SERVICE MANUAL

DATSUN 240Z
MODEL S30 SERIES



NISSAN

NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

SECTION SE

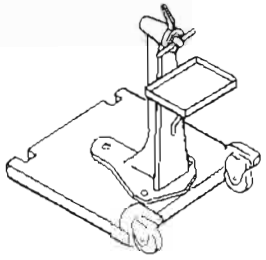
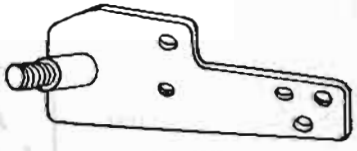
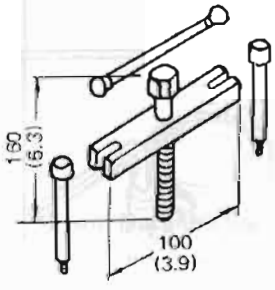
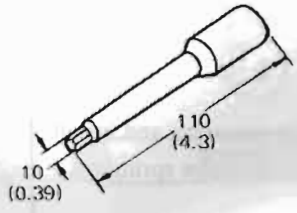
SERVICE EQUIPMENT

SPECIAL SERVICE TOOLS ..... SE- 1

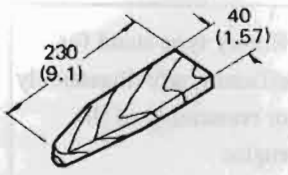
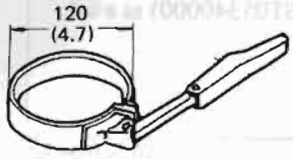
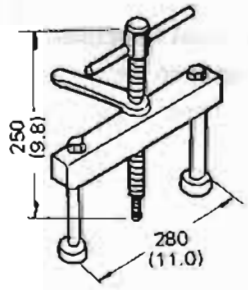
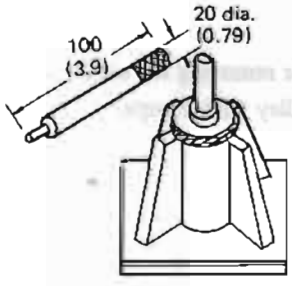
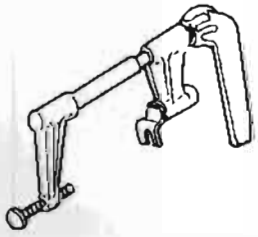
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SPECIAL SERVICE TOOLS

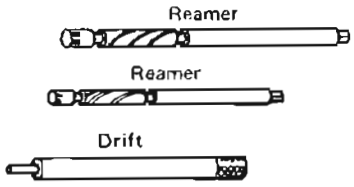
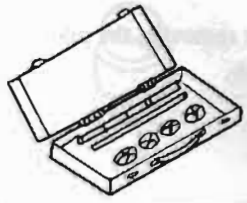
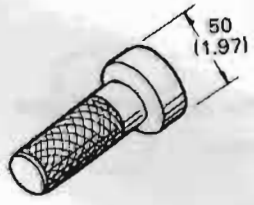
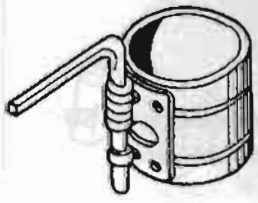
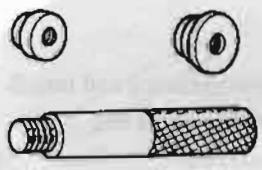
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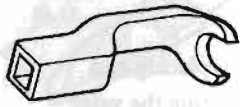
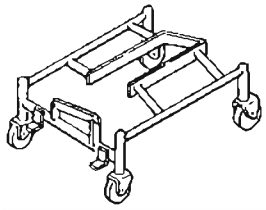
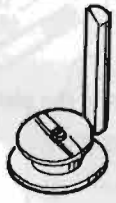
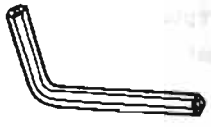
Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
ST0501S000 Engine stand assembly ST05011000 Stand ST05012000 Base	 SE184	Rotary type stand for efficient, safe disassembly or reassembly of the engine Use the engine stand with the attachment (ST05340000) as a set	All	Fig. EM-10 Page EM-26
ST05340000 Engine attachment	 SE276	Attachment for setting the engine on the engine stand	L24	Fig. EM-10 Page EM-26
ST16540000 Crank pulley puller	 SE277	For removing the crank pulley with damper	L24	Fig. EM-11
ST10120000 Cylinder head bolt wrench	 SE186	For removing and installing the cylinder head bolts	All L-series	Fig. EM-13 Fig. EM-86

SERVICE EQUIPMENT

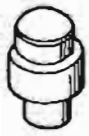
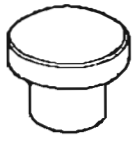
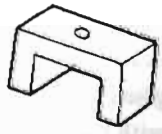
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ST17420001 Chain stopper	 SE195	For supporting the timing chain	All L-series	Fig. EM-12 Fig. EM-13
ST19320000 Oil filter wrench	 SE197	For removing the oil filter	All	Page ET-2 Page EM-4
ST16515000 Crankshaft main bearing cap puller assembly ST16511000 Puller body ST16512001 Adapter	 SE190	For removing the rear main bearing cap	All L-series	Fig. EM-17
ST13030001 Piston pin press stand	 SE188	For removing and installing the piston pin	All L-series	Fig. EM-21 Fig. EM-73
ST12070000 Valve lifter	 SE194	For removing and installing the valve springs	All	Fig. EM-24 Fig. EM-71

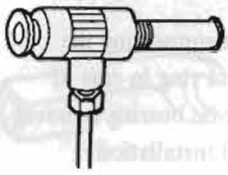
SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
ST1103S000 Valve guide reamer set ST11031000 Reamer [12.2 mm (0.480 in) dia.] ST11032000 Reamer [8.0 mm (0.3150 in) dia.] ST11033000 Drift	 SE192	For replacing and correcting the valve guide	All L-series	Fig. EM-34
ST11650001 Valve seat cutter set	 SE193	For correcting the valve seat insert	All L-series	Fig. EM-35
ST15310000 Crankshaft rear oil seal drift	 SE189	For installing the crankshaft rear oil seal	All L-series	Page EM-28
EM03470000 Piston ring compressor	 SE199	For inserting the piston into the cylinder	All	Page EM-28
ST1524S000 Front oil seal drift set ST15241000 Drift (press in) ST15242000 Drift (press out) ST15243000 Drift bar	 SE278	For replacing the front oil seal	L24	Page EM-24

Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
ST10640001 Pivot adjuster	 SE187	For tightening the pivot lock nut.	All L-series	Fig. ET-1 Fig. EM-95
ST16610001 Pilot bush puller	 SE191	For removing the pilot bush.	All L-series	Fig. EM-56
ST07010000 Engine carrier	 SE275	For carrying the engine unit.	L24	Page EM-4
EG16700000 Flow meter	 SE198	For balancing the SU twin carburetor	SU carburetor	Fig. ET-21
*ST19810000 Hexagon wrench	 SE279	For removing and installing the rotor ring assembly	L24	Fig. EC-10

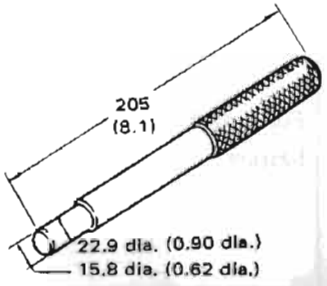
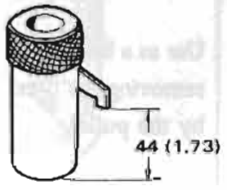
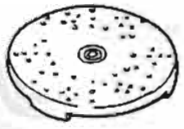
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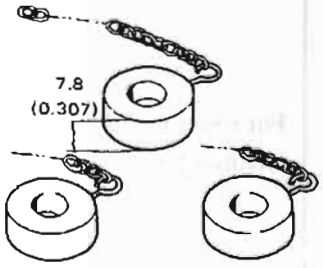
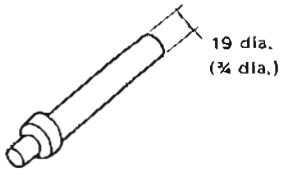
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*ST19820000 Support for disassembling rotor ring	 SE280	For supporting the rotor ring in case of needle bearing removal and installation	L24	Fig. EC-11
*ST19830000 Attachment for pushing out needle bearing	 SE281	For removing the needle bearing	L24	Fig. EC-11
*ST19840000 Attachment for pressing in needle bearing	 SE282	For installing the needle bearing	L24	Page EC-8
*ST19850000 Bridge for pulling out relief valve	 SE283	Use as a bridge for removing the relief valve by the puller	L24	Fig. EC-13
*ST19860000 Dummy shaft	 SE284	For assembling the vanes	L24	Fig. EC-15

Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
*ST19870000 Air pump test gauge adapter	 SE285	For checking the air pump performance	L24	Page ET-26 Page EC-10

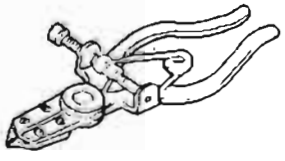
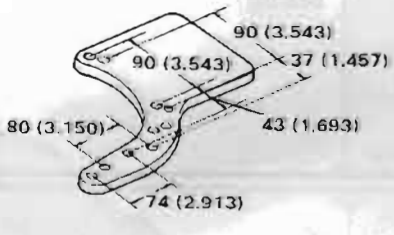
Mark * indicates the special tool for air pump.

Clutch

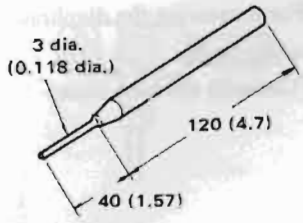
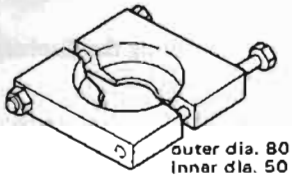
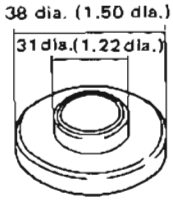
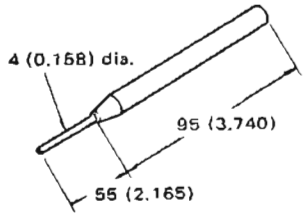
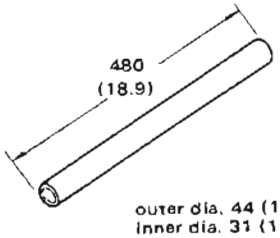
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST20630000 Clutch aligning bar		For centering the clutch disc	Fig. CL-13
ST20050220 Height gauge		For measuring the diaphragm spring height (Use with the base plate)	Fig. CL-6
ST20050010 Clutch assembly base plate		For measuring the diaphragm spring height (Use with the distance piece)	Fig. CL-5

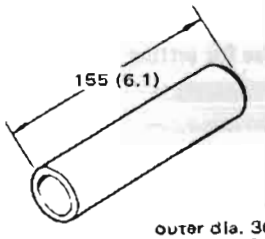
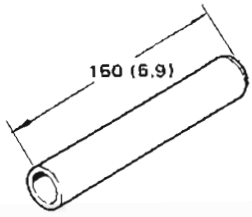
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST20050100 Clutch assembly distance piece		For measuring the diaphragm spring height (Use with the base plate)	Fig. CL-5
ST20050020 Clutch assembly center pole		For measuring the diaphragm spring height (Use with the height gauge)	Fig. CL-6

Manual transmission

ST23840000 Expander		For removal and assembly of the main drive bearing snap ring	Fig. TM-6 Fig. TM-41
ST23810001 Setting plate adapter		For setting the adapter plate in a vise. Newly established	Page TM-3 Page TM-9 Fig. TM-7 Fig. TM-29

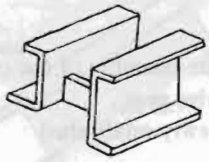
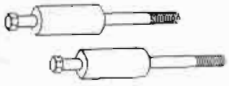
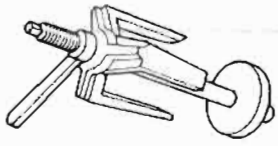
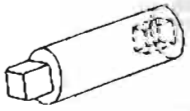
SERVICE EQUIPMENT

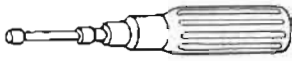
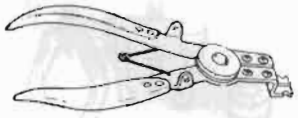
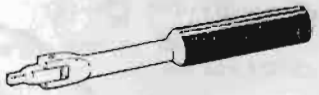
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST23500000 Fork rod pin punch	 SE035	For removal of the fork rod retaining pin	Page TM-3 Fig. TM-8
ST3003S000 (Former Tool No. ST30030000) Drive pinion bearing replacer	  SE041	For replacing the bearing	Page TM-6 Fig. TM-15 Fig. TM-16
ST23510000 Solid punch	 SE035	For removal of the cross shaft retaining pin	Page TM-7
ST23800000 Transmission adapter	 SE037	For assembly of the main bearing	Page TM-9 Page TM-10 Fig. TM-28

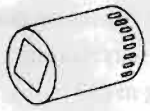
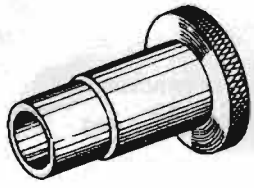
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST23860000 Counter gear drift	 outer dia. 36 (1.42) inner dia. 31 (1.22) SE039	For assembly of the counter drive gear Newly established	Page TM-10 Fig. TM-35
ST22360001 Drift C	 outer dia. 30 (1.18) inner dia. 21 (0.83) SE034	For assembly of the counter drive bearing Newly established	Page TM-11 Fig. TM-40

Automatic transmission

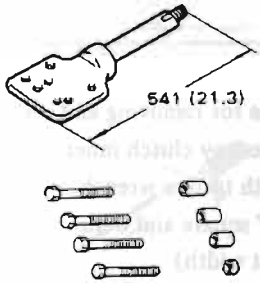
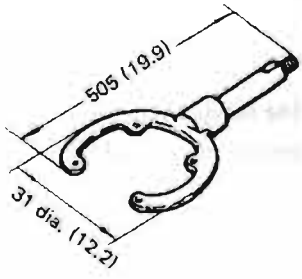
ST25050001 Oil pressure gauge set	 SE119	Use for checking hydraulic pressure	Fig. TM-76

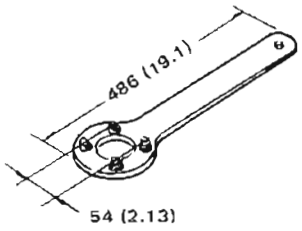
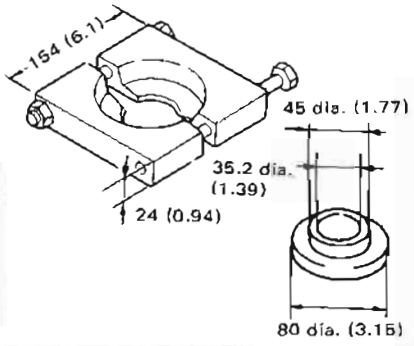
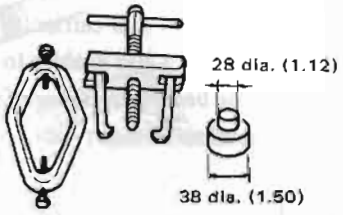
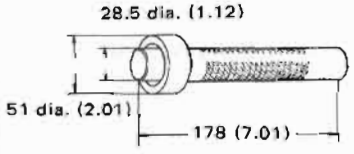
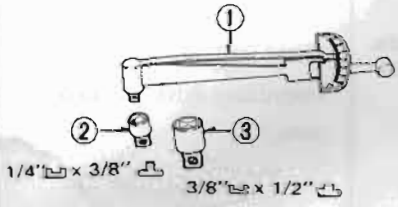
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST07870000 Transmission case stand	 SE120	Use for setting transmission	Fig. TM-82
ST25850000 Sliding hammers	 SE121	Use for removing oil pump	Fig. AT-56
ST25420001 (ST25420000) Clutch spring compressor	 SE122	Use for assembling or disassembling front and rear clutch	Fig. AT-79
GG93010000 Torque wrench	 SE123	Use for tightening correct torque max. torque: 4.6 kg-m (0.33 ft-lb) Drive angle 3/8" square	Fig. AT-69
ST25512001 Socket extension	 SE124	Socket extension to connect torque wrench (GG93010000) with ½" square socket wrench	Fig. AT-69

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST25160000 Torque driver	 SE125	Use for tightening correct torque max. torque: 1.04 kg-m (90 in-lb)	Page AT-47 Fig. AT-107 Fig. AT-108
HT69860000 Snap ring remover	 SE126	Use for removing and replacing snap ring	Fig. AT-59
ST25320001 Snap ring remover	 SE127	Use for removing and replacing snap ring	Fig. AT-79 Fig. AT-86
ST25570000 Hex head extension	 SE128	Use for removing and installing one-way clutch inner race with torque wrench. Drive angle ½" square and 6 mm (across flat width)	Page AT-43 Fig. AT-64
HT62350000 Spinner handle	 SE129	Use for disassembling and assembling control valve	Fig. AT-101 Fig. AT-104

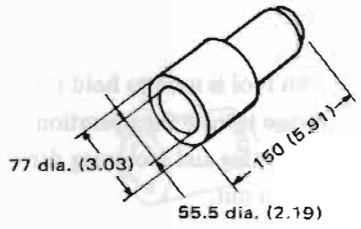
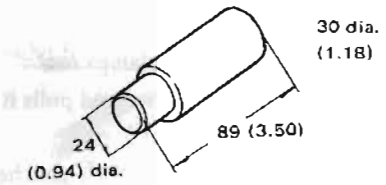
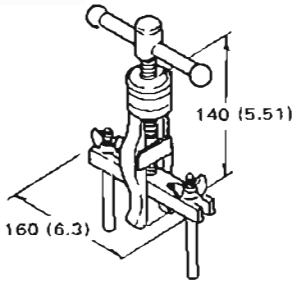
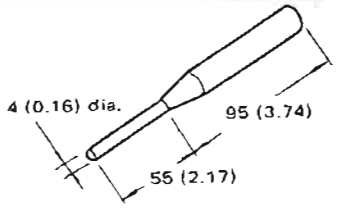
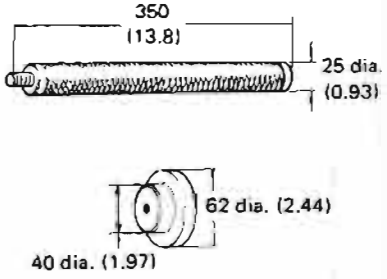
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
HT6100800 Hexagon wrench	 SE130	Use for disassembling and assembling control valve	Fig. AT-101 Fig. AT-104 Fig. AT-107 Fig. AT-108
ST25580000 Oil pump assembling gauge	 SE131	Use for centering oil pump	Page AT-45

Differential carrier

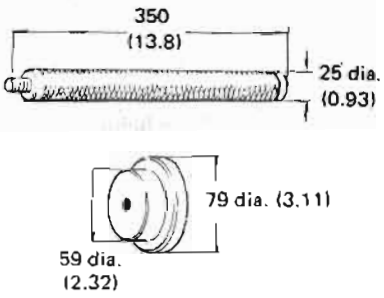
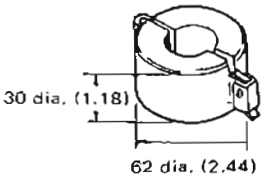
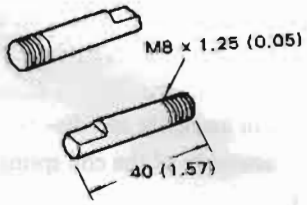
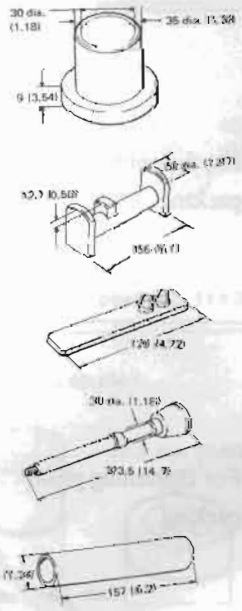
ST06270001 Gear carrier attachment		This tool is used for attaching gear carrier onto engine stand, to ease disassembly or reassembly.	Fig. PD-3
ST06310000 Gear carrier attachment		This tool is used for attaching gear carrier onto engine stand, to ease disassembly or reassembly.	

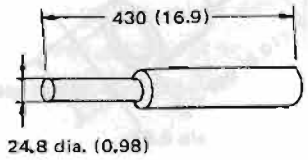
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST31530000 Drive pinion flange wrench		This tool is used to hold the flange to ease the operation of tightening and loosening drive pinion nut.	Fig. PD-8
ST3090S000 Drive pinion rear inner bearing puller assembly ST30031000 Puller ST30901000 Base		This assembly clamps rear bearing inner race and pulls it out by a hydraulic press. Before insertion, place another drift facing inner race, and then press-fit.	Page PD-8 Fig. PD-9 Fig. PD-20
ST3306S001 Diff. side bearing puller ST33051001 Body ST33061000 Adapter		This tool is used to pull out side bearing.	Fig. PD-10 Fig. PD-14
ST33230000 Diff. side bearing drift		Use of this tool makes it possible to drive in bearing without damaging it.	Fig. PD-14
ST3127S000 Preload gauge ① GG91030000 Torque wrench ② HT62940000 Socket adapter ③ HT62900000 Socket adapter		This tool is used to measure the preload of pinion bearing.	Fig. PD-16

SERVICE EQUIPMENT

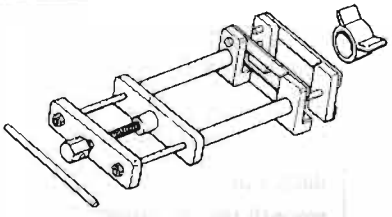
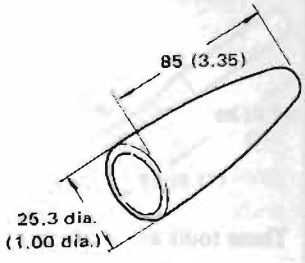
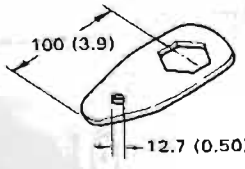
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST30720000 Gear carrier front oil seal drift		This tool is used to drive in front oil seal without damaging it.	Page PD-8
ST33710000 Gear carrier side retainer attachment		This tool is used to hold the puller drive shaft when removing side retainer by the puller.	Fig. PD-6
ST33290001 Gear carrier oil seal puller		This tool is used to pull out oil seal from gear carrier. This tool also enables to remove side bearing outer race from retainer without damaging.	Fig. PD-7
ST23510000 Solid punch		This tool is used to drive out lock pin of pinion mate shaft.	Page PD-5
Drive pinion outer race drift (Front) ST30611000 Bar ST30612000 Adapter		These tools are used when assembling drive pinion outer race.	Page PD-6

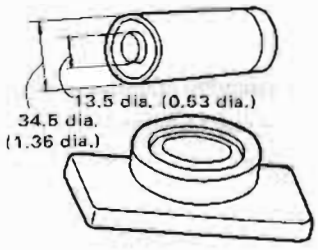
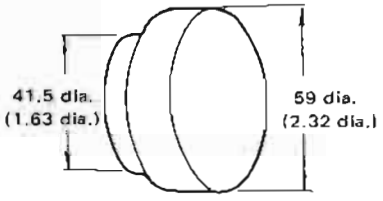
SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
(Rear) ST30611000 Bar ST30621000 Adapter			Page PD-6
ST33270000 Gear carrier oil seal drift		This tool is used when driving in oil seal. Using this drift completely eliminates the possibility of damaging.	Page PD-6
ST33720000 Gear carrier side retainer guide		This guide bolt is used when attaching retainer to gear carrier. Use of this tool prevents damaging O-ring and helps smooth the operation.	Fig. PD-26
Drive pinion setting gauge assembly ST31851000 Spacer ST31213000 Stopper ST31211000 Height gauge ST31212000 Dummy shaft ST31214000 Collar		These tools are used to adjust the pinion height.	Fig. PD-15 Fig. PD-17 Fig. PD-18

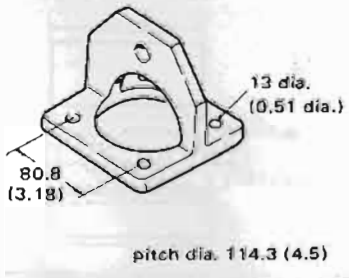
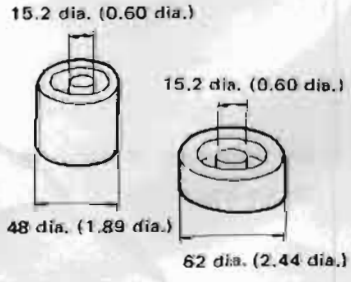
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST30650001 Pilot bearing drift		For use when pulling out front pilot bearing. After drive pinion has been pulled, insert this tool from behind the gear carrier case, and apply it onto pinion front bearing inner race, and then press out pinion front bearing inner race, front pilot bearing spacer and pilot bearing.	Page PD-5

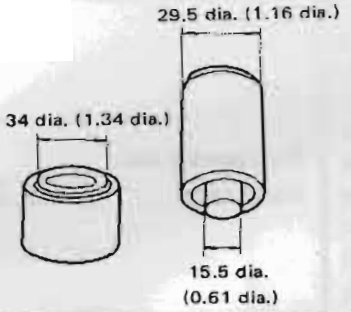
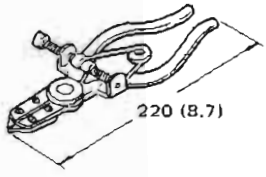
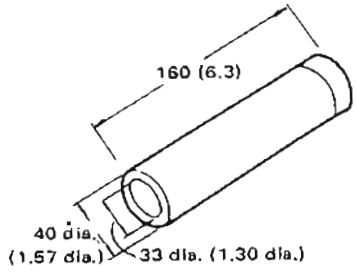
Front axle and suspension

ST3565S000 Coil spring compressor set		For assembly and disassembly of the coil spring	Fig. FA-30
ST35540000 Gland packing guide		For assembly of the gland packing	Fig. FA-35
ST35500001 Gland packing wrench		For tightening gland packing	Fig. FA-31 Fig. FA-37

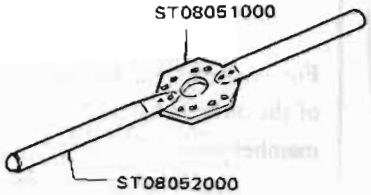
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST36710000 Front transverse link bushing replacer		For assembly and disassembly	Fig. FA-46
ST35300000 Front wheel bearing drift		For assembly of the front wheel bearing	Fig. FA-19

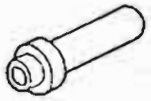
Rear axle and suspension

ST07640000 (ST46790000) Rear axle stand		For removal of the rear axle shaft (Use with sliding hammer)	Fig. RA-21 Fig. RA-22
ST33260000 (ST49150000) Differential mounting member insulator drift set		For assembly and disassembly of the differential mounting member insulator	Fig. RA-6

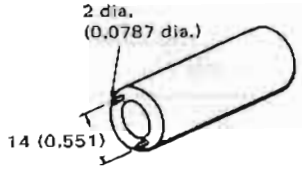
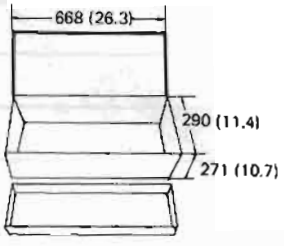
Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST38800000 Rear transverse link bushing replacer		For assembly and disassembly of the rear transverse link bushing	Fig. RA-5
ST38300000 (ST49210000) Drive shaft snap ring plier		For removal of the drive shaft snap ring	Page RA-11
ST37780000 Rear axle shaft outer bearing drift		For assembly of the rear wheel bearing (outer side)	Page RA-10

Master-vac

ST08050000 Master-Vac wrench set		For diassembly of the Master-Vac	Fig. BR-45

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST08060000 Press fit tool		For assembly of the front oil seal retainer	Fig. BR-53

Body electrical

ST08900001 Switch replacer		For assembly and disassembly of the push-pull switch	Fig. BE-31
		Tool box for special service tool set	

SERVICE JOURNAL OR BULLETIN REFERENCE

DATE	JOURNAL or BULLETIN No.	PAGE No.	SUBJECT