

SERVICE MANUAL

DATSUN 240Z
MODEL S30 SERIES



NISSAN

NISSAN MOTOR CO., LTD.
TOKYO, JAPAN

EQUIPMENT

SERVICE

SECTION SE

Refer to
page in
Figure No.

SERVICE EQUIPMENT

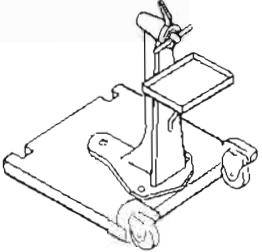
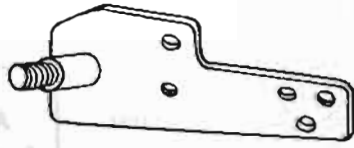
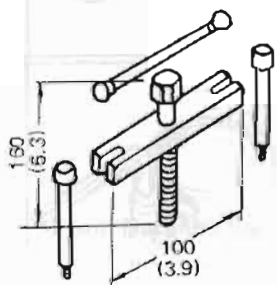
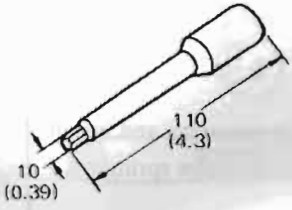
SPECIAL SERVICE TOOLS SE- 1

SE

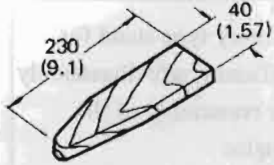
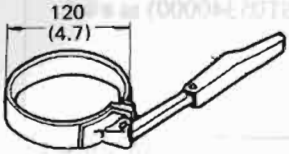
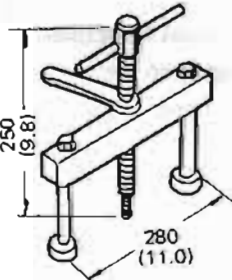
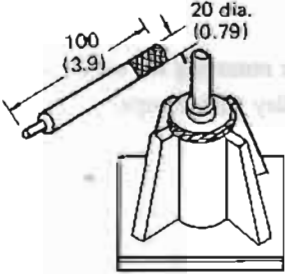
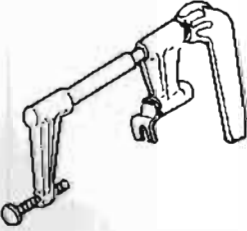
SERVICE EQUIPMENT

SPECIAL SERVICE TOOLS

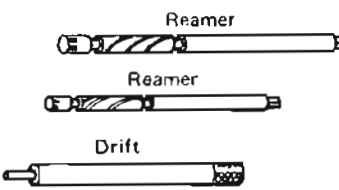
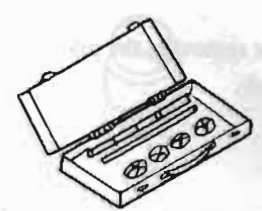
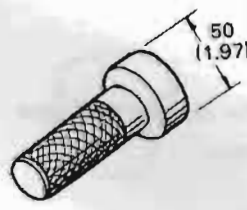
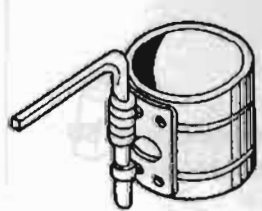
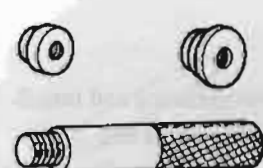
Engine

Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
ST0501S000 Engine stand assembly ST05011000 Stand ST05012000 Base	 <p style="text-align: right;">SE 184</p>	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	 <p style="text-align: right;">SE 276</p>	Attachment for setting the engine on the engine stand	L24	Fig. EM-10 Page EM-26
ST16540000 Crank pulley puller	 <p style="text-align: right;">SE 277</p>	For removing the crank pulley with damper	L24	Fig. EM-11
ST10120000 Cylinder head bolt wrench	 <p style="text-align: right;">SE 186</p>	For removing and installing the cylinder head bolts	All L-series	Fig. EM-13 Fig. EM-86



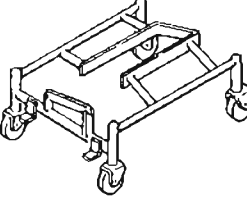
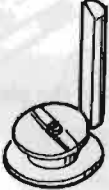

SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
ST17420001 Chain stopper	 <p style="text-align: center;">SE195</p>	For supporting the timing chain	All L-series	Fig. EM-12 Fig. EM-13
ST19320000 Oil filter wrench	 <p style="text-align: center;">SE197</p>	For removing the oil filter	All	Page ET-2 Page EM-4
ST1651S000 Crankshaft main bearing cap puller assembly ST16511000 Puller body ST16512001 Adapter	 <p style="text-align: center;">SE190</p>	For removing the rear main bearing cap	All L-series	Fig. EM-17
ST13030001 Piston pin press stand	 <p style="text-align: center;">SE188</p>	For removing and installing the piston pin	All L-series	Fig. EM-21 Fig. EM-73
ST12070000 Valve lifter	 <p style="text-align: center;">SE194</p>	For removing and installing the valve springs	All	Fig. EM-24 Fig. EM-71


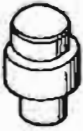
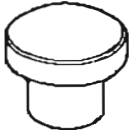
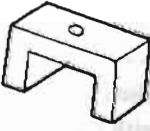

SERVICE EQUIPMENT

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	 <p style="text-align: center;">SE192</p>	For replacing and correcting the valve guide	All L-series	Fig. EM-34
ST11650001 Valve seat cutter set	 <p style="text-align: center;">SE193</p>	For correcting the valve seat insert	All L-series	Fig. EM-35
ST15310000 Crankshaft rear oil seal drift	 <p style="text-align: center;">SE189</p>	For installing the crank- shaft rear oil seal	All L-series	Page EM-28
EM03470000 Piston ring compressor	 <p style="text-align: center;">SE199</p>	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	 <p style="text-align: center;">SE278</p>	For replacing the front oil seal	L24	Page EM-24

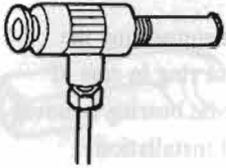
SERVICE EQUIPMENT

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

SERVICE EQUIPMENT

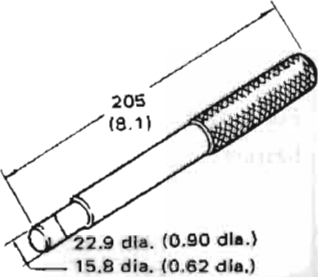
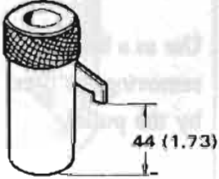
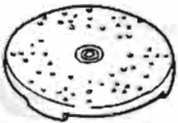
Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
<p>*ST19820000</p> <p>Support for disassembling rotor ring</p>	 <p style="text-align: right;">SE280</p>	<p>For supporting the rotor ring in case of needle bearing removal and installation</p>	<p>L24</p>	<p>Fig. EC-11</p>
<p>*ST19830000</p> <p>Attachment for pushing out needle bearing</p>	 <p style="text-align: right;">SE281</p>	<p>For removing the needle bearing</p>	<p>L24</p>	<p>Fig. EC-11</p>
<p>*ST19840000</p> <p>Attachment for pressing in needle bearing</p>	 <p style="text-align: right;">SE282</p>	<p>For installing the needle bearing</p>	<p>L24</p>	<p>Page EC-8</p>
<p>*ST19850000</p> <p>Bridge for pulling out relief valve</p>	 <p style="text-align: right;">SE283</p>	<p>Use as a bridge for removing the relief valve by the puller</p>	<p>L24</p>	<p>Fig. EC-13</p>
<p>*ST19860000</p> <p>Dummy shaft</p>	 <p style="text-align: right;">SE284</p>	<p>For assembling the vanes</p>	<p>L24</p>	<p>Fig. EC-15</p>

SERVICE EQUIPMENT

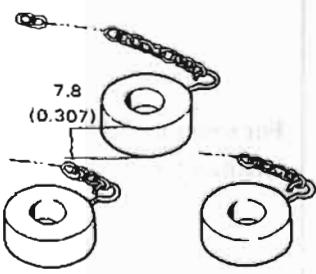
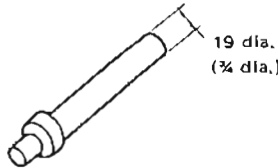
Tool number & Tool name	Figure Unit: mm (in)	Description	Applied model	Reference page or Figure No.
*ST19870000 Air pump test gauge adapter	 <p style="text-align: right;">SE285</p>	For checking the air pump performance	L24	Page ET-26 Page EC-10

Mark * indicates the special tool for air pump.

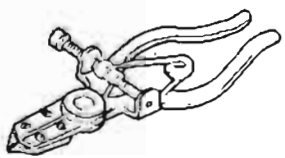
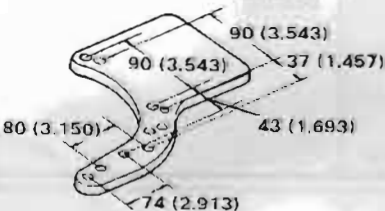
Clutch

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

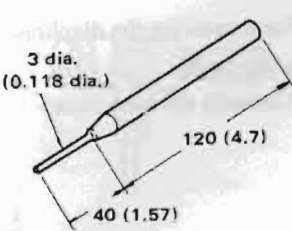
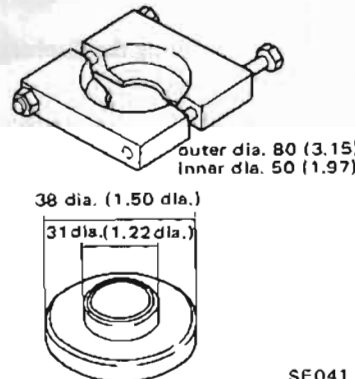
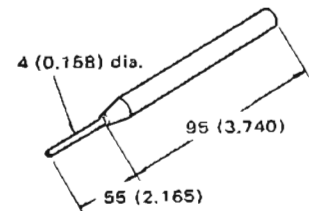
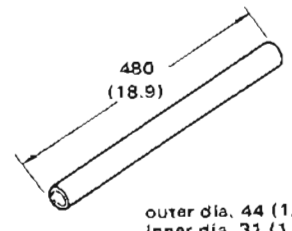
SERVICE EQUIPMENT

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

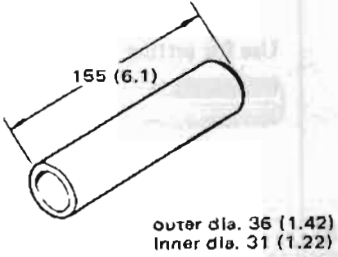
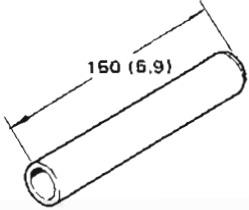
Manual transmission

ST23840000 Expander	 <p style="text-align: center;">SE099</p>	For removal and assembly of the main drive bearing snap ring	Fig. TM-6 Fig. TM-41
ST23810001 Setting plate adapter	 <p style="text-align: center;">SE132</p>	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.
<p>ST23500000</p> <p>Fork rod pin punch</p>	 <p style="text-align: center;">SE035</p>	<p>For removal of the fork rod retaining pin</p>	<p>Page TM-3 Fig. TM-8</p>
<p>ST3003S000 (Former Tool No. ST30030000)</p> <p>Drive pinion bearing replacer</p>	 <p style="text-align: center;">SE041</p>	<p>For replacing the bearing</p>	<p>Page TM-6 Fig. TM-15 Fig. TM-16</p>
<p>ST23510000</p> <p>Solid punch</p>	 <p style="text-align: center;">SE035</p>	<p>For removal of the cross shaft retaining pin</p>	<p>Page TM-7</p>
<p>ST23800000</p> <p>Transmission adapter</p>	 <p style="text-align: center;">SE037</p>	<p>For assembly of the main bearing</p>	<p>Page TM-9 Page TM-10 Fig. TM-28</p>

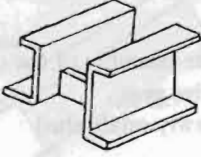
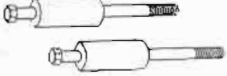
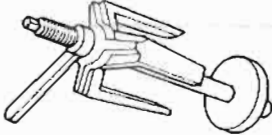

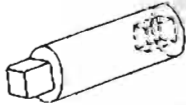
SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
ST23860000 Counter gear drift	 <p style="text-align: center;">155 (6.1)</p> <p style="text-align: center;">outer dia. 36 (1.42) inner dia. 31 (1.22)</p> <p style="text-align: right;">SE039</p>	For assembly of the counter drive gear Newly established	Page TM-10 Fig. TM-35
ST22360001 Drift C	 <p style="text-align: center;">160 (6.9)</p> <p style="text-align: center;">outer dia. 30 (1.18) inner dia. 21 (0.83)</p> <p style="text-align: right;">SE034</p>	For assembly of the counter drive bearing Newly established	Page TM-11 Fig. TM-40



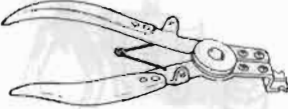


Automatic transmission

ST25050001 Oil pressure gauge set	 <p style="text-align: right;">SE119</p>	Use for checking hydraulic pressure	Fig. TM-76
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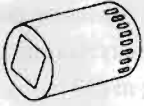
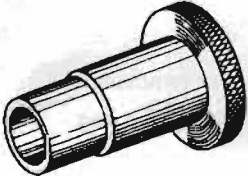
SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
<p>ST07870000</p> <p>Transmission case stand</p>	 <p style="text-align: right;">SE120</p>	<p>Use for setting transmission</p>	<p>Fig. TM-82</p>
<p>ST25850000</p> <p>Sliding hammers</p>	 <p style="text-align: right;">SE121</p>	<p>Use for removing oil pump</p>	<p>Fig. AT-56</p>
<p>ST25420001 (ST25420000)</p> <p>Clutch spring compressor</p>	 <p style="text-align: right;">SE122</p>	<p>Use for assembling or disassembling front and rear clutch</p>	<p>Fig. AT-79</p>
<p>GG93010000</p> <p>Torque wrench</p>	 <p style="text-align: right;">SE123</p>	<p>Use for tightening correct torque max. torque: 4.6 kg-m (0.33 ft-lb) Drive angle 3/8" square</p>	<p>Fig. AT-69</p>
<p>ST25512001</p> <p>Socket extension</p>	 <p style="text-align: right;">SE124</p>	<p>Socket extension to connect torque wrench (GG93010000) with 1/2" square socket wrench</p>	<p>Fig. AT-69</p>

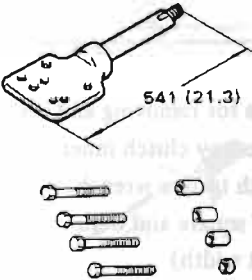
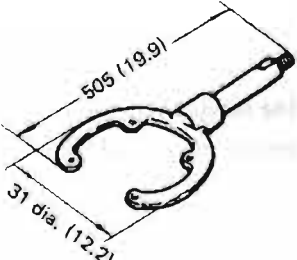
SERVICE EQUIPMENT

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

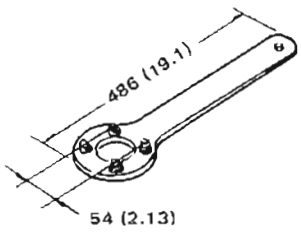
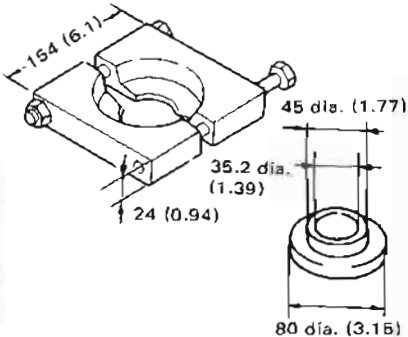
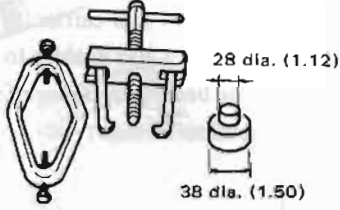
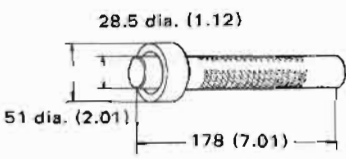
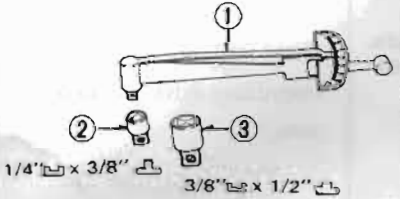
SERVICE EQUIPMENT

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

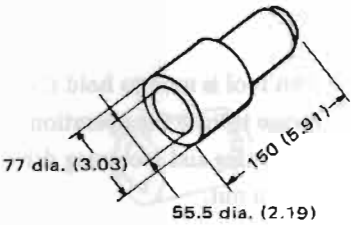
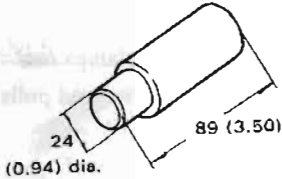
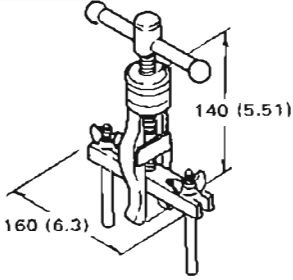
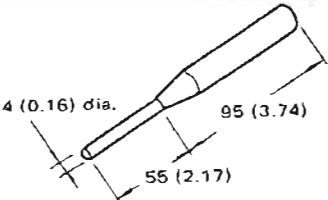
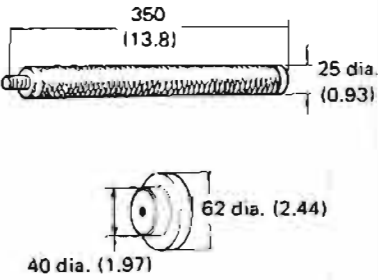
Differential carrier

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.	

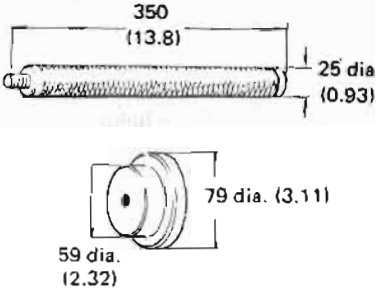
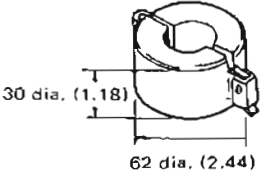
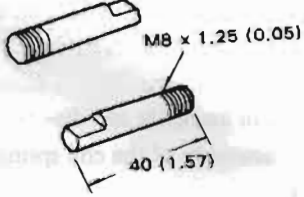
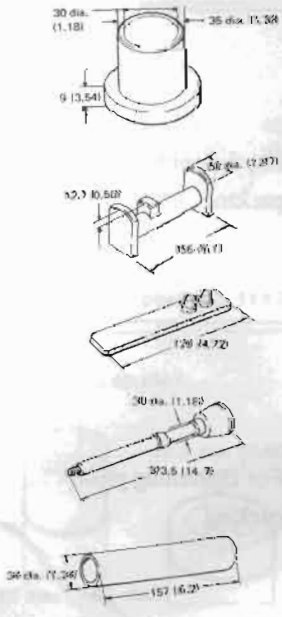
SERVICE EQUIPMENT

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

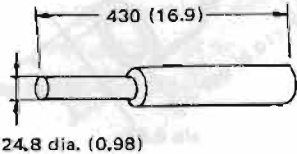
SERVICE EQUIPMENT

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

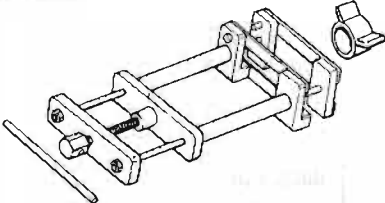
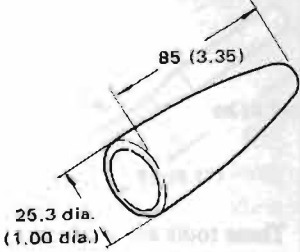
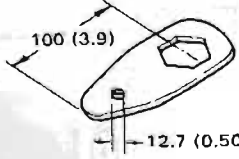
SERVICE EQUIPMENT

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


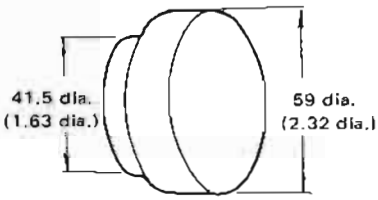
SERVICE EQUIPMENT

Tool number & Tool name	Figure Unit: mm (in)	Description	Reference page or Figure No.
<p>ST30650001</p> <p>Pilot bearing drift</p>	 <p>430 (16.9)</p> <p>24.8 dia. (0.98)</p>	<p>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.</p>	<p>Page PD-5</p>

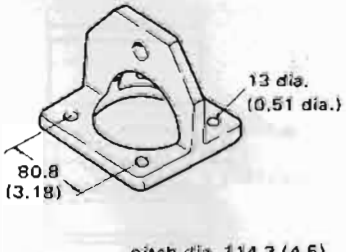
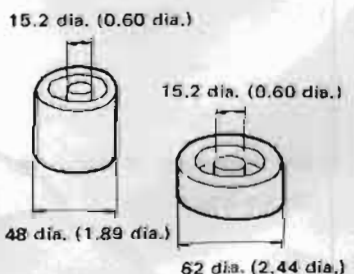
Front axle and suspension

<p>ST3565S000</p> <p>Coil spring compressor set</p>	 <p>Coil spring max. dia. 165 (6.5) Stroke 50 to 239 (1.97 to 9.4)</p>	<p>For assembly and dis-assembly of the coil spring</p>	<p>Fig. FA-30</p>
<p>ST35540000</p> <p>Gland packing guide</p>	 <p>85 (3.35)</p> <p>25.3 dia. (1.00 dia.)</p>	<p>For assembly of the gland packing</p>	<p>Fig. FA-35</p>
<p>ST35500001</p> <p>Gland packing wrench</p>	 <p>100 (3.9)</p> <p>12.7 (0.50)</p> <p>width across flats: 55 (2.17)</p>	<p>For tightening gland packing</p>	<p>Fig. FA-31 Fig. FA-37</p>


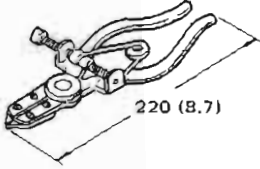
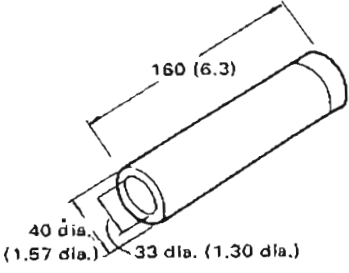
SERVICE EQUIPMENT

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

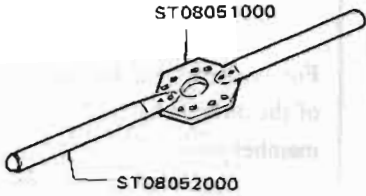
Rear axle and suspension

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 mount- ing member insulator drift set		For assembly and disassembly of the differential mounting member insulator	Fig. RA-6

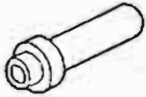
SERVICE EQUIPMENT

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

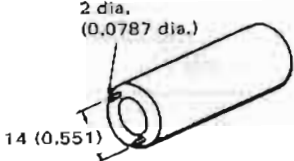
Master-vac

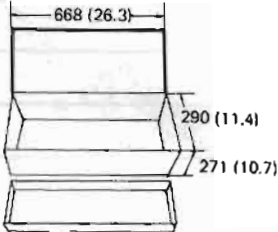
<p>ST08050000</p> <p>Master-Vac wrench set</p>		<p>For disassembly of the Master-Vac</p>	<p>Fig. BR-45</p>
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SERVICE EQUIPMENT

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
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		Tool box for special service tool set	
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SERVICE EQUIPMENT

SERVICE JOURNAL OR BULLETIN REFERENCE

DATE	JOURNAL or BULLETIN No.	PAGE No.	SUBJECT