

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.

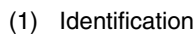
NOTE:

- 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.>

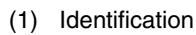
Model	Sedan, Wagon				
	2.5 L Non-turbo		2.5 L Turbo		
	5MT	AT	6MT	5MT	AT
Rear differential type	T-type	VA1-type	T-type		VA2-type
Identification	T1	XJ	HY	EW	XZ
LSD type	—		Helical	Viscous coupling	
Type of gear	Hypoid gear				
Gear ratio (Number of gear teeth)	3.900 (39/10)	4.111 (37/9)	3.545 (39/11)	3.900 (39/10)	3.083 (37/12)
Oil capacity	0.8 ℓ (0.8 US qt, 0.7 Imp qt)		1.0 ℓ (1.1 US qt, 0.9 Imp qt)	0.8 ℓ (0.8 US qt, 0.7 Imp qt)	
Rear differential gear oil	GL-5				

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

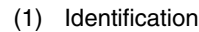
- T-type



- VA1-type



- VA2-type



GL-5 (75W-90)

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

(1)

(2)

(3)

GL-5

(4)

(°C)	-30	-26	-15	-5	0	15	25	30
(°F)	-22	-15	5	23	32	59	77	86
				90				
			85W					
80W								
75W -90								

MT-00001

Drive pinion bearing preload (For new bearing)	Measure with spring measurement. (Measured from the companion flange bolt) N (kgf, lbf)	T-type (Except for GT spec. B 6MT model)	17.7 — 38.8 (1.8 — 4.0, 4.0 — 8.7)
		T-type (GT spec. B 6MT model)	24.1 — 38.6 (2.5 — 3.9, 5.4 — 8.7)
		VA-type	12.7 — 32.2 (1.3 — 3.3, 2.9 — 7.2)
	Measure with torque wrench N·m (kgf·m, ft·lb)	T-type (Except for GT spec. B 6MT model)	0.67 — 1.47 (0.07 — 0.15, 0.49 — 1.08)
		T-type (GT spec. B 6MT model)	0.91 — 1.46 (0.09 — 0.15, 0.67 — 1.08)
		VA-type	0.48 — 1.22 (0.05 — 0.12, 0.35 — 0.90)
Side gear backlash	mm (in)	T-type	0.10 — 0.20 (0.004 — 0.008)
		VA1-type only	0.05 — 0.15 (0.002 — 0.006)
Side bearing standard width		mm (in)	20.00 (0.7874)
Hypoid driven gear to drive pinion backlash	mm (in)	T-type	0.10 — 0.20 (0.004 — 0.008)
		VA-type	0.10 — 0.15 (0.004 — 0.006)
Hypoid driven gear runout on its back surface		mm (in)	0.05 (0.002)

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5. ADJUSTING PARTS

- T-type (except for GT spec. B 6MT model)

	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)

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	Part No.	Thickness mm (in)
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)

Drive pinion bearing preload	Measure with spring measurement. (Measured from the companion flange bolt)	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 (0.07 — 0.15, 0.49 — 1.08)
Side gear backlash		mm (in)	0.1 — 0.2 (0.004 — 0.008)
Hypoid driven gear to drive pinion backlash limit		mm (in)	0.10 — 0.20 (0.004 — 0.008)
Hypoid driven gear runout limit on its back surface		mm (in)	0.05 (0.002)

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- T-type (GT spec. B 6MT model)

Drive pinion bearing preload (For new bearing)	Measure with spring measurement. (Measured from the companion flange bolt) N (kgf, lbf)	24.1 — 38.6 (2.5 — 3.9, 5.4 — 8.7)
	Measure with torque wrench N·m (kgf-m, ft-lb)	0.91 — 1.46 (0.09 — 0.15, 0.67 — 1.08)
Preload adjusting spacer	Part No.	Length mm (in)
	31454AA130	52.2 (2.055)
	31454AA140	52.4 (2.063)
	31454AA150	52.6 (2.071)
	31454AA160	52.8 (2.079)
	31454AA170	53.0 (2.087)
	31454AA180	53.2 (2.094)
Preload adjusting washer	Part No.	Length mm (in)
	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)
Pinion height adjusting washer	Part No.	Length mm (in)
	38336AA230	3.09 (0.1217)
	38336AA240	3.12 (0.1228)
	38336AA250	3.15 (0.1240)
	38336AA260	3.18 (0.1252)
	38336AA270	3.21 (0.1264)
	38336AA280	3.24 (0.1276)
	38336AA290	3.27 (0.1287)
	38336AA300	3.30 (0.1299)
	38336AA310	3.33 (0.1311)
	38336AA320	3.36 (0.1323)
	38336AA330	3.39 (0.1335)
	38336AA340	3.42 (0.1346)
	38336AA350	3.45 (0.1358)
	38336AA360	3.48 (0.1370)
	38336AA370	3.51 (0.1382)
	38336AA380	3.54 (0.1394)
	38336AA390	3.57 (0.1406)
	38336AA400	3.60 (0.1417)
	38336AA410	3.63 (0.1429)
	38336AA420	3.66 (0.1441)
Side bearing standard width mm (in)		20.00 (0.7874)

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Side bearing retainer shim	Part No.	Thickness mm (in)
	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)
Hypoid driven gear to drive pinion backlash	Limit mm (in)	0.10 — 0.20 (0.004 — 0.008)
Driven gear rear face runout limit		0.05 (0.002)

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- 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)
	38336AA210	1.738 (0.0684)
	38336AA100	1.750 (0.0689)
	38336AA220	1.763 (0.0694)
	38336AA110	1.775 (0.0699)
Pinion height adjusting washer	32295AA200	0.150 (0.0059)
	32295AA210	0.175 (0.0069)
	32295AA220	0.200 (0.0079)
	32295AA230	0.225 (0.0089)
	32295AA240	0.250 (0.0098)
	32295AA250	0.275 (0.0108)
Side gear thrust washer	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)

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Drive pinion bearing preload	Measure with spring measurement. (Measured from the companion flange bolt)	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 (0.05 — 0.12, 0.35 — 0.9)
Side gear backlash		mm (in)	0.05 — 0.15 (0.002 — 0.006)
Hypoid driven gear to drive pinion backlash limit		mm (in)	0.10 — 0.15 (0.004 — 0.006)

General Description

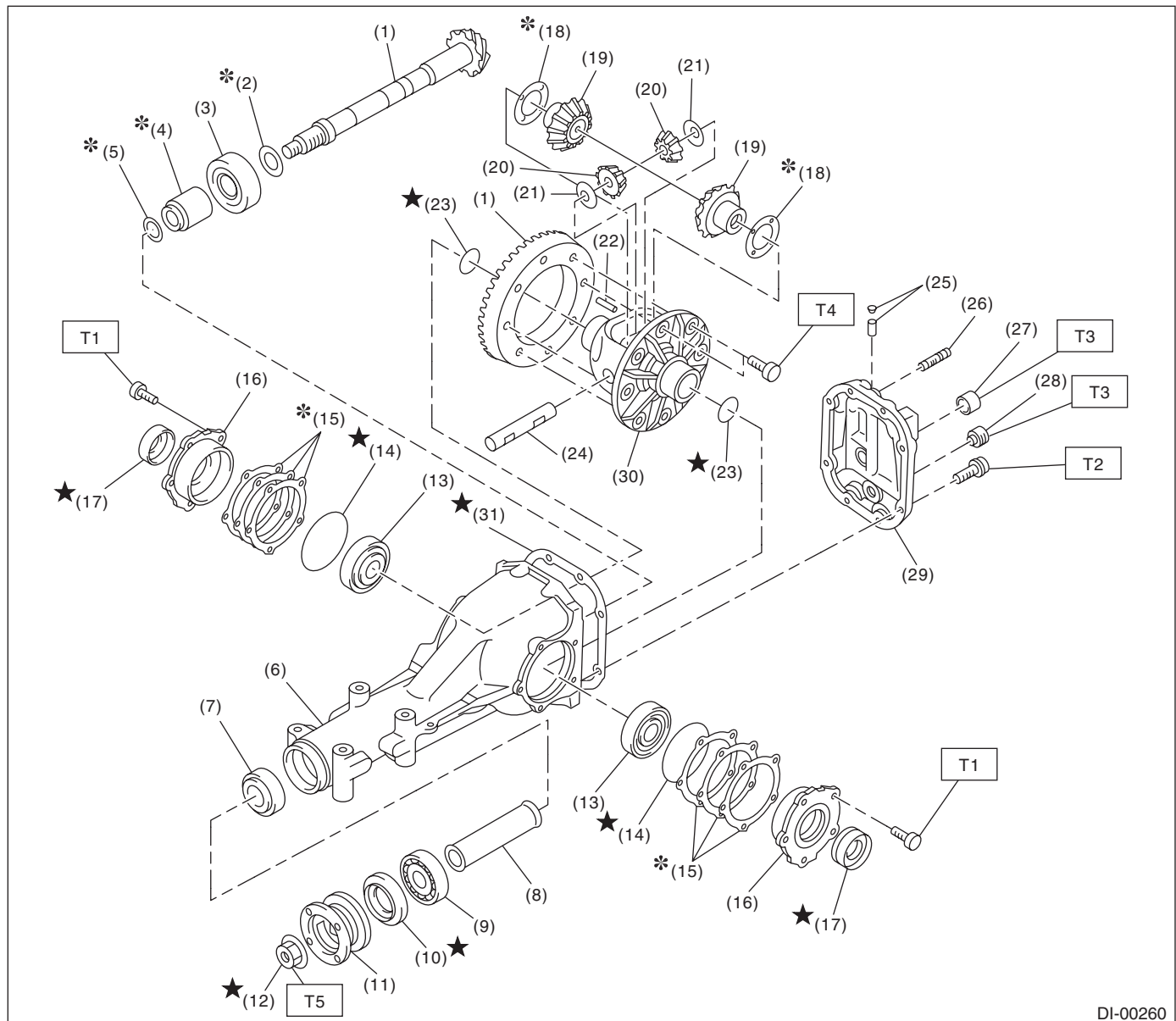
DIFFERENTIALS

- 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. (Measured from the companion flange bolt)	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 (0.05 — 0.12, 0.35 — 0.9)	
Hypoid driven gear to drive pinion backlash limit			mm (in)	0.10 — 0.15 (0.004 — 0.006)

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

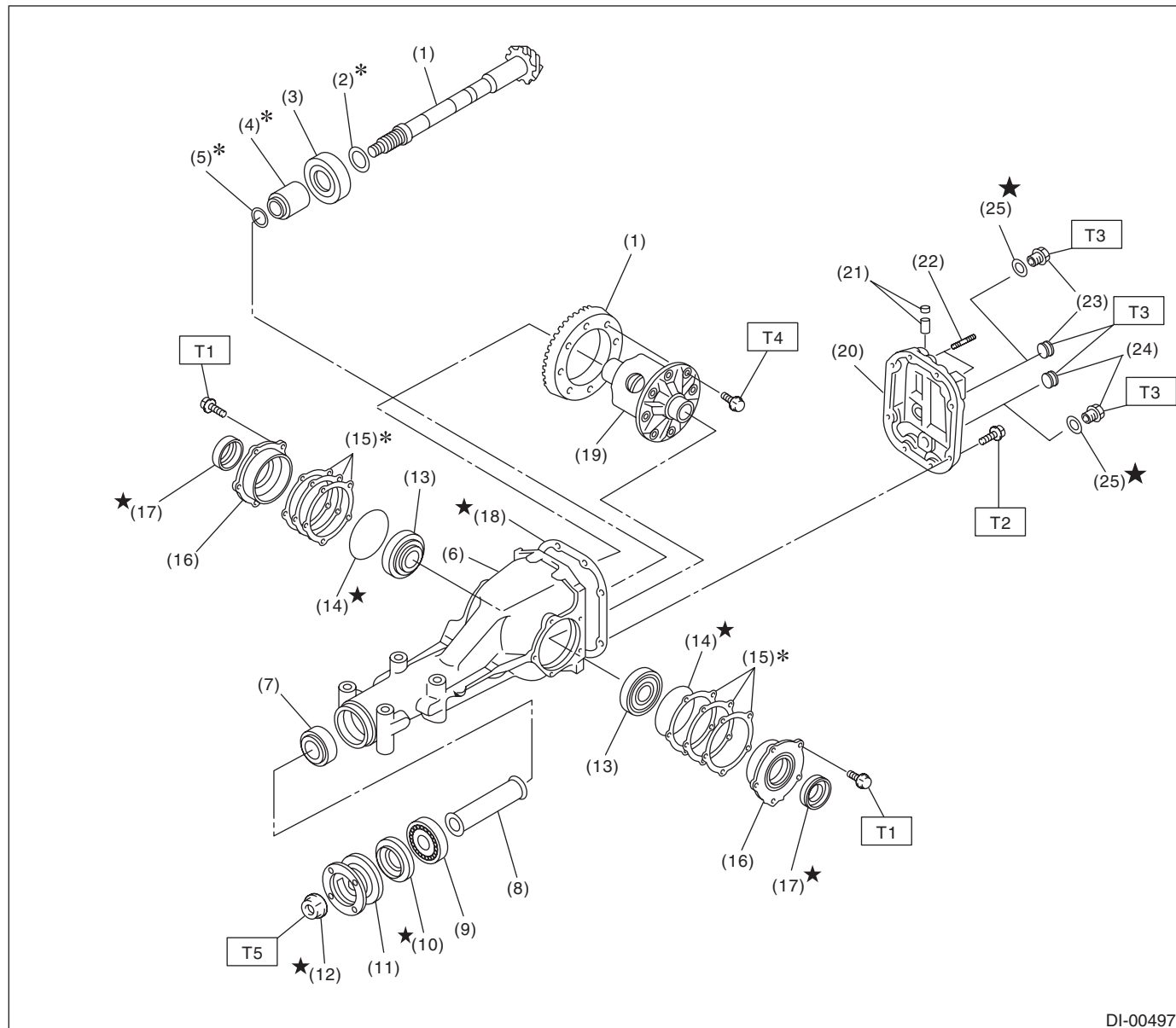
- (26) Stud bolt
- (27) Oil filler plug
- (28) Oil drain plug
- (29) Rear cover
- (30) Differential case
- (31) Gasket

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, 76.0)****T5: 181.5 (18.5, 134.0)**

General Description

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2. REAR DIFFERENTIAL WITH LSD (T-TYPE)



DI-00497

- | | |
|---|------------------------------------|
| (1) Hypoid driven gear and drive pinion set | (13) Side bearing |
| (2) Pinion height adjusting washer | (14) O-ring |
| (3) Rear bearing | (15) Side bearing retainer shim |
| (4) Bearing preload adjusting collar | (16) Side bearing retainer |
| (5) Bearing preload adjusting washer | (17) Side oil seal |
| (6) Differential carrier | (18) Gasket |
| (7) Front bearing | (19) Differential case ASSY |
| (8) Collar | (20) Rear cover |
| (9) Pilot bearing | (21) Air breather cap |
| (10) Front oil seal | (22) Stud bolt |
| (11) Companion flange | (23) Oil filler plug |
| (12) Self-locking nut | (24) Oil drain plug |
| | (25) Gasket (GT spec. B 6MT model) |

Tightening torque: N·m (kgf-m, ft-lb)

T1: 10.5 (1.1, 7.7)

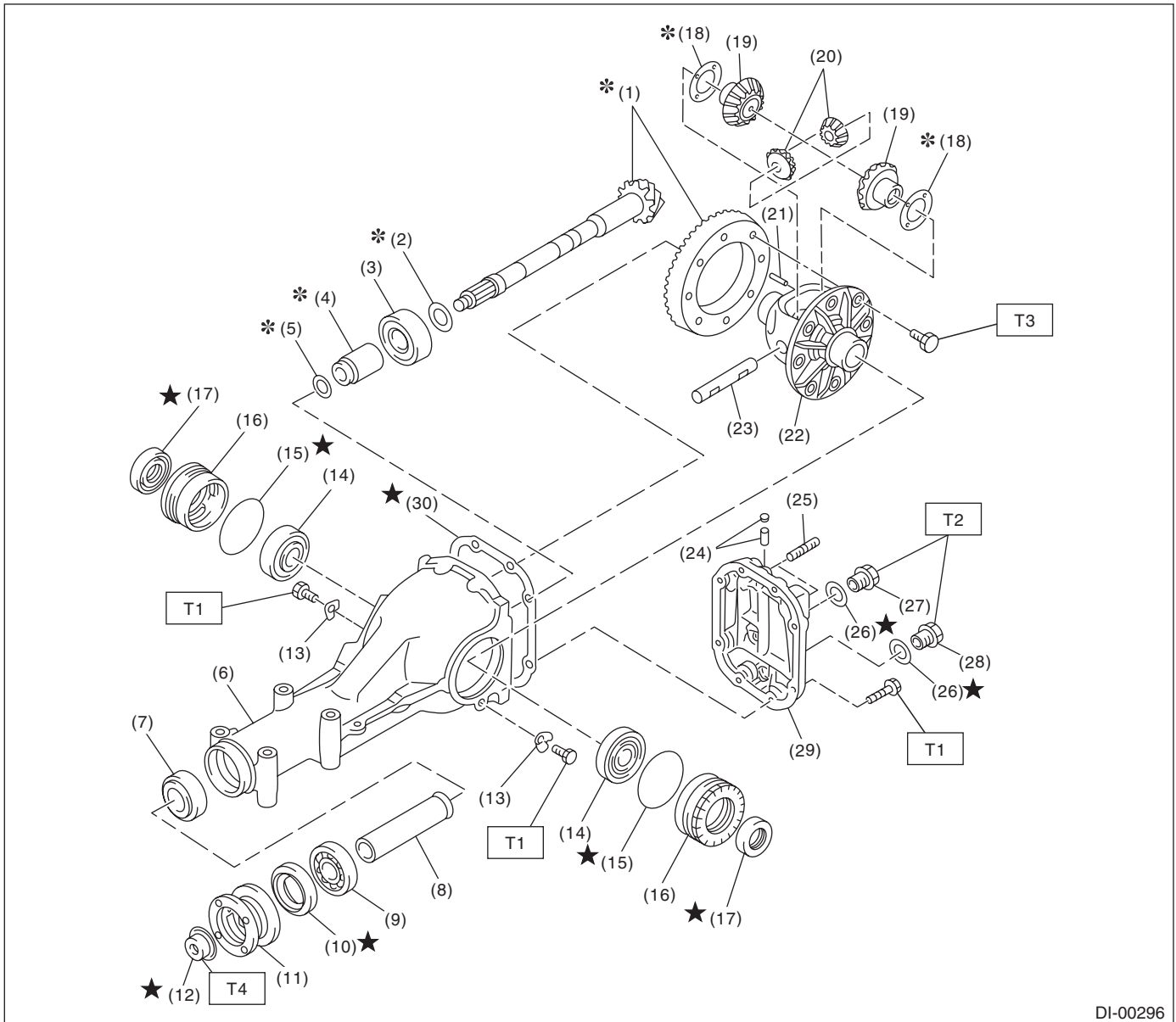
**T2: 29.5 (30, 21.8) (Except for GT spec. B 6MT model)
44 (4.5, 32.5) (GT spec. B 6MT model)**

**T3: 49 (5.0, 36.2) (Except for GT spec. B 6MT model)
60 (6.1, 44.3) (GT spec. B 6MT model)**

T4: 103 (10.5, 76.0)

T5: 181.5 (18.5, 134.0)

3. REAR DIFFERENTIAL (VA1-TYPE)



DI-00296

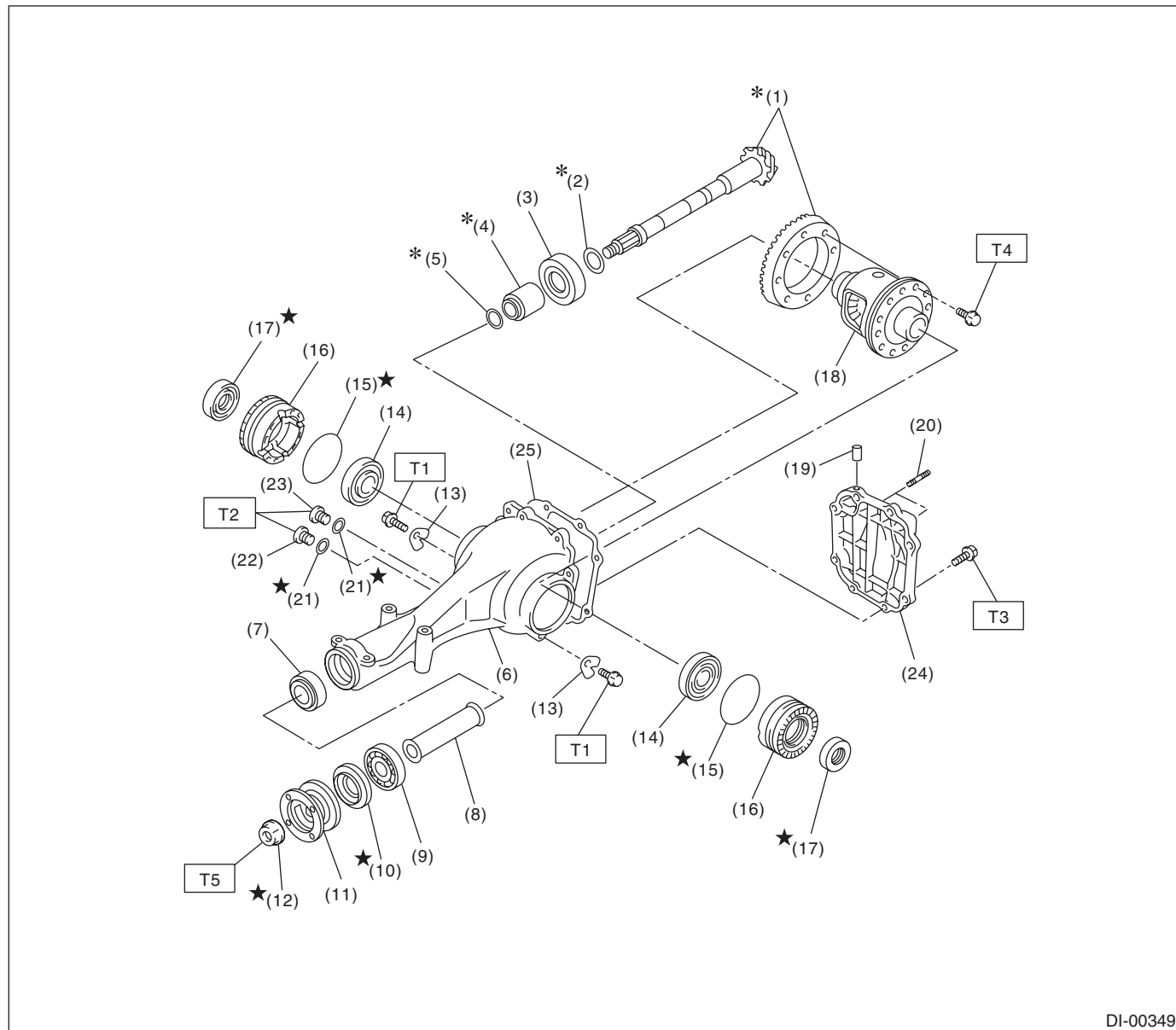
- | | | |
|---|------------------------------|----------------------|
| (1) Hypoid driven gear and drive pinion set | (13) Lock plate | (26) Gasket |
| (2) Pinion height adjusting washer | (14) Side bearing | (27) Oil filler plug |
| (3) Rear bearing | (15) O-ring | (28) Oil drain plug |
| (4) Bearing preload adjusting collar | (16) Axle shaft holder | (29) Rear cover |
| (5) Bearing preload adjusting washer | (17) Side oil seal | (30) Gasket |
| (6) Differential carrier | (18) Side gear thrust washer | |
| (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 | |
| | (25) Stud bolt | |

Tightening torque: N·m (kgf-m, ft-lb)**T1: 25 (2.5, 18.5)****T2: 34 (3.5, 25.1)****T3: 62 (6.3, 45.8)****T4: 191 (19.5, 141.0)**

General Description

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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, 18.5)

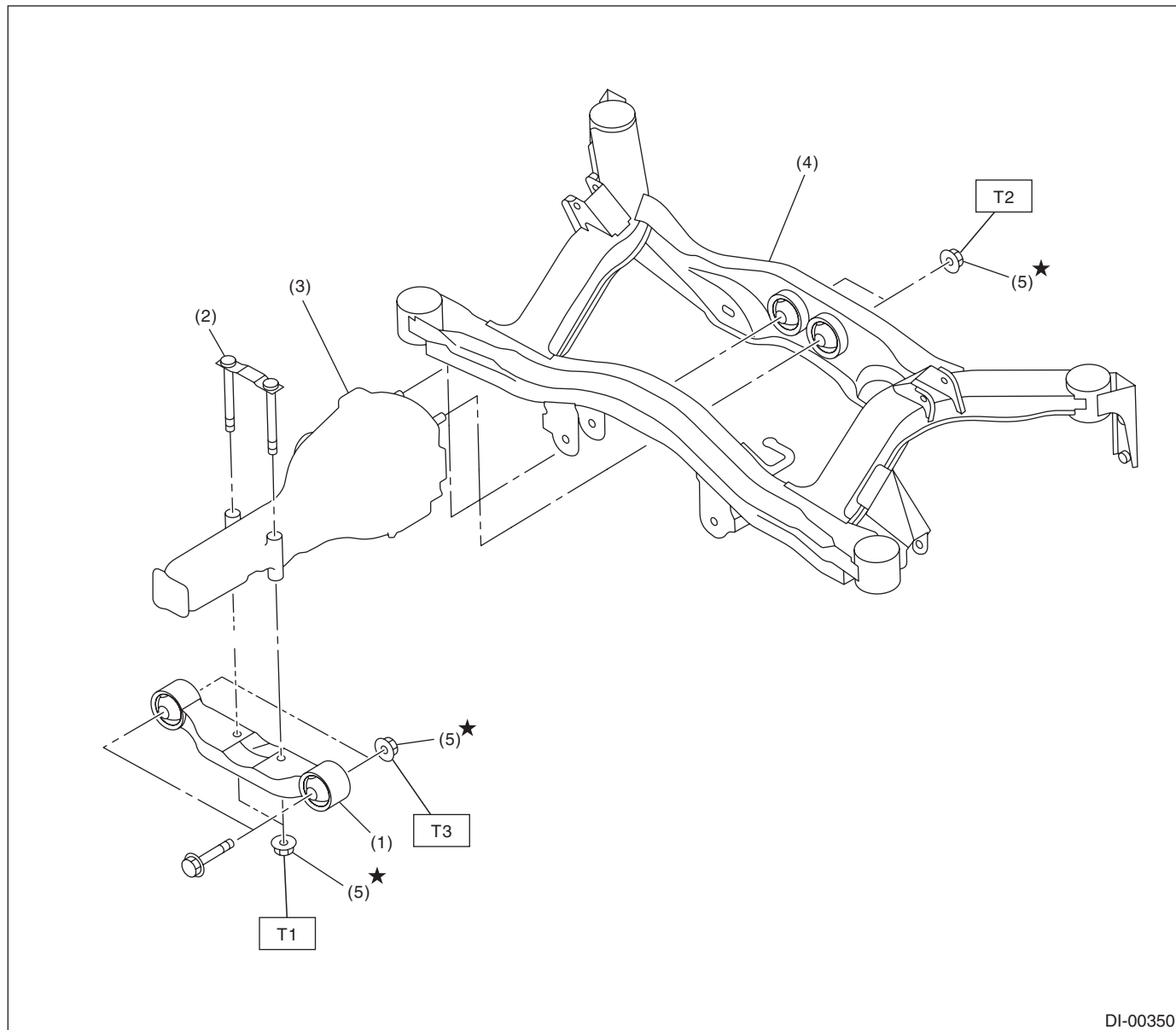
T2: 29 (3.0, 21.4)

T3: 34 (3.5, 25.1)

T4: 62 (6.3, 45.8)

T5: 191 (19.5, 141.0)

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: 50 (5.1, 36.9)

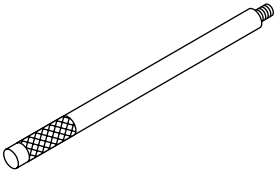
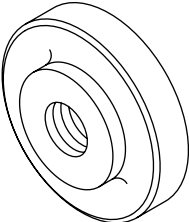
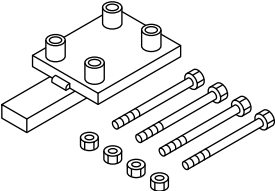
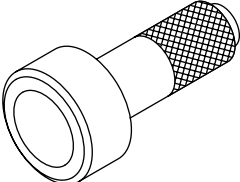
T2: 70 (7.1, 51.6)

T3: 110 (11.2, 81)

C: CAUTION

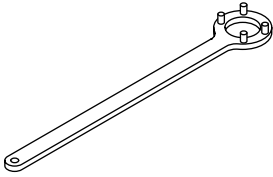
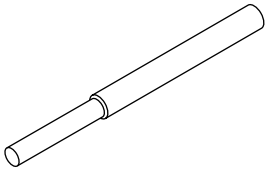
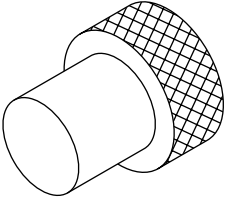
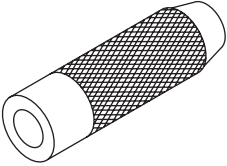
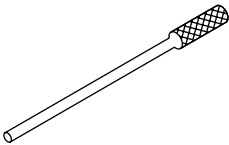
- Wear appropriate work clothing, including a cap, protective goggles and protective shoes when performing any work.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, 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 gear oil, 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.

D: PREPARATION TOOL**1. SPECIAL TOOL**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-398477701	398477701	HANDLE	Used for installing the front and rear bearing cones.
 ST-398477702	398477702	DRIFT	• Used for press-fitting the bearing cone of differential carrier (front). • For T-type
 ST-398217700	398217700	ATTACHMENT SET	Stand for rear differential carrier disassembly and assembly.
 ST-498447120	498447120	INSTALLER	Used for installing the front oil seal.

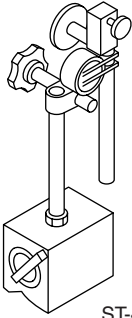
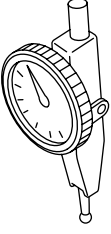
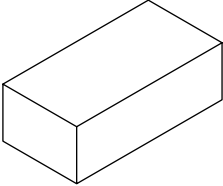
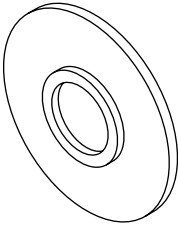
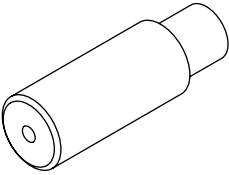
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498427200	498427200	FLANGE WRENCH	Used for stopping rotation of companion flange when removing and tightening self-lock nut.
 ST-398467700	398467700	DRIFT	• Used for removing pinion, pilot bearing and front bearing cone. • For T-type and VA1-type
 ST-399780104	399780104	WEIGHT	Used for installing the front bearing cone and the pilot bearing companion flange.
 ST-899580100	899580100	INSTALLER	Used for press-fitting the front bearing cone and pilot bearing.
 ST-899904100	899904100	STRAIGHT PIN REMOVER	Used for driving out differential pinion shaft lock pin.

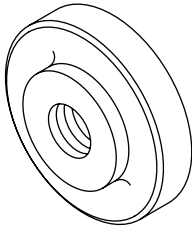
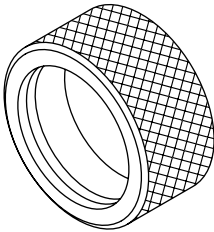
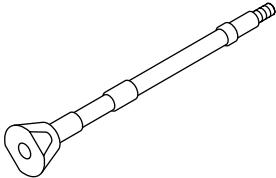
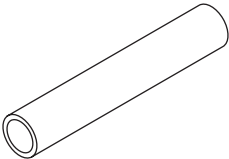
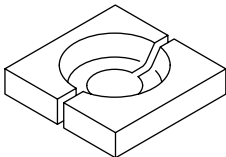
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498247001	498247001	MAGNET BASE	- Used for measuring backlash between side gear and pinion, and hypoid gear. - Used together with the DIAL GAUGE (498247100).
 ST-498247100	498247100	DIAL GAUGE	- Used for measuring backlash between side gear and pinion, and hypoid gear. - Used together with the MAGNET BASE (498247001).
 ST-398507704	398507704	BLOCK	- Used for adjusting pinion height and preload. - For T-type and VA1-type
 ST-398177700	398177700	INSTALLER	- Used for installing the rear bearing cone. - For T-type and VA2-type
 ST-398457700	398457700	ATTACHMENT	- Used for removing the side bearing retainer. - For T-type

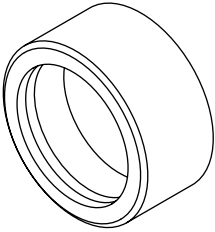
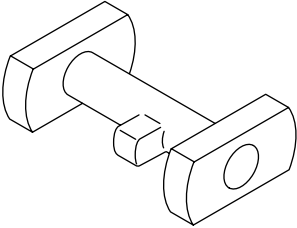
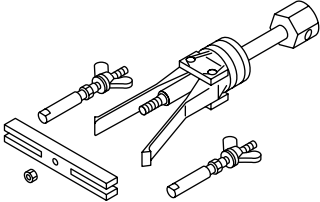
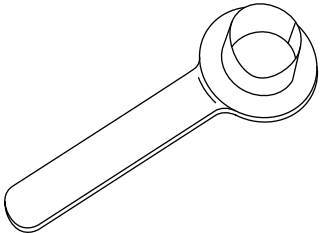
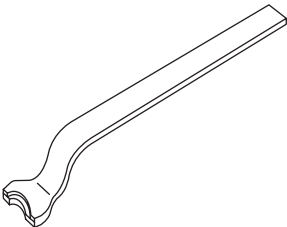
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-398477703	398477703	DRIFT 2	- Used for press-fitting bearing race (rear) of differential carrier. - For T-type and VA2-type
 ST-398437700	398437700	DRIFT	- Used for installing the side oil seal. - For T-type and VA2-type
 ST-398507702	398507702	DUMMY SHAFT	- Used for adjusting pinion height and preload. - For T-type
 ST-398507703	398507703	DUMMY COLLAR	- Used for adjusting pinion height and preload. - For T-type
 ST-398517700	398517700	REPLACER	- Used for removing rear bearing cone. - For T-type and VA2-type

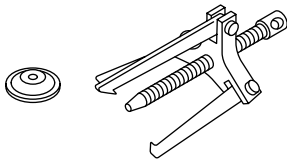
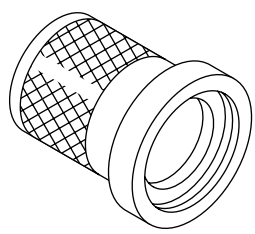
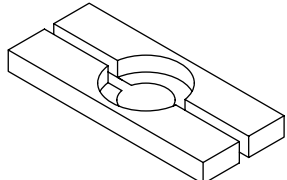
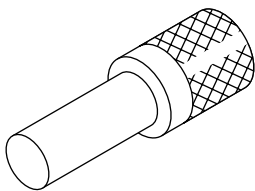
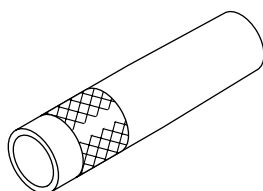
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-398487700	398487700	DRIFT	- Used for press-fitting side bearing cone. - For T-type and VA2-type
 ST-398507701	398507701	DIFFERENTIAL CARRIER GAUGE	- Used for adjusting pinion height. - For T-type
 ST-398527700	398527700	PULLER ASSY	- Used for removing front oil seal. - Used for removing side bearing cup. (T-type)
 ST28099PA090	28099PA090	OIL SEAL PROTECTOR	- Used for installing the rear drive shaft to the rear differential. - For oil seal protection
 ST28099PA100	28099PA100	DRIVE SHAFT REMOVER	- Used for removing the rear drive shaft from rear differential. - For T-type

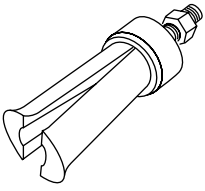
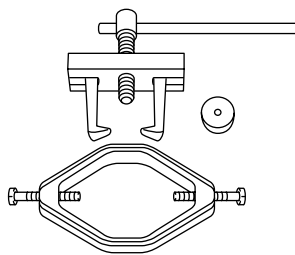
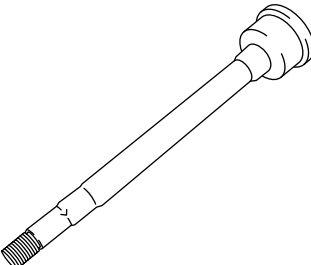
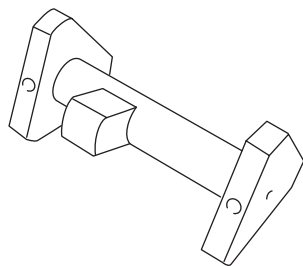
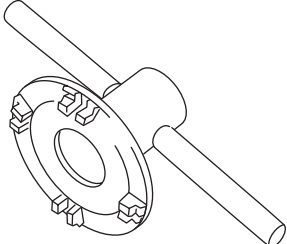
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-399703600	399703600	PULLER ASSY	Used for removing companion flange.
 ST-899874100	899874100	INSTALLER	Used for installing the companion flange.
 ST-498077000	498077000	REMOVER	• Used for removing the differential side bearing cone. • For VA2-type
 ST-899864100	899864100	REMOVER	Used for removing the differential side bearing.
 ST-499277200	499277200	INSTALLER	• Used for installing the front bearing cone. • For VA2-type

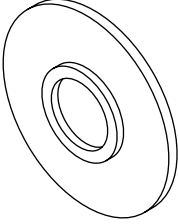
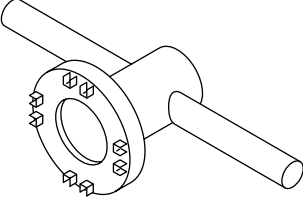
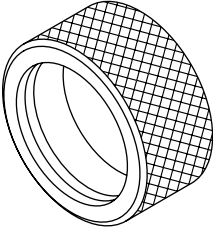
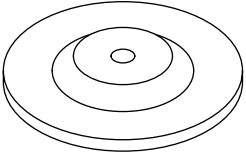
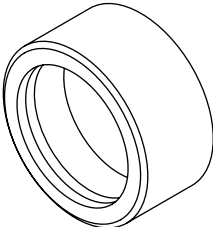
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST18758AA000	18758AA000	PULLER	- Used for removing side bearing cup. - For VA2-type
 ST18759AA000	18759AA000	PULLER ASSY	- Used for removing the differential side bearing cone. - For T-type
 ST18678AA000	18678AA000	DUMMY SHAFT	- Used for adjusting pinion height and preload. - For VA2-type
 ST18831AA010	18831AA010	DIFFERENTIAL CARRIER GAUGE	- Used for adjusting pinion height. - For VA2-type
 ST18630AA010	18630AA010	WRENCH ASSY	- Used for removing and installing the side oil seal holder. - For VA2-type NOTE: Also available for VA1-type.

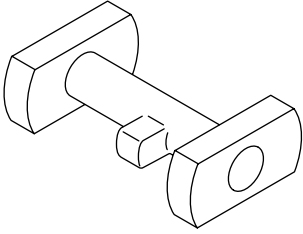
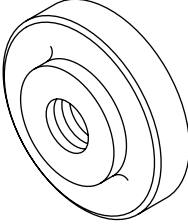
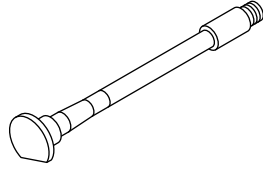
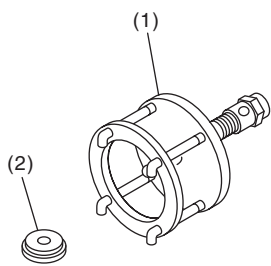
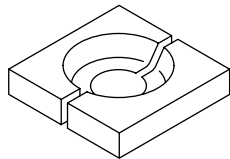
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498175500	498175500	INSTALLER	- Used for installing the rear bearing cone. - For VA1-type
 ST-499785500	499785500	WRENCH ASSY	- Used for removing and installing the side oil seal holder. - For VA1-type
 ST-498447100	498447100	INSTALLER	- Used for installing the oil seal. - For VA1-type and T-type
 ST-399520105	399520105	SEAT	- Used for removing the side bearing cone. - Used together with the PULLER SET (899524100). - For VA-type
 ST-498485400	498485400	DRIFT	- Used for installing side bearing cone. - For VA1-type

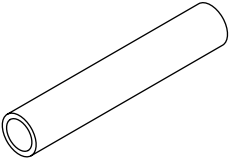
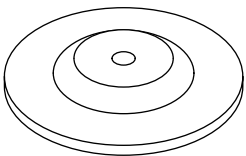
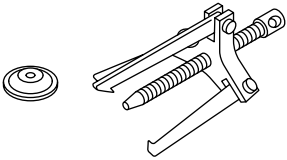
General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498505501	498505501	DIFFERENTIAL CARRIER GAUGE	- Used for adjusting pinion height. - For VA1-type
 ST-498447110	498447110	DRIFT	- Used for press-fitting the bearing race (front) of the differential carrier. - For VA1-type
 ST-498447150	498447150	DUMMY SHAFT	- Used for adjusting pinion height and preload. - For VA1-type
 ST-899524100	899524100	PULLER SET	Used for removing the differential side bearing cone. (1) Puller (2) Cap
 ST-498515500	498515500	REPLACER	- Used for removing rear bearing cone. - For VA1-type

General Description

DIFFERENTIALS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST32285AA000	32285AA000	DUMMY COLLAR	- Used for adjusting pinion height and preload. - For VA1-type
 ST-499705404	499705404	SEAT	- Used for removing the side bearing race. - Used together with PULLER ASSY (499705401). - For VA1-type
 ST-499705401	499705401	PULLER ASSY	- 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 front drive shaft. (VA-type)