Thirty one new tools have been developed for the All New S40, Model Year 2004.5. The new tools will also apply to the V50 which will be introduced later this year. All tools have been classified as mandatory and will be allocated by SPX in two shipments during February and March 2004.

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9512896 Hose
Hose for draining fuel from the fuel tank via the tank filler pipe.
This hose is specially developed for insertion in the tank filler pipe and passes through the "Spitback" valve.
Used together with approved fuel draining equipment for fuel driven cars, protective pipe 9512908 and quick release connector 9512909.

Tool Board Location
Tool Group: 23 (Engine)
Hook: 22

9512897 Jaw
These jaws are used for R&I of rear springs on the new S40 and V50. Packed in pairs, the Jaws are used with hydraulic spring compressor 9512911 and hydraulic press tool kit 9512564 (See Special Tool Bulletin 96 and 96-C).
The jaws come with 2 protective inserts, necessary to prevent damage to the special anti-rust coating on the springs. These inserts have the same specifications as Klann Insert KL-1503-S.

Note! These jaws replace earlier jaws 951 2897. Jaws 9512897 are necessary to carry out the method correctly.
9512899 C EM-Adapter
Breakout box adapter for fault-tracing in the central electronic module (CEM). 256 pins divided on 8 connectors.

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255

9512900 DDM/PDM-Adapter
Breakout box adapter for fault-tracing the driver's door and passenger door control modules (DDM/PDM).

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255

9512901 DIM/ICM-Adapter
Breakout box adapter for fault-tracing in the driver information module (DIM) and "infotainment" control module (ICM).

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255
9512902 ECM-Adapter
Breakout box adapter and cover plate for fault-tracing in the engine control module (ECM).
The cover plate seals against the air intake and prevents dirt and dust from entering when fault-tracing.
The cover plate is also available as replacement part 9989778.

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255

9989778 Cover Plate
Replacement part; Cover plate for ECM-adapter 9512902.

9512903 SRS-Connector
Connector when fault-tracing the cable harness for the supplemental restraint system (SRS).

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255
9512904 TCM-Adapter
Breakout box adapter for fault-tracing in the transmission control module (TCM).

Tool Board Location
Electronic Tool Storage Cabinet,
Part # 9512255

9512908 Protective Pipe
Used as protection to prevent hose 9512896 getting trapped when installing and removing the tank filler pipe.
Used together with hose 9512896.

Tool Board Location
Tool Group: 23 (Engine)
Hook: 01

9512909 Quick-release Connector
Used as quick-release connector between approved gasoline draining equipment and hose 9512896.

Tool Board Location
Tool Group: 23 (Engine)
Hook: 01
9512945 Puller
For removing the tie rod/ball joint from the wheel spindle.

Tool Board Location
Tool Group: 61 (Wheels, Suspension)
Hook: 80

9512955 Cover
This cover connects to the cooling system expansion tank and is used together with coolant filler 9512957.
The cover is also used when pressurizing the cooling system.

Tool Board Location
Tool Group: 26 (Engine)
Hook: 22

9512957 Coolant Filler
When filling coolant in the cooling system.
The vacuum based coolant filling tool is necessary for complete bleeding of the cooling system. The tool also reduces coolant filling time.
Use with cap 9512955.

Tool Board Location
Tool Group: 26 (Engine)
Hook: 24 x 2
9512958 BCM-Adapter
Breakout box adapter for fault-tracing brake control module (BCM).

Tool Board Location
Electronic Tool Storage Cabinet, Part # 9512255

9997089 Expander
To expand the mounting in the spindle housing when removing and installing the front shock absorbers.

Tool Board Location
Tool Group: 61 (Wheels, Suspension)  
Hook: 81

9997089 Adjustment Tool
The adjustment tools are used to align the subframe to the correct position when installing the subframe.
2 tools are required for each method.

Tool Board Location
Tool Group: 21 (Engine)  
Hook: 20
9997090 Press Tool
For removing and installing the front wheel bearings in the wheel spindle.
Used together with hydraulic press.

Tool Board Location
Tool Group: 77 (Wheels, Suspension)
Hook: 03, 21, 22

9997091 Wrench
To reset the rear brake caliper pistons when replacing the rear brake shoes. Used together with press tool 9995782.
The existing "wrench" is removed from existing tool 9995782 and replaced with 9997091.

Note! The existing wrench is locked in press tool 9995782 using locking fluid.

Tool Board Location
Tool Group: 50 (Brakes)
Hook: 21

9997093 Wrench
Used when removing and installing the fuel pump (FP)/level sensor nut on the fuel tank.

Tool Board Location
Tool Group: 23 (Engine)
Hook: 21
9997101  Mounting
Used together with fixture 9995463 and 9995972 when removing and installing automatic transmission AW55-50.

Tool Board Location
Tool Group: 43 (Transmission)
Hook: 02

9997102 Lifting Yoke
The lifting yoke is used at the rear edge of the engine, for example, when removing and installing transmissions.
The lifting yoke is necessary to keep the engine at the correct position and balance.
Used together with lifting beam 9997103.

Tool Board Location
Tool Group: 21 (Engine)
Hook: 20 (2x)

9997103 Lifting Beam
Used to hold the engine, for example, when removing and installing the transmission and timing belt.
Store on Tool Trolley 9512829
9997104 Clamp Ring
The clamp ring is used together with measuring tool kit 9995418B and holder dial test indicator 9995773B when measuring the runout on the brake discs.
The tool must be stored in the storage box for 9995418. (See STB 51)

9997105 Socket
Used when removing and installing rear shock absorbers together with wrench 9997106.

Tool Board Location
Tool Group: 76 (Wheels, Suspension)
Hook: 22

9997106 Wrench
Used when removing and installing rear shock absorbers together with wrench 9997105.

Tool Board Location
Tool Group: 76 (Wheels, Suspension)
Hook: 85
9997108 T-pipe
Used with pressure gauge 9995230 when measuring the vacuum in the brake servo system.

Tool Board Location
Tool Group: 50 (Brakes)
Hook: 81

9997109 Wrench
Used to release the belt tensioner when removing and installing the auxiliaries belt.

Tool Board Location
Tool Group: 26 (Engine)
Hook: 21

9997113 Wrench
Used for removing and installing the pulley on the generator (GEN), together with 9995761. (STB 121-C)

Tool Board Location
Tool Group: 20 (Engine)
Hook: 21
9997114 Conical Drill
For making holes when installing front and rear parking sensors. The tool is necessary to make the correct size of holes and to prevent paintwork damage on the bumper.

Tool Board Location
Tool Group: 86 (Body)
Hook: 87

9997116 Wrench
For removing and installing the front ball joint nuts together with torque wrench.

Tool Board Location
Tool Group: 61 (Wheels, Suspension)
Hook: 21

9997117 Locating Pins
To hold a loose dashboard when working with cable harnesses and to guide when installing. 2 Locating pins are included for each P/N.

Tool Board Location
Tool Group: 80 (Body, Interior)
Hook: 60