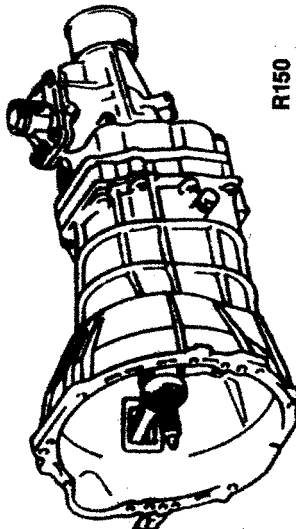
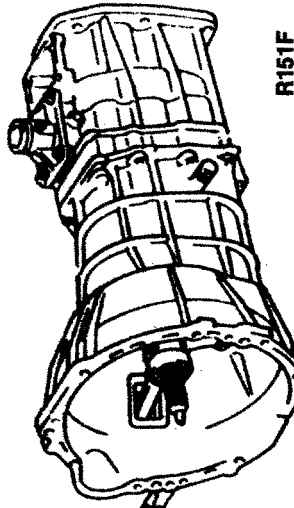
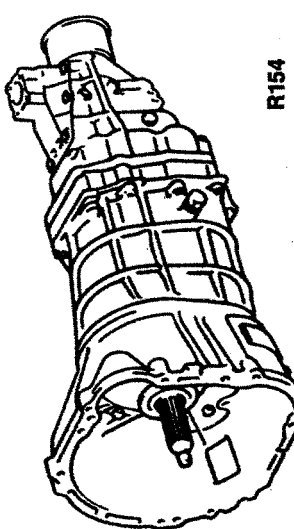
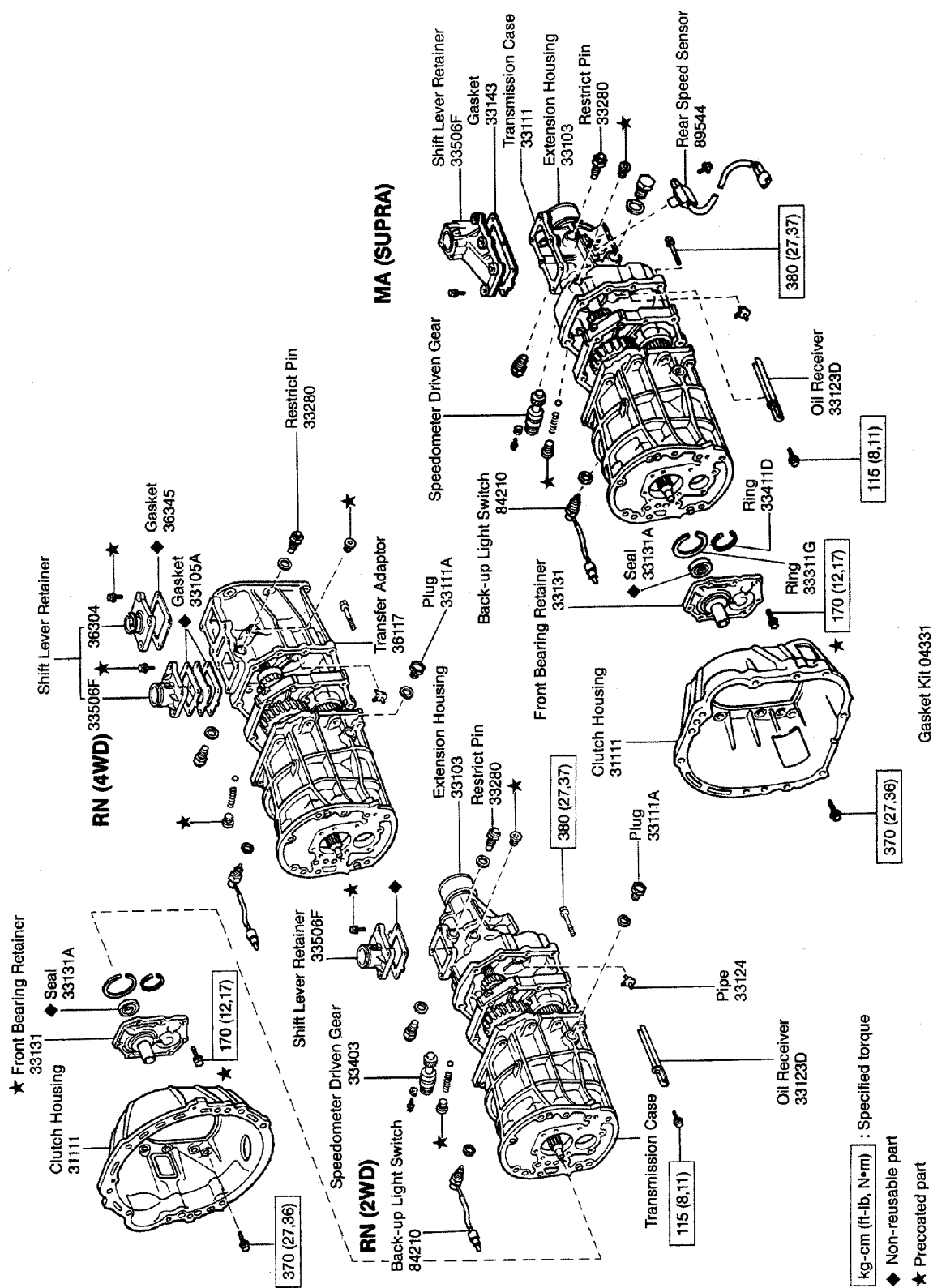


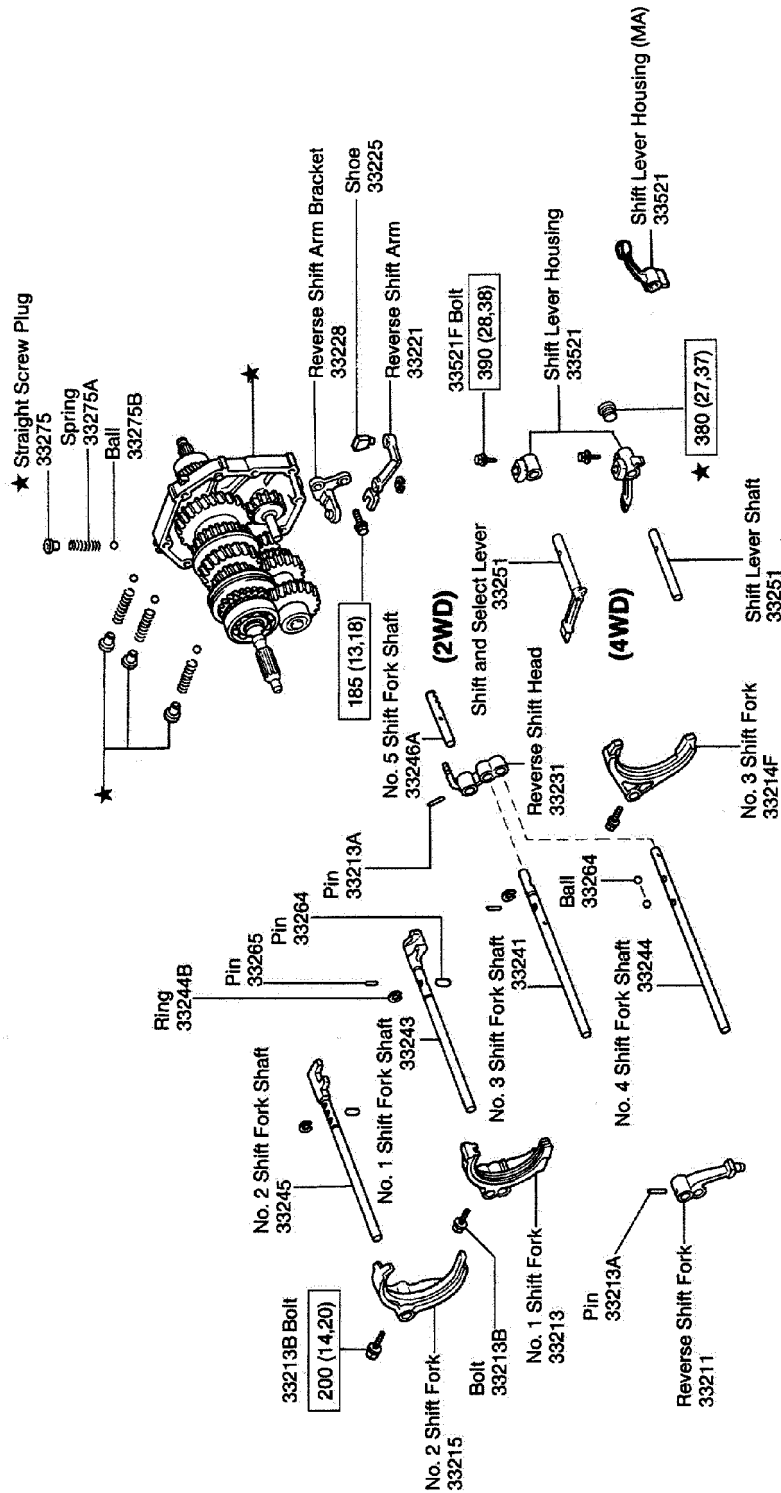
Appendix D

Identification Charts

R SERIES TRANSMISSIONS

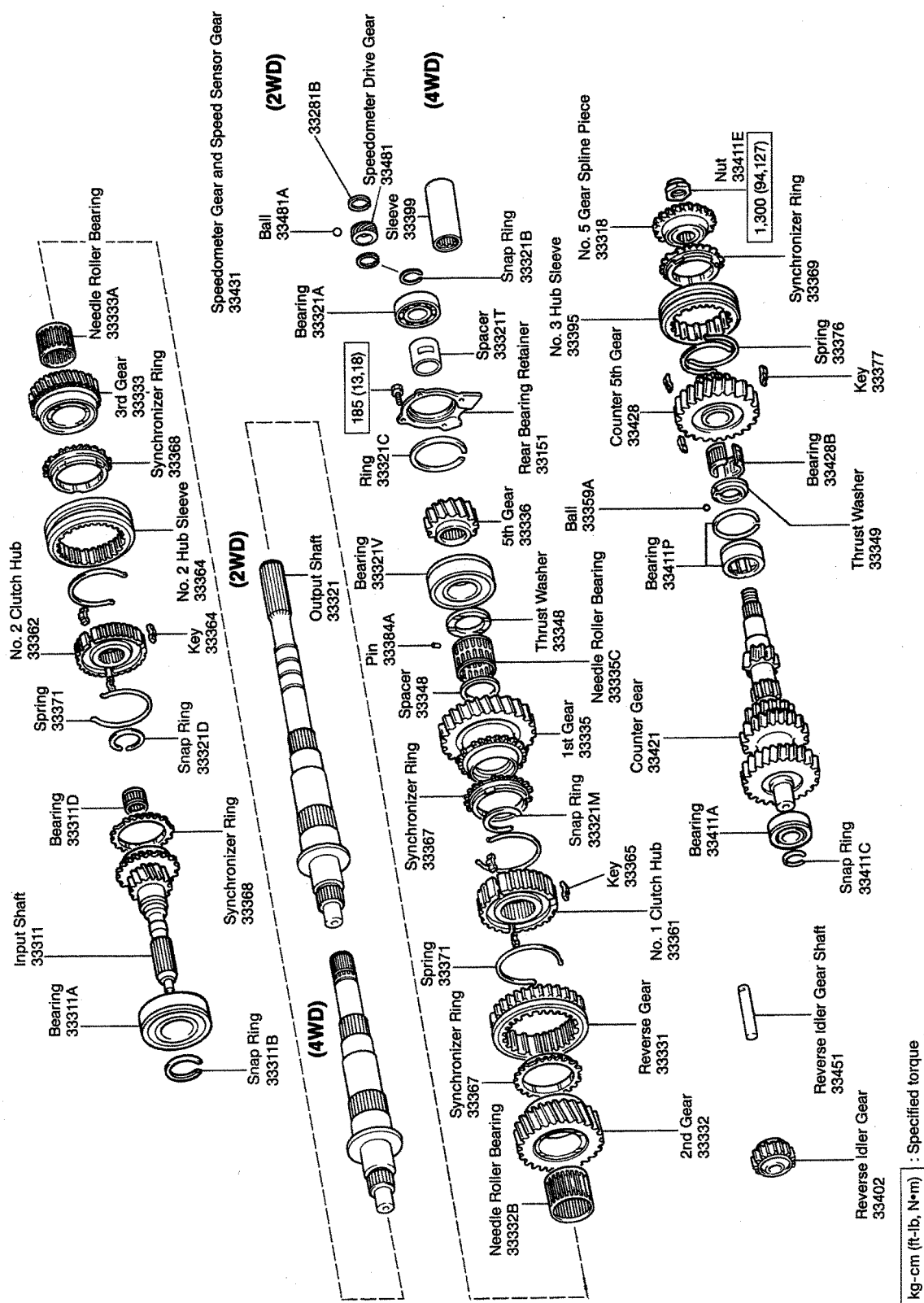
TRANSMISSION SERIES	MODEL/YEAR	KEY DIFFERENCES	LUBRICANT/CAP.
 R150	RN55 TRUCK/ 1986 - ON	▶ Starter mounts on right side of clutch housing ▶ Shift lever retainer is smaller than R154 and mounts flat on extension housing ▶ Release fork opening is on right side of the clutch housing ▶ Cast iron intermediate plate	SAE 75W-90 or 80W-90/ 2.6L (2.7 qt.)
 R151F	1986 - ON	▶ Basically the same as the R150 ▶ Extension housing is changed for adding the transfer case ▶ Output shaft is shorter than the R150 ▶ I.D. No. - Bottom side of intermediate plate (all transmissions)	SAE 75W-90 or 80W-90/ 3.0L (3.2 qt.)
 R154	MA70 SUPRA 1986½ - ON	▶ Starter mount on left side of clutch housing ▶ Access holes in clutch housing for clutch cover bolts ▶ Intermediate plate is cast iron ▶ Speed sensor mounted on extension housing ▶ Shift lever retainer mounted at an angle on the extension housing	I.D. No. NOTE: 3 0 9 0 0 0 0 0 5-digit Production Number or 2-Digit Production Number Manufacturing Month: January → 01 December → 12 Last Digit of Manufacturing Year: 1983

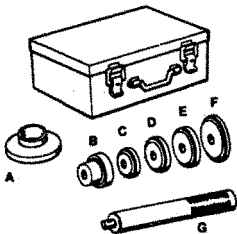
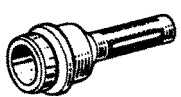
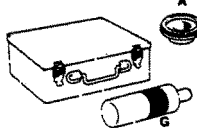
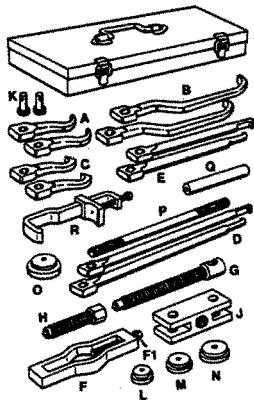
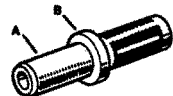
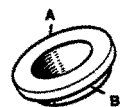
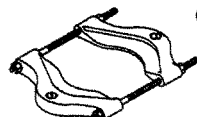




kg-cm (ft-lb, N-m) : Specified torque

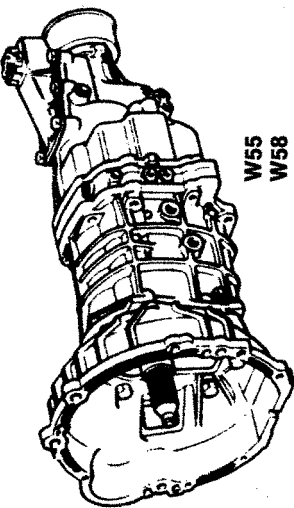
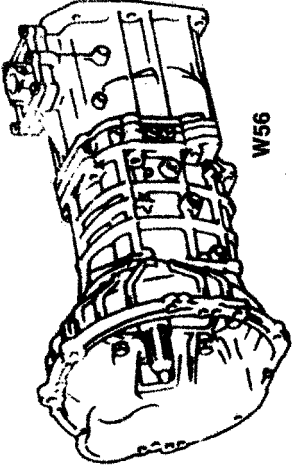
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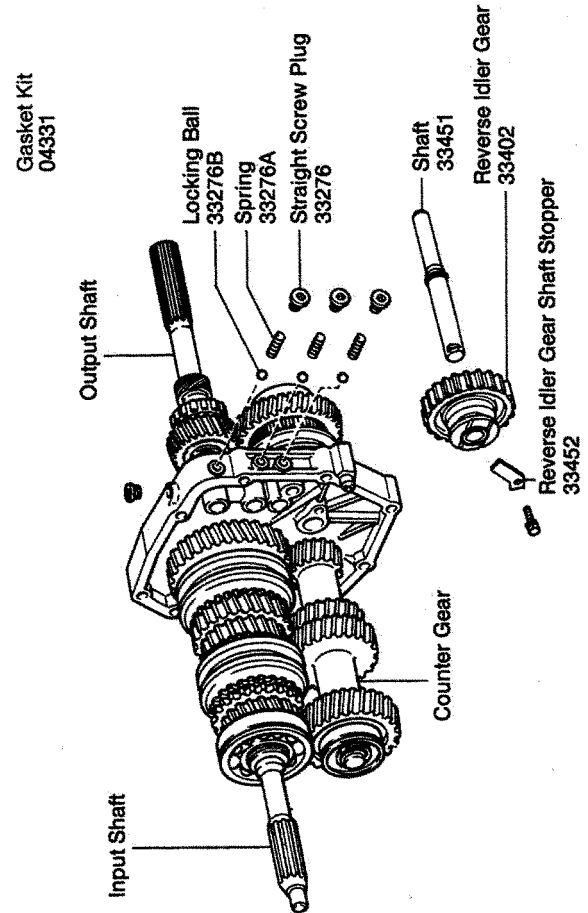
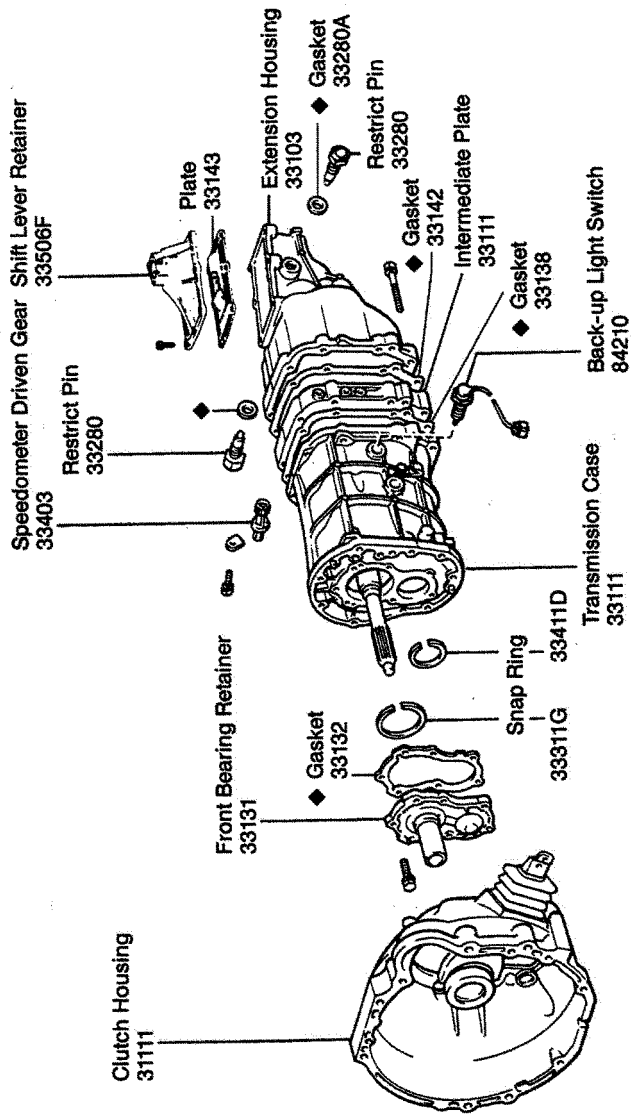


Tool No.	Description	Tool No.	Description
 09201-60011 (Essential Tool)	Remover & Replacer, Speedometer driven gear oil seal	 09608-12010	Replacer Set, E. 09608-00030 Counter rear bearing G. 09608-00020 Handle
 09213-31021	Puller, No. 5 gear spline piece		
 09223-50010	Replacer, Front bearing retainer oil seal		
 09316-60010 (Essential Tool)	Replacer, F. 09316-00020 5th gear	 09950-20017 (Essential Tool)	Puller, Universal A. 09953-20010 Jaw (Pair) B. 09953-20021 Jaw (Pair) C. 09953-55010 Jaw (Pair) D. 09953-35021 Jaw (Pair) E. 09953-35011 Jaw (Pair) F. 09956-20010 Tightening Piece F1. 09954-20011 Adjusting Screw G. 09952-20010 Screw H. 09952-36010 Screw J. 09955-20012 Prop K. 09957-20010 Pin (Pair) L. 09958-20010 Disc E M. 09958-30020 Disc D N. 09958-30010 Disc C O. 09958-55010 Disc A P. 09959-20010 Handle Q. 09964-35010 Adapter R. 09956-00010 Tightening Piece
 09325-40010 (Essential Tool)	Plug, Transmission Oil A. 39.75mm B. 57mm		
 09506-35010	Input shaft bearing, output shaft center bearing, output shaft rear bearing and 5th gear		
 09555-55010-01 (Essential Tool)	Differential Drive Pinion Bearing Remover		

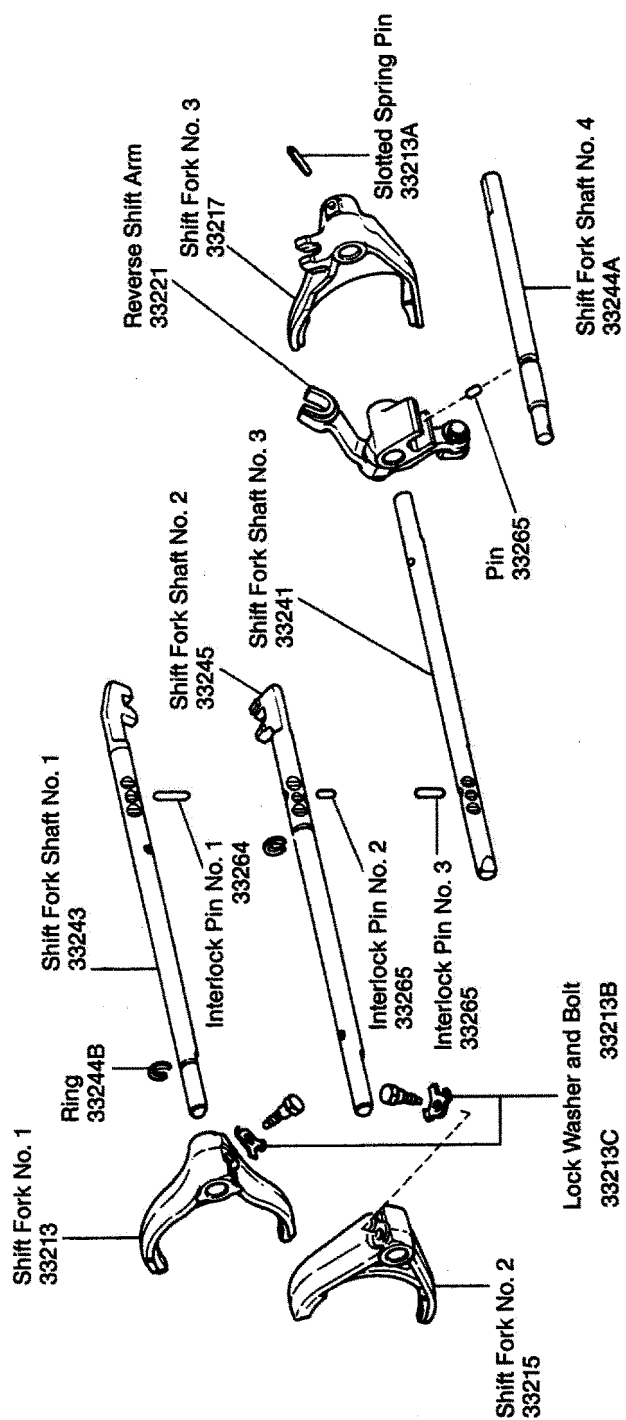
*SST's not listed are common tools which are available locally (refer to SST Catalog).

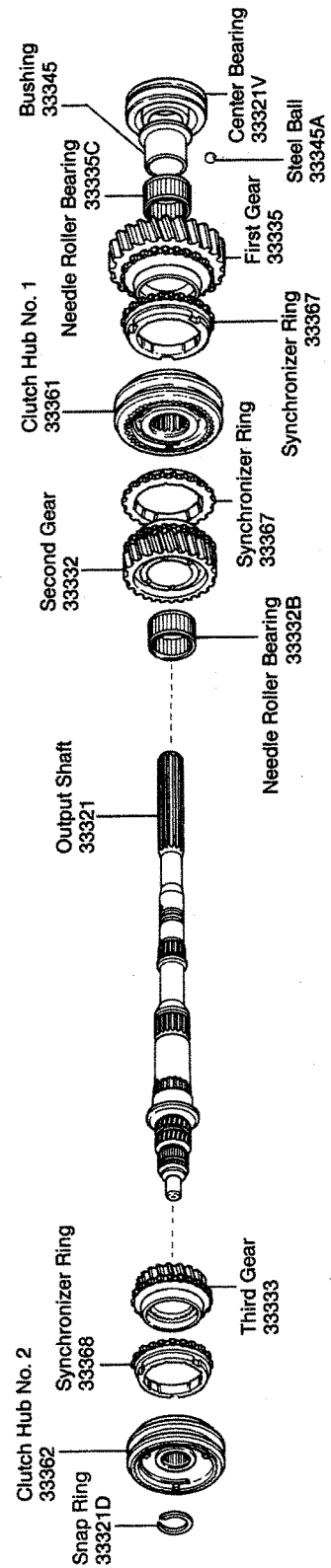
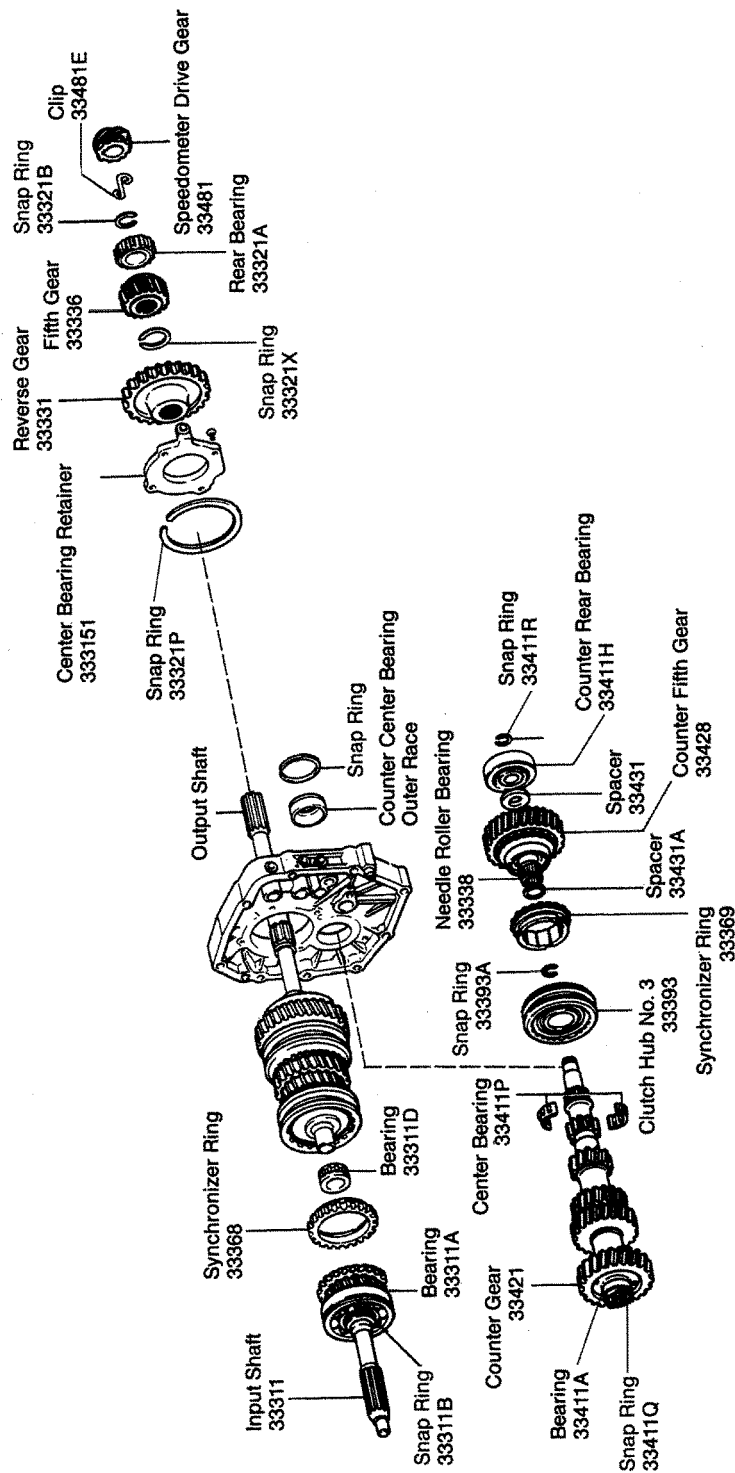
W SERIES TRANSMISSIONS

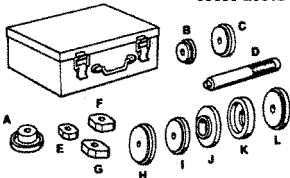
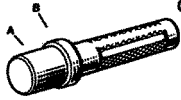
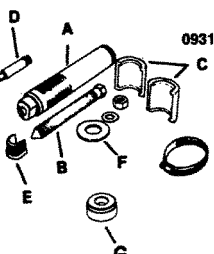
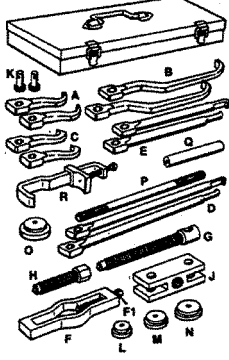
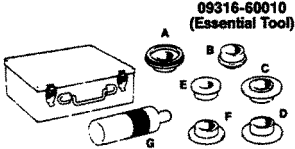
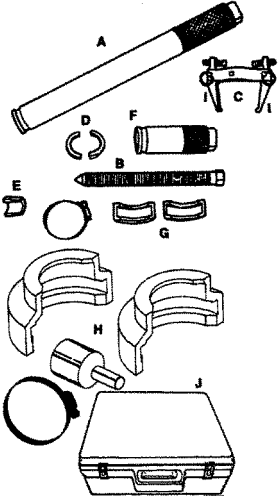
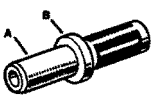
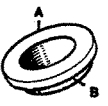
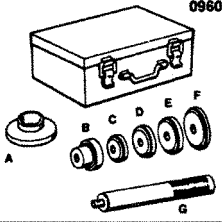
TRANSMISSION SERIES	MODEL/YEAR	KEY DIFFERENCES	LUBRICANT/CAP.
 W55 W58	W55 RA43B, CELICA/ 1981 - W58 MX7# CRESSIDA/ 1985 - 1989 JZA, MA7# SUPRA/ 1986 - 1997	▶ Starter mounts on right side of clutch housing ▶ Shift lever retainer is mounted at an angle on the extension housing ▶ Case parts are cast aluminum	RA CELICA W58 1982 - 1985 MA, SUPRA JZA W58 1982 - 1997
	W46 RN5#, LN56 TRUCK/ 1985 - 1991 W56 RN5#, 7# TRUCK/ 1985 - 1993 W55 RN TRUCK 1987 - 1995	▶ Basically the same as the W55, W58 ▶ Extension housing is changed in construction ▶ I.D. No. - Bottom side of intermediate plate (W46, 55, 56, 58)	SAE 75W-90 or 80W-90/ 4x2 - 2.4L (2.5 qt.) 4x4 - 3.0L (3.2 qt.)
 W56	W56 RN6# TRUCK/ 1986 - 1995	▶ Addition of the transfer case housing	I.D. No. NOTES: 3 0 9 0 0 0 0 0 5-digit Production Number or 2-Digit Production Number Manufacturing Month: January -- 01 December -- 12 Last Digit of Manufacturing Year: 1983



◆ Non-reusable part

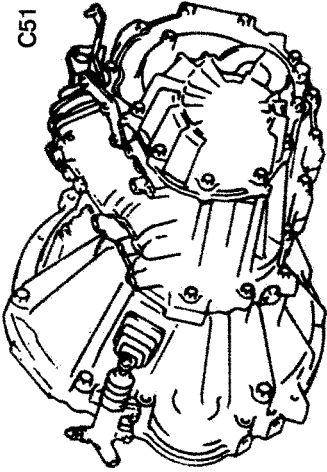
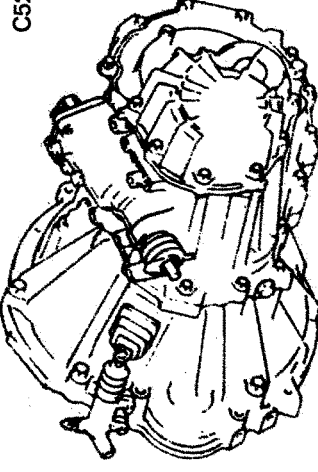
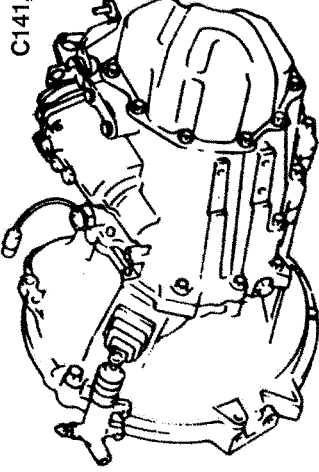


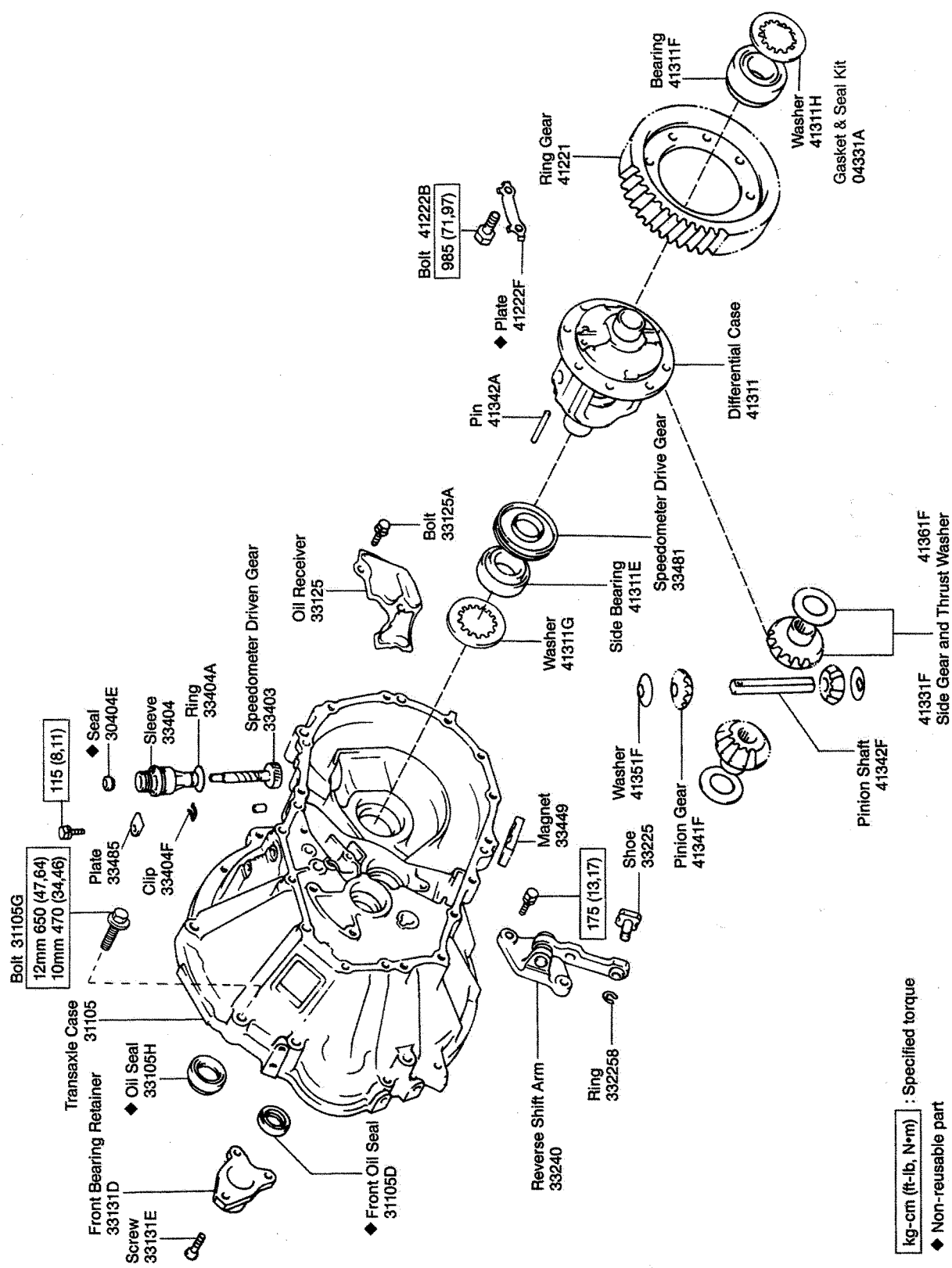


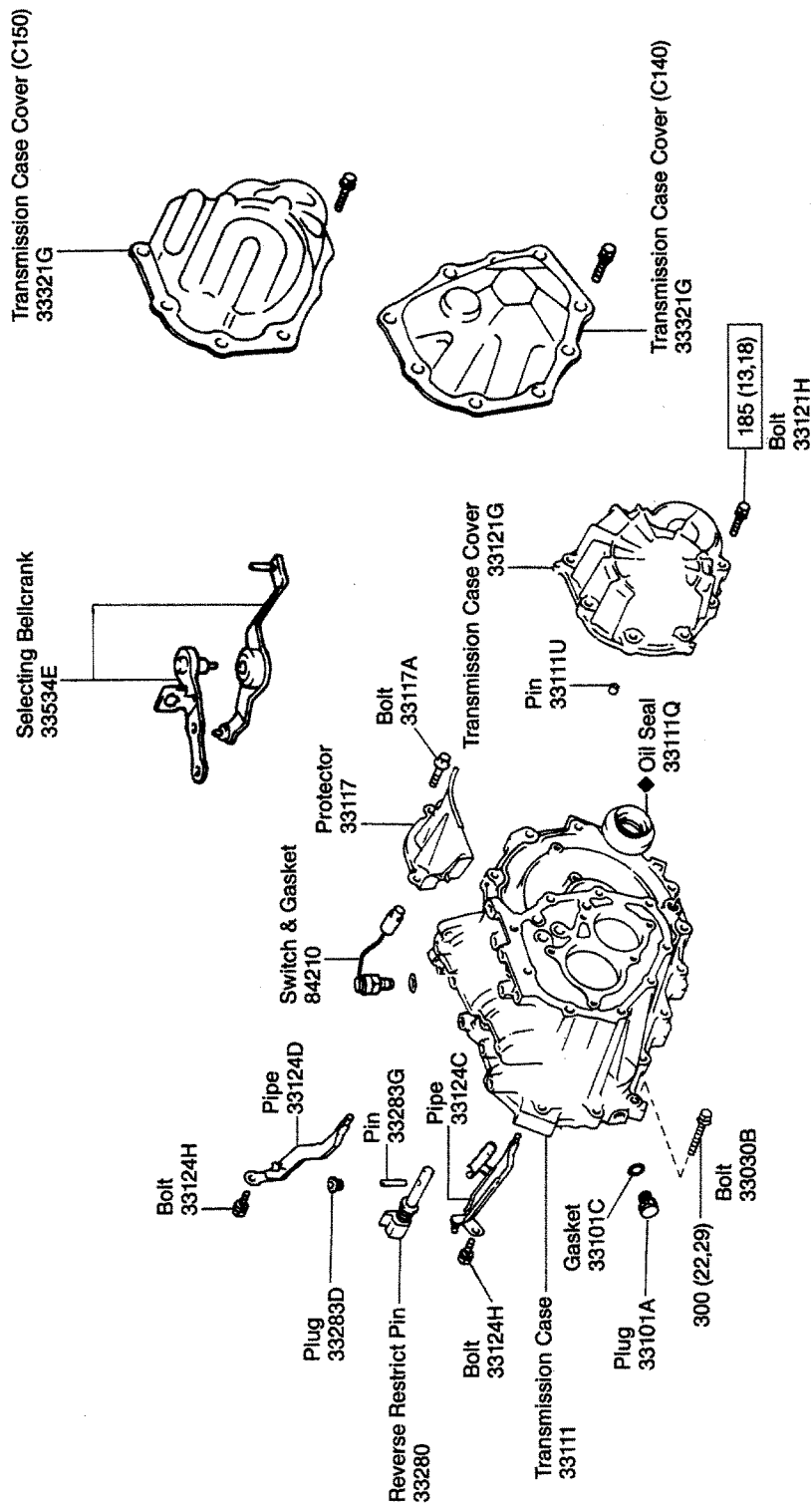
Tool No.	Description	Tool No.	Description
 09201-60011 (Essential Tool)	Remover & Replacer, Speedometer driven gear oil seal	 09608-20012	Tool Set, A. 09608-00080 Front bearing retainer oil seal
 09307-30010	Replacer, Extension Housing Bushings A. 38mm B. 42mm		
 09308-00010	Puller, Oil Seal		
 09308-10010	Puller, Oil Seal		
 00002-00907 (Essential Tool)	5th Gear Remover/Replacer A. 00002-00907-1 Remover/ Replacer Tube (273mm/10 1/4") B. 00002-00907-8 Forcing Screw C. 00002-00907-3 Collet Pair D. 00002-00907-4 Replacer Shaft E. 00002-00907-5 Replacer Shaft Collar F. 00002-00907-6 Washer G. 211206 Bearing	 09950-20017 (Essential Tool)	Puller, Universal A. 09953-20010 Jaw (Pair) B. 09953-20021 Jaw (Pair) C. 09953-55010 Jaw (Pair) D. 09953-35021 Jaw (Pair) E. 09953-35011 Jaw (Pair) F. 09956-20010 Tightening Piece F1. 09954-20011 Adjusting Screw G. 09952-20010 Screw H. 09952-36010 Screw J. 09955-20012 Prop K. 09957-20010 Pin (Pair) L. 09958-20010 Disc E M. 09958-30020 Disc D N. 09958-30010 Disc C O. 09958-55010 Disc A P. 09959-20010 Handle Q. 09964-35010 Adapter R. 09956-00010 Tightening Piece
 09313-30021	Socket, Detent Ball Plug (6mm Hex)		
 09316-60010 (Essential Tool)	Replacer, B. 09316-00070 counter gear center outer race bearing G. Handle	 00002-00907-01 (Essential Tool)	Transmission Bearing Service Set A. 00002-00907-7 Remover/ Replacer (400mm/15 3/4") B. 00002-00907-8 Forcing Screw C. 00002-00907-9 Bearing Puller D. 00002-00907-10 Puller Ring Half E. 00002-00907-11 Replacer Shaft Collar F. 00002-00907-12 Remover/ Replacer (140mm/5 1/2") G. 00002-00907-13 Collet Halves (for ATM Front Pump) H. 00002-00907-14 5th Gear Hub Puller (Use with 00002-00907) I. 304839 Jaw (ea.) J. 00002-10001 Carrying Case
 09325-20010	Plug, Transmission Oil A. 32mm B. 57mm		
 09506-35010	Replacer, Input shaft bearing A. 70mm B. 48mm		
 09608-12010	Replacer Set, C. 09608-00030 Output shaft rear bearing outer race G. Handle		

*SST's not listed are common tools which are available locally (refer to SST Catalog).

C SERIES TRANSAXLES

TRANSAXLE SERIES	MODEL/YEAR	KEY DIFFERENCES	LUBRICANT/CAP.
 C51	AE82 COROLLA/ 1984 - 1988 AE92, 95, 101, 102 C50, C52 1989 - 1997 ZE110 C59 1998 - 2001 ZZE110 C56 2002 ZZE130 C59 2003	▶ Starter mounts on left side of clutch housing ▶ Shift lever retainer is bolted to the case ▶ I.D. No. - Top front edge of clutch housing	SAE 75W-90 or 80W-90/ C5# - 2.6L (2.7 qt.) C140, 150 - 2.4L (2.5 qt.)
 C52	AW11 MR2/ 1985 - 1990 2000 ZZW30 2002 C56 2003 ZZW30 C65	▶ Basically the same as the C51 ▶ Shift and select levers connect on the opposite side of the shift shaft ▶ I.D. No. - Top front edge of clutch housing	
 C141, 150	EL31 TERCEL 1987 - 1996 C151 1996 - 1999	▶ Starter mounts on right side of clutch housing ▶ Smaller version of the C51 ▶ End covers are pressed steel, C140 is flatter than C150 ▶ I.D. No. - Top front edge of clutch housing	I.D. No. NOTES: 3 0 9 0 0 0 0 0 5-digit Production Number or 2-Digit Production Number Manufacturing Month: January → 01 December → 12 Last Digit of Manufacturing Year: 1983
 UCP12 ECHO C180 2000-2003	ZZT230 CELICA C56, C60 2000-2003		





kg-cm (ft-lb, N•m) : Specified torque

◆ Non-reusable part

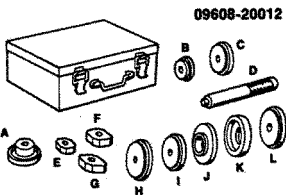
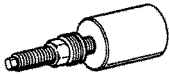
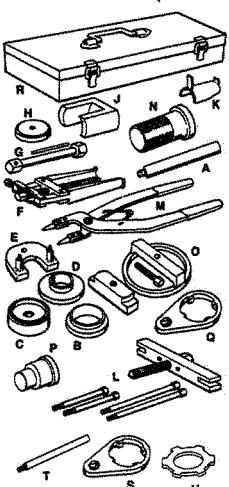
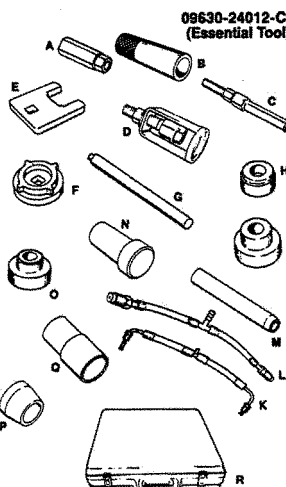
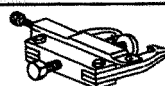
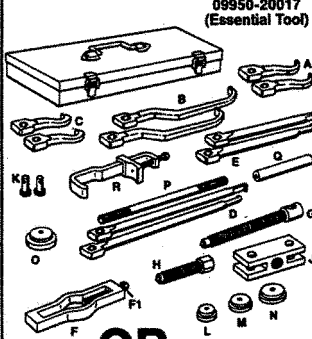
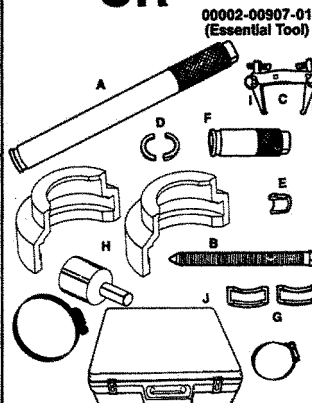
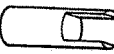
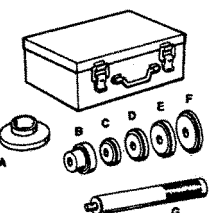


Note: Group part numbers are same as Corolla, Tercel.



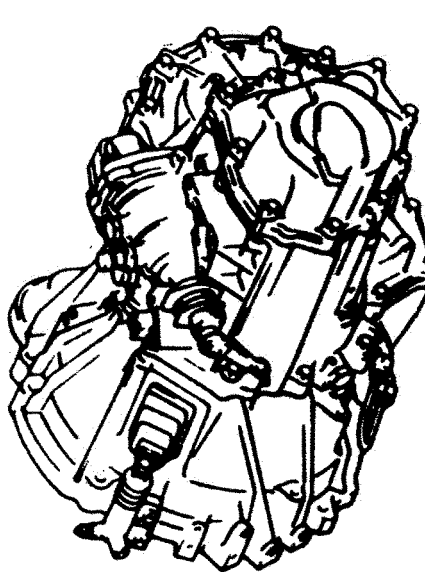
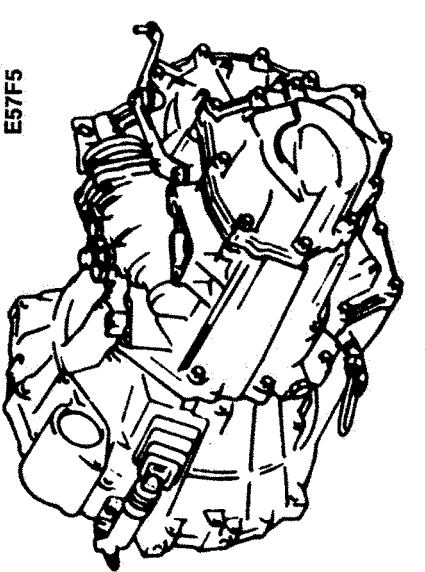
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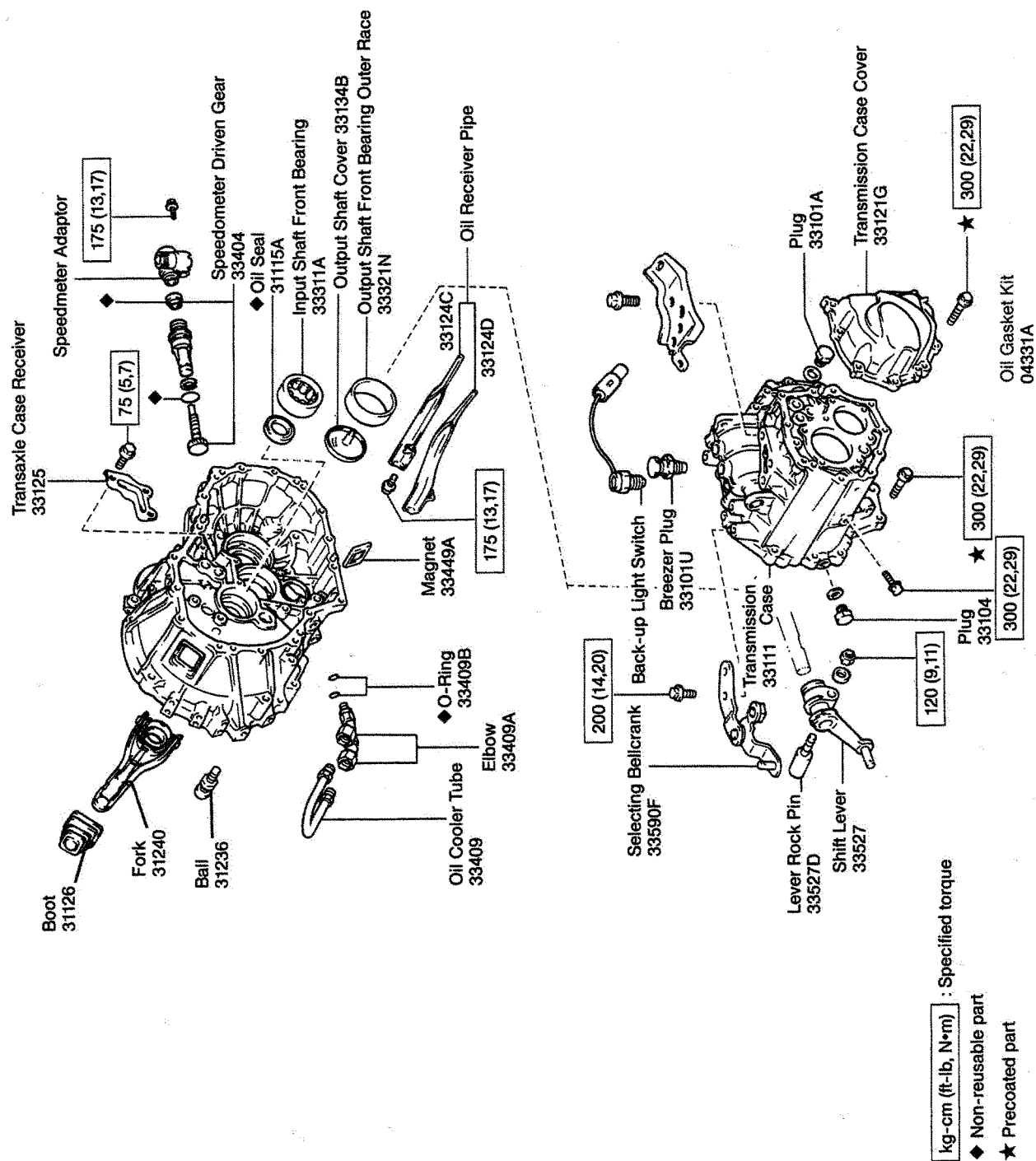
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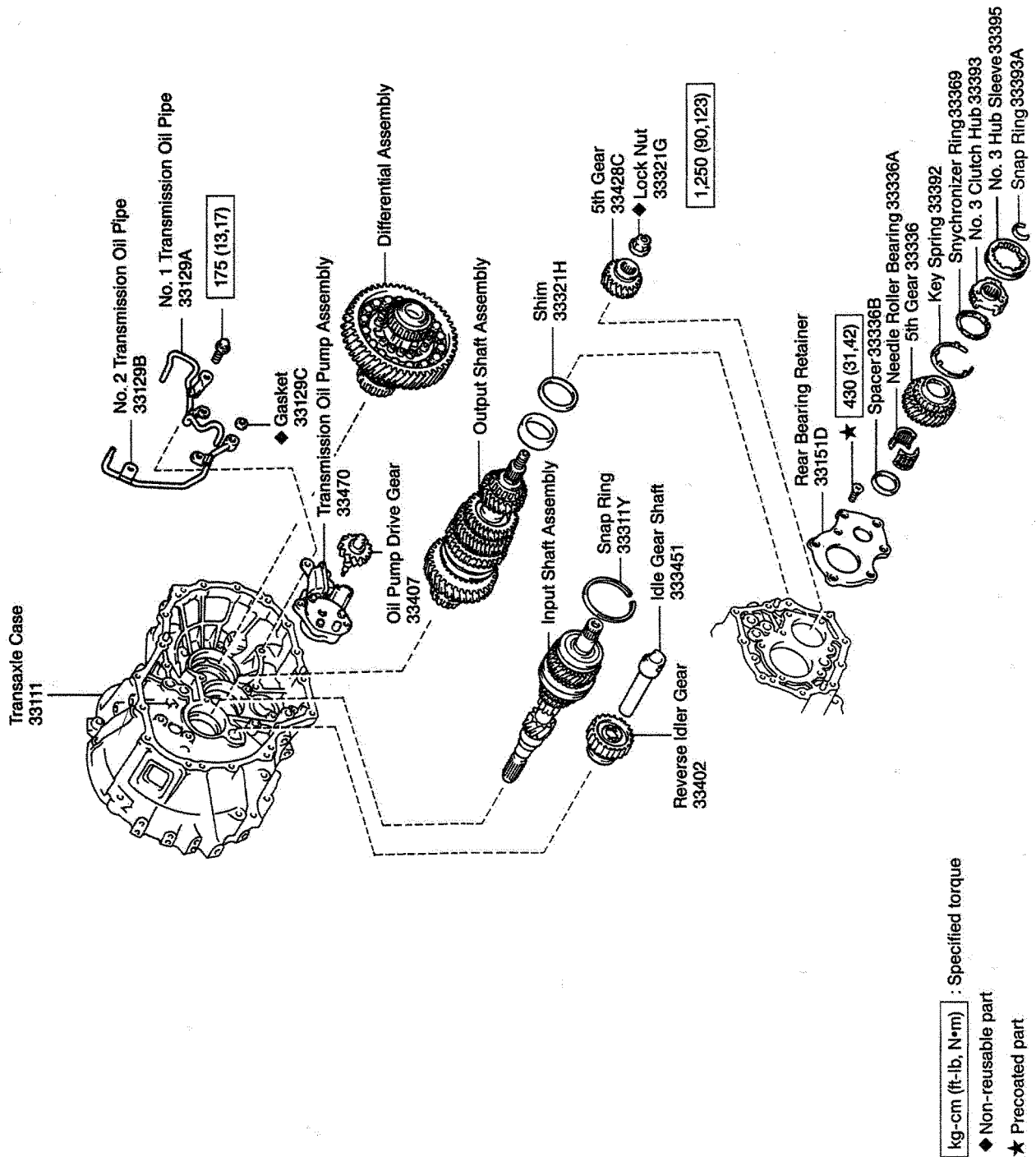
Tool No.	Description	Tool No.	Description
 09201-60011 (Essential Tool)	Remover & Replacer, Speedometer driven gear oil seal	 09608-20012	Tool Set, A. 09608-00080 Control shaft seal L. 09608-03090 LH side bearing outer race and RH side bearing outer race D. 09608-03020 Handle
 09308-00010	Puller, Oil Seal		
 09309-12020-01A (Essential Tool)	5th Gear Replacer (RH Female Thread)		
 09310-35010	Replacer, Counter Shaft Bearing		
 09350-32013 (Essential Tool)	Automatic Transmission Tool Set A. 09351-32130 Handle B. 09351-32120 Overdrive Bearing Replacer C. 09351-32150 Oil Seal Replacer H. 09351-32111 Side Bearing Race Replacer P. 09351-32090 Oil Seal Remover/Replacer	 09630-24012-CE (Essential Tool)	Rack & Pinion Steering Set B. 09612-22011-01 No. 3 hub sleeve assembly
 09502-10012 (Essential Tool)	Differential Side Bearing Puller	 09950-20017 (Essential Tool)	Puller, Universal A. 09953-20010 Jaw (Pair) B. 09953-20021 Jaw (Pair) C. 09953-55010 Jaw (Pair) D. 09953-35021 Jaw (Pair) E. 09953-35011 Jaw (Pair) F. 09956-20010 Tightening Piece F1. 09954-20011 Adjusting Screw G. 09952-20010 Screw H. 09952-36010 Screw J. 09955-20012 Prop K. 09957-20010 Pin (Pair) L. 09958-20010 Disc E M. 09958-30020 Disc D N. 09958-30010 Disc C O. 09958-55010 Disc A P. 09959-20010 Handle Q. 09954-35010 Adapter R. 09956-00010 Tightening
 09520-32021-01 (Essential Tool)	Differential Side Gear Shaft Puller (Use with 09520-32040-01)	OR	
 09520-32040-01 (Essential Tool)	Slide Hammer 1/8-18 Thread (Use with 09520-32021-01)	 00002-00907-01 (Essential Tool)	Transmission Bearing Service Set A. 00002-00907-7 Remover/ Replacer (400mm/15 3/4") B. 00002-00907-8 Forcing Screw C. 00002-00907-9 Bearing Puller D. 00002-00907-10 Puller Ring Half E. 00002-00907-11 Replacer Shaft Collar F. 00002-00907-12 Remover/ Replacer (140mm/5 1/2") G. 00002-00907-13 Collet Halves (for ATM Front Pump) H. 00002-00907-14 5th Gear Hub Puller (Use with 00002-00907) I. 304839 Jaw (ea.) J. 00002-10001 Carrying Case
 09564-32011-01 (Essential Tool)	Preload Adapter		
 09608-12010	Replacer Set, A. 09608-00070 Input shaft rear bearing, output shaft rear bearing B. 09608-00080 Input shaft front oil seal G. 09608-00020 Handle		

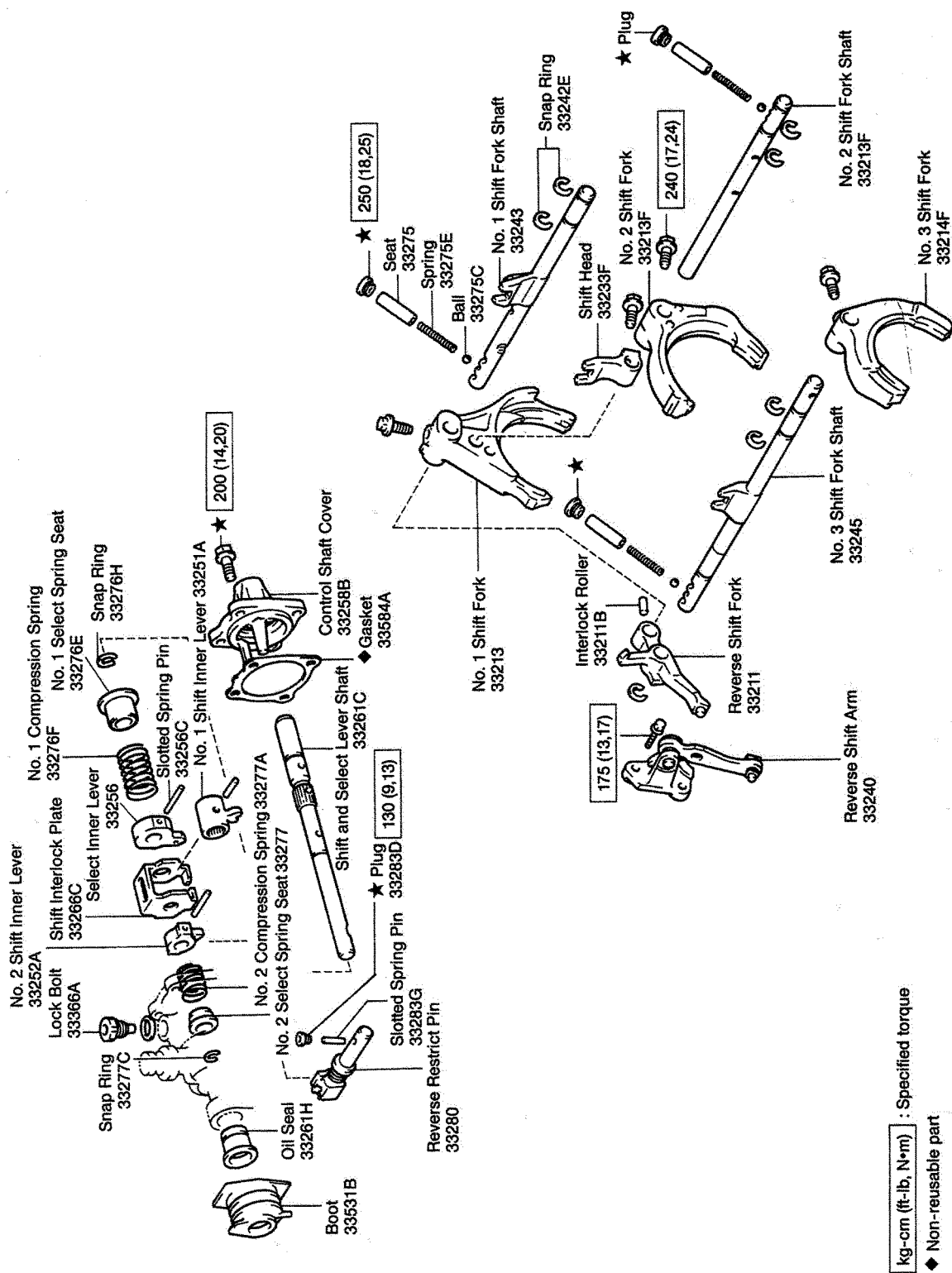
*SST's not listed are common tools which are available locally (refer to SST Catalog).

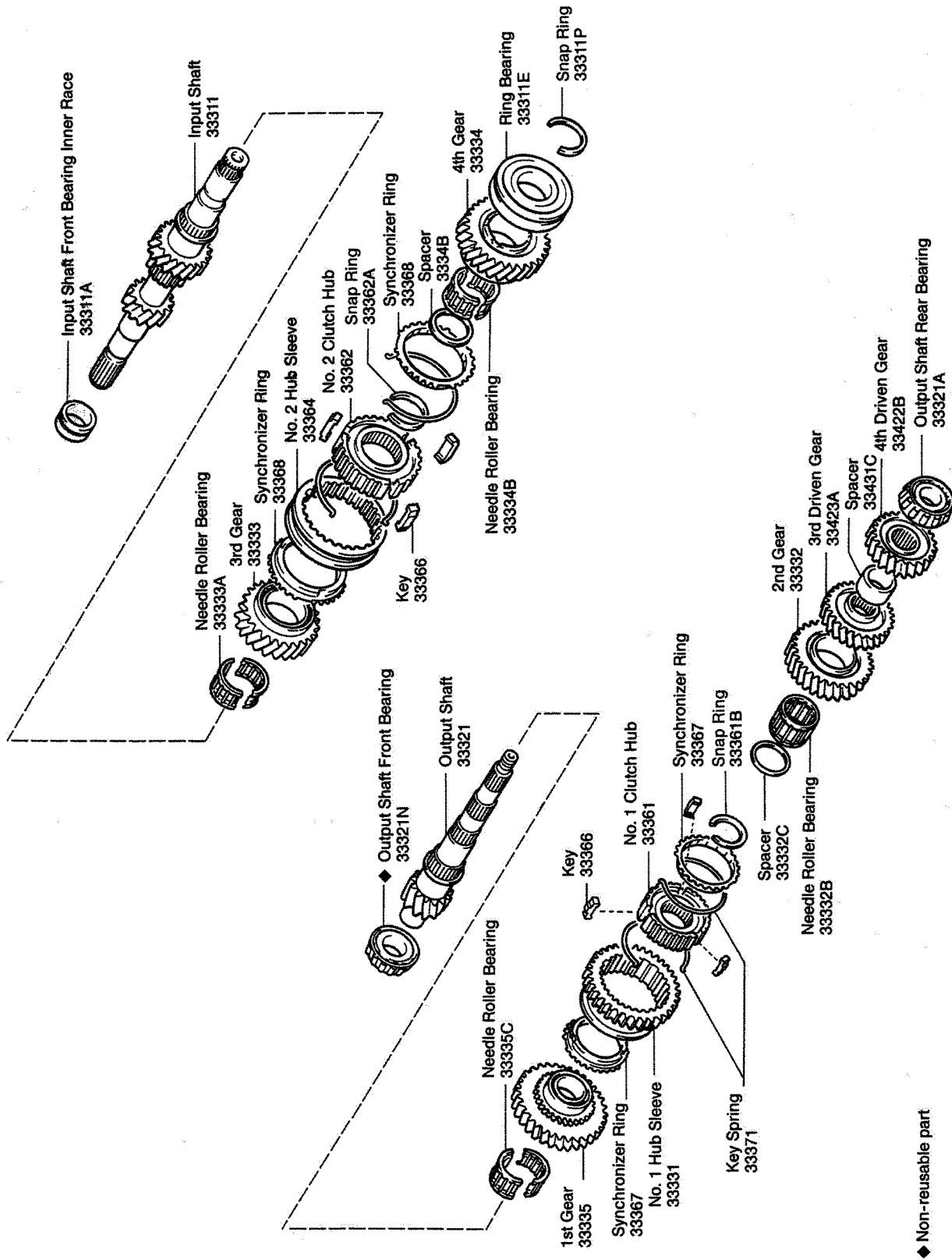
E SERIES TRANSAXLES

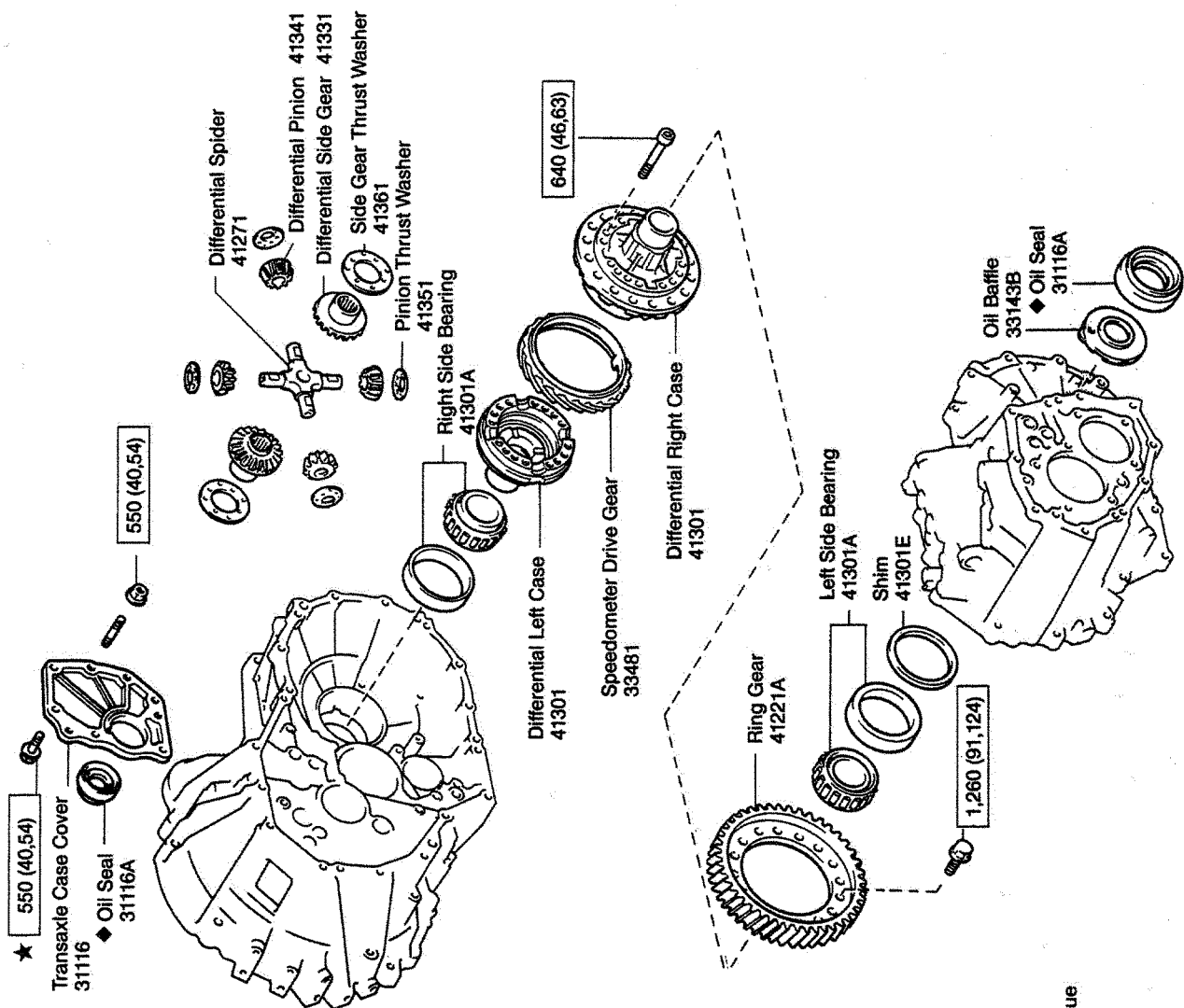
TRANSAXLE SERIES	MODEL/YEAR	KEY DIFFERENCES	LUBRICANT/CAP.
ES# 	AW11 MR2/ 1988 - 1990 SW20, 21 1991 - 1995 E153	▶ Starter mounts on right side of clutch housing ▶ Shift lever is on the opposite side of case ▶ Oil cooler on bottom side of main case ▶ Similar in construction but larger than "C" series transaxle ▶ I.D. No. - Top front edge of clutch housing	API GL-5 SAE 75W-90/ 4.2L (4.4 qt.)
E56F5, E50F2, E57F5 	E56F5 ALL-TRAC CAMRY 1988 - 1990 E50F2 ALL-TRAC CELICA 1988 - 1989 E57F5 ALL-TRAC COROLLA 1988½ - 1989 E150F ALL TRAK CELICA 1990 - 1993 ALL TRAK COROLLA SDN 1990 - 1991 WGN ES5FS ES7F5 ACU30 CAMRY E351 2002-2003 Corolla Alltrack 1992 E57F5	▶ Starter mounts on right side of clutch housing ▶ Shift lever retainer is bolted to the case ▶ Oil cooler on bottom side of main case ▶ Similar in construction but larger than "C" series transaxle ▶ I.D. No. - Top front edge of clutch housing	API GL-5 SAE 75W-90 OR SAE 80W-90/E56 & 57F5 5.0L (5.3 qt.) E50F2 4.8L (5.1 qt.) SAE 90W - ABOVE -18 °C (0 °F) SAE 80W - BELOW -18 °C (0 °F) NOTE:







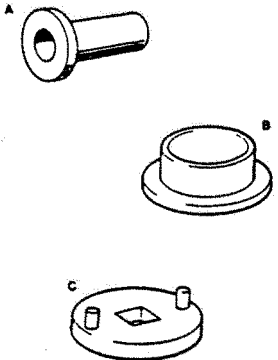
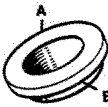
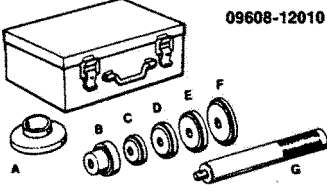
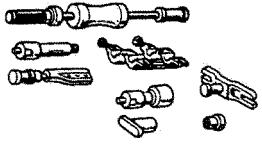
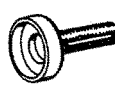
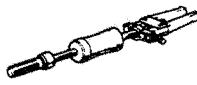
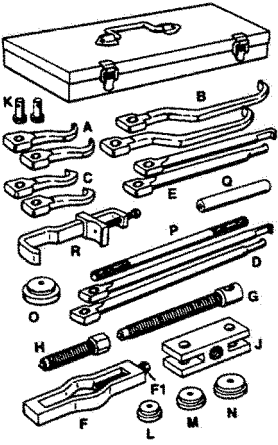
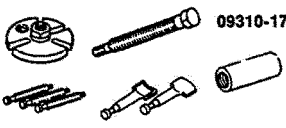
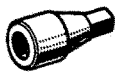
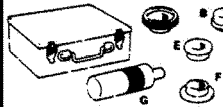




kg-cm (ft-lb, N-m) : Specified torque

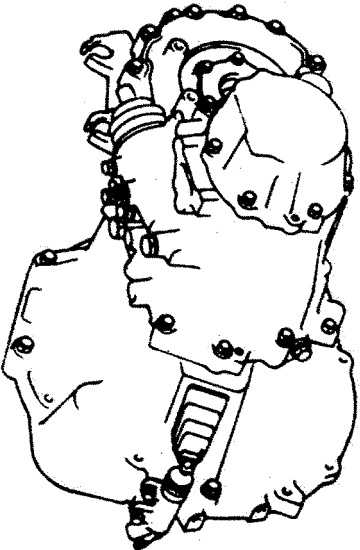
◆ Non-reusable part

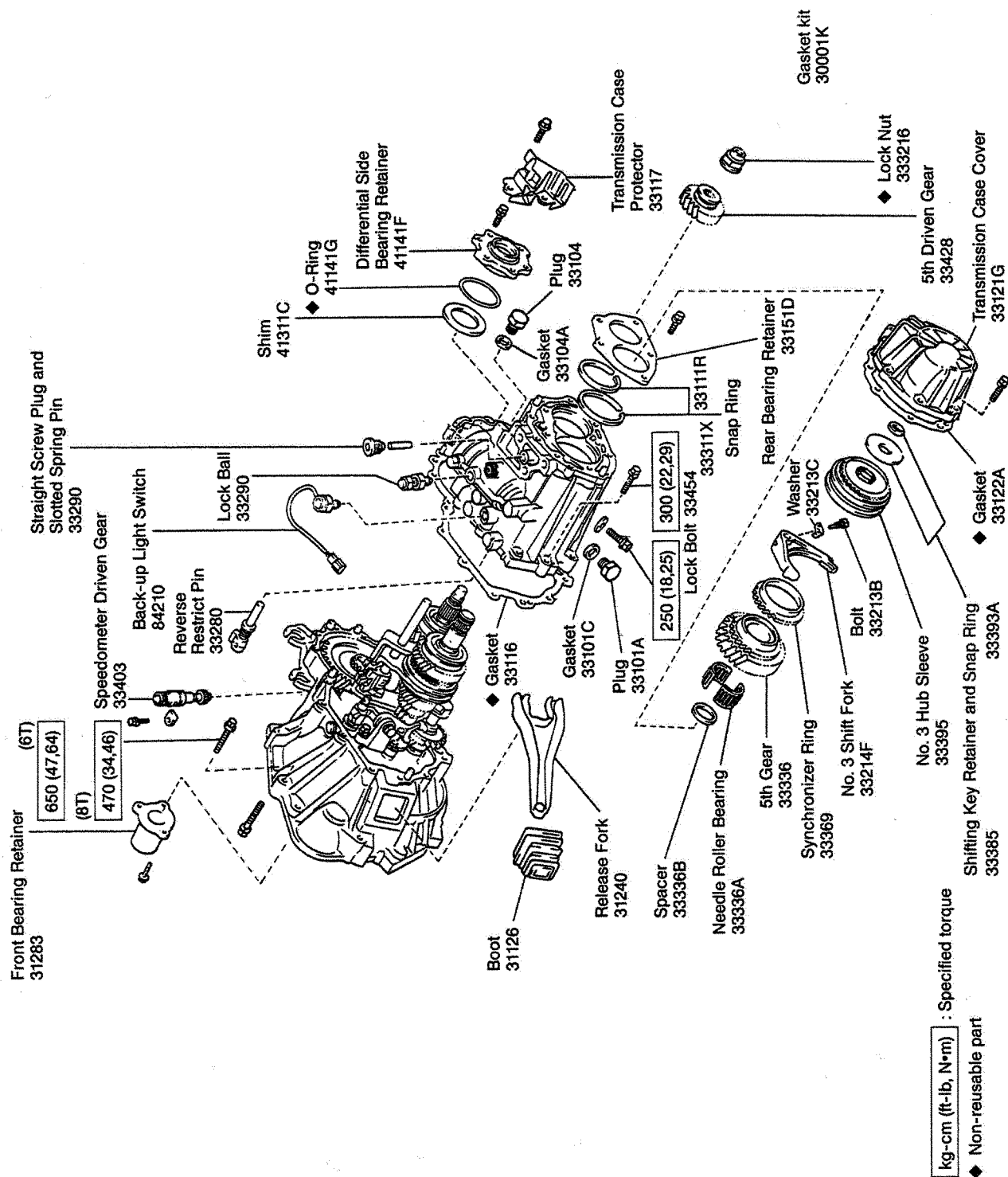
★ Precoated part

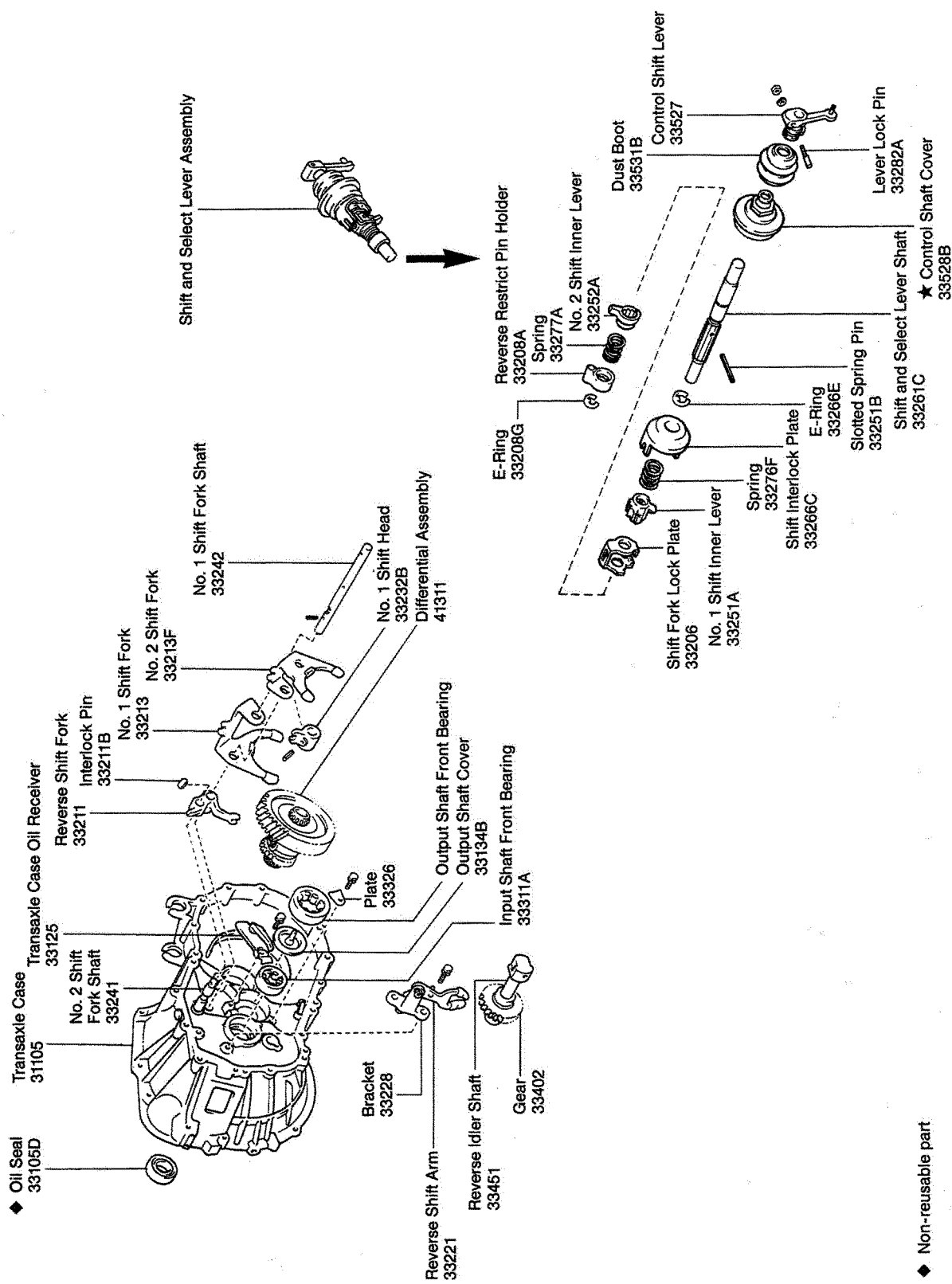
Tool No.	Description	Tool No.	Description
00002-00908-01 	All-trac tool set A. 09309-36010 Transmission Rear Bearing Replacer B. 09316-20011 Transfer Bearing Replacer C. 09318-20010 Transfer Side Bearing Adjusting Nut Wrench	 09326-20011 (Essential Tool)	Wrench, Output Shaft Nut (36mm)
		 09506-30011	Replacer, Differential Drive Pinion Rear Bearing Cone A. 70mm B. 45mm
		 09506-35010	Replacer, Differential Drive Pinion Rear Bearing A. 70mm B. 48mm
		 09608-12010	Replacer Set, Front Hub & Drive Pinion Bearing
 09201-60011 (Essential Tool)	Remover & Replacer, Speedometer driven gear oil seal	 09910-00015	Puller Set
 09223-15010 (Essential Tool)	Transmission case oil seal Replacer		
 09308-00010	Puller, Oil Seal	 09950-20017 (Essential Tool)	Puller, Universal The following replacement parts are available and may be ordered individually. A. 09953-20010 Jaw (Pair) B. 09953-20021 Jaw (Pair) C. 09953-55010 Jaw (Pair) D. 09953-35021 Jaw (Pair) E. 09953-35011 Jaw (Pair) F. 09956-20010 Tightening Piece F1. 09954-20011 Adjusting Screw G. 09952-20010 Screw H. 09952-36010 Screw J. 09955-20012 Prop K. 09957-20010 Pin (Pair) L. 09958-20010 Disc E M. 09958-30020 Disc D N. 09958-30010 Disc C O. 09958-55010 Disc A P. 09959-20010 Handle Q. 09964-35010 Adapter R. 09956-00010 Tightening Piece
 09310-17010	Transaxle Gear Remover & Replacer		
 09313-30021	Socket, Detent Ball Plug (6mm Hex)		
 09316-60010 (Essential Tool)	Replacer, Transmission Transfer Bearing		
 09325-20010	Plug, Transmission Oil A. 32mm B. 57mm		

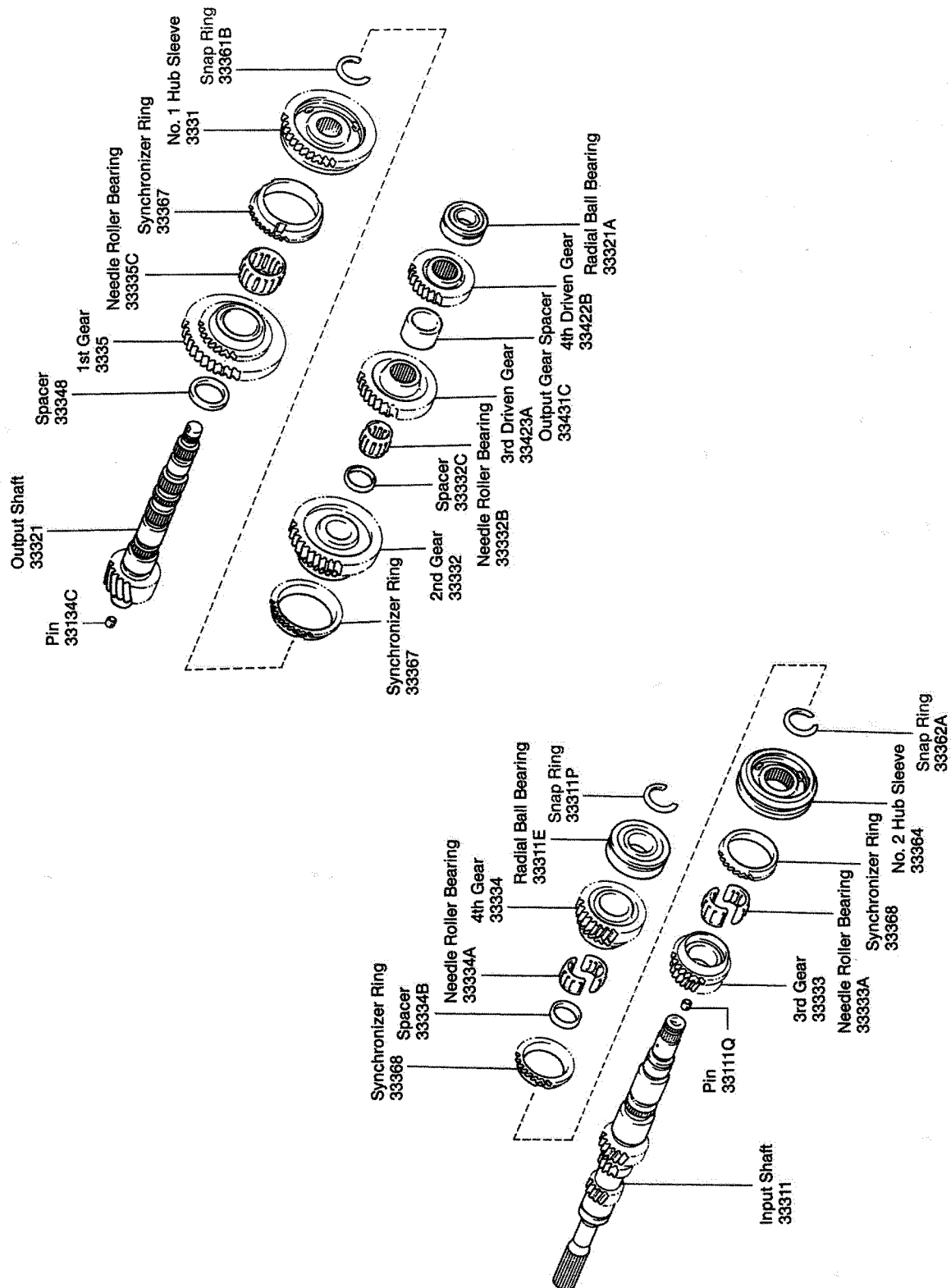
*SST's not listed are common tools which are available locally (refer to SST Catalog).

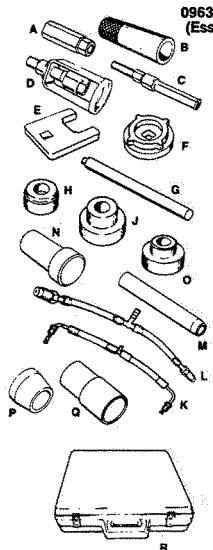
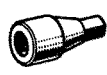
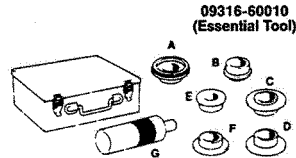
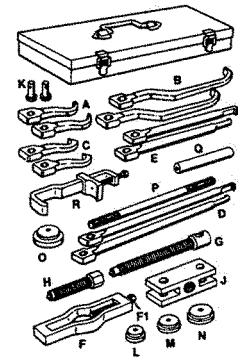
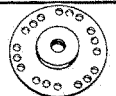
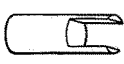
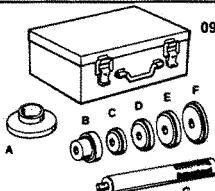
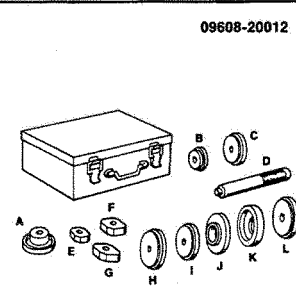
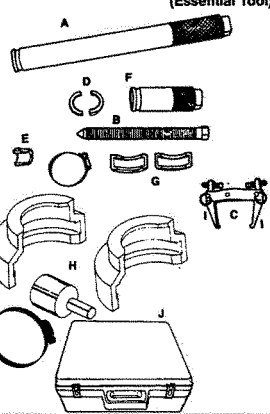
S SERIES TRANSAXLES

TRANSAXLE SERIES	MODEL/YEAR	KEY DIFFERENCES	LUBRICANT/CAP.
S50, 51, 53 	S50 CE80 COROLLA/ 1984 - 1985 S51 SV11 CAMRY/ 1983 - 2001 S53 ST161, 162 CELICA/ 1986 - 1993 S54 1994 - 1991 ST204	▶ Starter mounts on left side of clutch housing ▶ Shift lever retainer is threaded into the case ▶ Shift cable mounts are cast with the case ▶ I.D. No. - Top front edge of clutch housing	ATF DEXRON II/ 2.6L (2.7 qt.) I.D. No. NOTES: 3 0 9 0 0 0 0 0 5-digit Production Number or 2-Digit Production Number Manufacturing Month: January → 01 December → 12 Last Digit of Manufacturing Year: 1983







Tool No.	Description	Tool No.	Description
 09201-60011 (Essential Tool)	Remover & Replacer, Speedometer driven gear oil seal	 09630-24012-CE (Essential Tool)	Rack & Pinion Steering Set B. 09612-22011-01 No. 3 clutch hub
 09308-00010	Puller, Oil Seal		
 09309-32050 (Essential Tool)	5th Gear Replacer (LH Thread)		
 09310-35010	Replacer, Counter Shaft Bearing		
 09313-30021	Socket, Detent Ball Plug (6mm Hex)		
 09316-60010 (Essential Tool)	Replacer	 09950-20017 (Essential Tool)	Puller, Universal A. 09953-20010 Jaw (Pair) B. 09953-20021 Jaw (Pair) C. 09953-55010 Jaw (Pair) D. 09953-35021 Jaw (Pair) E. 09953-35011 Jaw (Pair) F. 09956-20010 Tightening Piece F1. 09954-20011 Adjusting Screw G. 09952-20010 Screw H. 09952-36010 Screw J. 09955-20012 Prop K. 09957-20010 Pin (Pair) L. 09958-20010 Disc E M. 09958-30020 Disc D N. 09958-30010 Disc C O. 09958-55010 Disc A P. 09959-20010 Handle Q. 09964-35010 Adapter R. 09956-00010 Tightening Piece
 09520-32021-01 (Essential Tool)	Differential Side Gear Shaft Puller (Use with 09520-32040-01)		
 09520-32040-01 (Essential Tool)	Slide Hammer $\frac{1}{8}$ -18 Thread (Use with 09520-32021-01)		
 09564-32011-01 (Essential Tool)	Preload Adapter		
 09608-12010	Replacer Set, A. 09608-00070 Fourth driven gear and radial ball bearing		
 09608-20012	Tool Set, A. 09608-00080 Input shaft front oil seal C. 09608-00030 LH side oil seal H. 09608-03060 LH side bearing outer race I. 09608-00060 LH side bearing outer race H. 09608-03060 C. 09608-00030 RH side bearing outer race A. 09608-00080 Control shaft cover oil seal J. 09608-03070 Fourth gear and radial ball bearing D. 09608-03020 Handle	OR	
		 00002-00907-01 (Essential Tool)	Transmission Bearing Service Set A. 00002-00907-7 Remover/ Replacer (400mm/15 $\frac{1}{4}$ ") B. 00002-00907-8 Forcing Screw C. 00002-00907-9 Bearing Puller D. 00002-00907-10 Puller Ring Half E. 00002-00907-11 Replacer Shaft Collar F. 00002-00907-12 Remover/ Replacer (140mm/5 $\frac{1}{2}$ ") G. 00002-00907-13 Collet Halves (for ATM Front Pump) H. 00002-00907-14 5th Gear Hub Puller (Use with 00002-00907) I. 304839 Jaw (ea.) J. 00002-10001 Carrying Case

*SST's not listed are common tools which are available locally (refer to SST Catalog).