SPECIAL TOOLS



SUBARU

1988

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Engine Tools

398744300	398852100	399094310	399284300
PISTON GUIDE	OIL SEAL INSTALLER	PISTON PIN REMOVER ASSY	PISTON PIN GUIDE
Used to install piston in cylinder.	For press-fitting of intake and exhaust valve guide oil seals.	Used to remove piston pins by inserting this tool through crank-case plug holes.	Used to install piston pin in piston and connecting rod.
		1800 cc model	1800 cc model
A5-155	ST-054	A5-143	A5-156
399762103	399762104	498027000	498037000
VALVE GUIDE REMOVER	VALVE GUIDE REAMER	CAMSHAFT HOLDER	INSTALLER
For removing of valve guide.	For reaming of valve guide.	Used to hold camshaft when press-fitting distributor gear to camshaft.	Used to install camshaft oil seal.
A5-147	A5-150	L1-092	L1-093
498267100	498277000	498497000	499007000
CYLINDER HEAD TABLE	FLYWHEEL STOPPER CP	DRIVE PLATE STOPPER	TENSIONER WRENCH
For replacing of valve guide.	Used to stop rotation of flywheel when loosening and tightening crankshaft pulley bolt, etc.	Used to stop rotation of drive plate when loosening and tightening crankshaft pulley bolt,	Used to hold up tensioner No. 2 when reducing timing belt tension.
	Manual transmission vehicle	etc. Automatic transmission vehicle	1800 cc model
L1-094	L1-095	L1-096	L1-276

* 499017000	499037000	* 499097300	49920700
PISTON PIN GUIDE	REMOVER & REPLACER	PISTON PIN REMOVER ASSY	CAMSHAFT SPROCKET WRENCH
Used to install piston pin in piston and connecting rod.	Connecting rod bushing	Used to remove pins by inserting through crank-case plug holes.	Used to remove and install camshaft sprocket.
			1800 cc model
A5-156	A5-389	A5-143	L1-187
499437000	* 499437100	499567000	* 499567100
BELT TENSION WRENCH CP	BELT TENSION WRENCH CP	INSTALLER	INSTALLER
			-
When installing timing belt, used to apply the specified torque to camshaft pulley so as to get the specified belt tension. 1800 cc model	When installing timing belt, used to apply the specified torque to camshaft pulley so as to get the specified belt tension. 2700 cc model	Used to install crankcase front oil seal. 1800 cc model	Used to install crankcase front oil seal.
L1-188	L1-188	L1-100	L1-100
499587000	* 499817100	499987200	499990110
INSTALLER	ENGINE STAND	SOCKET WRENCH (17)	SOCKET
Used to install crankcase rear oil.	Stand used for engine disassembly and assembly. Two pieces are needed. This tool can be made by modifying the former one (499817000).	For retightening cylinder head. 1800 cc model	Oxygen (O ₂) sensor.
L1-101	L1-102	L1-103	A10-133

^{*} Newly adopted tool

899724100	899768603	* 13082AA000
VALVE SPRING PRESS ASSY	VALVE GUIDE ADJUSTER	BELT ADJUSTER STOPPER
Used to remove and install valve spring.	Used to install intake and exhaust valve guides.	Used to compress belt tensioner rubber boot (of adjuster COMPL) for easy installation of belt. 2700 cc model
A5-149	A5-149	L1-568

^{*} Newly adopted tool

Manual Transmission and Differential Tools

STAND REMOVER II Rear drive shaft. Straight pin (Transfer shifter fork). Spring pin (5-speed) Transmission main case.	398405200	398791600	398791700	399295120
4WD fork).	STAND	REMOVER II	REMOVER II	STAND SET
1 1 9	Rear drive shaft.	Straight pin (Transfer shifter fork).	Spring pin (5-speed)	Transmission main case.
	4WD			
2 BOLT(016510600)10 3 BOLT(016510700)10				1 STAND CP (399935120) 2 BOLT (016510600)10×60mm 3 BOLT (016510700)10×70mm 4 BOLT (016510400)10×40mm

399411700	399513600	399520105	399527700
INSTALLER	INSTALLER	SEAT	PULLER SET
Reverse shifter rail arm.	Extension rear oil seal.	Roller bearing (Differential).	Roller bearing (Differential).
	4WD	FWD	4WD
		A12.171	1 BOLT (899521412) 2 PULLER (399527702) 3 HOLDER (399527703) 4 ADAPTER (398497701) 5 BOLT (899520107) 6 NUT (021008000) A14-075
A12-170	A13-196 399790110	A12-171 498057000	6 NUT(021008000) A14-075 498067000
399780104			
WEIGHT	INSTALLER	OIL SEAL INSTALLER	TRANSFER RACE PRESS
Preload on roller bearing.	Roller bearing, (Differential) Axle shaft oil seal.	Transfer case oil seal.	Transfer race.
	FWD	4WD	4WD
A12-172	A12-175	L1-105	L1-108
498077000	498147000	498247001	498247100
5TH DRIVE GEAR REMOVER	DEPTH GAUGE	MAGNET BASE	DIAL GAUGE
5th driven gear.	Main shaft axial end play adjustment	Backlash between side gear and pinion, Hypoid gear backlash.	Backlash between side gear and pinion, Hypoid gear backlash.
4WD			
L1-109	ST-146	ST-156	ST-157

498427000	498517000	498787000	498787100
STOPPER	REPLACER	STOPPER	MAIN SHAFT STOPPER
For securing the drive pinion shaft ASSY and driven gear ASSY when removing the drive pinion shaft ASSY lock nut (18 x 13.5).	Drive pinion thrust plate and needle bearing race.	Transmission main shaft.	Transmission main shaft.
4WD	FWD	FWD	4WD
L1-388	ST-151	A12-173	L1-110
498937000	499277000	499277100	499277200
TRANSMISSION HOLDER	INSTALLER	BUSH 1-2 INSTALLER	INSTALLER
Transmission main shaft lock nut.	Drive pinion,	1st driven gear thrust plate. 1st—2nd driven gear bush.	For press fitting the 2nd driven gear, roller bearings, & 5th driven gear onto the driven shaft.
4WD	FWD	4WD	4WD
L1-111	A12-296	L1-113	L1-391
499747000	499747100	499787000	499797000
GUIDE	CLUTCH DISC GUIDE	WRENCH ASSY	OIL SEAL INSTALLER
Clutch disc.	Clutch disc.	Differential side retainer.	Differential side retainer oil seal.
FWD	4WD		4WD
ST-170	L1-114	L1-117	L1-118

499827000	499857000	400077000	400047400
433027000	488007000	499877000	499917100
PRESS	REMOVER ASSY	RACE 4-5 INSTALLER	GAUGE ASSY 2
Oil seal (Speedometer).	To remove the driven gear ASSY 5th gear.	Needle bearing 4th and 5th races. Transmission main shaft rear ball bearing.	Drive pinion shim.
	4WD	4WD	FWD
ST-147	L1-569	L1-119	1 Plate 2 Scale
499917500	499927000		
		499927100	499987300
DRIVE PINION GAUGE ASSY	HANDLE	HANDLE	SOCKET WRENCH (50)
Drive pinion shim adjustment.	Transmission main shaft.	Transmission main shaft.	To remove the driven gear ASSY lock nut.
4WD	FWD	4WD	4WD
L1-120	A12-189	L1-121	L1-389
898938600	899474100	899524100	899580100
HOLDER	EXPANDER	PULLER SET	INSTALLER
Transmission main shaft.	Snap ring (Transmission main shaft).	Roller bearing (Differential).	Transmission main shaft Drive pinion, Ball bearing (Rear drive shaft).
FWD	4WD	FWD	
A12-176	A12-178	A5-142	A12-179

SPECIAL TOOLS

899714110	899754110	899754112	899858600
RETAINER	PRESS ASSY	PRESS	RETAINER II
Transmission main shaft, Drive pinion, Rear drive shaft.	Transmission main shaft, Needle bearing (transfer case), Rear drive shaft	Clutch release bearing holder. (Except 4WD)	Transmission main shaft, Drive pinion.
	4WD	FWD	FWD
	Guide Press	— Press	
A12-181	A12-182	A11-025	A12-183
899864100	899874100	899884100	899904100
REMOVER	INSTALLER	HOLDER	REMOVER
Transmission main shaft, Drive pinion.	Transmission main shaft, Drive pinion, Transfer drive gear bushing.	Drive pinion, Rear drive shaft, Extension ASSY	Straight pin (Differential)
A12-184 899988608	A12-185	A12-186	A12-187
SOCKET WRENCH (27)			
Transmission main shaft (FWD) Rear drive shaft (4WD)			

Automatic Transmission and Differential Tools

398437700	398573600	398603610	398643600
DRIFT	OIL PRESSURE GAUGE ASSY	SOCKET	GAUGE
Front oil seal for converter case.	Oil pressure.	Brake band.	Used to adjust drive pinion. ● Oil pump clearance ● Total end play
			6
A14-046 398673600	A13-201 399520105	A13-209 399703600	A13-211
390073000	399520105	399703600	399780111
COMPRESSOR	SEAT	PULLER	WRENCH
Snap ring for clutch piston retainer.	Roller bearing (Differential)	Used to install band servo piston to case. Used with COMPRESSOR (498677000).	Axle shaft oil seal holder.
A13-208	A12-171	A13-186	A12-168
399790110	399893600	498247001	498247100
INSTALLER	PLIER	MAGNET BASE	DIAL GAUGE
Roller bearing (Differential)	Snap ring for spring retainer.	Backlash of gears.	Backlash of gears.
A12-175	A13-207	ST-156	ST-157

498517000	498627000	498627100	498677000
REPLACER	SEAT	SEAT	COMPRESSOR
Drive pinion front roller bearing.	Snap ring for clutch piston spring retainer.	Used to hold overrunning clutch piston retainer (return spring) when installing snap ring.	Band servo piston.
		4AT	4AT
ST-151	A13-210	L1-502	L1-503
498897100	498937100	499095500	499247300
ADAPTER CP	HOLDER	REMOVER ASSY	INSTALLER
Used when checking oil pressure, etc.	Used to tighten/loosen M30 lock nut for drive pinion. Used when measuring tooth contact pattern.	Used to extract axle drive shaft from differential ASSY. Used with INSTALLER (499247300)	Drive pinion oil seal.
4AT	4AT	4AT	4AT
		0-0	
L1-504	L1-498	L1-499	L1-500
499267300	499577000	499787100	499787300
STOPPER PIN	GAUGE	WRENCH ASSY	WRENCH
Used to align range selector lever/inhibitor switch.	Transfer end play.	Used to tighten/loosen M30 lock nut for drive pinion. Used when measuring hypoid gear backlash.	Manual shaft.
4AT	4AT	4AT	4AT
			3
L1-508	L1-509	L1-501	L1-510

499827000	499897000	899524100	899580100
PRESS	PLIERS	PULLER SET	INSTALLER
Speedometer shaft oil seal.	Snap ring.	Reduction driven gear.	Ball bearing for rear drive shaft.
		Puller Cap	
ST-147	A13-519	A5-142	A12-179

Rear Wheel Drive System (4WD Models) Tools

397471600	398177700	398217700	398227700
HANDLE & DRIFT KIT	INSTALLER	ATTACHMENT SET	WEIGHT
Front and rear bearing cup.	Rear bearing cone.	Differential case.	Side bearing.
1 HANDLE (398477701) 2 DRIFT (398477702) 3 DRIFT 2 (398477703)			
ST-143	A14-085	A14-084	A14-087
398237700	398417700	398427700	398437700
GAUGE	DRIFT	FLANGE WRENCH	DRIFT
Side bearing.	Oil seal.	Companion Flange	Oil seal.
A14-086	A14-045	A14-043	A14-046

398457700	398467700	398487700	398507701
ATTACHMENT	DRIFT	DRIFT	GAUGE
Side bearing retainer.	Drive pinion, Pilot bearing, Front bearing cone.	Side bearing cone.	Pinion height adjustment.
A14-047	A14-049	A14.088	A14-080
398507702	398507703	398507704	398517700
DUMMY SHAFT	DUMMY COLLAR	вьоск	REPLACER
Pinion height and Preload adjustment.	Pinion height and Preload adjustment.	Pinion height and Preload adjustment.	Rear bearing cone.
A14-081	A14-082	A14-083	A14-076
398527700	399527700	399780104	899580100
PULLEY ASSY	PULLER SET	WEIGHT	INSTALLER
Oil seal, Side bearing cup.	Side bearing cone.	Front bearing cone, Pilot bearing, Companion flange.	Front bearing cone, Pilot bearing.
A14-044	1 BOLT (899521412) 2 PULLER (399527702) 3 HOLDER (399527703) 4 ADAPTER (398497701) 5 BOLT (899520107) 6 NUT (021008000) A14-075	A12-172	A12-179

899874100	899904100	925560000
INSTALLER	STRAIGHT PIN REMOVER	WRENCH
Companion flange.	Differential pinion shaft lock pin.	Differential spindle set bolt.
A12-185	A12-187	ST-032

Suspension Tools

926110000	926500000	926510000	926520000
COIL SPRING COMPRESSOR	ADAPTER	SPANNER	AIR PIPE REMOVER
Used to remove and install coil spring.	Camber & caster gauge.	Used to disassemble and assemble front strut ASSY or front air suspension ASSY.	Used to disconnect air pipe from joint.
Except Air Suspension	1800 cc model		For Air Suspension
E1-076	L1-122	L1-123	L1-124
926940000	* 927050000		
3-WAY JOINT ASSY	ADAPTER		
Used as an adapter for gauge manifold of air conditioning system to measure pressure.	Camber & caster gauge.		
For Air Suspension	2700 cc model		

^{*} Newly adopted tool

L1-434

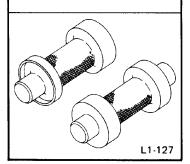
L1-570

Wheels and Axles Tools

921130000	925091000	925130000 *1	925220000
INSTALLER	BAND TIGHTENING TOOL	INSTALLER	INSTALLER
Brake Drum Bearing (Outer)	D.O.J. Boot B.J. Boot	Front axle shaft.	Brake Drum Bearing (Inner)
FWD			
1 Shank	Jig for band Ratchet wrench		
2 Base A16-052	A15-171	A16-047	A16-151
925530000	925550000	926470000 *2	926480000 *2
INSTALLER	WRENCH	AXLE SHAFT PULLER	AXLE SHAFT PULLER PLATE
Oil Seal	Rear Axle Ring Nut	Used to remove front axle shaft or brake drum.	Same as plate 2 included in AXLE SHAFT PULLER (926470000). Available as spare parts. 1800 cc model
		PLATE 2	
A16-154	A16-053	L1-125	L1-126
926490000		- 1 - FD (022421000)	#2 Former PLU ER /921122000)

INSTALLER

Used to install bearing and oil seal into front housing.



*1 AXLE SHAFT INSTALLER (922431000) can be used instead of this INSTALLER (925130000).

922431000		
AXLE SHAFT INSTALLER		
Used to install front axle shaft into housing. If necessary, use a 41 mm wrench to prevent rotation of installer body.		
EXTENSION AXLE SHAFT INSTALLER ST-361		

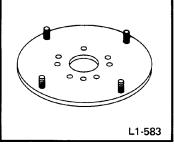
*2 Former PULLER (921122000) can be used instead of PULLER (926470000) by replacing its plate 2 with PLATE (926480000)

* 927060000	* 927070000	* 927080000	* 927090000
HUB PULLER	AXLE SHAFT PULLER	HUB STAND	HOUSING STAND
Used to remove front hub.	Used to remove front axle shaft.	Used when disassembling and assembling hub ASSY.	Used in combination with BEARING PULLER (927100000) to disassemble/reassemble housing bearing.
2700 cc model	2700 cc model	2700 cc model	2700 cc model
L1-575	L1-576	L1-577	L1-578
* 927100000	* 927110000	* 927120000	* 927130000
BEARING PULLER	OIL SEAL INSTALLER	HUB INSTALLER	EXTENSION AXLE SHAFT INSTALLER
Used to disassemble/reassemble housing bearing.	Used to install oil seal into housing.	Used as a bearing pad when pressing hub into place.	Used in combination with AXLE SHAFT INSTALLER (922431000) to install front axle
2700 cc model	2700 cc model	2700 cc model	shaft on hub. 2700 cc model
L1-579	L1-580	L1-581	L1-582
* 927140000			

AXLE SHAFT PULLER PLATE

Same as plate 2 included in AXLE SHAFT PULLER (926470000). Available as spare parts.

2700 cc model



^{*} Newly adopted tool

Steering System Tools

1. Manual Steering

925640000 *3	926530000	926540000
SPANNER	BUSH A INSTALLER	BUSH A REMOVER
Big end: Used to loosen and tighten the lock nut when adjusting gear backlash of steering gearbox.	Used to install bush A into steering gearbox unit.	Used to remove bush A from VGR (Variable Gear Ratio) steering gearbox unit.
gearbox.		For VGR steering gearbox
A3-167	L1-128	L1-129

^{*3} SPANNER (926230000) for power steering can be used instead of this tool.

2. Steering Column

926720000	926730000	926740000
CLAMP	INSTALLER	STAND
Used when assembling steering column ASSY. Attach this tool to STAND.	Used to remove and install steering boss of pipe ASSY.	Used when disassembling and assembling steering column ASSY.
L1-215	L1-216	L1-217

3. Power Steering

PRESSURE GAUGE Dil pump. ST-175 926230000 SPANNER For the lock nut when adjusting backlash of gearbox.	Used when inspection characteristic of gearbox ASSY and disassembling it. Vise this tool and secure gearbox ASSY using gearbox clamps. L1-130 926240000 INSTALLER Oil seal of steering body ASSY.	Used with PRESSURE GAUGE. To Gauge L1-131 926250000
ST-175 926230000 SPANNER For the lock nut when adjusting	istic of gearbox ASSY and disassembling it. Vise this tool and secure gearbox ASSY using gearbox clamps. L1-130 926240000 INSTALLER	To Gauge L1-131 926250000
926230000 SPANNER For the lock nut when adjusting	926240000 INSTALLER	L1-131 926250000
SPANNER For the lock nut when adjusting	INSTALLER	
For the lock nut when adjusting		GUIDE
	Oil seal of steering body ASSY.	
Removal and installation of tie-rod. Measurement of rotating resistance of gearbox ASSY.		Fit this tool to the left side of rack when installing seal holder ASSY into steering body ASSY.
L1-133	INSTALLER B INSTALLER B INSTALLER C L1-281	L1-190
926290000	926300000	926310000
REMOVER	INSTALLER	GUIDE
Used to remove dust seal, back-up	Used to install dust seal, back-up ring and Y-packing into valve housing.	Input shaft.
ring, Y-packing and ball bearing from valve housing. Used to install ball bearing into valve housing		-
	ng, Y-packing and ball bearing om valve housing, sed to install ball bearing into	ng, Y-packing and ball bearing ring and Y-packing into valve housing. housing.

^{*4} Interchangeable with former PRESSURE GAUGE (925710000).

SPECIAL TOOLS

926320000	926330000	926420000	*926970000
INSTALLER	REMOVER	PLUG	INSTALLER
Attach this tool to the left side of rack when press-fitting back-up ring and oil seal to steering body ASSY.	Used to remove back-up ring and oil seal from steering body.	When oil leaks from pinion side of gearbox ASSY, remove pipe B from valve housing, attach this tool and check oil leaking points.	Oil seal of oil pump.
L1-197	L1-198	L1-142	L1-496
926980000	* 927020000		
GUIDE	JIG MOTOR PUMP ASSY	·	
Shaft and bearing ASSY of oil pump.	Used to over-haul MOTOR PUMP ASSY.		
L1-497	L1-571		

^{*} Newly adopted tool

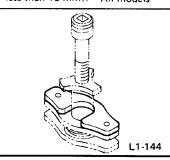
Brakes Tools

925471000	925600000	926430000
DISC BRAKE CYLINDER PULLER	O-RING ADAPTER	DISC BRAKE PISTON WRENCH
Pressing cone spring (front disc brake).	Installing spindle O-ring (front disc brake).	Used with SPACER (926440000) to rotate front disc brake piston.
All models	All models	All models
ST-148	A17-160	L1-143
	Pressing cone spring (front disc brake). All models	Pressing cone spring (front disc brake). All models O-RING ADAPTER O-RING ADAPTER All models All models

926440000

SPACER

Used as a set with WRENCH (926430000). Attach this tool to WRENCH using two 6-mm dia. bolts (length: less than 15 mm). All models



Air Conditioning System Tools

925770000	925790000	925800000 *6	925820000 *6
CLUTCH TIGHTENER	HUB NUT TIGHTENER	OIL SEPARATOR	FLEXIBLE HOSE
For holding clutch hub.	For tightening hub nut.	For withdrawing oil from refrigeration system.	(Used with OIL SEPARATOR)
		Cap	-Cap Cap-
A26-045	A26-047	ST-176	ST-178
925840000 *6	925850000 *6	926120000	926130000
DOUBLE UNION	CONNECTOR PIPE	SHAFT SEAL INSTALLER	CLUTCH ARMATURE REMOVER
(Used with OIL SEPARATOR)	(Used with OIL SEPARATOR)	For removing and installing shaft seal.	For clutch disassembly.
	O-ring		
ST-179	ST-180	L4-541	A26-046
926140000	926150000	926160000	926170000
SHAFT ROTATOR	COVER PLATE REMOVER	HEXAGON SOCKET (8 mm)	FRONT COVER TIGHTENER
For assemble and rotation checking.	For cover plate removal.	For elbow removal and installation.	For shell removal and installation.
			**
L4-542	L4-543	L4-544	L4-545

^{*6} Oil Separator Kit is composed of Oil Separator, Flexible Hose, Double Union and Connector Pipe.

926180000	926190000	
HEXAGON SOCKET (10 mm)	INJECTOR NEEDLE	
For cover end (R) removal and installation.	For discharging and charging gas.	
L4-546	L4-547	

Body Tools

925580000	925610000	926661000	927000000
PULLER	WRENCH	REMOVER	ENGINE SUPPORT ASSY
Trim clip.	Door hinge.	Used to remove and install trunk torsion bar.	For supporting engine.
			1800 cc model
ST-035	ST-166	L1-282	L1-511
927010000	* 927150000	* 927160000	
BRACKET (ENGINE SUPPORT)	ENGINE SUPPORT ASSY	BRACKET (ENGINE SUPPORT)	
Used together with ENGINE SUPPORT ASSY.	For supporting engine.	Used together with ENGINE SUPPORT ASSY.	
1800 cc model	2700 cc model	2700 cc model	·
L1-512	L1-572	L1-573	

^{*} Newly adopted tool