

DATSUN 280Z  
MODEL S30 SERIES

## SECTION SE

# SERVICE EQUIPMENT



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SE



**NISSAN MOTOR CO., LTD.**  
TOKYO, JAPAN

## SERVICE EQUIPMENT

### GENERAL DESCRIPTION

Special Tools play very important role in the maintenance of cars. These are essential to the safe, accurate and speedy servicing.

The working times listed in the column under FLAT RATE TIME in FLAT RATE SCHEDULE are computed based on the use of Special Tools.

The identification code of maintenance tools is made up of 2 alphabetical letters and 8-digital figures.

The heading two letters roughly classifies tools or equipments as:

|             |                                     |
|-------------|-------------------------------------|
| ST00000000: | Special Tool                        |
| KV00000000: | Special Tool<br>(Newly established) |
| EM00000000: | Engine Overhauling<br>Machine       |
| GG00000000: | General Gauge                       |
| LM00000000: | Garage Tool                         |
| HT00000000: | Hand Tool                           |

### HOW TO READ SPECIAL TOOL LIST

#### APPLIED CAR OR UNIT

In this column word "All" is given for tools applicable to all car models and unit types treated in this manual; for tools applicable only to particular models or units, those car models or unit types are indicated.

#### NEWLY ADDED

"X" put in this column shows newly added tools.

#### CLASS

Indicated in this column are classification figures in accordance with "Classification of Special Tool".

#### REMARKS

As regards special tools which are also applicable to models or units other than those dealt with in this manual, this column names those other models or units.

### SPECIAL TOOL SET (See attached tool list)

#### SET '75 S30 NA KV00100500

Those tools including in "Set '75 S30NA KV00100500" are offered for the S30 models without regard to their destination.

#### SET 3N71B KV00101000

This set is designed for use on the 3N71B automatic transmission. It consists of the same service tools as those previously available separately.

The set is available for new and other dealers who must go through initial preparation.

#### CLASSIFICATION OF SPECIAL TOOL

|                                       | Classification |         |
|---------------------------------------|----------------|---------|
|                                       | Important      | General |
| I. Inspection and minor repairs       | 1              | 4       |
| II. General disassembly and assembly  | 2              | 5       |
| III. Special disassembly and assembly | 3              | 6       |

##### A. Important

- Exclusive with no alternative
- Parts will be damaged if repaired without special tool.
- Gauges

##### B. General

To facilitate servicing

- Inspection and minor repairs
  - Inspection and maintenance
  - Unit replacement
  - Minor unit disassembly

II. General disassembly and assembly  
General disassembly such as engine, transmission and differential

- Special disassembly and assembly
  - Disassembly of exclusive parts such as automatic transmission and electrical accessories
  - Special work such as boring and welding
  - Work very rarely required.

## SPECIAL TOOL LIST

## 1. Engine Tool

| No. | Tool number                                                | Tool name                                                                                               | Applied car or unit | Newly added | Class  | Remarks |
|-----|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|-------------|--------|---------|
|     | ST0501S000<br>└ ST05011000<br>└ ST05012000                 | Engine stand assembly<br>Engine stand<br>Base                                                           | All                 |             | 5      |         |
|     | ST05340000                                                 | Engine attachment                                                                                       | All                 |             | 5      |         |
|     | ST16540000                                                 | Crank pulley puller                                                                                     | All                 |             | 2      |         |
|     | ST10120000                                                 | Cylinder head bolt wrench                                                                               | All                 |             | 2      |         |
|     | ST17420001                                                 | Chain stopper                                                                                           | All                 |             | 2      |         |
|     | ST19320000                                                 | Oil filter wrench                                                                                       | All                 |             | 1      |         |
|     | ST1651S000<br>└ ST16511000<br>└ ST16512001                 | Crankshaft main bearing cup puller<br>Puller body<br>Adapter                                            | All                 |             | 3<br>2 |         |
|     | ST13030001                                                 | Piston pin press stand                                                                                  | All                 |             | 2      |         |
|     | ST12070000                                                 | Valve lifter                                                                                            | All                 |             | 5      |         |
|     | ST1103S000<br>└ ST11031000<br>└ ST11032000<br>└ ST11033000 | Valve guide reamer set<br>Reamer [12.2 mm (0.480 in) dia.]<br>Reamer [8.0 mm (0.3150 in) dia.]<br>Drift | All                 |             | 3      |         |
|     | ST11650001                                                 | Valve seat cutter set                                                                                   | All                 |             | 2      |         |
|     | ST15310000                                                 | Crankshaft rear oil seal drift                                                                          | All                 |             | 2      |         |
|     | EM03470000                                                 | Piston ring compressor                                                                                  | All                 |             | 2      |         |
|     | ST1524S000<br>└ ST15241000<br>└ ST15242000<br>└ ST15243000 | Front oil seal drift set<br>Drift (press in)<br>Drift (press out)<br>Drift bar                          | All                 |             | 2      |         |
|     | ST10640001                                                 | Pivot adjuster                                                                                          | All                 |             | 1      |         |
|     | ST16610001                                                 | Pilot bushing puller                                                                                    | All                 |             | 5      |         |
|     | ST07010000                                                 | Engine carrier                                                                                          | All                 |             |        |         |

## 2. Chassis &amp; Body Tool

| No. | Tool number          | Tool name                                       | Applied car or unit | Set '75 S30NA KV00100500 | Newly added | Class | Remarks |
|-----|----------------------|-------------------------------------------------|---------------------|--------------------------|-------------|-------|---------|
| 1.  | CLUTCH               |                                                 |                     |                          |             |       |         |
|     | ST16610001           | Pilot bushing puller                            | All                 | X                        |             | 4     |         |
|     | ST20050010           | Clutch assembly base plate                      | All                 | X                        |             | 4     |         |
|     | ST20050051           | Set bolt                                        | All                 | X                        |             | 4     |         |
|     | ST20050100           | Clutch assembly distance piece                  | All                 | X                        |             | 4     |         |
|     | ST20050220           | Height gauge                                    | All                 | X                        |             | 4     |         |
|     | ST20050240           | Diaphragm spring adjusting wrench               | All                 | X                        |             | 4     |         |
|     | ST20630000           | Clutch aligning bar                             | All                 | X                        |             | 2     |         |
|     | GG94310000           | Brake pipe torque wrench                        | All                 | X                        |             | 2     |         |
|     |                      |                                                 |                     |                          |             |       |         |
| 2.  | MANUAL TRANSMISSION  |                                                 |                     |                          |             |       |         |
|     | ST22360001           | Drift C                                         | All                 | X                        |             | 2     |         |
|     | ST22460001           | Mainshaft overdrive bearing puller              | All                 | X                        |             | 2     |         |
|     | ST23540000           | Fork rod pin punch                              | All                 | X                        |             | 2     |         |
|     | ST23800000           | Transmission adapter                            | All                 | X                        |             | 2     |         |
|     | ST23810001           | Setting plate adapter                           | All                 | X                        |             | 2     |         |
|     | ST23840000           | Expander                                        | All                 | X                        |             | 5     |         |
|     | ST23860000           | Counter gear drift                              | All                 | X                        |             | 2     |         |
|     | ST23870000           | Transmission press stand                        | All                 | X                        |             | 2     |         |
|     | ST30035000           | Drive pinion bearing replacer                   | All                 | X                        |             | 2     |         |
|     |                      |                                                 |                     |                          |             |       |         |
|     |                      |                                                 |                     |                          |             |       |         |
|     |                      |                                                 |                     |                          |             |       |         |
|     |                      |                                                 |                     |                          |             |       |         |
| 3.  | DIFFERENTIAL CARRIER |                                                 |                     |                          |             |       |         |
|     | ST06270002           | Gear carrier attachment                         | All                 | X                        |             | 5     |         |
|     | ST23550001           | Solid punch                                     | All                 | X                        |             | 2     |         |
|     | ST30611000           | Drive pinion outer race drift bar set           | All                 | X                        |             | 2     |         |
|     | └ ST30613000         | Adapter (for Front)                             |                     |                          |             |       |         |
|     | └ ST30621000         | Adapter (for Rear)                              |                     |                          |             |       |         |
|     | ST30905000           | Drive pinion rear bearing inner race puller set | All                 | X                        |             | 2     |         |
|     | └ ST30031000         | Puller                                          |                     |                          |             |       |         |
|     | └ ST30901000         | Base                                            |                     |                          |             |       |         |
|     | ST31275000           | Preload gauge                                   | All                 | X                        |             | 2     |         |
|     | └ GG91030000         | Torque wrench                                   |                     |                          |             |       |         |
|     | └ HT62940000         | Socket adapter (1/4" 14 x 3/8" 14)              |                     |                          |             |       |         |
|     | └ HT62900000         | Socket adapter (3/8" 14 x 1/2" 14)              |                     |                          |             |       |         |
|     | ST31530000           | Drive pinion flange wrench                      | All                 | X                        |             | 2     |         |
|     | ST33065001           | Diff. side bearing puller set                   | All                 | X                        |             | 2     |         |
|     | └ ST33051001         | Body                                            |                     |                          |             |       |         |
|     | └ ST33061000         | Adapter                                         |                     |                          |             |       |         |
|     | ST33290001           | Gear carrier oil seal puller                    | All                 | X                        |             | 5     |         |

# Service Equipment

| No. | Tool number               | Tool name                                        | Applied car or unit | Set '75 S30NA KV00100500 | Newly added | Class | Remarks                          |
|-----|---------------------------|--------------------------------------------------|---------------------|--------------------------|-------------|-------|----------------------------------|
| 4.  | KV38100150                | Drive pinion setting gauge set                   | All                 | X                        |             | 2     |                                  |
|     | — KV38100110              | — Dummy shaft                                    |                     |                          |             |       |                                  |
|     | — KV38100120              | — Height gauge                                   |                     |                          |             |       |                                  |
|     | — KV38100130              | — Collar                                         |                     |                          |             |       |                                  |
|     | — KV38100140              | — Stopper                                        |                     |                          |             |       |                                  |
|     | KV38100200                | Gear carrier side oil seal drift                 | All                 | X                        |             | 2     |                                  |
|     | KV38100300                | Diff. side bearing drift                         | All                 | X                        |             | 2     |                                  |
| 5.  | KV38100401                | Pilot bearing drift                              | All                 | X                        |             | 2     |                                  |
|     | KV38100500                | Gear carrier front oil seal drift                | All                 | X                        |             | 2     |                                  |
|     | KV38100600                | Side bearing spacer drift                        | All                 | X                        |             | 2     |                                  |
|     | HT72400000                | Slide hammer                                     |                     |                          |             |       |                                  |
|     | FRONT AXLE AND SUSPENSION |                                                  |                     |                          |             |       |                                  |
|     | ST35300000                | Front wheel bearing drift                        | All                 | X                        |             | 3     |                                  |
|     | KV40100800                | Gland packing wrench                             | All                 | X                        |             | 2     |                                  |
| 6.  | ST35540000                | Gland packing guide                              | All                 | X                        |             | 2     |                                  |
|     | ST35650000                | Coil spring compressor set                       | All                 | X                        |             | 2     |                                  |
|     | ST36710000                | Front transverse link bushing replacer           | All                 | X                        |             | 3     |                                  |
|     | REAR AXLE AND SUSPENSION  |                                                  |                     |                          |             |       |                                  |
|     | ST07640000                | Rear axle stand                                  | All                 | X                        |             | 2     |                                  |
|     | ST33260000                | Differential mounting member insulator drift set | All                 | X                        |             | 3     |                                  |
|     | ST36230000                | Sliding hammer                                   | All                 | X                        |             | 5     |                                  |
| 7.  | ST37780000                | Rear axle shaft outer bearing drift              | All                 | X                        |             | 5     |                                  |
|     | ST38300000                | Drive shaft snap ring plier                      | All                 | X                        |             | 5     |                                  |
|     | ST38800000                | Rear transverse link bushing replacer            | All                 | X                        |             | 3     |                                  |
|     | STEERING                  |                                                  |                     |                          |             |       |                                  |
|     | ST27180001                | Steering wheel puller                            | All                 | X                        |             | 2     |                                  |
|     | ST28750000                | Steering ball joint puller                       | All                 | X                        |             | 2     |                                  |
|     | BRAKE                     |                                                  |                     |                          |             |       |                                  |
| 8.  | ST08090000                | Press fit tool                                   | All                 | X                        |             | 3     | For 228.6 mm (9 in) Master-Vac   |
|     | ST08060000                | Press fit tool                                   | All                 | X                        |             | 3     | For 190.5 mm (7.5 in) Master-Vac |
|     | ST08080000                | Master-Vac wrench set                            | All                 | X                        |             | 3     |                                  |
|     | GG94310000                | Brake pipe torque wrench                         | All                 | X                        |             | 2     |                                  |

## 3. Automatic Transmission Tool

| No. | Tool number | Tool name                 | Applied car<br>or unit | Set 3N71B<br>KV00101000 | Newly added | Class | Remarks |
|-----|-------------|---------------------------|------------------------|-------------------------|-------------|-------|---------|
|     | ST2505S001  | Oil pressure gauge set    | All                    | X                       |             | 1     |         |
|     | ST07870000  | Transmission case stand   | All                    | X                       |             | 3     |         |
|     | ST25850000  | Sliding hammers           | All                    | X                       |             | 3     |         |
|     | ST25420001  | Clutch spring compressor  | All                    | X                       |             | 3     |         |
|     | GG91060000  | Torque wrench             | All                    | X                       |             | 3     |         |
|     | ST25490000  | Socket extension          | All                    | X                       |             | 3     |         |
|     | ST25160000  | Torque driver             | All                    | X                       |             | 3     |         |
|     | HT69860000  | Snap ring remover         | All                    | X                       |             | 3     |         |
|     | ST25320001  | Snap ring remover         | All                    | X                       |             | 3     |         |
|     | ST25570001  | Hex. head extension       | All                    | X                       |             | 3     |         |
|     | HT62350000  | Spinner handle            | All                    | X                       |             | 6     |         |
|     | HT61000800  | Hexagon wrench            | All                    | X                       |             | 3     |         |
|     | ST25580000  | Oil pump assembling gauge | All                    | X                       |             | 3     |         |