

SERVICE MANUAL

MODEL L20A, L24 SERIES ENGINES



NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

SECTION SE SERVICE EQUIPMENT

Battery type stand for
efficient, safe disconnection
of battery cables from
engine

Fig. EM-10

Use the engine stand with
the safety device
(ST01740007) as a set

Attachment for setting
the engine on the
engine stand

Fig. EM-11

For removing the crank
pulley with diameter

Fig. EM-12

For removing and
installing the cylinder
head bolts

Fig. EM-13

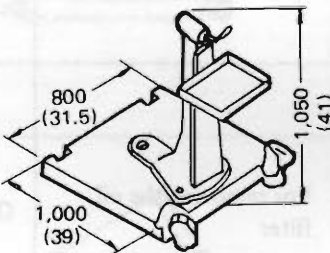
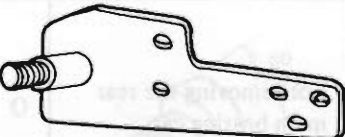
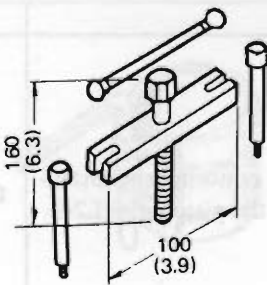
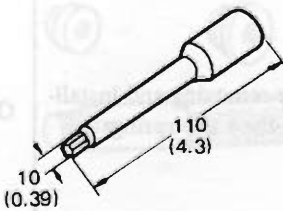
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L20A, L24 ENGINE SPECIAL SERVICE TOOLSE- 1

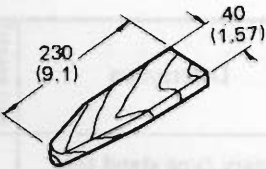
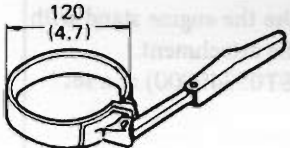
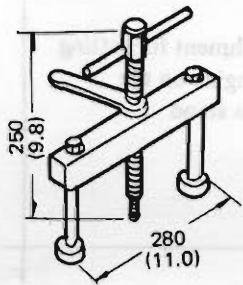
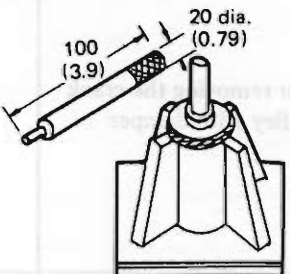
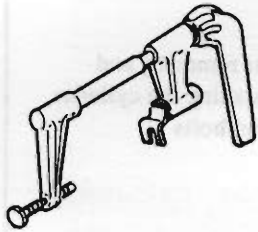
SERVICE EQUIPMENT

L20A, L24 ENGINE SPECIAL SERVICE TOOL

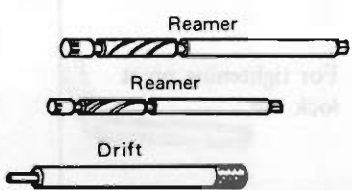
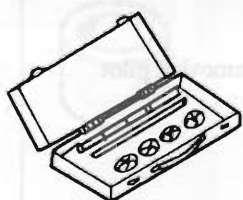
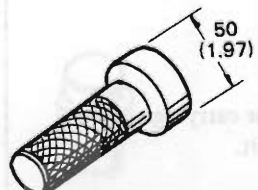
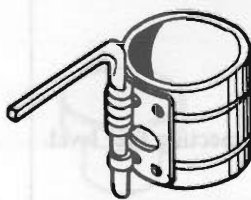
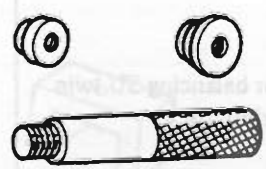
510 Special service tool set number ST09110000

Tool number Tool name	Figure mm (in)	Description	510 special service tool set	Applied model	S.M. reference page (See Fig. No.)
ST0501S000 └ ST05011000 ST05012000 Engine stand assembly └ Stand body Base plate		Rotary type stand for efficient, safe disassembly or reassembly of the engine Use the engine stand with the attachment (ST05340000) as a set		All	Fig. EM-11
ST05340001 Engine attachment		Attachment for setting the engine on the engine stand		L24 L20A	Fig. EM-11
ST16540000 Crank pulley puller		For removing the crank pulley with damper		L24 L20	Fig. EM-17
ST10120000 Cylinder head bolt wrench		For removing and installing the cylinder head bolts	O	L24 L20A L16 L13	Fig. EM-19 Fig. EM-82

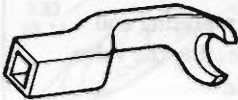
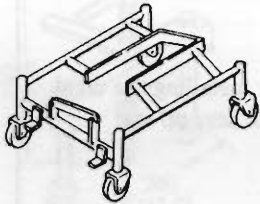
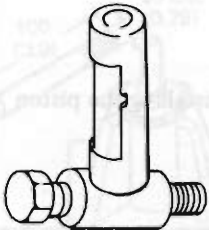
ENGINE

Tool number Tool name	Figure mm (in)	Description	510 special service tool set	Applied model	S.M. reference page (See Fig. No.)
ST17420001 Chain stopper		For supporting the timing chain	O	L24 L20A L16 L13	Fig. EM-18
ST19320000 Oil filter wrench		For removing the oil filter	O	All	
ST1651S000 — ST16511000 — ST16512001 Crankshaft main bearing cap puller assembly — Puller body — Adapter		For removing the rear main bearing cap	O	L24 L20A L16 L13	Fig. EM-23
ST13030001 Piston pin press stand		For removing and installing the piston pin (L24)	O	L24 L20A L16 L13	Fig. EM-27
ST12070000 Valve lifter set		For removing and installing the valve springs	O	All	Fig. EM-30 Fig. EM-69

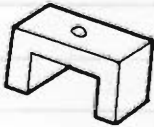
SERVICE EQUIPMENT

Tool number Tool name	Figure mm (in)	Description	510 special service tool set	Applied model	S.M. reference page (See Fig. No.)
ST1103S000 — ST11031000 — ST11032000 — ST11033000 Valve guide reamer assembly — Reamer [12.2φ (0.480φ)] — Reamer [8.0φ (0.3150φ)] — Drift bar	 Reamer Reamer Drift	For replacing and correcting the valve guide		L24 L20A L20 L16 L13	Fig. EM-40
ST11650001 Valve seat cutter		For correcting the valve seat insert		L24 L20A L16 L13	Fig. EM-41
ST15310000 Crankshaft rear oil seal drift		For installing the crankshaft rear oil seal		L24 L20A L16 L13	
EM03470000 Piston ring compressor		For installing the piston		All	Fig. EM-79
ST1524S000 — ST15241000 — ST15242000 — ST15243000 Front oil seal drift assembly — Adapter (press in) — Adapter (press out) — Drift bar		For replacing oil seal		L24 L20A	

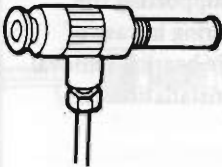
ENGINE

Tool number Tool name	Figure mm (in)	Description	S10 special service tool set	Applied model	S.M. reference page (See Fig. No.)
ST10640001 Pivot adjuster		For tightening pivot lock nut.		L24 L20A L16 L13	
ST16610001 Pilot bush puller		For removing pilot bush.		L24 L20A L16 L13	
ST07010000 Engine carrier		For carrying engine unit.		L24 L20	
ST19200000 Float level gauge		For inspecting fuel level.		L24 L16 A12	
EG1670000 Flow meter		For balancing SU twin carburetor		L24 L16 U20 R	Fig. EF-40 Fig. EC-29

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Tool number Tool name	Figure mm (in)	Description	510 special service tool set	Applied model	S.M. reference page (See Fig. No.)
*ST19810000 Hexagon wrench		For removing and install- ing the rotor ring assembly		L24	Fig. EC-10
*ST19820000 Support for disas- sembling rotor ring		For supporting the rotor ring in case of needle bearing removal and installation		L24	Fig. EC-11
*ST19830000 Attachment for pushing out needle bearing		For removing the needle bearing		L24	Fig. EE-11
*ST19840000 Attachment for pressing in needle bearing		For installing the needle bearing		L24	Page EC-11
*ST19850000 Bridge for pulling out relief valve		Use as a bridge for removing the relief valve by the puller		L24	Fig. EC-13

ENGINE

Tool number Tool name	Figure mm (in)	Description	510 special service tool set	Applied model	S.M. reference page (See Fig. No.)
*ST19860000 Dummy shaft		For assembling the vanes		L24	Page EC-10
*ST19870000 Air pump test gauge adapter		For checking the air pump performance		L24	Page EC-16

*: Emission control maintenance special tool

SERVICE JOURNAL OR BULLETIN REFERENCE

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