161	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X			Sleeve Bore
HD-2	494055	692163	Tapered, Tapped 5/16-24	4-11/32(c)	M	B	B	X			Sleeve Bore
HD-3	494056	692162	Threaded 1-14, 1" Thread Length	3-21/32(c)	M	B	B	X			Sleeve Bore

Used on Model Series 300430, 301430, 302430, 320430, 325430 and 326430

H-320	393870	261218	1" dia., Keyway, Tapped 3/8-24	4-1/2(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
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Used on Model Series 350400

496238	496238	807778	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X			Sleeve Bore
496239	496239	807777	Threaded 1-14, 1" Thread Length	4-11/32(c)	M	B	B	X			Sleeve Bore
496240	496240	807780	Tapered, Tapped 5/16-24	3-21/32(c)	M	B	B	X			Sleeve Bore

HORIZONTAL CRANKSHAFT

Symbol No.	Part No.	Crankshaft	Crankshaft P.T.O. Extension	Dimension	Governor	Bearing PTO Side	Bearing Magneto Side	Flange Mtg. Holes	Cobalite Exhaust Valve	Exhaust Valve Rotator	Notes
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Used on Model Series 351400

499540	499540	807778	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X			Sleeve Bore
499541	499541	807777	Threaded 1-14, 1" Thread Length	4-11/32(c)	M	B	B	X			Sleeve Bore
499542	499542	807780	Tapered, Tapped 5/16-24	3-21/32(c)	M	B	B	X			Sleeve Bore

Used on Model Series 380400 and 381400

695390	695390	692171	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X			Sleeve Bore
695391	695391	691139	1"-1/8" dia., Keyway, Tapped 3/8-24	4(c)	M	B	B	X			Sleeve Bore
695392	695392	692173	Tapered, Tapped 5/16-24	3-51/64(c)	M	B	B	X			Sleeve Bore

Used on Twin Cylinder Model Series 401400, 402400, 421400 and 422400

499947	499947	394430	1" dia., Keyway, Tapped 3/8-24	2-29/32(c)	M	B	B	X	X	X	Sleeve Bore I/C® Series
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Used on Twin Cylinder Model Series 473100

699427	699427	809501	Tapped 7/16-20, Keyway, 1-1/8" dia.	3-5/32(b)	M	B	B	X			Sleeve Bore
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Used on Twin Cylinder Model Series 543400

699428	699428	809982	Tapped 7/16-20, Keyway, 1-1/8" dia.	3-5/32(b)	M	B	B	X			Sleeve Bore
790813	790813	841513	Tapped 7/16-20, Keyway, 1-1/8" dia.	3(b)	M	B	B	X			Sleeve Bore
790814	790814	841683	Tapered, Tapped 5/16-24	3-51/64(c)	M	B	B	X			Sleeve Bore
790815	790815	841529	Tapped 5/8-18, Keyway, 1-7/16" dia.	4-1/2(b)	M	B	B	X			Sleeve Bore

●● **NOTE:** For use on engines originally equipped with MAGNETRON® ignition system.