

General Description

DIFFERENTIALS

1. General Description

A: SPECIFICATION

1. REAR DIFFERENTIAL

When replacing a rear differential assembly, select the correct one according to the following table.

NOTE:

- Using a different rear differential assembly will cause the drive train and tires to drag or emit abnormal noise.
- For option code, refer to "ID" section. <Ref. to ID-2, IDENTIFICATION, Identification.>

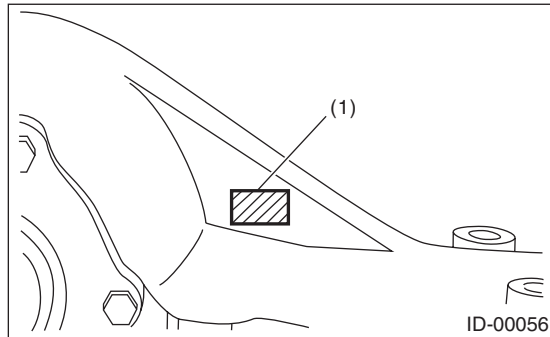
	Sedan, Wagon			
	2.5 L Non-turbo		2.5 L Turbo	
	MT	AT	MT	AT
Rear differential type	T-type	VA1-type	T-type	VA2-type
Identification	T1	XJ	JP	XU
LSD type	—		Viscous coupling	
Type of gear	Hypoid gear			
Gear ratio (Number of gear teeth)	3.900 (39/10)	4.111 (37/9)		3.272 (36/11)
Oil capacity	0.8 ℓ (0.8 US qt, 0.7 Imp qt)			
Rear differential gear oil	GL-5			

	OUTBACK				
	2.5 L Non-turbo		2.5 L Turbo		3.0 L
	MT	AT	MT	AT	
Rear differential type	T-type			VA2-type	
Identification	JE	CD	CF	XW	XU
LSD type	Viscous coupling				
Type of gear	Hypoid gear				
Gear ratio (Number of gear teeth)	4.111 (37/9)	4.444 (40/9)		3.583 (42/12)	3.272 (36/11)
Oil capacity	0.8 ℓ (0.8 US qt, 0.7 Imp qt)				
Rear differential gear oil	GL-5				

2. IDENTIFICATION

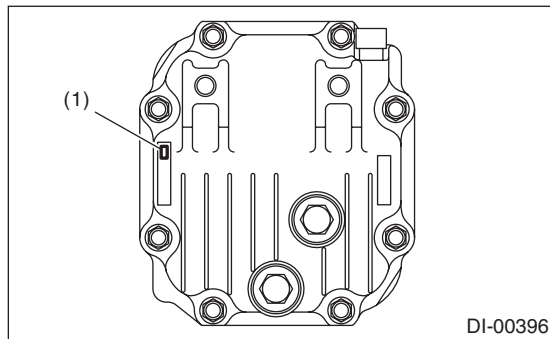
Identification label positions are shown in the following figures. For details concerning identification, refer to the "ID" section.

- T-type



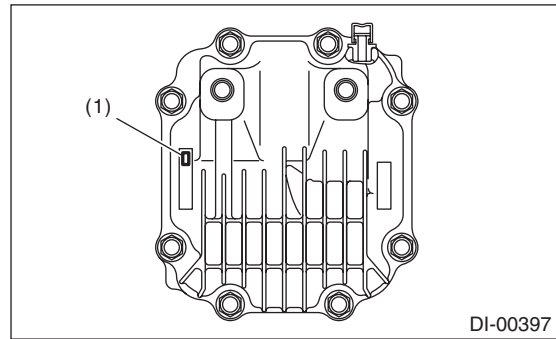
(1) Identification

- VA1-type



(1) Identification

- VA2-type



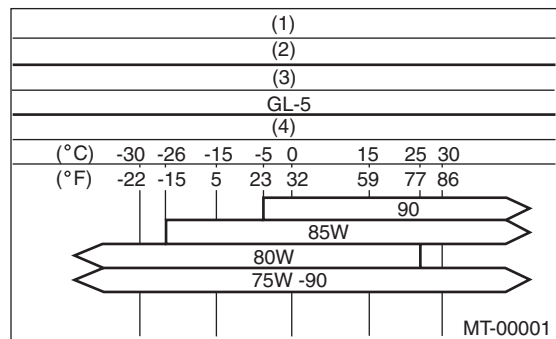
(1) Identification

3. REAR DIFFERENTIAL GEAR OIL

Recommended gear oil:
GL-5 (75W-90)

NOTE:

Each oil manufacturer has its base oil and additives. Thus, do not mix two or more brands.



- (1) Item
- (2) Rear differential gear oil
- (3) API classification
- (4) SAE viscosity No. and applicable temperature

4. SERVICE DATA

Drive pinion bearing preload (For new bearing)	Measure with spring measurement. (Measured from the companion flange bolt)	N (kgf, lb)	T-type	17.7 — 38.8 (1.8 — 4.0, 4.0 — 8.7)
	Measure with torque wrench	N-m (kgf-m, ft-lb)	VA-type	12.7 — 32.2 (1.3 — 3.3, 2.9 — 7.2)
Side gear backlash		mm (in)	T-type	0.10 — 0.20 (0.0039 — 0.0079)
			VA1-type only	0.05 — 0.15 (0.0020 — 0.0059)
Hypoid driven gear to drive pinion backlash		mm (in)	T-type	0.10 — 0.20 (0.0039 — 0.0079)
			VA-type	0.10 — 0.15 (0.0039 — 0.0059)
Hypoid driven gear runout on its back surface		mm (in)	T-type only	0.05 (0.0020)

General Description

DIFFERENTIALS

5. ADJUSTING PARTS

- T-type

	Part No.	Length mm (in)
Preload adjusting collar	383695201	56.2 (2.213)
	383695202	56.4 (2.220)
	383695203	56.6 (2.228)
	383695204	56.8 (2.236)
	383695205	57.0 (2.244)
	383695206	57.2 (2.252)
Preload adjusting washer	383705200	2.59 (0.1020)
	383715200	2.57 (0.1012)
	383725200	2.55 (0.1004)
	383735200	2.53 (0.0996)
	383745200	2.51 (0.0988)
	383755200	2.49 (0.0980)
	383765200	2.47 (0.0972)
	383775200	2.45 (0.0965)
	383785200	2.43 (0.0957)
	383795200	2.41 (0.0949)
	383805200	2.39 (0.0941)
	383815200	2.37 (0.0933)
	383825200	2.35 (0.0925)
	383835200	2.33 (0.0917)
383845200	2.31 (0.0909)	

	Part No.	Thickness mm (in)
Pinion height adjusting washer	383495200	3.09 (0.1217)
	383505200	3.12 (0.1228)
	383515200	3.15 (0.1240)
	383525200	3.18 (0.1252)
	383535200	3.21 (0.1264)
	383545200	3.24 (0.1276)
	383555200	3.27 (0.1287)
	383565200	3.30 (0.1299)
	383575200	3.33 (0.1311)
	383585200	3.36 (0.1323)
	383595200	3.39 (0.1335)
	383605200	3.42 (0.1346)
	383615200	3.45 (0.1358)
	383625200	3.48 (0.1370)
	383635200	3.51 (0.1382)
	383645200	3.54 (0.1394)
	383655200	3.57 (0.1406)
	383665200	3.60 (0.1417)
	383675200	3.63 (0.1429)
383685200	3.66 (0.1441)	
Side gear thrust washer (Model without LSD)	383445201	0.75 — 0.80 (0.0295 — 0.0315)
	383445202	0.80 — 0.85 (0.0315 — 0.0335)
	383445203	0.85 — 0.90 (0.0335 — 0.0354)
Side bearing retainer shim	383475201	0.20 (0.0079)
	383475202	0.25 (0.0098)
	383475203	0.30 (0.0118)
	383475204	0.40 (0.0157)
	383475205	0.50 (0.0197)

General Description

DIFFERENTIALS

Drive pinion bearing pre-load	Measure with spring measurement (at companion flange bolt hole)	N (kgf, lb)	17.7 — 38.8 (1.8 — 4.0, 4.0 — 8.7)
	Measure with torque wrench	N·m (kgf-m, ft-lb)	0.67 — 1.47 (0.068 — 0.15, 0.49 — 1.08)
Side gear backlash		mm (in)	0.1 — 0.2 (0.0039 — 0.0079)
Hypoid driven gear to drive pinion backlash limit		mm (in)	0.10 — 0.20 (0.0039 — 0.0079)
Hypoid driven gear runout limit on its back surface		mm (in)	0.05 (0.0020)

General Description

DIFFERENTIALS

- VA1-type

	Part No.	Length mm (in)
Preload adjusting collar	32288AA040	52.3 (2.059)
	32288AA050	52.5 (2.067)
	31454AA100	52.6 (2.071)
	32288AA060	52.7 (2.075)
	31454AA110	52.8 (2.079)
	32288AA070	52.9 (2.083)
	31454AA120	53.0 (2.087)
	32288AA080	53.1 (2.091)
	32288AA090	53.3 (2.098)

	Part No.	Thickness mm (in)
Preload adjusting washer	38336AA000	1.500 (0.0591)
	38336AA120	1.513 (0.0596)
	38336AA010	1.525 (0.0600)
	38336AA130	1.538 (0.0606)
	38336AA020	1.550 (0.0610)
	38336AA140	1.563 (0.0615)
	38336AA030	1.575 (0.0620)
	38336AA150	1.588 (0.0625)
	38336AA040	1.600 (0.0630)
	38336AA160	1.613 (0.0635)
	38336AA050	1.625 (0.0640)
	38336AA170	1.638 (0.0645)
	38336AA060	1.650 (0.0650)
	38336AA180	1.663 (0.0655)
	38336AA070	1.675 (0.0659)
	38336AA190	1.688 (0.0665)
	38336AA080	1.700 (0.0669)
	38336AA200	1.713 (0.0674)
	38336AA090	1.725 (0.0679)
	Pinion height adjusting washer	38336AA210
38336AA100		1.750 (0.0689)
38336AA220		1.763 (0.0694)
38336AA110		1.775 (0.0699)
32295AA200		0.150 (0.0059)
32295AA210		0.175 (0.0069)
Side gear thrust washer	32295AA220	0.200 (0.0079)
	32295AA230	0.225 (0.0089)
	32295AA240	0.250 (0.0098)
	32295AA250	0.275 (0.0108)
	803135011	0.925 — 0.950 (0.0364 — 0.0374)
	803135012	0.950 — 0.975 (0.0374 — 0.0384)
	803135013	0.975 — 1.000 (0.0384 — 0.0394)
	803135014	1.000 — 1.025 (0.0394 — 0.0404)
	803135015	1.025 — 1.050 (0.0404 — 0.0413)

Drive pinion bearing preload	Measure with spring measurement (at companion flange bolt hole)	N (kgf, lb)	12.7 — 32.2 (1.3 — 3.3, 2.9 — 7.2)
	Measure with torque wrench	N·m (kgf·m, ft·lb)	0.48 — 1.22 (0.049 — 0.124, 0.35 — 0.9)
Side gear backlash		mm (in)	0.05 — 0.15 (0.0020 — 0.0059)
Hypoid driven gear to drive pinion backlash limit		mm (in)	0.10 — 0.15 (0.0039 — 0.0059)

General Description

DIFFERENTIALS

- VA2-type

	Part No.	Length mm (in)
Preload adjusting collar	31454AA250	51.05 (2.010)
	31454AA260	51.25 (2.018)
	31454AA270	51.35 (2.022)
	31454AA280	51.45 (2.026)
	31454AA290	51.55 (2.030)
	31454AA300	51.65 (2.033)
	31454AA310	51.75 (2.037)
	31454AA320	51.85 (2.041)
	31454AA330	52.05 (2.049)

	Part No.	Thickness mm (in)
Preload adjusting washer	38336AA430	1.500 (0.0591)
	38336AA440	1.513 (0.0596)
	38336AA450	1.525 (0.0600)
	38336AA460	1.538 (0.0606)
	38336AA470	1.550 (0.0610)
	38336AA480	1.563 (0.0615)
	38336AA490	1.575 (0.0620)
	38336AA500	1.588 (0.0625)
	38336AA510	1.600 (0.0630)
	38336AA520	1.613 (0.0635)
	38336AA530	1.625 (0.0640)
	38336AA540	1.638 (0.0645)
	38336AA550	1.650 (0.0650)
	38336AA560	1.663 (0.0655)
	38336AA570	1.675 (0.0659)
	38336AA580	1.688 (0.0665)
	38336AA590	1.700 (0.0669)
	38336AA600	1.713 (0.0674)
	38336AA610	1.725 (0.0679)
	38336AA620	1.738 (0.0684)
38336AA630	1.750 (0.0689)	
38336AA640	1.763 (0.0694)	
38336AA650	1.775 (0.0699)	
Pinion height adjusting washer	32295AA350	0.150 (0.0059)
	32295AA360	0.175 (0.0069)
	32295AA370	0.200 (0.0079)
	32295AA380	0.225 (0.0089)
	32295AA390	0.250 (0.0098)
	32295AA400	0.275 (0.0108)

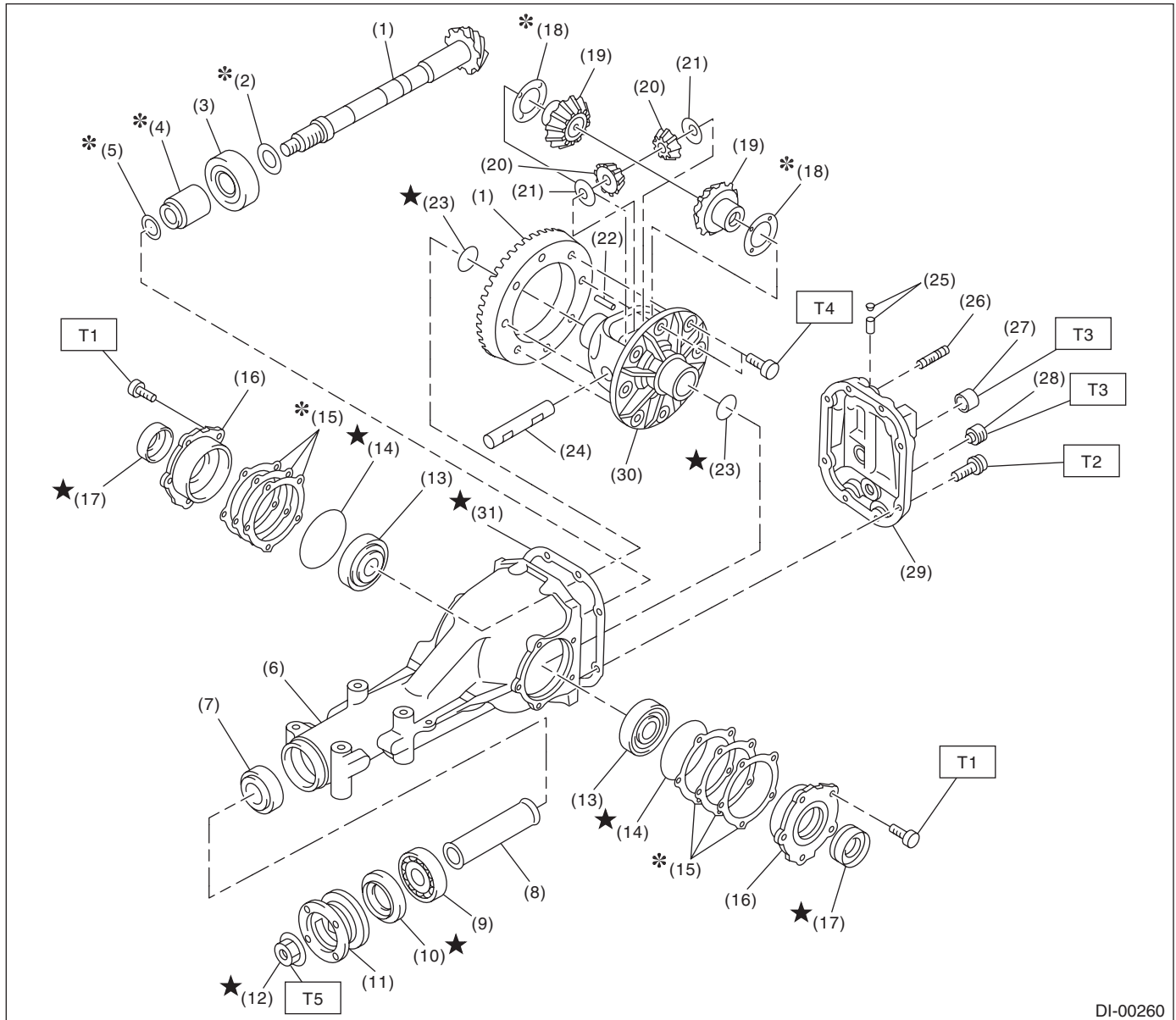
Drive pinion bearing preload	Measure with spring measurement (at companion flange bolt hole)	N (kgf, lb)	12.7 — 32.2 (1.3 — 3.3, 2.9 — 7.2)
	Measure with torque wrench	N·m (kgf·m, ft·lb)	0.48 — 1.22 (0.049 — 0.124, 0.35 — 0.9)
Hypoid driven gear to drive pinion backlash limit		mm (in)	0.10 — 0.15 (0.0039 — 0.0059)

General Description

DIFFERENTIALS

B: COMPONENT

1. REAR DIFFERENTIAL WITHOUT LSD (T-TYPE)



DI-00260

- (1) Hypoid driven gear and drive pinion set
- (2) Pinion height adjusting washer
- (3) Rear bearing
- (4) Bearing preload adjusting collar
- (5) Bearing preload adjusting washer
- (6) Differential carrier
- (7) Front bearing
- (8) Collar
- (9) Pilot bearing
- (10) Front oil seal
- (11) Companion flange
- (12) Self-locking nut
- (13) Side bearing

- (14) O-ring
- (15) Side bearing retainer shim
- (16) Side bearing retainer
- (17) Side oil seal
- (18) Side gear thrust washer
- (19) Side gear
- (20) Pinion mate gear
- (21) Pinion mate gear washer
- (22) Pinion shaft lock pin
- (23) Snap ring
- (24) Pinion mate shaft
- (25) Air breather cap
- (26) Stud bolt

- (27) Oil filler plug
- (28) Oil drain plug
- (29) Rear cover
- (30) Differential case
- (31) Gasket

Tightening torque: N-m (kgf-m, ft-lb)

T1: 10.5 (1.1, 7.7)

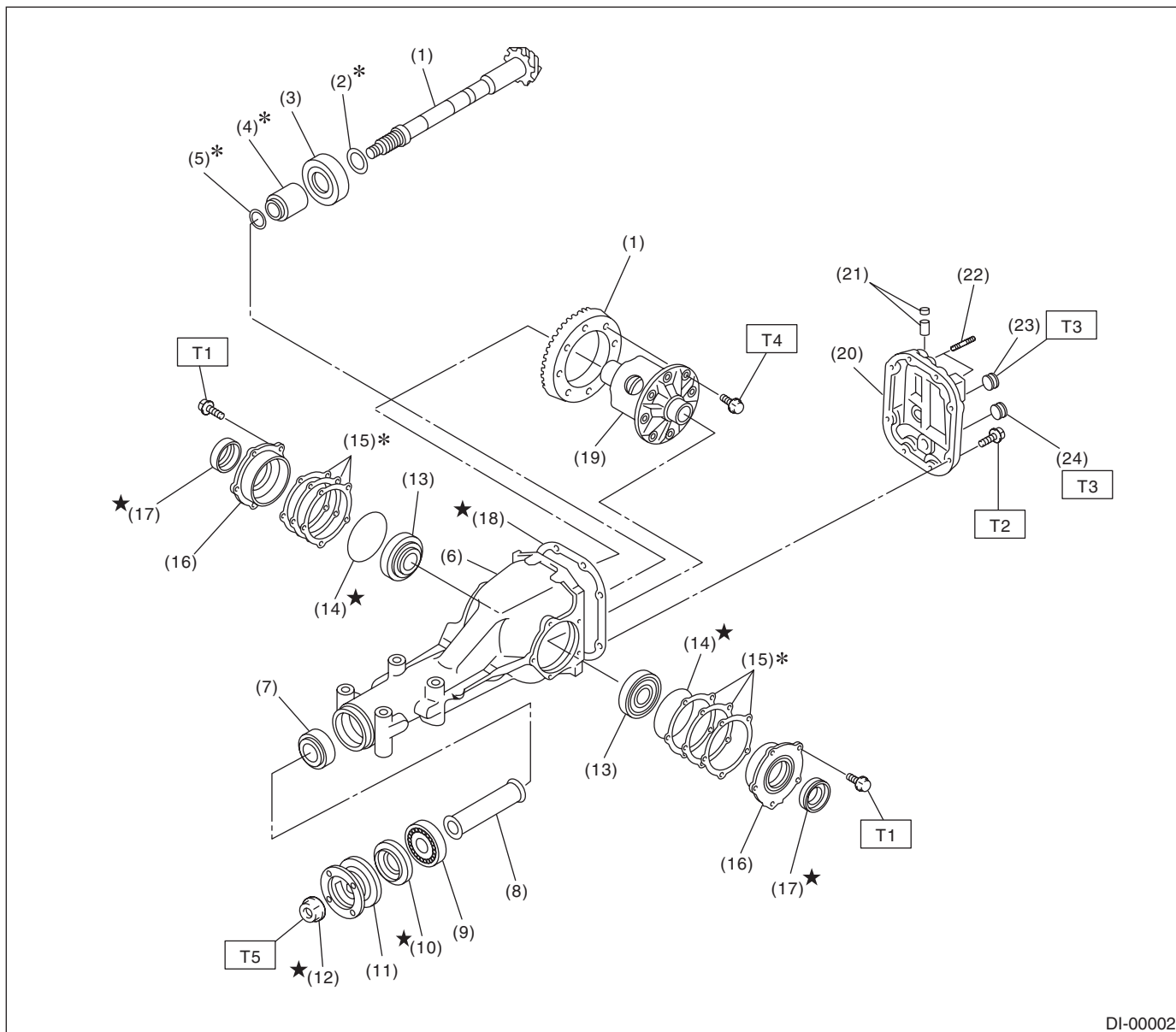
T2: 29.5 (3.0, 21.8)

T3: 49 (5.0, 36.2)

T4: 103 (10.5, 76)

T5: 181.5 (18.5, 134)

2. REAR DIFFERENTIAL WITH LSD (T-TYPE)



DI-00002

- | | |
|---|---------------------------------|
| (1) Hypoid driven gear and drive pinion set | (11) Companion flange |
| (2) Pinion height adjusting washer | (12) Self-locking nut |
| (3) Rear bearing | (13) Side bearing |
| (4) Bearing preload adjusting collar | (14) O-ring |
| (5) Bearing preload adjusting washer | (15) Side bearing retainer shim |
| (6) Differential carrier | (16) Side bearing retainer |
| (7) Front bearing | (17) Side oil seal |
| (8) Collar | (18) Gasket |
| (9) Pilot bearing | (19) Differential case ASSY |
| (10) Front oil seal | (20) Rear cover |
| | (21) Air breather cap |

- | |
|----------------------|
| (22) Stud bolt |
| (23) Oil filler plug |
| (24) Oil drain plug |

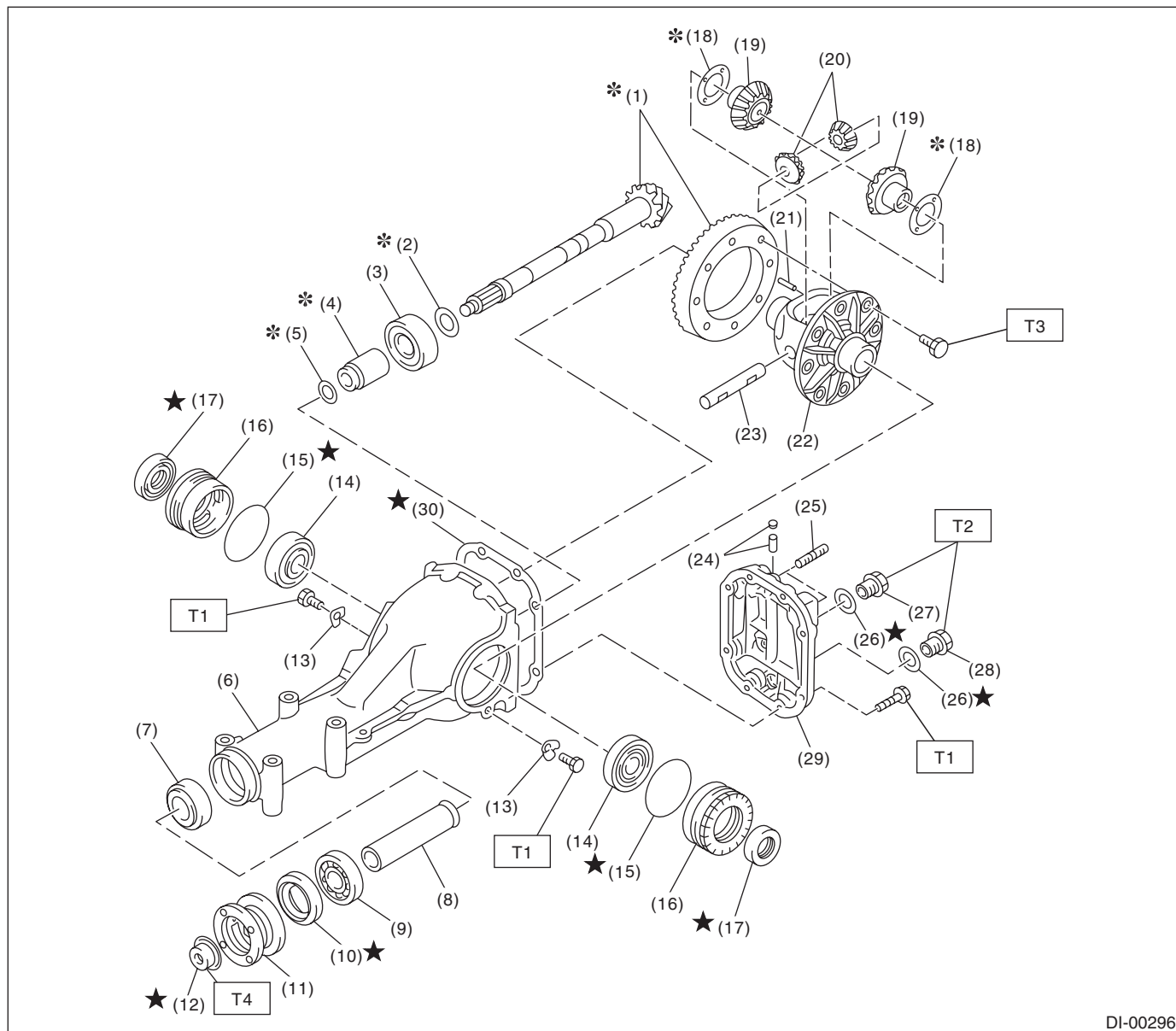
Tightening torque: N·m (kgf·m, ft·lb)

- | |
|------------------------------|
| T1: 10.5 (1.1, 7.7) |
| T2: 29.5 (3.0, 21.8) |
| T3: 49 (5.0, 36.2) |
| T4: 103 (10.5, 76) |
| T5: 181.5 (18.5, 134) |

General Description

DIFFERENTIALS

3. REAR DIFFERENTIAL (VA1-TYPE)



DI-00296

- | | | |
|---|------------------------------|----------------------|
| (1) Hypoid driven gear and drive pinion set | (13) Lock plate | (25) Stud bolt |
| (2) Pinion height adjusting washer | (14) Side bearing | (26) Gasket |
| (3) Rear bearing | (15) O-ring | (27) Oil filler plug |
| (4) Bearing preload adjusting collar | (16) Axle shaft holder | (28) Oil drain plug |
| (5) Bearing preload adjusting washer | (17) Side oil seal | (29) Rear cover |
| (6) Differential carrier | (18) Side gear thrust washer | (30) Gasket |
| (7) Front bearing | (19) Side gear | |
| (8) Collar | (20) Pinion mate gear | |
| (9) Pilot bearing | (21) Pinion shaft lock pin | |
| (10) Front oil seal | (22) Differential case | |
| (11) Companion flange | (23) Pinion mate shaft | |
| (12) Self-locking nut | (24) Air breather cap | |

Tightening torque: N-m (kgf-m, ft-lb)

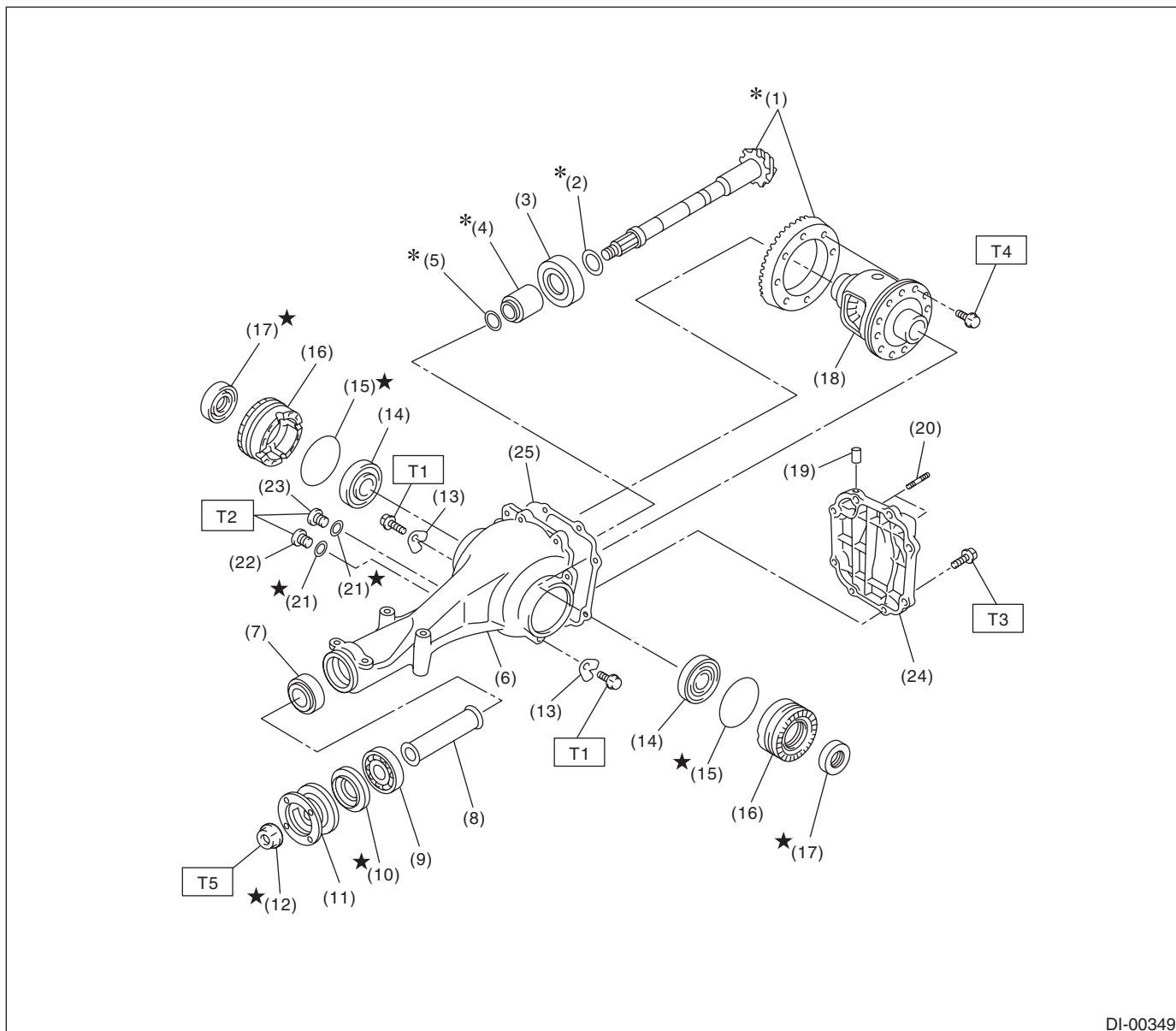
T1: 25 (2.5, 18.4)

T2: 34 (3.5, 25.1)

T3: 62 (6.3, 45.6)

T4: 191 (19.5, 141)

4. REAR DIFFERENTIAL (VA2-TYPE)



DI-00349

- | | |
|---|-----------------------------|
| (1) Hypoid driven gear and drive pinion set | (11) Companion flange |
| (2) Pinion height adjusting washer | (12) Self-locking nut |
| (3) Rear bearing | (13) Lock plate |
| (4) Bearing preload adjusting collar | (14) Side bearing |
| (5) Bearing preload adjusting washer | (15) O-ring |
| (6) Differential carrier | (16) Axle shaft holder |
| (7) Front bearing | (17) Side oil seal |
| (8) Collar | (18) Differential case ASSY |
| (9) Pilot bearing | (19) Air breather cap |
| (10) Front oil seal | (20) Stud bolt |
| | (21) Gasket |

- | |
|----------------------|
| (22) Oil filler plug |
| (23) Oil drain plug |
| (24) Rear cover |
| (25) Gasket |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 25 (2.5, 18.4)

T2: 29 (3.0, 21.4)

T3: 34 (3.5, 25.1)

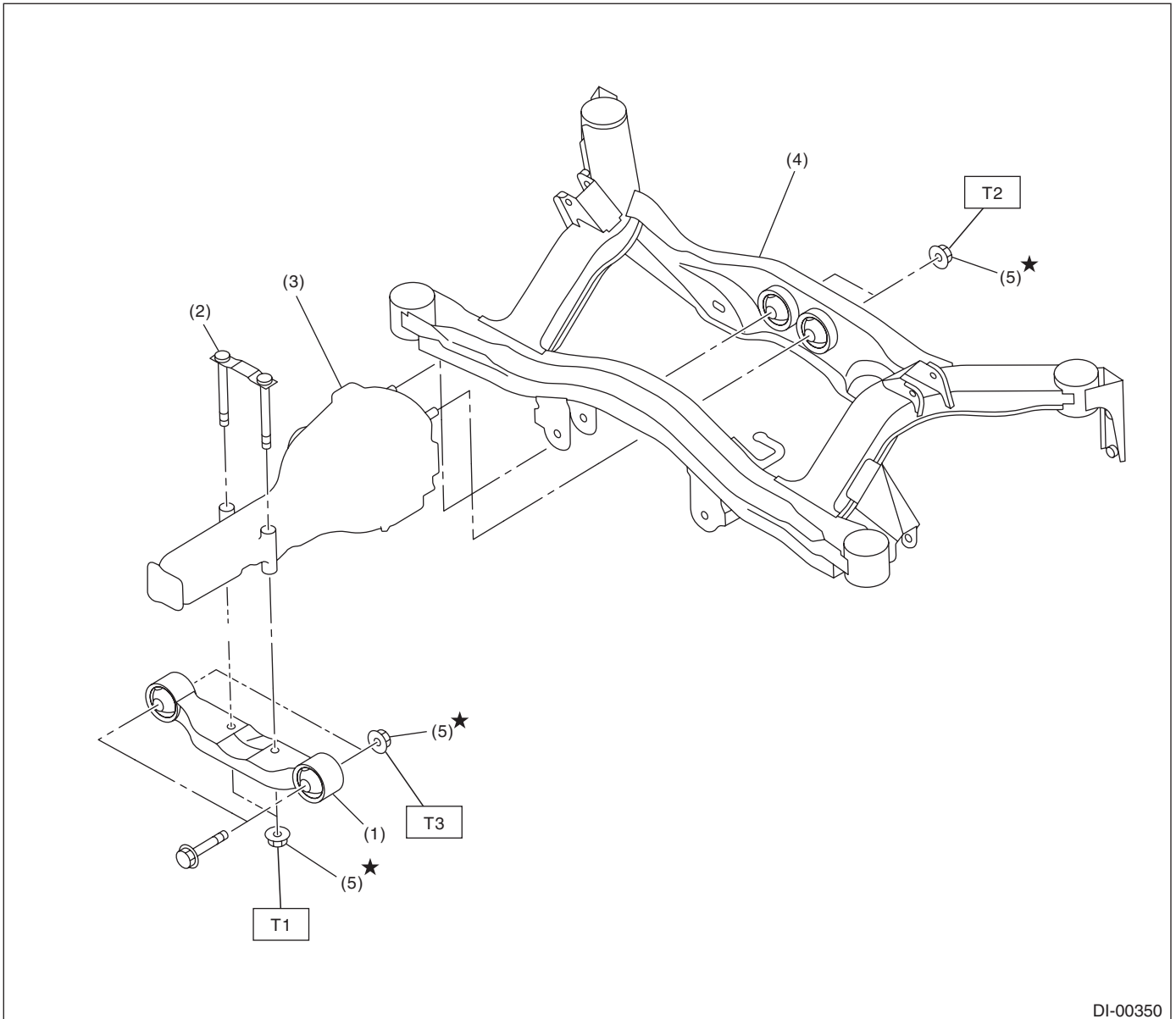
T4: 62 (6.3, 45.7)

T5: 191 (19.5, 141)

General Description

DIFFERENTIALS

5. REAR DIFFERENTIAL MOUNTING SYSTEM



DI-00350

- | | |
|------------------------------------|----------------------|
| (1) Rear differential front member | (4) Sub frame |
| (2) Rear differential member plate | (5) Self-locking nut |
| (3) Rear differential ASSY | |

Tightening torque: N·m (kgf·m, ft·lb)

T1: 65 (6.6, 48)

T2: 70 (7.1, 51.6)

T3: 110 (11.2, 81)

C: CAUTION

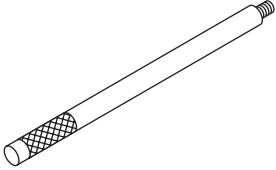
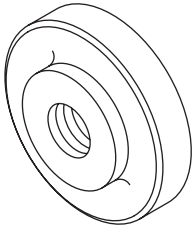
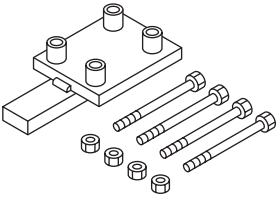
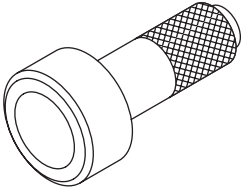
- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Vehicle components are extremely hot after driving. Be wary of receiving burns from heated parts.
- Use SUBARU genuine gear oil, grease or the equivalent. Do not mix fluid, grease, etc. of different grades or manufacturers.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Apply gear oil onto sliding or revolving surfaces before installation.
- Before installing the O-ring or snap ring, apply a sufficient amount of gear oil to avoid damage and deformation.
- Before securing a part on a vise, place cushioning material such as wood blocks, aluminum plate, or cloth between the part and the vise.
- Avoid damaging the mating surface of the case.

General Description

DIFFERENTIALS

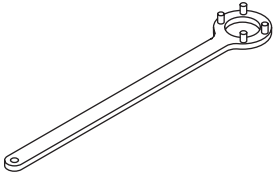
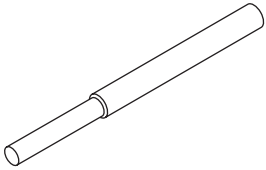
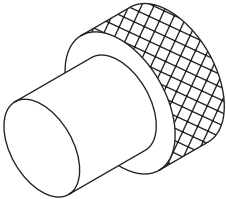
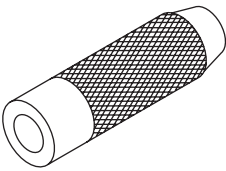
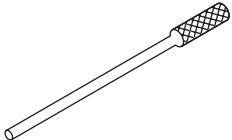
D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-398477701</p>	398477701	HANDLE	Used for installing the front and rear bearing cones.
 <p style="text-align: center;">ST-398477702</p>	398477702	DRIFT	<ul style="list-style-type: none"> • Used for press-fitting the bearing cone of differential carrier (front). • For T-type
 <p style="text-align: center;">ST-398217700</p>	398217700	ATTACHMENT SET	Stand for rear differential carrier disassembly and assembly.
 <p style="text-align: center;">ST-498447120</p>	498447120	INSTALLER	Used for installing the front oil seal.

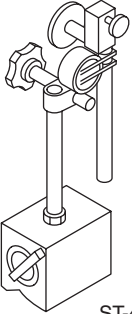
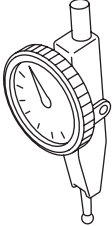
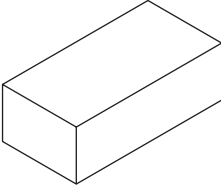
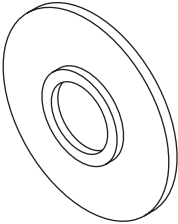
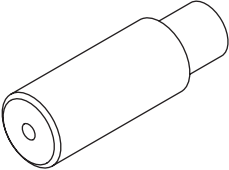
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-498427200</p>	498427200	FLANGE WRENCH	Used for stopping rotation of companion flange when removing and tightening self-lock nut.
 <p style="text-align: center;">ST-398467700</p>	398467700	DRIFT	<ul style="list-style-type: none"> • Used for removing pinion, pilot bearing and front bearing cone. • For T-type and VA1-type
 <p style="text-align: center;">ST-399780104</p>	399780104	WEIGHT	Used for installing the front bearing cone and the pilot bearing companion flange.
 <p style="text-align: center;">ST-899580100</p>	899580100	INSTALLER	Used for press-fitting the front bearing cone and pilot bearing.
 <p style="text-align: center;">ST-899904100</p>	899904100	STRAIGHT PIN REMOVER	Used for driving out differential pinion shaft lock pin.

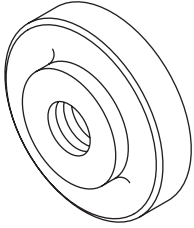
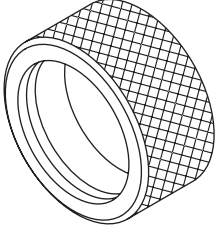
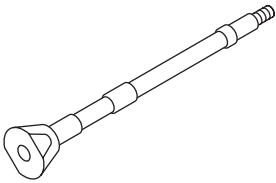
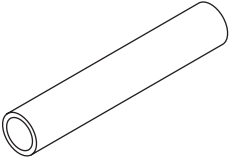
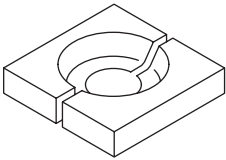
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-498247001</p>	498247001	MAGNET BASE	<ul style="list-style-type: none"> • Used for measuring backlash between side gear and pinion, and hypoid gear. • Used with DIAL GAUGE (498247100).
 <p style="text-align: center;">ST-498247100</p>	498247100	DIAL GAUGE	<ul style="list-style-type: none"> • Used for measuring backlash between side gear and pinion, and hypoid gear. • Used with MAGNET BASE (498247001).
 <p style="text-align: center;">ST-398507704</p>	398507704	BLOCK	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For T-type and VA1-type
 <p style="text-align: center;">ST-398177700</p>	398177700	INSTALLER	<ul style="list-style-type: none"> • Used for installing the rear bearing cone. • For T-type and VA2-type
 <p style="text-align: center;">ST-398457700</p>	398457700	ATTACHMENT	<ul style="list-style-type: none"> • Used for removing the side bearing retainer. • For T-type

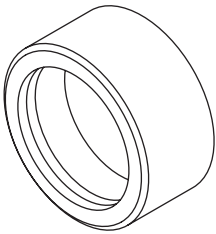
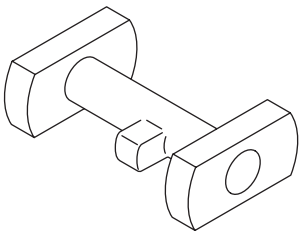
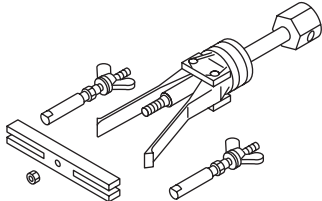
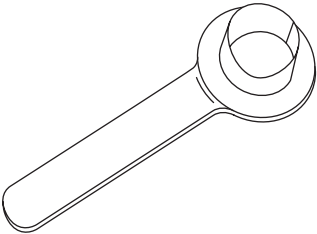
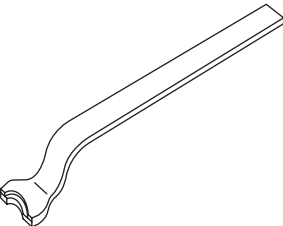
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p>ST-398477703</p>	398477703	DRIFT 2	<ul style="list-style-type: none"> • Used for press-fitting bearing race (rear) of differential carrier. • For T-type and VA2-type
 <p>ST-398437700</p>	398437700	DRIFT	<ul style="list-style-type: none"> • Used for installing the side oil seal. • For T-type and VA2-type
 <p>ST-398507702</p>	398507702	DUMMY SHAFT	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For T-type
 <p>ST-398507703</p>	398507703	DUMMY COLLAR	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For T-type
 <p>ST-398517700</p>	398517700	REPLACER	<ul style="list-style-type: none"> • Used for removing rear bearing cone. • For T-type and VA2-type

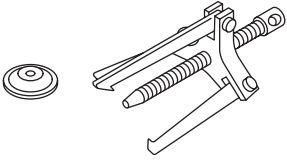
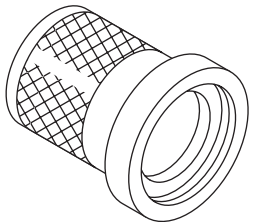
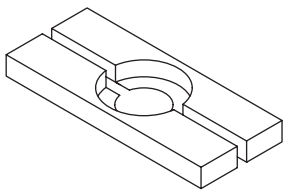
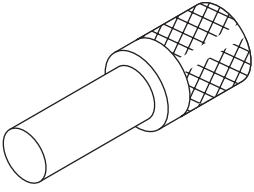
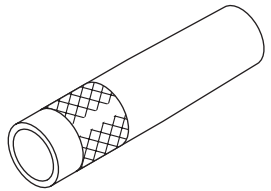
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-398487700</p>	398487700	DRIFT	<ul style="list-style-type: none"> • Used for press-fitting side bearing cone. • For T-type and VA2-type
 <p style="text-align: center;">ST-398507701</p>	398507701	DIFFERENTIAL CARRIER GAUGE	<ul style="list-style-type: none"> • Used for adjusting pinion height. • For T-type
 <p style="text-align: center;">ST-398527700</p>	398527700	PULLER ASSY	<ul style="list-style-type: none"> • Used for removing front oil seal. • Used for removing side bearing cup. (T-type)
 <p style="text-align: center;">ST28099PA090</p>	28099PA090	OIL SEAL PROTECTOR	<ul style="list-style-type: none"> • Used for installing the rear drive shaft to the rear differential. • For oil seal protection
 <p style="text-align: center;">ST28099PA100</p>	28099PA100	DRIVE SHAFT REMOVER	<ul style="list-style-type: none"> • Used for removing the rear drive shaft from rear differential. • For T-type

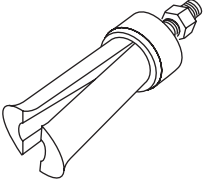
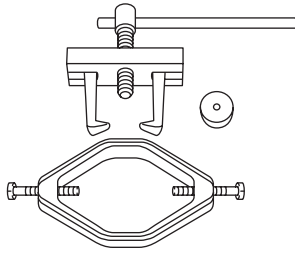
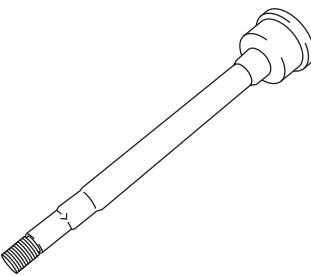
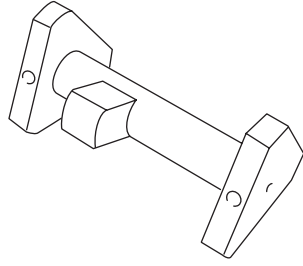
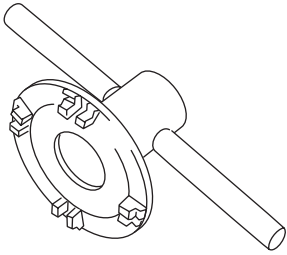
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-399703600</p>	399703600	PULLER ASSY	Used for removing companion flange.
 <p style="text-align: center;">ST-899874100</p>	899874100	INSTALLER	Used for installing the companion flange.
 <p style="text-align: center;">ST-498077000</p>	498077000	REMOVER	<ul style="list-style-type: none"> • Used for removing the differential side bearing cone. • For VA2-type
 <p style="text-align: center;">ST-899864100</p>	899864100	REMOVER	Used for removing the differential side bearing.
 <p style="text-align: center;">ST-499277200</p>	499277200	INSTALLER	<ul style="list-style-type: none"> • Used for installing the front bearing cone. • For VA2-type

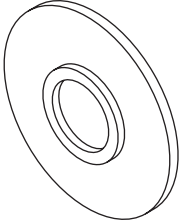
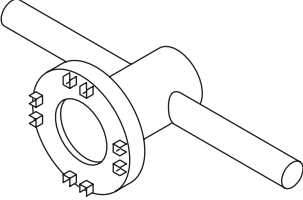
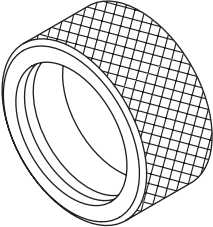
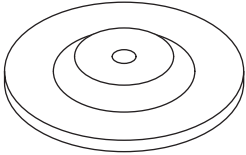
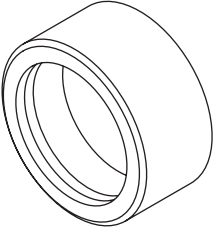
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST18758AA000</p>	18758AA000	PULLER	<ul style="list-style-type: none"> • Used for removing side bearing cup. • For VA2-type
 <p style="text-align: center;">ST18759AA000</p>	18759AA000	PULLER ASSY	<ul style="list-style-type: none"> • Used for removing the differential side bearing cone. • For T-type
 <p style="text-align: center;">ST18678AA000</p>	18678AA000	DUMMY SHAFT	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For VA2-type
 <p style="text-align: center;">ST18831AA010</p>	18831AA010	DIFFERENTIAL CARRIER GAUGE	<ul style="list-style-type: none"> • Used for adjusting pinion height. • For VA2-type
 <p style="text-align: center;">ST18630AA010</p>	18630AA010	WRENCH ASSY	<ul style="list-style-type: none"> • Used for removing and installing the side oil seal holder. • For VA2-type <p>NOTE: Also available for VA1-type.</p>

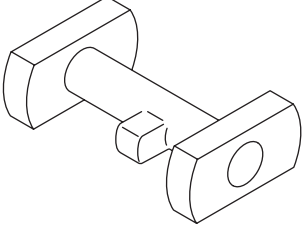
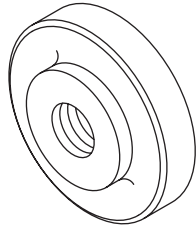
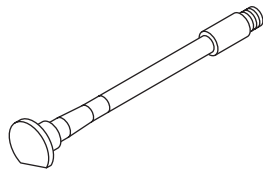
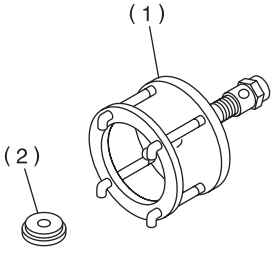
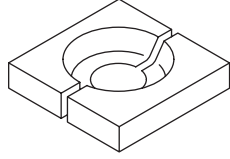
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p data-bbox="337 516 467 537">ST-498175500</p>	498175500	INSTALLER	<ul style="list-style-type: none"> • Used for installing the rear bearing cone. • For VA1-type
 <p data-bbox="337 867 467 888">ST-499785500</p>	499785500	WRENCH ASSY	<ul style="list-style-type: none"> • Used for removing and installing the side oil seal holder. • For VA1-type
 <p data-bbox="337 1218 467 1239">ST-498447100</p>	498447100	INSTALLER	<ul style="list-style-type: none"> • Used for installing the oil seal. • For VA1-type and T-type
 <p data-bbox="337 1568 467 1589">ST-399520105</p>	399520105	SEAT	<ul style="list-style-type: none"> • Used for removing the side bearing cone. • Used with PULLER SET (899524100). • For VA-type
 <p data-bbox="337 1919 467 1940">ST-498485400</p>	498485400	DRIFT	<ul style="list-style-type: none"> • Used for installing side bearing cone. • For VA1-type

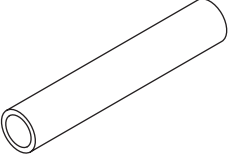
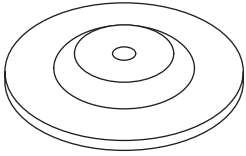
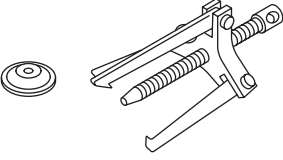
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 <p style="text-align: center;">ST-498505501</p>	498505501	DIFFERENTIAL CARRIER GAUGE	<ul style="list-style-type: none"> • Used for adjusting pinion height. • For VA1-type
 <p style="text-align: center;">ST-498447110</p>	498447110	DRIFT	<ul style="list-style-type: none"> • Used for press-fitting the bearing race (front) of the differential carrier. • For VA1-type
 <p style="text-align: center;">ST-498447150</p>	498447150	DUMMY SHAFT	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For VA1-type
 <p style="text-align: center;">ST-899524100</p>	899524100	PULLER SET	<p>Used for removing the differential side bearing cone.</p> <ol style="list-style-type: none"> 1. Puller 2. Cap
 <p style="text-align: center;">ST-498515500</p>	498515500	REPLACER	<ul style="list-style-type: none"> • Used for removing rear bearing cone. • For VA1-type

General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST32285AA000	32285AA000	DUMMY COLLAR	<ul style="list-style-type: none"> • Used for adjusting pinion height and preload. • For VA1-type
 ST-499705404	499705404	SEAT	<ul style="list-style-type: none"> • Used for removing the side bearing race. • Used together with PULLER ASSY (499705401). • For VA1-type
 ST-499705401	499705401	PULLER ASSY	<ul style="list-style-type: none"> • Used for removing the side bearing race. • Used together with SEAT (499705404). • For VA-type

2. GENERAL TOOL

TOOL NAME	REMARKS
Transmission jack	Used for assembly/disassembly of the rear differential.
Puller	Used for removing the side bearing retainer.
Thickness gauge	Used for measuring clearance.
Hexagon wrench	Used for installing and removing the filler and drain plug.
Tire lever	Used for removing the rear drive shaft (VA-type).