



SERVICE NEWS

AIRCOOLED MOTORS DIV.
ST. LOUIS & NEW YORK

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NO. N-36

SUBJECT: RECOMMENDED SPECIAL TOOLS FOR FRANKLIN MODEL 6A4-150-B3,
6A4-165-B3, 6V4-178-B32 & B33, 6V4-200-C32 & C33 ENGINES

Tool #	Tool Name	Application	
		Servicing and Top Overhaul	Major Overhaul
*11258	Valve Tool	X	X
11983	Block-Valve Support	X	X
11984	Bolt-Valve Support Block (for 6A4-150, 6A4-165 and 6V4-178 Only)	X	X
*13821	14mm Heli-coil Bottoming Tap	X	X
*13826	14mm Heli-coil Inserting Tool	X	X
*15331	14mm Heli-coil Extracting Tool	X	X
*18295	14mm Heli-coil Off-set Tool	X	X
*18296	14mm Heli-coil Staking Sleeve	X	X
18578	Sling-Engine Lifting	X	X
*18579	Compressor-Piston Ring	X	X
*18580	Expander-Piston Ring	X	X
*18582	Wrench-Cylinder Holddown - 5/8	X	X
*18583	Wrench-Cylinder Holddown - 9/16	X	X
*18584	Puller-Magneto Drive Gear & Starter Gear		X
*18585	Compressor-Hydraulic Valve Lifter Bleeder	X	X
18586	Wrench-Crankshaft Nut		X
*18587	Gauge-Camshaft Gear to Camshaft Height Checking		X
18588	Holder-Crankshaft Timing Gear Installing		X
18589	Driver-Starting Gear Installing		X
18590	Pusher-Magneto Drive Gear Installing		X
*19585	Wrench-Ignition Lead Elbow	X	X
*18841	Wrench-Main Bearing Stud Nut		X
*19414	Puller-Lifter Rod Tube	X	X
19423	Stand-Engine Overhaul		X
19424	Adapter-Engine Mounting (4 required)		X
19425	Adapter-Crankshaft Mounting (6V4-178 and 6V4-200 Only)		X
*19426	Puller-Piston Pin Removing	X	X
19427	Plate-Crankshaft & Camshaft Gear Removing		X
19428	Driver-Crankshaft Gear Removing		X
19429	Driver-Camshaft Gear Removing		X
19430	Driver-Angle Drive Adapter Seal Installing (6V4-178 and 6V4-200 Only)		X
19431	Driver-Fuel Pump Adapter Seal Installing (6V4-178 and 6V4-200 Only)		X

19432	Holder-Connecting Rod Reaming		X
19433	Reamer-Connecting Rod Bushing		X
*19434	Driver-Tachometer Seal Installing	X	X
19435	Driver-Crankshaft Gear Installing		X
*19436	Driver-Lifter Rod Tube Installing	X	X
*19437	Pointer-Timing Mark (6V4-178, 6V4-200 Only)	X	X
*19438	Turning Tool-Magneto Timing (6V4-178, 6V4-200 Only)	X	X

RECOMMENDED SPECIAL TOOLS FOR CYLINDER RECONDITIONING

19440-1	Arbor-Insert Recess Reamer, Inlet, .001 OS Pilot
19440-2	Arbor-Insert Recess Reamer, Inlet, .002 OS Pilot
19440-3	Arbor-Insert Recess Reamer, Inlet, .005 OS Pilot
19440-4	Arbor-Insert Recess Reamer, Inlet, .007 OS Pilot
19440-5	Arbor-Insert Recess Reamer, Inlet, .010 OS Pilot
19441-1	Arbor-Insert Recess Reamer, Exhaust .001 OS Pilot
19441-2	Arbor-Insert Recess Reamer, Exhaust .002 OS Pilot
19441-3	Arbor-Insert Recess Reamer, Exhaust .005 OS Pilot
19441-4	Arbor-Insert Recess Reamer, Exhaust .007 OS Pilot
19441-5	Arbor-Insert Recess Reamer, Exhaust .010 OS Pilot
*19442	Driver-Valve Guide Removing Inlet and Exhaust (For 6A4-165, 6V4-178-B33 and 6V4-200 Only)
*19443-1	Reamer-Valve Guide Bore .001 OS
*19443-2	Reamer-Valve Guide Bore .002 OS
*19443-3	Reamer-Valve Guide Bore .005 OS
*19443-4	Reamer-Valve Guide Bore .007 OS
*19443-5	Reamer-Valve Guide Bore .010 OS
*19444	Driver-Valve Guide Installing
*19445	Ring-Cylinder Support
19446-1	Reamer-Valve Seat Insert Recess, Inlet .002 OS
19446-2	Reamer-Valve Seat Insert Recess, Inlet .005 OS
19446-3	Reamer-Valve Seat Insert Recess, Inlet .010 OS
19447-1	Reamer-Valve Seat Insert Recess, Exhaust .002 OS
19447-2	Reamer-Valve Seat Insert Recess, Exhaust .005 OS
19447-3	Reamer-Valve Seat Insert Recess, Exhaust .010 OS
19448	Driver-Insert Installing, Inlet
19449	Driver-Insert Installing, Exhaust
19450	Rolling Tool-Inlet Valve Insert
19451	Rolling Tool-Exhaust Valve Insert
19452	Holder-Cylinder Liner, Installing

Tool numbers preceded by an asterisk (*) are available for immediate delivery. All other tools require eight (8) to twelve (12) weeks for delivery.

Tool prices may be obtained from your nearest Franklin Distributor.