

# Special Service Tools Catalogue



- 1 ATOZ\_MX(1.0)
- 2 GETZ\_TB(1.3 & 1.5 & 1.6)
- 3 06 ACCENT\_MC(1.4 & 1.5 & 1.6)
- 4 LAVITA\_FC(1.6 & 1.8)
- 5 SONATA\_NF(2.0 & 2.4)
- 6 GRANDEUR\_TG(3.3)
- 7 CENTENIAL\_LZ(3.5 & 4.5)
- 8 SANTA FE\_SM(2.0 & 2.4 & 2.7)
- 9 SANTA FE\_CM(2.2 & 2.7)
- 10 TERRACAN\_HP(2.5 & 2.9)
- 11 H100(TRUCK)



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# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
1	09200-1C000		●	●									2
2	09200-38001		●	●	●	●	●	●	●	●	●		9
3	09212-27100									●			1
4	09212-32000								●			●	2
5	09212-32100								●			●	2
6	09212-32200								●			●	2
7	09212-32300								●			●	2
8	09212-43100										●	●	2
9	09212-43200										●	●	2
10	09212-43300										●	●	2
11	09213-33000								●				1
12	09214-21000				●					●			2
13	09214-21100				●								1
14	09214-32000		●	●	●		●		●		●	●	7
15	09214-32100		●		●				●		●	●	5
16	09214-33000							●	●	●	●		4
17	09214-3K000					●							1
18	09214-3K100					●							1
19	09214-43000										●	●	2
20	09215-3C000		●	●			●			●			4
21	09216-21000								●				1
22	09216-21100			●	●		●	●	●		●		6
23	09216-21200				●								1
24	09216-21300								●		●		2
25	09216-21600						●	●					2
26	09216-22100						●		●				2
27	09220-2D000				●								1
28	09221-11001	●											1
29	09221-21000		●	●	●			●	●		●	●	7
30	09221-21100	●							●			●	3
31	09221-22000	●			●			●	●				4
32	09221-25100		●										1
33	09221-26000		●	●									1
34	09221-29000							●	●		●		3
35	09221-32001				●				●		●	●	4
36	09221-3F100(A)		●	●						●			3

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
37	09221-4A000A		●								●		2
38	09222-21001	●									●	●	3
39	09222-21100	●				●		●	●				4
40	09222-21200								●				1
41	09222-21300											●	1
42	09222-21500											●	1
43	09222-22001	●	●	●	●			●	●	●			7
44	09222-22100	●											1
45	09222-27200									●			1
46	09222-27300									●			1
47	09222-28000		●	●	●			●	●		●		6
48	09222-28100		●	●	●			●	●		●		6
49	09222-28200								●				1
50	09222-28400								●				1
51	09222-29000				●		●	●	●	●	●		6
52	09222-2A000		●	●									2
53	09222-2A100		●	●									1
54	09222-32100		●	●	●	●	●	●	●	●	●	●	10
55	09222-32200										●	●	2
56	09222-3C100						●						1
57	09222-3C300						●			●			2
58	09222-3K000		●	●		●	●			●			5
59	09222-3K100					●							1
60	09222-43200										●	●	2
61	09222-4A000					●							1
62	09231-21000	●	●	●	●				●				5
63	09231-22000	●											1
64	09231-22100	●											1
65	09231-27000									●			1
66	09231-27100									●			1
67	09231-2A000		●	●									2
68	09231-2A100		●	●									2
69	09231-32000										●	●	2
70	09231-33000							●	●	●	●		4
71	09231-33100							●	●		●		3
72	09231-3C100						●						1

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
73	09231-3C200						●						1
74	09231-3C300						●						1
75	09231-3K000					●							1
76	09231-H1000										●		1
77	09231-H1100		●	●		●	●						4
78	09231-H1200		●	●									2
79	09246-32000											●	1
80	09246-32100											●	1
81	09246-32201											●	1
82	09246-32300											●	1
83	09251-11000											●	1
84	09260-32000	●									●	●	3
85	09263-27000									●			1
86	09263-2E000									●			1
87	09263-3C100						●						1
88	09310-2B100									●			1
89	09310-43000										●	●	2
90	09314-27110		●	●						●			3
91	09314-27120		●	●						●			3
92	09314-43000										●	●	2
93	09331-2A000		●	●									2
94	09351-27000		●							●			2
95	09351-27100									●			1
96	09351-27401									●			1
97	09351-2A000		●										1
98	09351-2A100		●	●									2
99	09351-4A200		●	●									2
100	09351-H1000										●		1
101	09351-H1500										●		1
102	09353-02101	●											1
103	09353-24000		●	●	●	●	●			●	●		7
104	09353-24100	●	●	●	●	●	●	●	●	●	●	●	11
105	09353-38000		●	●	●	●	●	●	●	●	●	●	10
106	09373-27000									●			1
107	09411-11000	●				●							2
108	09411-25000		●	●	●								3

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
109	09411-32000											●	1
110	09411-43000									●	●	●	3
111	09414-11000	●									●	●	3
112	09414-11100	●										●	2
113	09414-24000	●											1
114	09414-H1000										●		1
115	09414-H1100										●		1
116	09431-11000					●		●	●				3
117	09431-21000	●											1
118	09431-22100			●									1
119	09431-32000	●									●	●	3
120	09431-39000							●	●				2
121	09431-H1000										●		1
122	09432-11000						●	●			●	●	4
123	09432-11100										●	●	2
124	09432-21101	●											1
125	09432-21300	●											1
126	09432-21400	●											1
127	09432-21500								●				1
128	09432-21601	●	●	●		●	●	●	●	●			8
129	09432-21701							●			●		2
130	09432-22000	●											1
131	09432-22100	●										●	2
132	09432-24000											●	1
133	09432-33200	●						●		●			3
134	09432-33300	●									●	●	3
135	09432-33400	●										●	2
136	09432-33700										●		1
137	09432-33800							●			●		2
138	09432-3A000								●				1
139	09432-H1000										●		1
140	09432-H1100										●		1
141	09433-21000							●	●				2
142	09434-14200	●	●	●	●		●			●			6
143	09452-21000										●		1
144	09452-21001	●		●	●								3

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
145	09452-21002	●		●	●								3
146	09452-21200		●	●				●		●			4
147	09452-21401							●					1
148	09452-21500	●		●	●						●		4
149	09452-21600										●		1
150	09452-32100										●		1
151	09452-32300										●		1
152	09452-33100							●					1
153	09453-21000							●					1
154	09453-21100	●						●					2
155	09453-24000							●					1
156	09453-32100										●		1
157	09453-33000B						●						1
158	09453-33100							●					1
159	09454-38000										●		1
160	09454-38100										●		1
161	09454-38200										●		1
162	09454-38300										●		1
163	09455-02000	●											1
164	09455-02100	●											1
165	09455-02200	●											1
166	09455-21000							●	●	●	●		4
167	09455-21100	●						●			●		3
168	09455-21200										●		1
169	09455-32200									●	●		2
170	09455-33200	●						●	●			●	4
171	09455-38000										●		1
172	09455-H1000										●		1
173	09456-39000							●					1
174	09456-39100							●					1
175	09457-22100								●		●	●	3
176	09457-34000								●				1
177	09457-39000							●					1
178	09478-26000									●			1
179	09478-26100									●			1
180	09493-43000								●		●	●	3

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
181	09493-43100								●		●	●	3
182	09495-33000		●	●	●				●	●	●		6
183	09495-33100		●	●	●			●			●		5
184	09495-3K000			●									1
185	09500-11000	●						●	●		●	●	5
186	09500-21000								●		●	●	3
187	09500-26000								●				1
188	09500-43131								●			●	3
189	09500-4A000										●		1
190	09500-4A100										●		1
191	09500-H1000										●		1
192	09500-H1100										●		1
193	09517-02000		●										1
194	09517-11000										●	●	2
195	09517-21000										●		1
196	09517-21100										●		1
197	09517-21200										●		1
198	09517-21400	●				●		●	●		●	●	6
199	09517-21500		●	●	●		●						4
200	09517-21700								●		●	●	3
201	09517-29000		●	●	●				●				4
202	09517-3A000		●						●				2
203	09517-43001							●	●		●	●	4
204	09517-43401								●	●	●	●	4
205	09517-43500									●		●	2
206	09518-4A000										●		1
207	09521-43001										●	●	2
208	09526-02000	●											1
209	09526-11001							●			●		2
210	09526-11100	●									●	●	3
211	09526-43001											●	1
212	09526-43200										●	●	2
213	09527-21100											●	1
214	09527-4A000					●			●		●	●	4
215	09529-21000	●						●	●		●		4
216	09531-11600		●										1

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
217	09532-11000	●											1
218	09532-11500	●		●				●	●		●		5
219	09532-11600		●	●	●		●	●	●		●	●	8
220	09532-31200								●		●		2
221	09532-31200A		●										1
222	09532-32000								●		●	●	3
223	09532-3A000							●	●				2
224	09535-11000											●	1
225	09541-43001											●	1
226	09542-4A000										●		1
227	09544-43000											●	1
228	09545-02000	●			●								2
229	09545-11000		●		●			●					3
230	09545-1C000		●										1
231	09545-21100	●	●		●		●	●			●		6
232	09545-24100										●		1
233	09545-25000										●		1
234	09545-26000								●				1
235	09545-28100								●				1
236	09545-34100						●		●				2
237	09545-3A000										●		1
238	09546-21000	●											1
239	09546-26000			●			●		●	●			4
240	09551-25000				●								1
241	09551-31000								●				1
242	09551-43001											●	1
243	09552-25000				●				●				2
244	09552-33000											●	1
245	09552-38000							●					1
246	09552-38100						●	●	●				3
247	09552-38200							●					1
248	09555-21000	●	●	●	●	●	●	●		●			8
249	09561-11001					●	●	●	●	●			5
250	09561-11002		●	●	●						●	●	5
251	09564-43000											●	1
252	09565-11100	●	●	●	●		●	●	●	●		●	9



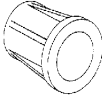
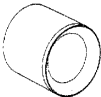




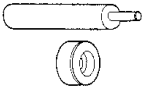

# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
253	09565-21000	●						●	●				3
254	09565-21100	●											1
255	09565-31300					●		●	●				3
256	09565-43200											●	1
257	09568-31000	●	●		●			●	●				5
258	09568-34000	●	●		●			●	●	●	●	●	8
259	09568-4A000			●		●	●			●			4
260	09572-21000	●	●	●	●	●	●	●	●	●	●		10
261	09572-21100	●											1
262	09572-21200	●	●	●	●	●	●	●	●	●	●		10
263	09572-22100		●	●	●	●	●			●			6
264	09572-33100							●	●		●		3
265	09573-21000	●	●	●	●			●					5
266	09573-21100		●	●	●		●			●			5
267	09573-21200	●	●	●	●								4
268	09573-33000					●		●					2
269	09573-33100					●	●	●		●			4
270	0957A-1C000		●	●		●	●						4
271	0957A-2E200					●	●						2
272	0957A-2E210					●	●						2
273	0957A-34100A		●	●	●	●	●		●	●	●		8
274	0957A-38000	●			●				●		●		4
275	0957A-38100		●			●					●		3
276	0957A-38200	●	●	●	●	●	●		●	●	●		9
277	0957A-38300	●	●			●							3
278	0957A-38400	●	●										2
279	0957A-38500		●	●		●	●			●			5
280	0957A-3F000		●	●			●			●			4
281	0957A-3F100		●	●			●			●			4
282	09581-11000	●	●	●		●	●	●	●	●	●		9
283	09624-34000							●			●		2
284	09624-38000						●						1
285	09793-21000	●			●			●	●	●	●	●	7
286	09793-21000		●										1
287	09800-21000	●	●		●		●	●	●	●	●	●	9
288	09853-31000	●	●		●		●	●	●	●	●	●	9

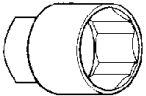



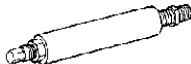


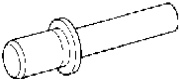
# HYUNDAI SST LIST INDEX

No.	Part No.	ATOZ (MX)	GETZ (TB)	06_ACCENT (MC)	LAVITA (FC)	SONATA (NF)	GRANDEUR (TG)	CENTENIAL (LZ)	SANTA FE (SM)	SANTA FE (CM)	TERRACAN (HP)	H100	REMARK
289	09861-31000	●			●			●	●	●	●	●	7
290	09861-31100	●	●		●		●	●	●	●	●	●	9
291	09861-31200	●	●		●		●	●	●	●	●	●	9
292	09861-31300	●	●		●		●	●	●	●	●	●	9
293	09861-31400	●	●		●			●	●	●		●	7
294	09880-4F000A			●			●			●			3
295	09977-21000	●											1
296	09977-21811		●										1
297	09977-29000			●		●	●	●	●	●	●		7
298	09977-33700				●							●	2
299	09977-33800				●							●	2
300	09977-34000				●							●	2
301	0K130 160 010										●		1
302	0K130 990 007										●		1
303	0K552 111 001										●		1
304	0K590 111 001										●		1
305	0K670 140 015										●		1
306	0K710 120 004										●		1
307	0K993 120 001										●		1
308	0K993 120 004										●		1
309	0K993 120 006										●		1
310	HSG1021										●		1
311	HSG2001										●		1
312	HSG2002										●		1
313	HSG2006										●		1
314	HSG2008										●		1
315	HSG2009										●		1
316	HSG2010										●		1
317	TCAT 069A		●										1
<b>Total</b>		<b>73</b>	<b>78</b>	<b>63</b>	<b>60</b>	<b>37</b>	<b>55</b>	<b>76</b>	<b>91</b>	<b>67</b>	<b>134</b>	<b>83</b>	

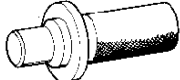

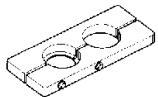

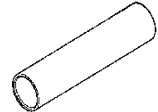

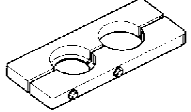
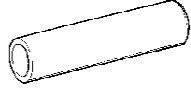
# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
1	09231-22000	Crankshaft front oil seal installer		●													Installation of the crankshaft front oil seal(use with 09231-22100)
2	09231-22100	Crankshaft front oil seal guide		●													Installation of the crankshaft front oil seal(use with 09231-22000)
3	09221-11001	Cylinder head bolt wrench		●													Removal and tightening of the cylinder head bolt
4	09221-21100	Camshaft oil seal guide		●													Used as a guide when pressing in the camshaft oil seal(use with 09221-21000)
5	09222-22100	Valve spring remover and installer		●													removal and installation of the inlet or exhaust valve
6	09222-22001	valve stem oil seal installer		●													Installation of the valve stem oil seal
7	09221-22000	Valve guide installer		●													Removal and installation of the valve guide
8	09231-21000	crankshaft rear oil seal installer		●													1) Installation of the engine rear oil seal 2) Installation of the crankshaft rear oil seal

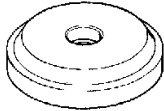
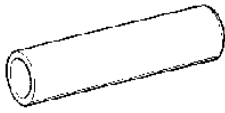
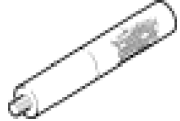
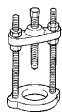

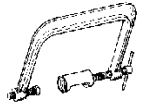
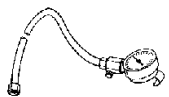

# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
9	09260-32000	Oil pressure switch wrench		●													Removal and installation of the oil pressure switch
10	09353-24100	Fuel pressure gauge & hose			●												Connectino of fuel pressure gauge to delivery pipe for measurement of fuel pressure
11	09353-02101	Fuel pressure gauge adapter			●												Use with fuel pressure gauge when measuring the fuel pressure.
12	09411-11000	Clutch disc				●											Installation of clutch disc
13	09414-24000	Lock pin remover				●											Removal of lock pin.
14	09414-11000	Lock pin extractor					●										Drive out the spring pin of the shift fork
15	09414-11100	Lock pin installer					●										Driving in the spring pin on the shift fork
16	09431-21000	Front oil seal installer					●										Installing of the input shaft front oil seal

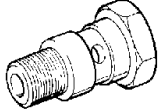

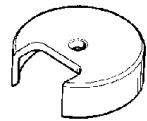


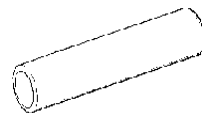

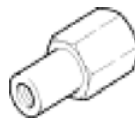
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No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
17	09431-32000	Oil seal installer					●										Installation of differential oil seal
18	09432-21101	Input shaft holder					●										Holding the input shaft when loosening input shaft nut
19	09432-21300	Removing plate					●										Removal of input shaft front bearing
20	09432-21400	Taper bearing puller					●										Removal of output shaft front bearing
21	09432-22000	Earing installer					●										installation of output shafts gear and sleeve
22	09432-22100	Bearing outer race installer					●										Installation of input and output shaft bearing outer race(Use with 09500-11000)
23	09432-33200	Removing plate					●										Removal of input shaft's gear and bearing sleeve
24	09432-33300	Bearing installer					●										installation of input shaft bearing

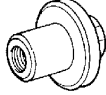


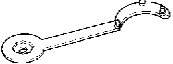
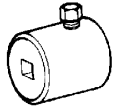
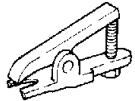
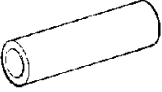
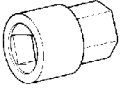
# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
25	09432-33400	Bearing race installer					●										Installation of input shaft bearing outer race(Use with 09500-21000)
26	09455-21100	Bearing and gear puller					●										Removal of ball bearing and gear
27	09500-11000	Bar					●										Installation of output shaft and differential shaft bearing outer race(Use with 09532-11500)
28	09532-11000	Differential bearing installer					●										Removal of differential bearing(Use with 09532-11100, 09532-11301).
29	09532-11500	Pinion bearing outer race installer					●										Installation of output shaft and differential shaft bearing outer race(use with 09500-11000)
30	09222-21001	Valve spring compressor															Removal and installation of snap ring for band serve piston
31	09452-21500	Oil pressure gauge															Measurement of the oil pressure(use with 09452-21001, 09452-21002).
32	09452-21001	Oil pressure gauge adapter															Measurement of the oil pressure(use with 09452-21500, 09452-21002).

# ATOS\_MX (1.0)

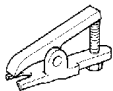
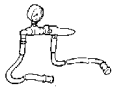

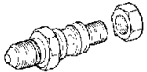


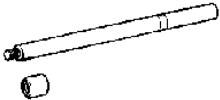

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
33	09452-21002	Oil pressure gauge adapter							●								Measurement of the oil pressure(use with 09452-21500 and 09452-21001).
34	09455-02000	Spring compressor							●								Removal and installation of snap ring for Reverse clutch
35	09453-21100	Spring compressor							●								Removal and installation of spring retainer for Low & Reverse brake
36	09455-02100	Spring compressor							●								Removal and installation of snap ring for High clutch
37	09455-02200	Spring compressor							●								Removal and installation of snap ring for Low clutch
38	09455-33200	Bearing installer							●	●							Removal of output gear bearing.
39	09526-11100	Sliding hammer								●							Removal of lower arm ball joint
40	09526-02000	Slide hammer adapter								●							Removal of lower arm ball joint(Use with 09526-11100).

# ATOS\_MX (1.0)

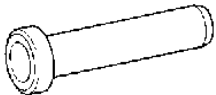

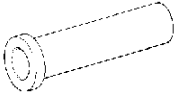
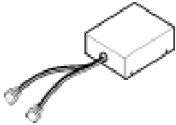



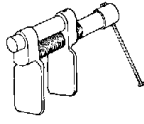
No.	Tool No.	Tool Name	Image	APPLICATION												USAGE		
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA			
							MT	AT										
41	09529-21000	Wheel alignment gauge									●							Front wheel alignment for aluminum type wheel
42	09545-02000	Lower arm bushing remover and installer									●							Removal and installation of lower arm bushing
43	09545-21100	Ball joint dust cover									●							Installation of ball joint and dust cover
44	09546-21000	Special spanner									●							1. Removal and installation of the front coil spring 2. Removal and installation of the shock absorber oil seal
45	09565-11100	Pre-load socket									●	●						SS : Measurement of the front lower arm ball joint starting torque(use with torque wrench). ST : Measurement of the main shaft pre-load.
46	09568-34000	Ball joint remover									●							Separation of the tie rod end ball joint and lower arm ball joint
47	09565-21000	Pinion bearing remover and installer										●						Removal and installation of the pinion bearing
48	09565-21100	Torque wrench socket										●						Removal, installation and adjustment of the steering gear yoke plug.








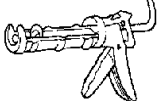


# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE		
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA			
							MT	AT										
49	09568-31000	Tie rodend puller																Separation of the tie rod end ball joint
50	09572-21000	Oil pressure gauge(Power steering only)																Measurement of the oil pressure(use with 09572-21100, 09572-21200).
51	09572-21100	Oil pressure gauge adapter (Power steering only)																Measurement of the oil pressure(Use with 09572-21000, 09572-21200).
52	09572-21200	Oil pressure gauge adapter (Power steering only)																Measurement of the oil pressure(Use with 09572-21000, 09572-21100).
53	09517-21400	Drift(Power steering only)																Removal ball bearing and gear housing
54	09573-21200	Oil seal guide(Power steering only)																o Removal of the oil seal from gear housing o Installation of the oil seal to gear housing
55	09555-21000	Oil seal installer gauge (Power steering only)																o Removal of the oil seal from gear housing o Installation of the oil seal to gear housing
56	09573-21000	Oil seal installer gauge (Power steering only)																Installation of the oil seal


# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE		
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA			
							MT	AT										
57	09432-21601	Bearing installer(Power steering only)																o Installation of the needle bearing to gear housing o Installation of ball bearing and oil seal to valve body.
58	09222-21100	Valve stem oil seal installer (Power steering only)																Installation of the ball bearing to gear housing
59	09434-14200	Counter shaft bearing installer (Power steering only)																Installation of the oil seal to rack bushing and valve body.
60	0957A-38200	Dummy																Simulator to check the resistance of each wiring harness (Use with 0957A-38000, 0957A-38300, 0957A-38400) Adapter connect DAB, PAB.
61	0957A-38300	Dummy adapter																Simulator to check the resistance of each wiring harness (Use with 0957A-38000, 0957A-38300, 0957A-38400) Adapter connect DAB, PAB.
62	0957A-38400	Dummy adapter																Adapter to connect BPT
63	0957A-38000	Diagnosis checker																Wiring harness checker of each module (Use with 0957A-38200, 0957A-38300, 0957A-38400).
64	09581-11000	Piston expander																Spreading the front brake piston.











ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE		
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA			
							MT	AT										
65	09793-21000	Door hinge adjusting wrench																Adjustment, removal and installation of the door hinge
66	09800-21000	Ornament remover																Trim removal
67	09853-31000	Headliner clip remover																Removal of the headliner clips
68	09861-31100	Sealant cut-out tool																Cutting the sealant of the windshield(use with 09861-31200).
69	09861-31200	Sealant cutting blade																Cutting the sealant of the windshield(use with 09861-31100).
70	09861-31300	Sealant gun																Application of the sealant to the windshield.
71	09861-31400	Glass holder																Removal and installation of the windshield
72	09861-31000	Windshield moulding remover																Removal of the windshield moulding









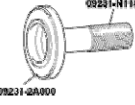

# ATOS\_MX (1.0)

No.	Tool No.	Tool Name	Image	APPLICATION												USAGE	
				EM	FL	CH	TR		DS	SS	ST	RT	BR	BD	HA		
							MT	AT									
73	09977-21000	Drive plate holder															● Removal and installation of pressure plate

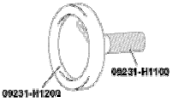
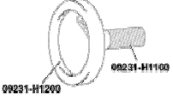
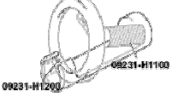

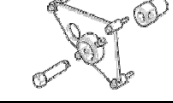
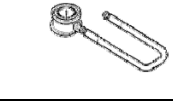
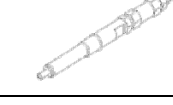
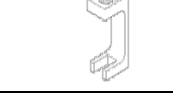
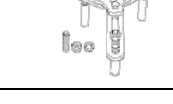

**GETZ\_TB (1.3 & 1.5 & 1.6)**

No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE		
				EM			FL			CH	TRA M5CF2	TRM	DS	SS	RT	BR		ST	BD
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC										
1	09200-1C000	Engine support fixture adapter																	Removal and installation of transaxle assembly.(use with 09200-38001)
2	09200-38001	Engine support fixture & adater		●	●	●													Support of engine, removal and installation of the transaxle.
3	09214-32000	Crankshaft front oil seal installer		●		●													Removal & Installation of lower arm bushing(use with 09216-21100)
4	09214-32100	Crankshaft front oil seal guide		●		●													Installation of the crankshaft front oil seal
5	09215-3C000	Oil pan remover		●	●	●													Removal of oil pan
6	09221-21000	Camshaft oil seal installer		●		●													Installation of the camshaft oil seal
7	09221-25100	water temperature sensor socket wrench		●		●													Removal and installation of water temperature sensor
8	09221-26000	Valve guide Installer		●		●													Removal and installation of the valve guide
9	09221-3F100(A)	Valve guide remover		●		●													Removal and installation of the valve guide
10	09221-4A000A	Torque angle adapter		●	●	●													Installation of bolts & nuts needing an angular method



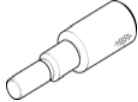

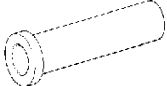

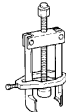

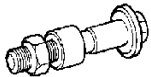
GETZ\_TB (1.3 & 1.5 & 1.6)

No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE	
				EM			FL			CH	TRA	TRM	DS	SS	RT	BR	ST		BD
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC		M5CF2								
11	09222-22001	Valve stem oil seal installer		●		●													Installation of the valve stem seal
12	09222-28000	Valve spring compressor		●		●													Removal and installation of the intake or exhaust valve
13	09222-28100	Valve spring compressor adapter		●		●													Removal and installation of the intake or exhaust valve
14	09222-2A000	Valve stem oil seal installer			●														Installation of valve stem oil seals
15	09222-32100	Valve stem oil seal installer																●	Installation of the oil pump oil seal
16	09222-3K000	Valve spring compressor			●														Removal and installation of the intake or exhaust valve
17	09222-2A100	Valve spring compressor adapter			●														Removal and installation of intake and exhaust valves
18	09231-21000	Crankshaft rear oil seal installer		●		●													Installation of the crankshaft rear oil seal
19	09231-2A000	Front cover oil seal installer			●														Installation of crankshaft rear oil seal
20	09231-2A100	Flywheel stopper			●														Removal and installation of crankshaft pulley bolt

GETZ\_TB (1.3 & 1.5 & 1.6)

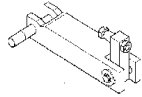







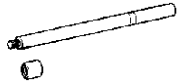
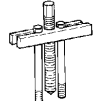
No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE		
				EM			FL			CH	TRA	TRM	DS	SS	RT	BR		ST	BD
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC		M5CF2								
21	09231-H1100	Handle			●													Installation of the crankshaft rear oil seal	
22	09231-H1200	Crankshaft rear oil seal installer			●													Installation of crankshaft rear oil seal	
23	09314-27110	Torque Wrench Socket High Pressure Pump						●										Installing the high pressure pipe	
24	09314-27120	Torque Wrench Socket High Pressure Pump						●										Installing the high pressure pipe	
25	09331-2A000	High pressure pump sprocket remover			●			●										Removal of high pressure pump sprocket	
26	09351-27000	Compression gauge			●													Checking engine compression pressure	
27	09351-2A000	Compression gauge adapter			●													Checking engine compression pressure	
28	09351-2A100	Injector remover adapter			●			●										Removal of injectors	
29	09351-4A200	Injector remover			●			●										Removing the injector	
30	09353-24000	Fuel Pressure Gauge connector					●		●									Connection between Fuel Pressure Gauge(09353-24100)and Fuel Pressure Gauge Adapter(09353-38000)	

GETZ\_TB (1.3 & 1.5 & 1.6)

No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE		
				EM			FL			CH	TRA	TRM	DS	SS	RT	BR		ST	BD
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC		M5CF2								
31	09353-24100	Fuel Pressure Gauge					●		●									Measuring the fuel line pressure	
32	09353-38000	Fuel Pressure Gauge Adapter					●		●									Connection between the delivery pipe and fuel feed line	
33	09411-25000	Clutch disc guide								●								Installation of the clutch disc	
34	09432-21601	Bearing installer															●	Installing the pinion gear bearing	
35	09434-14200	Counter shaft bearing installe...															●	Installing the gear box oil seal	
36	09452-21200	Oil seal installer									●							Installation of the oil pump oil seal	
37	09495-33000	Puller											●					Removal of wheel bearing inner race from a hub	
38	09495-33100	Center bearing remover and ins...											●					*Removal an dinstallation of he center bearing *Installation of the inner dust seal(use with 09216-21100)	
39	09517-02000	Hub bearing remover and instal...	X										●					Removal of wheel bearing from the knuckle. (use with 09977-21811)	
40	09517-21500	Front hub remover and installe...											●					Removal of a front hub from a knuckle(use with 09517-21600)	









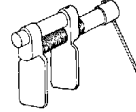



GETZ\_TB (1.3 & 1.5 & 1.6)

No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE		
				EM			FL			CH	TRA M5CF2	TRM	DS	SS	RT	BR		ST	BD
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC										
41	09517-29000	Knuckle arm bridge																	1) Removal of a front hub from a knuckle.(use with 09517-21500), 2) removal of a wheel bearing outer race from a knuckle.(use with 09495-33100)
42	09517-3A000	Knuckle arm bridge holder																	Used with 09517-21500, 09517-29000 for removal of knuckle arm bridge.
43	09531-11600	Pre-load socket																	Measurement of the front lower arm ball joint saring torque(use with torque wrench)
44	09532-11600	Preload socket																	Measurement of the front lower arm ball joint saring torque(use with torque wrench)
45	09532-31200A	Oil seal installer																	1. Installation of the drive pinion outer race. 2. Installation of the front hub outer bearing outer race. (use with 09500-21000)
46	09545-11000	Ball joint remover and install...																	Installation of the lower arm ball joint. (Use with 09545-21100)
47	09545-1C000(A/B)	Lower arm ball joint snap ring...																	Installation of the lower arm ball joint snap ring
48	09545-21100	Ball joint dust cover installe...																	Press-fitting of the front hub to the knuckle
49	09555-21000	Bar																	Removal and installation of the oil seal (use with 09573-33100,09573-33000,09573-21000)
50	09561-11002	Steering wheel puller																	Removing the steering wheel

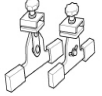
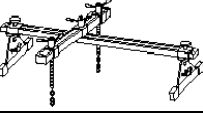



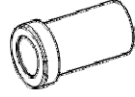
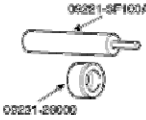




GETZ\_TB (1.3 & 1.5 & 1.6)


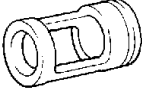

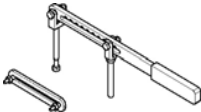

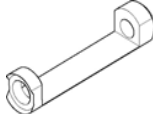


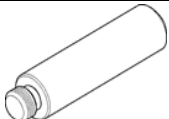
No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE			
				EM			FL			CH	TRA M5CF2	TRM	DS	SS	RT	BR		ST	BD	
				1.3DOHC	1.5D C-DSL	1.6DOHC	1.3 DOHC	1.5D C-DSL	1.6DOHC											
61	0957A-34100A	Deployment tool																		Airbag deployment tool
62	0957A-38100	Deployment adapter																		To connect deployment tool(0957A-34100A)and airbag module(PAB)
63	0957A-38200	Dummy																		Simulator to check the resistance of each wiring harness
64	0957A-38300	Dummy adapter																		To connect dummy(0957A-38200)and airbag harness side connector(PAB)
65	0957A-38400	Dummy adapter																		To connect dummy(0957A-38200)and airbag harness side connector(DAB,BPT,CAB)
66	0957A-38500	Deployment adapter																		Use with deployment tool (DAB,CAB,BPT)
67	0957A-3F000	Dummy adapter																		Use with dummy(PAB,SAB)
68	0957A-3F100	Deployment adapter																		Use with deployment tool(PAB,SAB)
69	09581-11000	Piston expander																		Pushing back of the front disc and rear disc brake piston
70	09793-21000	Door hinge adjusting wrench																		Adjustment, removal and installation of the door hinge



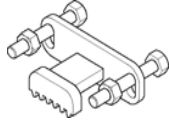



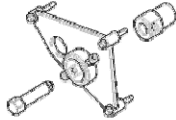
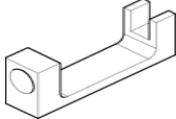
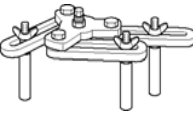


## 06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
1	09200-1C000	Engine support fixture & adater			●															Support of engine
2	09200-38001	Engine support fixture & adater			●						●	●								Support of engine, removal and installation of the transaxle.
3	09214-32000	Crankshaft front oil seal installer		●		●							●							Installation of the front oil seal, Removal & installation of lower arm bushing(G)
4	09215-3C000	Oil pan remover		●	●	●														removal of oil pan
5	09216-21100	Mount bushing remover and installer											●							Removal & installation of lower arm bushing(G)
6	09221-21000	Camshaft oil seal installer		●		●														Installation of the camshaft oil seal
7	09221-3F100 (A)	Valve guide remover_installer		●		●														Removal and installation of the valve guide
8	09221-26000	Valve guide installer		●		●														Removal and installation of the valve guide
9	09222-22001	Valve stem oil seal installer		●		●														Installatio nof the valve stem oil seal


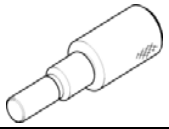

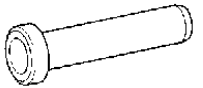
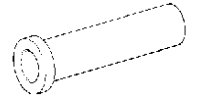
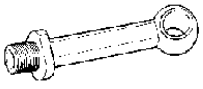
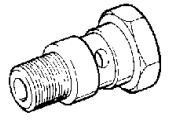
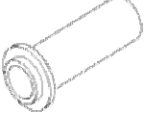
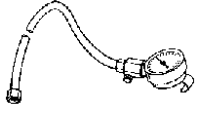
06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
10	09222-28000	Valve spring compressor		●		●														Removal and installation of the intake or exhaust valve
11	09222-28100	Valve spring compressor adapter		●		●														Removal and installation of the intake or exhaust valve
12	09222-32100	Valve stem oil seal installer												●						Installing the pinion gear bearing
13	09222-3K000	Valve spring compressor			●															Removal and installation of intake and exhaust valves
14	09222-2A000	Valve spring compressor			●															Installation of valve stem oil seals
15	09222-2A100	Valve spring compressor adapter			●															Removal and installation of intake and exhaust valves
16	09231-21000	Crankshaft rear oil seal installer		●																Installation of the crankshaft rear oil seal
17	09231-2A000	Front cover oil seal installer			●															Installation of front cover oil seal
18	09231-H1100	Handle			●															Installation of front cover oil seal

06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

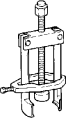
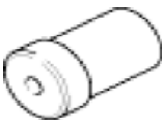

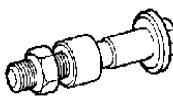
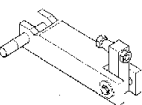


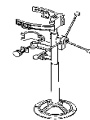
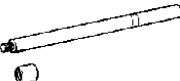
No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
19	09231-2A100	Flywheel stopper			●															Removal and installation of crankshaft pulley bolt
20	09231-H1200	Crankshaft rear oil seal installer			●															Installation of crankshaft rear oil seal
21	09314-27110(14mm)	Torque Wrench Socket						●												Installing the high pressure pipe
22	09314-27120(17mm)	High Pressure Pump						●												Installing the high pressure pipe
23	09331-2A000	High pressure pump sprocket remover			●			●												Removal of high pressure pump sprocket, Removing the high pressure fuel pump
24	09351-2A100	Injector remover adapter						●												Removing the injector
25	09351-4A200	Injector remover						●												Removing the injector
26	09353-24000	Fuel Pressure Gauge connector					●		●											Connection between Fuel Pressure Gauge(09353-24100) and fuel Pressure Gauge Adapter(09353-38000)
27	09353-24100	Fuel Pressure Gauge					●	●	●											Measuring the fuel line pressure

06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

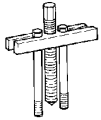


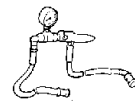
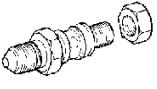
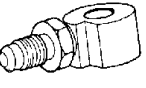


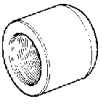
No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
28	09353-38000	Fuel Pressure Gauge Adapter					●		●											Connection between the delivery pipe and fuel feed line
29	09411-25000	Clutch disc guide								●										Installation of the clutch disc.
30	09431-22100	Oil seal installer									●									Installation of the differential oil seal.(Usd with 09231-H1100)
31	09432-21601	Bearing installer												●						Installing the pinion gear bearing
32	09434-14200	Counter shaft bearing installe...												●						Installing the gear box oil seal
33	09452-21001	Oil pressure gauge adapter									●									Measurement of the oil pressure(Use with 09452-21500 and 09452-21002)
34	09452-21002	Oil pressure gauge adapter									●									Measurement of the oil pressure(Use with 09452-21500 and 09452-21001)
35	09452-21200	Oil seal installer										●								Installation of differential oil seal
36	09452-21500	Oil pressure gauge									●									Measurement of the oil pressure(Use with 09452-21001 and 09452-21002)









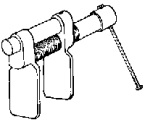
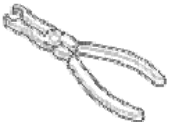
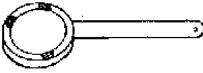
06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
37	09495-33000	Puller										●								Removal of wheel bearing inner race from a hub
38	09495-33100	Center bearing remover and ins...										●								1) removal of a wheel bearing from a knuckle.(use with 09517-29000), 2)Installation of a hub to a knuckle.
39	09495-3K000	Band Installer										●								Installation of ear type boot band
40	09517-21500	Front hub remover and installe...										●								1) removal of a front hub from a knuckle.(use with 09517-29000), 2)Measurement of a front wheel bearing pre-load.(use with 09532-11600)
41	09517-29000	Knuckle arm bridge										●								1) Removal of a front hub from a knuckle.(use with 09517-21500), 2) removal of a wheel bearing outer race from a knuckle.(use with 09495-33100)
42	09532-11500	Bearing outer race installer										●								Installation of a wheel bearing to knuckle.
43	09532-11600	Preload socket										●								masurement of a front wheel bearing pre-load.(use with 09517-21500)
44	09546-26000	Strut spring compressor												●						compression of the coil spring
45	09555-21000	Bar																		Removing & installing the oil seal of the rack housing

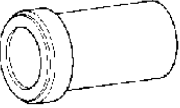
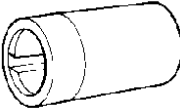
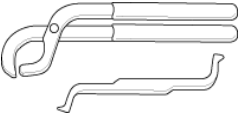

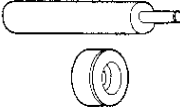
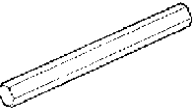

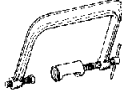
06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
46	09561-11002	Steering wheel puller												●					Removing the steering wheel	
47	09565-11100	Pre-load socket													●				Measuring the pinion shaft preload.	
48	09568-4A000	Ball joint puller										●	●	●					Separation of a lower arm and a tie rod end ball joint, removal of the front lower arm and tie rod end ball joint, Separating the tie rod end ball joint	
49	09572-21000	Oil pressure gauge													●				Measuring the power steering oil pressure(use with 09572-21200, 09572-22100)	
50	09572-21200	Oil pressure gauge adapter(hos...													●				Measuring the power steering oil pressure(use with 09572-21000, 09572-22100)	
51	09572-22100	Oil pressure gauge adapter(pum...													●				Measuring the power steering oil pressure(use with 09572-21000, 09572-21200)	
52	09573-21000	Oil seal instaler guide													●				Installing the oil seal of the rack housing	
53	09573-21100	Oil seal instaler													●				Installing the oil seal of the rack housing	
54	09573-21200	Oil seal guide													●				Removing & installing the oil seal of the rack housing	

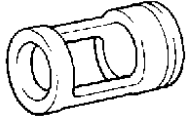
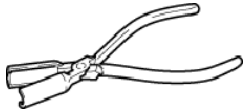
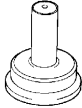
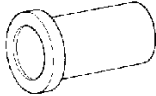
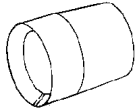


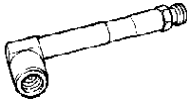
06MY ACCENT\_MC (1.4 & 1.5 & 1.6)

No.	Tool No.	Tool name	IMAGE	EM			FL			CH	TR		DS	SS	ST	RT	BS	BD	HA	USE
				1.4 GSL	U 1.5 DSL	1.6 GSL	1.4 GSL	U 1.5 DSL	1.6 GSL		AT (A4AF3)	MT (M5CF2/ M5CF1)								
55	0957A-1C000	Dummy adapter																		Use with dummy(DAB, CAB, BPT).
56	0957A-34100A	Deployment tool																		Airbag deployment tool
57	0957A-38200	Dummy																		Simulator to check the resistance of each wiring harness.
58	0957A-38500	Deployment adapter																		Use with deployment tool(DAB, PAB, CAB, BPT).
59	0957A-3F000	Dummy adapter																		Use with dummy(PAB, SAB).
60	0957A-3F100	Deployment adapter																		Use with deployment tool(SAB).
61	09581-11000	Piston expander																		Pusing back of the front disc and rear disc brake piston
62	09880-4F000A	Hogring clip installer																		Installation of the hogring clip.
63	09977-29000	Disc & hub assembly bolt remover																		Removal and installation of disc & hub assembly.

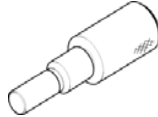
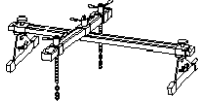
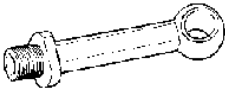
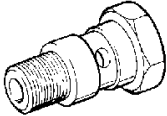
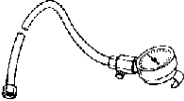
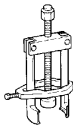

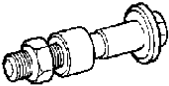
# LAVITA\_FC (1.6 & 1.8)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
1	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.		●															Installation of the front oil seal
2	09214-32100	CRANKSHAFT FRONT OIL SEAL GUIDE		●															Installation of the front oil seal
3	09220-2D000	VALVE CLEARANCE ADAPTER TOOL SET		●															Removal and installation of the tappet shim
4	09221-21000	CAM SHAFT OIL SEAL INS.		●	●														Installation of the camshaft oil seal
5	09221-22000	VALVE GUIDE INSTALLER (A/B)		●	●														Removal and installation of the valve guide
6	09221-32001	CYLINDER HEAD BOLT WRENCH		●															Removal and tightening of the cylinder head bolt
7	09222-22001	VALVE STEM OIL SEAL INS.		●	●														Installation of the valve stem oil seal
8	09222-28000	VALVE SPRING COMPRESSOR		●	●														Removal and Installation of the intake or exhaust valve

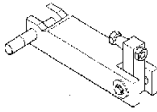
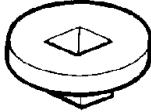
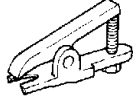
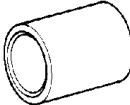


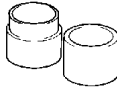

# LAVITA\_FC (1.6 & 1.8)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
9	09222-28100	VALVE SPRING COMP. HOLDER		●	●														Removal and Installation of the intake or exhaust valve
10	09222-29000	VALVE STEM OIL SEAL REMOVER		●	●														Removal of the valve stem seal
11	09231-21000	CRANK SHAFT REAR OIL SEAL INS.		●	●														1. Installation of the engine rear oil seal 2. Installation of the crankshaft rear oil seal
12	09214-21000	CRANKSHAFT FRONT OIL SEAL GUIDE			●														Installation of the front oil seal
13	09214-21100	CRANKSHAFT FRONT OIL SEAL GUIDE			●														Guide of oil seal
14	09353-24100	FUEL PRESSURE GAUGE					●												Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
15	09353-38000	FUEL PRESSURE GAUGE ADAPTER					●												Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
16	09353-24000	FUEL PRESSURE GAUGE ADAPTER					●												Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure

# LAVITA\_FC (1.6 & 1.8)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
17	09411-25000	CLUTCH ALIGNMENT ARBOR						●											Installation of the clutch disc
18	09200-38001	ENGINE SUPPORT FIXTURE							●	●									Removal and installation of transaxle
19	09452-21001	OIL PRESSURE GAUGE ADAPTER									●								Measurement of the oil pressure.(use with 09452-21500 and 09452-21002)
20	09452-21002	OIL PRESSURE GEAUGE ADAPTER									●								Measurement of the oil pressure.(use with 09452-21500 and 09452-21001)
21	09452-21500	TRANSMISSION PRESSURE GAUGE									●								Measurement of the oil pressure.(use with 09452-21001 and 09452-21002)
22	09495-33000	BEARING & GEAR PULLER										●							Removal of wheel bearing inner race from the hub.
23	09495-33100	DRIVE SHAFT CENTER BEARING R & I										●							1. Removal of wheel bearing from the knuckle.(use with 09517-29000) 2. Installation of hub to the knuckle.
24	09517-21500	FRONT HUB REMOVER & INSTALLER											●						1. Removal of front hub from the knuckle.(use with 09517-29000) 2. Measurement of front wheel bearing pre-load.(use with 09532-11600)

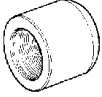
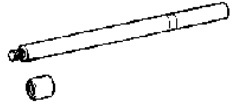


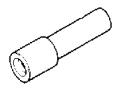
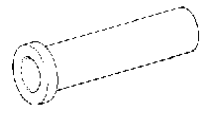
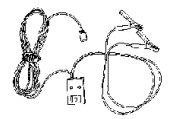

# LAVITA\_FC (1.6 & 1.8)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
25	09517-29000	KNUCKLE ARM BRIDGE																	1. Removal of front hub from the knuckle.(use with 09517-21500) 2. Removal of wheel bearing outer race from the knuckle.(use with 09495-33100)
26	09532-11600	PRELOAD SOCKET																	DS : Measurement of front wheel bearing pre-load.(use with 09517-21500) SS : Measurement of the lower arm ball joint & stabilizer link starting torque.
27	09568-34000	BALL JOINT PULLER																	Seperation of front lower arm and tie rod end ball joint
28	09216-21100	MOUNT BUSHING R & I BASE																	Removal & installation of lower arm bushing(G)(use with 09216-21200, 09545-02000)
29	09216-21200	MOUNT BUSHING R & I RING																	Removal & installation of th elower arm bushing(G) (use with 09216-21100, 09545-02000)
30	09545-02000	LOWER ARM BUSHING REMOVER & INSTALLER																	Removal & installation of the lower arm bushing(G) (use with 09216-21100, 09216-21200)
31	09545-11000	BALL JOINT REMOVER & INSTALLER																	Installation of the lower arm ball joint
32	09545-21100	BALL JOINT DUST COVER INS.																	Installation of the lower arm ball joint dust cover

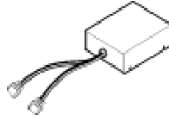
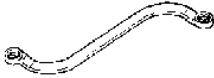


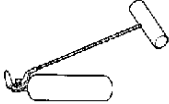

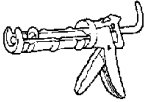





# LAVITA\_FC (1.6 & 1.8)

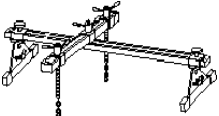


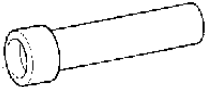


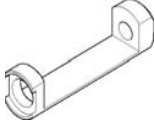
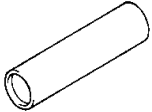
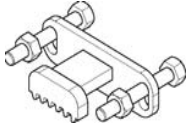

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
41	09573-21200	OIL SEAL GUIDE																	1. Removing the oil seal from the rack housing 2. Installing the oil seal to the rack housing
42	09555-21000	BAR																	1. Removing the oil seal from the rack housing. 2. Installing the oil seal to the rack housing
43	09573-21000	INSTALLER GUIDE																	Installing the oil seal to the rack housing
44	09573-21100	OIL SEAL INSTALLER																	Installing the oil seal
45	09222-32100	VALVE STEM SEAL INSTALLER																	1. Installing the ball bearing to the rack housing. 2. Installing the oil seal to the rack bushing and valve body.
46	09434-14200	COUNTER SHAFT BEARING INS.																	Installing the oil seal to the rack bushing and valve body.
47	0957A-34100A	AIR BAG DEPLOYMENT TOOL																	Airbag deployment tool PAB, SAB : 0957A-38100 DAB, BPT : 0957A-38500
48	0957A-38000	DIAGNOSIS CHECKER																	Wiring harness checker for each module

# LAVITA\_FC (1.6 & 1.8)

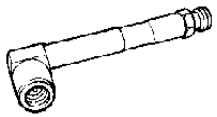

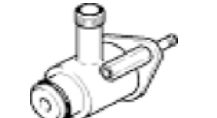
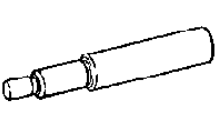
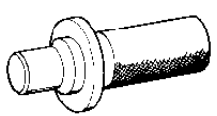
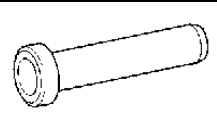
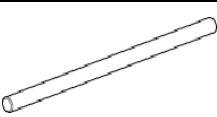
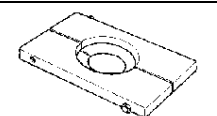
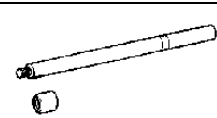
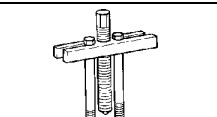
No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION													USAGE		
				EM		EE	FL	CH	MT	AT	DS	SS	ST	RT	BR	BD		HA	
				DOHC 1.8L	DOHC 1.6L														
49	0957A-38200	DUMMY																	Simulator to check the resistance of each wiring harness Dummy adapter PAB, SAB : 0957A-38300 DAB, BPT : 0957A-38400
50	09793-21000	DOOR HINGE ADJUSTING WRENCH																	Adjustment, removal, and installation of the door hinge
51	09800-21000	ORNAMENT REMOVER																	Trim removal
52	09853-31000	HEAD LINING CLIP REMOVER																	Removal of the headliner clip
53	09861-31100	SEALANT CUT-OUT TOOL																	Cutting the sealant of the windshield (use with 09861-31200)
54	09861-31200	SEALANT CUTTING BLADE																	Cutting the sealant of the windshield (use with 09861-31100)
55	09861-31300	SEALANT GUN																	application of the sealant to the windshield
56	09861-31400	GLASS HOLDER																	Removal and installation of the windshield



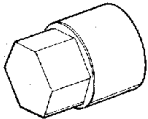
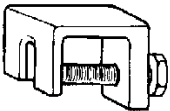
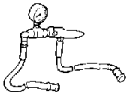
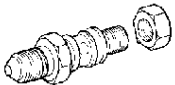
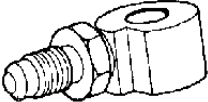
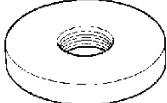



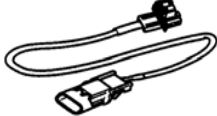
# SONATA\_NF (2.0 & 2.4)

No.	Tool No.	Tool name	Image	EM	FL	CH	MT	AT	ST	RT	BR	HA	USAGE
				G4KA-2.0 / G4KC-2.4			M5GF2	F4A42					
1	09200-38001	ENGINE SUPPORT FIXTURE						●					Support of engine, removal and installation of the transaxle.
2	09214-3K000	CRANKSHAFT FRONT OIL SEAL INSTALLER		●									Installation of the crankshaft front oil seal.
3	09214-3K100	CRANKSHAFT REAR OIL SEAL INSTALLER (Ø-ENG)		●									Installation of the crankshaft rear oil seal.
4	09222-21100	VALVE STEM OIL SEAL INS.							●				Installation of the ball bearing to gear housing
5	09222-32100	VALVE STEM SEAL INSTALLER							●				Installation of the oil pump oil seal
6	09222-3K000	VALVE SPRING COMPRESSOR		●									Removal and installation of the intake or exhaust valve
7	09222-3K100	VALVE SPRING COMPRESSOR ADAPTER (Ø-ENG)		●									Removal and installation of the intake or exhaust valve
8	09222-4A000	VALVE STEM SEAL INSTALLER		●									Installation of the valve stem oil seal
9	09231-3K000	FLYWHEEL STOPPER (Ø-ENG)		●									Stop the flywheel
10	09231-H1100	HANDLE		●									Installation of the crankshaft rear oil seal



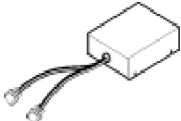


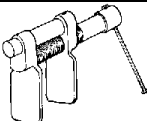

# SONATA\_NF (2.0 & 2.4)

No.	Tool No.	Tool name	Image	EM	FL	CH	MT	AT	ST	RT	BR	HA	USAGE
				G4KA-2.0 / G4KC-2.4			M5GF2	F4A42					
11	09353-24000	FUEL PRESSURE GAUGE ADAPTER			●								Connection between Fuel Pressure Gauge(09353-24100)and Fuel Pressure Gauge Adapter(09353-38000)
12	09353-24100	FUEL PRESSURE GAUGE			●								Measuring the fuel line pressure
13	09353-38000	FUEL PRESSURE GAUGE ADAPTER			●								Connection between the delivery pipe and fuel feed line
14	09411-11000	CLUTCH DISC GUIDE				●							Installation of the clutch disc
15	09431-11000	FRONT OIL SEAL INSTALLER							●				Installation of the pinion gear oil seal
16	09432-21601	BEARING INSTALLER							●				Installing the pinion gear bearing
17	09517-21400	DRIFT							●				1. Removal of the pinion gear bearing. 2. Removal of the pinion bearing outer race.
18	09527-4A000	REMOVING PLATE					●						1. Removal of the pinion gear bearing. 2. Removal of the pinion bearing outer race.
19	09555-21000	BAR							●				Removal and installation of the oil seal (use with 09573-33100,09573-33000,09573-21000)
20	09561-11001	STEERING WHEEL PULLER							●				Removal of steering wheel

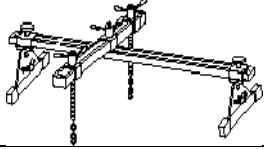
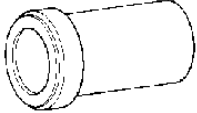

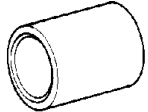
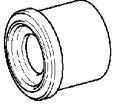

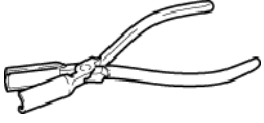
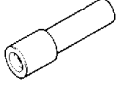
# SONATA\_NF (2.0 & 2.4)

No.	Tool No.	Tool name	Image	EM	FL	CH	MT	AT	ST	RT	BR	HA	USAGE
				G4KA-2.0 / G4KC-2.4			M5GF2	F4A42					
21	09565-31300	YOKE PLUG TORQUE WRENCH SOCKET							●				Removal, installation and adjustment of steering gear yoke plug
22	09568-4A000	BALL JOINT PULLER							●				Disconnection of the tie-rod
23	09572-21000	P/S OIL PRESSURE GAUGE							●				Measuring the power steering oil pressure(use with 09572-21200, 09572-22100)
24	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER							●				Measuring the power steering oil pressure(use with 09572-21000, 09572-22100)
25	09572-22100	OIL PRESSURE GAUGE ADAPTER							●				Measurement of oil pressure(Use with 09572-21000,09572-21200)
26	09573-33000	OIL SEAL INSTALLER							●				Installation of the back up washer and oil seal(use with 09573-21000,09573-33100,09555-21000)
27	09573-33100	OIL SEAL GUIDE							●				Removal and installation of the oil seal (use with 09573-21000,09573-33000,09555-21000)
28	0957A-1C000	DUMMY ADAPTER(DAB,BPT,CAB)								●			Use with dummy(DAB,CAB,BPT)
29	0957A-2E200	DUMMY ADAPTER								●			Use with dummy (BUPT)
30	0957A-2E210	DEPLOYMENT ADAPTER								●			Use with deployment tool (BUPT)

## SONATA\_NF (2.0 & 2.4)






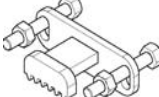
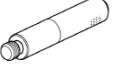

No.	Tool No.	Tool name	Image	EM	FL	CH	MT	AT	ST	RT	BR	HA	USAGE
				G4KA-2.0 / G4KC-2.4			M5GF2	F4A42					
31	0957A-34100A	AIR BAG DEPLOYMENT TOOL								●			Airbag deployment tool
32	0957A-38100	DEPLOYMENT ADAPTER								●			To connect deployment tool(0957A-34100A)and airbag module(PAB)
33	0957A-38200	DUMMY								●			Simulator to check the resistance of each wiring harness
34	0957A-38300	DUMMY ADAPTER								●			To connect dummy(0957A-38200)and airbag harness side connector(PAB)
35	0957A-38500	DEPLOYMENT ADAPTER								●			Use with deployment tool (DAB,CAB,BPT)
36	09581-11000	PISTON EXPENDER									●		Pushing back of the front disc and rear disc brake piston
37	09977-29000	DISC & HUB BOLT REMOVER										●	Removal and installation of disc&hub assembly

# GRANDEUR\_TG (3.3)

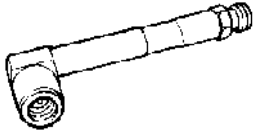


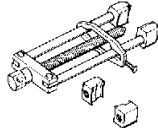
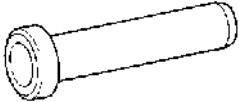
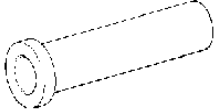
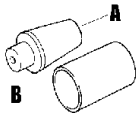
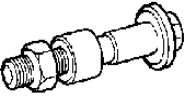
No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
1	09200-38001	ENGINE SUPPORT FIXTURE					●										Support of engine, removal and installation of the transaxle.
2	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.						●									Removal & Installation of lower arm bushing(use with 09216-21100)
3	09215-3C000	OIL PAN REMOVER		●													Removal of oil pan
4	09216-21100	MOUNT BUSHING R & I BASE						●	●								Removal and Installation of lower armm bushing (use with 09216-32000)
5	09216-21600	MOUNT BUSHING R & I ARBOR						●	●								Removal and installation of trailing arm bushing(use with 09552-38100)
6	09216-22100	MOUNT BUSHING BASE							●								Installation of rear hub tone wheel.
7	09222-29000	VALVE STEM OIL SEAL REMOVER		●													Remover of the valve stem seal
8	09222-32100	VALVE STEM SEAL INSTALLER								●							Installation of the oil pump oil seal



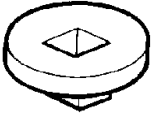

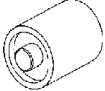


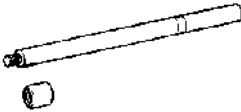
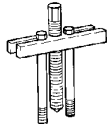
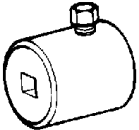
# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
9	09222-3C100	VALVE STEM OIL SEAL INSTALLER		●													Installation of the valve stem seal
10	09222-3C300	VALVE SPRING COMPRESSOR ADAPTER		●													Removal and installation of the intake or exhaust valve
11	09222-3K000	VALVE SPRING COMPRESSOR		●													Removal and installation of the intake or exhaust valve
12	09231-3C100	OIL SEAL INSTALLER		●													Installation of the front oil seal
13	09231-3C200	OIL SEAL INSTALLER		●													Installation of the crankshaft rear oil seal
14	09231-3C300	FLYWHEEL STOPPER		●													Stop Flywheel.
15	09231-H1100	HANDLE		●													Installation of the crankshaft rear oil seal
16	09263-3C100	OIL FILTER WRENCH		●													Removal and installation of the oilfilter housing cover

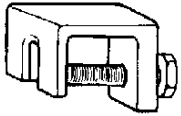
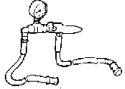
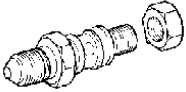
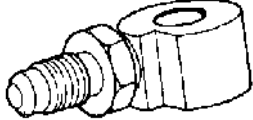

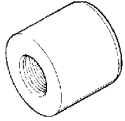


# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
17	09353-24000	FUEL PRESSURE GAUGE ADAPTER				●											Connection between Fuel Pressure Gauge(09353-24100)and Fuel Pressure Gauge Adapter(09353-38000)
18	09353-24100	FUEL PRESSURE GAUGE				●											Measuring the fuel line pressure
19	09353-38000	FUEL PRESSURE GAUGE ADAPTER				●											Connection between the delivery pipe and fuel feed line
20	09432-11000	MAINSHAFT BEARING PULLER								●							Removal of the tone wheel
21	09432-21601	BEARING INSTALLER														●	Installing the pinion gear bearing
22	09434-14200	COUNTER SHAFT BEARING INS.														●	Installing the gear box oil seal
23	09453-33000B	SNAP RING INSTALLER														●	Removal and installation of the rear axle carrier bushing(use with 09552-38200)
24	09517-21500	FRONT HUB REMOVER & INSTALLER														●	Removal of a front hub from a knuckle(use with 09517-21600)


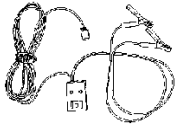
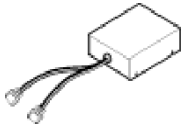



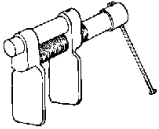

# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
25	09532-11600	PRELOAD SOCKET						●	●								Measurement of the front lower arm ball joint saring torque(use with torque wrench)
26	09545-21100	BALL JOINT DUST COVER INS.							●								Press-fitting of the front hub to the knuckle
27	09545-34100	LOWER ARM BUSHING R & I ARBOR							●								Removal of the bearing inner race from the front hub
28	09546-26000	COIL COMPRESSOR						●									compression of the coil spring
29	09552-38100	TRAILER ARM BUSHING R & I						●									Removal and installation of the rear trailing arm bushing(use with 09216-21600)
30	09555-21000	BAR								●							Removal and installation of the oil seal (use with 09573-33100,09573-33000,09573-21000)
31	09561-11001	STEERING WHEEL PULLER								●							Removal of steering wheel
32	09565-11100	PRELOAD SOCKET								●							Measurement of the main shaft pre-load



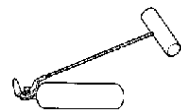

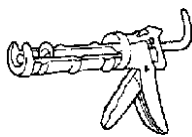

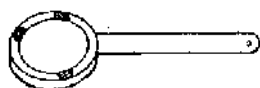
# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
33	09568-4A000	BALL JOINT PULLER							●	●	●						Disconnection of the tie-rod
34	09572-21000	P/S OIL PRESSURE GAUGE															Measuring the power steering oil pressure(use with 09572-21200, 09572-22100)
35	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER															Measuring the power steering oil pressure(use with 09572-21000, 09572-22100)
36	09572-22100	OIL PRESSURE GAUGE ADAPTER															Measurement of oil pressure(Use with 09572-21000,09572-21200)
37	09573-21100	OIL SEAL INSTALLER															Installing the back-up washer and oil seal (use with 09573-21000,09573-21200,09555-21000)
38	09573-33100	OIL SEAL GUIDE															Removal and installation of the oil seal (use with 09573-21000,09573-33000,09555-21000)
39	0957A-1C000	DUMMY ADAPTER(DAB,BPT,CAB)															● Use with dummy(DAB,CAB,BPT)
40	0957A-2E200	DUMMY ADAPTER															● Use with dummy (BUPT)

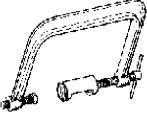
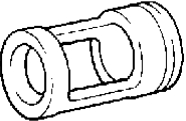

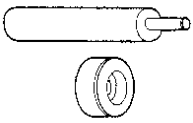

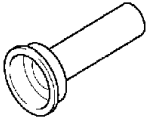
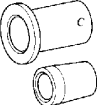
# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE				
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT					
41	0957A-2E210	DEPLOYMENT ADAPTER															●	Use with deployment tool (BUPT)	
42	0957A-34100A	AIR BAG DEPLOYMENT TOOL																●	Airbag deployment tool
43	0957A-38200	DUMMY																●	Simulator to check the resistance of each wiring harness
44	0957A-38500	DEPLOYMENT ADAPTER																●	Use with deployment tool (DAB,CAB,BPT)
45	0957A-3F000	DUMMY ADAPTER(SAB)																●	Use with dummy(PAB,SAB)
46	0957A-3F100	DEPLOYMENT ADAPTER(SAB)																●	Use with deployment tool(PAB,SAB)
47	09581-11000	PISTON EXPENDER																●	Pushing back of the front disc and rear disc brake piston
48	09624-38000	CROSSMEMBER SUPPORT																	Supporting of the cressmember

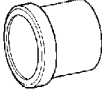
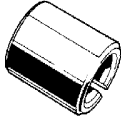
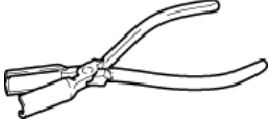


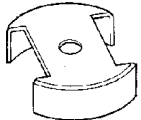
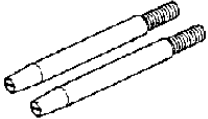
# GRANDEUR\_TG (3.3)

No.	Tool No.	Tool Name	Image	APPLICATION											USAGE		
				EM	EE	FL	AT	SS	DS	ST	BR	BD	HA	RT			
49	09800-21000	ORNAMENT REMOVER												●			Trim removal
50	09853-31000	HEAD LINING CLIP REMOVER												●			Removal of the headliner clops
51	09861-31100	SEALANT CUT-OUT TOOL												●			Cutting the selalant of the windshield(Use with 09861-31200)
52	09861-31200	SEALANT CUTTING BLADE												●			Cutting the selalant of the windshield(Use with 09861-31100)
53	09861-31300	SEALANT GUN												●			Application of the sealant to the windshield
54	09880-4F000A	HOG RING PLIER												●			Installation of the hog ring clip
55	09977-29000	DISC & HUB BOLT REMOVER													●		Removal and installation of disc&hub assembly

# CENTENIAL\_LZ (3.5 &4.5)

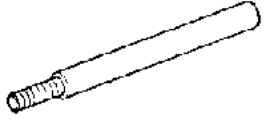

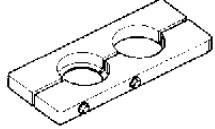
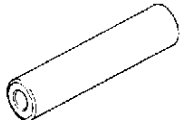
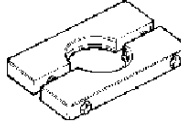

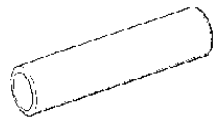
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				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
1	09222-28000	VALVE SPRING COMPRESSOR		●	●													Removal and installation of intake and exhaust valve
2	09222-28100	VALVE SPRING COMP. HOLDER		●	●													Removal and installation of intake and exhaust valve
3	09222-22001	VALVE STEM OIL SEAL INS.		●	●													Installation of valve stem oil seal
4	09221-22000	VALVE GUIDE INSTALLER (A/B)		●	●													Removal and installation of valve guide
5	09221-29000	VALVE GUIDE INSTALLER		●	●													Removal and installation of valve guide
6	09231-33000	CRANK SHAFT REAR OIL SEAL INS.		●	●													Installation of crankshaft rear oil seal
7	09214-33000	CRANKSHAFT FRONT OIL SEAL INSTALLER		●	●													Installation of crankshaft front oil seal

# CENTENIAL\_LZ (3.5 &4.5)

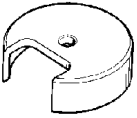

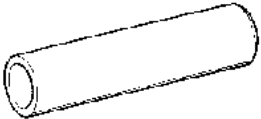

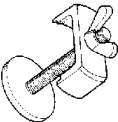


No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
8	09221-21000	CAM SHAFT OIL SEAL INS.		●	●													Installation of camshaft oil seal
9	09231-33100	CRANK SHAFT WRENCH		●	●													Used if the crankshaft needs to be rotated to attach the timing belt, etc.
10	09222-29000	VALVE STEM OIL SEAL REMOVER		●	●													Removal of valve stem oil seal
11	09353-38000	Fuel pressure gague adapter						●										Connection of fuel pressure gauge to fuel supply pipe as fuel pressure measurement
12	09353-24100	Fuel pressure gague and hose						●										Measurement of fuel pressure
13	09453-24000	SPRING COMPRESSOR								●								Removal and installation of the underdrive clutch snap ring.
14	09452-21401	GUIDE PIN								●								Installation of the oil pump and transfer drive gear.(use with 09452-21301)




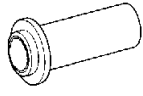
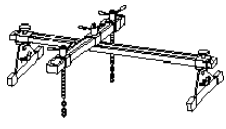
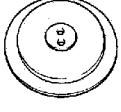
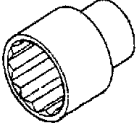
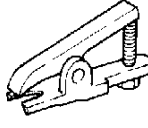
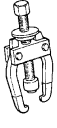
# CENTENIAL\_LZ (3.5 &4.5)

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				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
15	09453-33100	DIAL GAUGE EXTENSION																Mesurement of the low and reverse and second brake end play.
16	09431-39000	OIL SEAL INSTALLER																Installation of the drive shaft oil seal
17	09432-33200	REMOVE PLATE																Removal of the transfer shaft bearing
18	09432-33800	BEARING INSTALLER																1. Removal of the transfer drive gear taper bearing(use with 09433-21000) 2. Installation of the transfer shaft bearing
19	09433-21000	REMOVING PLATE																1. Removal of the transfer drive gear taper bearing.(use with 09432-33800) 2. Removal of the differential ball bearing
20	09500-11000	BAR																Installation of the differential outlace bearing.(use with 09532-11500)
21	09455-33200	BEARING INSTALLER																Installation of the differential ball bearing and output shaft taper roller bearing.

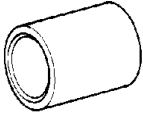
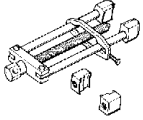
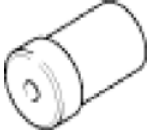
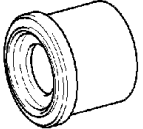
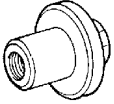
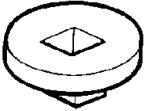
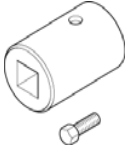
# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
22	09453-21100	SPRING COMPRESSOR																Removal and installation of the low and reverse brake snap ring.(use with 09453-21000)
23	09455-21000	BEARING AND GEAR PULLER																Removal of the transfer driver gear and bearing.
24	09455-21100	BEARING INSTALLER																1. Installation of the transfer drive gear and bearing. 2. Installation of the transfer drive gear taper bearing.
25	09532-11500	PINION BEARING OUTER RACE INSTALLER																Installation of the differnetial outlace bearing.(use with 09500-11000)
26	09453-21000	SPRING COMPRESSOR																1. Removal and installation of the low & reverse brake snap ring. 2. Removal and installation of the overdrive clutch snap ring.(use with 09456-39000)
27	09456-39000	SPRING COMPRESSOR																Removal and installation of the low and reverse brake and overdrive clutch snap ring.
28	09432-21701	BEARING OUTER RACE INS.																Installation of the output shaft outlace.


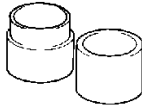



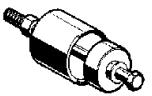
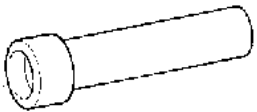
# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
29	09452-33100	OIL PUMP REMOVER																Removal of the oil pump.
30	09452-21200	OIL PUMP OIL SEAL INS.																Installation of the oil pump oil seal
31	09200-38001	ENGINE SUPPORT FIXTURE																Removal and installation of the transaxle.
32	09456-39100	CLEARANCE DUMMY PLATE																Measurement of the low and reverse and second brake end play.
33	09457-39000	SPECIAL SOCKET																Removal and installation of the output lock nut.
34	09568-34000	BALL JOINT PULLER																Separation of tie rod end and lower arm ball joint
35	09517-43001	BEARING PULLER																Removal of center bearing bracket

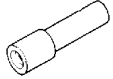
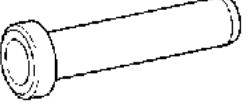
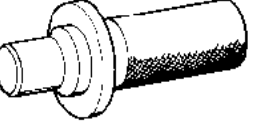

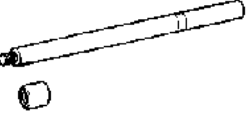
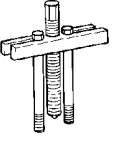
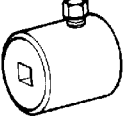
# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
36	09216-21100	MOUNT BUSHING R & I BASE																Removal of center bearing(used with 09495-33100)
37	09432-11000	MAINSHAFT BEARING PULLER																Removal of driveshaft tone wheel
38	09495-33100	DRIVE SHAFT CENTER BEARING R & I																Removal of center bearing(used with 09216-21100)
39	09216-21600	MOUNT BUSHING R & I ARBOR																Removal and installation of the rear trailing arm bushing(Use with 09552-38100)
40	09529-21000	WHEEL ALIGNMENT GAUGE ATTACHMENT																Measurement of the wheel alignment
41	09532-11600	PRELOAD SOCKET																Measurement of the stabilizer bar link ball joint preload(Use with torque wrench)
42	09532-3A000	PRELOAD SOCKET																measurmnt of the front lower arm ball joint preload(Use with torque wrench).

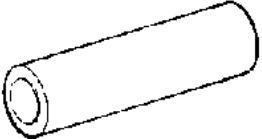
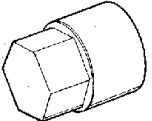
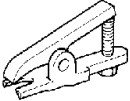
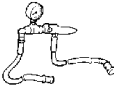
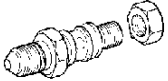


# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE		
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA	
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1									
43	09545-21100	BALL JOINT DUST COVER INS.																	Installation of the front lower arm ball joint(Use with 09545-11000)
44	09545-11000	BALL JOINT REMOVER & INSTALLER																	Installation of the lower arm ball joint dust cover
45	09552-38000	ASSIST ARM BUSHING R & I																	Removal and installation of the assist arm bushing
46	09552-38100	TRAILER ARM BUSHING R & I																	Removal and installation of the rear trailing arm bushing(Use with 09216-21600)
47	09552-38200	CENTER ARM BUSHING R & I																	Removal and installation of the rear center arm bushing
48	09624-34000	TRAILING ARM BUSHING R & I																	Removal and installation of the lower arm bush(G)
49	09222-21100	VALVE STEM OIL SEAL INS.																	Installation of the pinion gear bearing

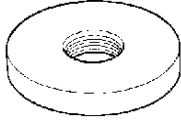

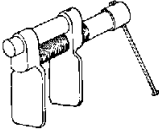
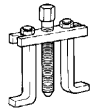

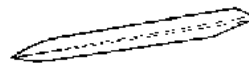

# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
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				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
50	09222-32100	VALVE STEM SEAL INSTALLER																Installation of the oil pump seal
51	09432-21601	BEARING INSTALLER																Installation of the pinion gear bearing
52	09431-11000	FRONT OIL SEAL INSTALLER																Installation of the pinion gear oil seal
53	09517-21400	DRIFT																1) Removal of the pinion gear bearing 2) Removal of the pinion bearing outer-race.
54	09555-21000	BAR																Removal and installation of the oil seal(used with 09573-33000, 09573-33100, 09573-21000)
55	09561-11001	STEERING WHEEL PULLER																Removal of the steering wheel
56	09565-11100	PRELOAD SOCKET																Measurement of the main shaft preload

# CENTENIAL\_LZ (3.5 &4.5)

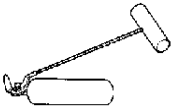

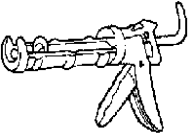


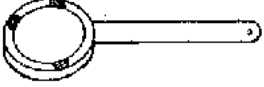
No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE	
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1								
57	09565-21000	PINION BEARING R & I																Removal and installation of the pinion gear bearing
58	09565-31300	YOKE PLUG TORQUE WRENCH SOCKET																Removal, installation and adjustment of the steering gear yoke plug.
59	09568-31000	TIE ROD END PULLER																Separation of the tie rod end ball joint
60	09572-21000	P/S OIL PRESSURE GAUGE																Measuremnt of the oil pressure(use with 09572-33100, 09572-21200)
61	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER																Measurement of the oil pressure(use with 09572-21000, 09572-33100)
62	09572-33100	OIL PRESSURE GAUGE ADAPTER																Measurement of the oil pressure(use with 09572-21000, 09572-21200)
63	09573-21000	INSTALLER GUIDE																Installation of the back up washer and oil seal(use with 09573-33000, 09573-33100)

# CENTENIAL\_LZ (3.5 &4.5)

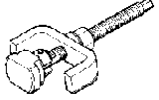
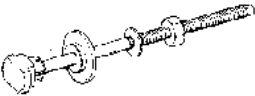
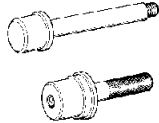


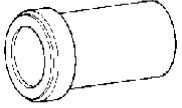
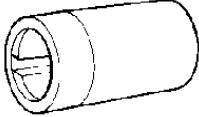
No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE		
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA	
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1									
64	09573-33000	OIL SEAL INSTALLER																	Installation of the washer and oil seal(use with 09573-21000, 09573-33100, 09555-21000)
65	09573-33100	OIL SEAL GUIDE																	Removal and installation of the oil seal(use with 09573-21000, 09573-33000, 09555-21000)
66	09581-11000	PISTON EXPENDER																	Pushing back of the front disc and rear disc brake piston
67	09526-11001	AXLE SHAFT PULLER																	Removal or installation of front hub and disc.
68	09793-21000	DOOR HINGE ADJUSTING WRENCH																	Adjustment, removal and installation of the door hinge
69	09800-21000	ORNAMENT REMOVER																	Trim removal
70	09853-31000	HEAD LINING CLIP REMOVER																	Removal of the headlining clip



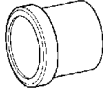
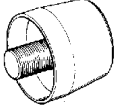
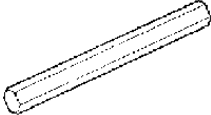

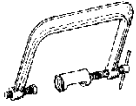
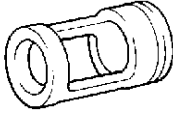
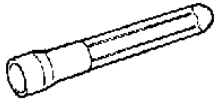
# CENTENIAL\_LZ (3.5 &4.5)

No.	TOOL No.	TOOL NAME	Image	APPLICATION													USAGE		
				EM		EE	FL		CH	AT	DS	SS	ST	RT	BR	BD		HA	
				3.5	4.5		3.5	4.5		F5A51-5 F5AH1									
71	09861-31100	SEALANT CUT-OUT TOOL															●		Cutting the windshield glass sealant(use with 09861-31200)
72	09861-31200	SEALANT CUTTING BLADE																●	Cutting the windshield glass sealant(use with 09861-31100)
73	09861-31300	SEALANT GUN																●	Application of the sealant to the windshield glass
74	09861-31400	GLASS HOLDER																●	Removal and installation of the windshield glass
75	09861-31000	WINDSHILD GLASS HOLDING REMOVER																●	Removal of the windshield glass molding
76	09977-29000	DISC & HUB BOLT REMOVER																●	Removal and installation of the pressure plate


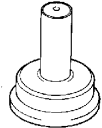
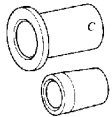
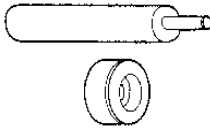


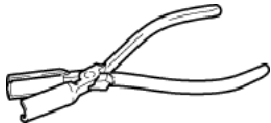
# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
1	09212-32000	COUNTER BALANCE SHAFT BEARING PULLER (Fr.)		●													Removal of counter balance shaft front bearing
2	09212-32100	COUNTER BALANCE SHAFT BEARING PULLER (Rr.)		●													Removal of counter balance shaft rear bearing(use with 09212-32300)
3	09212-32200	COUNTER BALANCE SHAFT BEARING INSTALLER		●													Installation of coutner balance shaft front and rear bearing(use with 09212-32300)
4	09212-32300	GUIDE PLATE		●													Removal and installation of counter balance shaft rear bearing(use with 09212-32100,09212-32200)
5	09213-33000	PLUG CAP WRENCH		●													Removal and installation of front case cap plug
6	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.		●													Installation of the crankshaft front oil seal(use with 09214-32100)
7	09214-32100	CRANKSHAFT FRONT OIL SEAL GUIDE		●													Installation of the cnrakshaft front oil seal(use with 09214-32000)

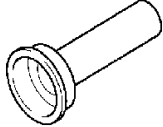
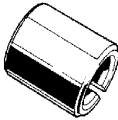



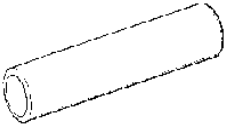
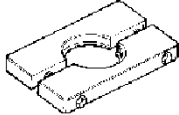
# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
8	09221-21000	CAM SHAFT OIL SEAL INS.		●	●												Installation of the camshaft oil seal (use with 09221-21100) Installation of the camshaft oil seal
9	09221-21100	CAM SHAFT OIL SEAL GUIDE		●													1. Used as a guide when pressing in the camshaft oil seal (use with 09221-21000)
10	09221-32001	CYLINDER HEAD BOLT WRENCH		●													Removal and installation of cylinder head bolts
11	09222-21200	VALVE GUIDE INSTALLER(A/B)		●													Removal and installation of valve guides
12	09222-28000	VALVE SPRING COMPRESSOR		●	●												Removal and installation of inlet and exhaust valves Removal and installation of the intake or exhaust valve
13	09222-28100	VALVE SPRING COMP. HOLDER		●	●												Removal and installation of inlet and exhaust valves Removal and installation of the intake or exhaust valve
14	09222-28200	OIL SEAL INSTALLER		●													Installation of valve stem oil seals

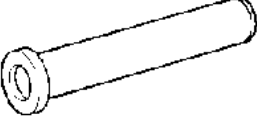
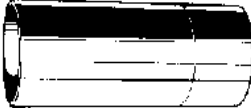


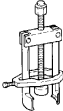
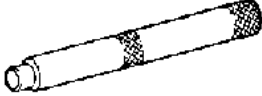

# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE			
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA				
				2.0/2.4 14	V6 2.7													
15	09222-28400	VALVE GUIDE INS. ADAPTER		●														Installation of valve guides
16	09231-21000	CRANK SHAFT REAR OIL SEAL INS.		●														1. Installation of the engine rear oil seal 2. Installation of the crankshaft rear oil seal
17	09214-33000	CRANKSHAFT FRONT OIL SEAL INSTALLER			●													Installation of the crankshaft front oil seal
18	09221-22000	VALVE GUIDE INSTALLER (A)			●													Removal and installation of the valve guide
19	09221-29000	VALVE GUIDE INSTALLER			●													Removal and installation of the valve guide
20	09222-22001	VALVE STEM OIL SEAL INS.			●													Installation of the valve stem oil seal
21	09222-29000	VALVE STEM OIL SEAL REMOVER			●													Removal of the valve stem oil seal

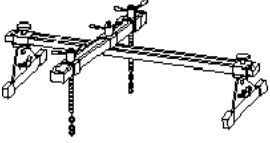
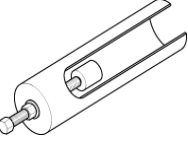


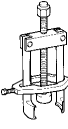
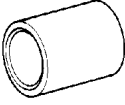

# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
22	09231-33000	CRANK SHAFT REAR OIL SEAL INS.			●												Installation of the crankshaft rear oil seal
23	09231-33100	CRANK SHAFT WRENCH			●												Used if the crankshaft needs to be rotated to attach the timing belt, etc.
24	09353-38000	FUEL PRESSURE GAUGE ADAPTER				●											Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
25	09353-24100	FUEL PRESSURE GAUGE				●											Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
26	09431-39000	OIL SEAL INSTALLER					●										Installation of differential oil seal (use with 09500-11000)
27	09455-33200	BEARING INSTALLER					●										Installation of output gear, bearing, sleeve Removal of input shaft bearing Removal of output shaft bearing
28	09433-21000	REMOVING PLATE					●										Removal of differential bearing

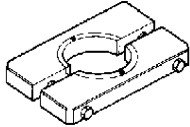
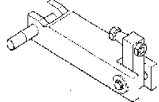
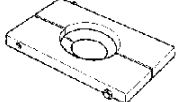
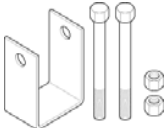
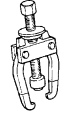
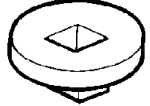
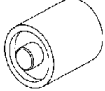
# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
29	09457-22100	TRANSFER BEARING OUTER RACE INS.					●										Installation of input shaft bearing
30	09432-21500	BEARING INSTALLER					●										Installation of input oil seal
31	09532-11500	PINION BEARING OUTER RACE INSTALLER					●										Installation of differential bearing race(use with 09500-11000)
32	09500-11000	BAR					●										Installation of bearing outer race
33	09495-33000	BEARING & GEAR PULLER					●									●	TR : Removal of ball bearing and gear HA : Removal of field coil
34	09500-21000	HANDLE					●										Installation of input shaft bearing
35	09532-32000	BEARING INSTALLER					●	●									DS : Installation of bearing outer race(use with 09500-21000) SS : # Removal of the front wheel bearing outer race(Use with 09216-22100) # Installation of the differential drive pinion front bearing outer race(Use with 09500-21000)

# SANTA FE\_SM (2.0 & 2.4 & 2.7)

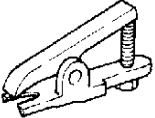



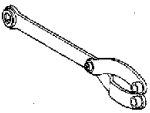
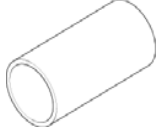
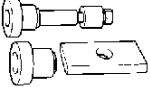
No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
36	09200-38001	ENGINE SUPPORT FIXTURE					●										Removal and installation of transaxle
37	09432-3A000	OUTPUT SHAFT PULLER					●										Removal of output shaft
38	09493-43000	UNIVERSAL JOINT R & I						●									Removal and installation of the journal bearing(Use with 09432-43100)
39	09493-43100	UNIVERSAL JOINT REMOVER ADAPTER						●									Removal and installation of the journal bearing(Use with 09452-43000)
40	09455-21000	BEARING AND GEAR PULLER						●									# Removal of the center bearing # Removal of the wheel bearing inner race(Use with 09545-34100)
41	09216-21100	MOUNT BUSHING R & I BASE						●									Removal of the rear hub tone wheel(Use with 09457-34000)
42	09216-22100	MOUNT BUSHING BASE						●									# Removal of the front wheel bearing outer race(Use with 09532-32000) # Installation of the rear hub tone wheel

# SANTA FE\_SM (2.0 & 2.4 & 2.7)

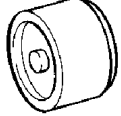

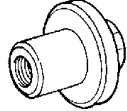


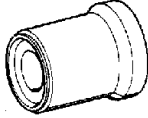
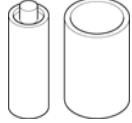
No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
43	09457-34000	REMOVE PLATE						●									Removal of the rear hub tone wheel(Use with 09216-21100)
44	09517-29000	KNUCKLE ARM BRIDGE						●									Removal and installation of the front hub(Use with 09517-3A000 and 09517-21500)
45	09527-4A000	REMOVING PLATE						●									Removal of the differential drive pinion rear bearing
46	09517-3A000	KNUCKLE ARM BRIDGE ADAPTER						●									Removal of the front hub(Use with 09517-21500 and 09517-29000)
47	09517-43001	BEARING PULLER						●									# Removal of the rear hub bearing # Removal of the differential side bearing
48	09532-11600	PRELOAD SOCKET						●	●								DS : Measurement of the front wheel bearing starting torque(Use with torque wrench) SS : Measurement of the stabilizer bar link ball joint preload(use with torque wrench)
49	09545-34100	LOWER ARM BUSHING R & I ARBOR						●									Removal of the hub





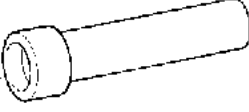
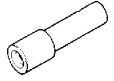
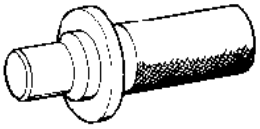
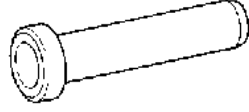

# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
50	09568-34000	BALL JOINT PULLER						●									Disconnection of the tie rod
51	09545-26000	LOWER ARM BUSHING R & I						●									Installation of the hub
52	09532-31200	OIL SEAL INSTALLER						●									Installation of the drive pinion rear bearing outer race(use with 09500-11000)
53	09517-43401	WORKING BASE						●									Support for the differential carrier
54	09517-21700	END YOKE HOLDER						●									Removal of the differential self locking nut
55	09500-26000	PINION HEIGHT GAUGE						●									Measurement of the drive pinion height
56	09500-43131	PINION HEIGHT GAUGE SET						●									Measurement of the drive pinion height

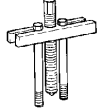
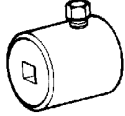
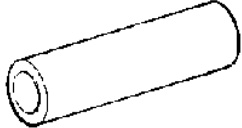
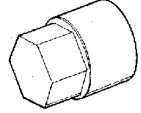
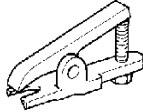
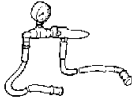
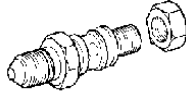
# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
57	09216-21000	MOUNT BUSHING R & I ARBOR							●								Removal and installation of the front upper arm bushing and lower arm bushing(Use with 09551-31000)
58	09216-21300	MOUNT BUSHING R & I BASE							●								Removal and installation of the trailing arm bushing(Use with 09552-38100)
59	09529-21000	WHEEL ALIGNMENT GAUGE ATTACHMENT							●								Measurement of the wheel alignment
60	09532-3A000	PRELOAD SOCKET							●								Measurement of the front lower arm ball joint preload(use with torque wrench)
61	09545-28100	LOWER ARM BUSHING R & I ARBOR							●								Removal and installation of the rear upper arm bushing and lower arm bushing(Use with 09552-25000)
62	09551-31000	UPPER ARM BUSHING R & I							●								Removal and installation of the front lower arm bushing(Use with 09216-21000)
63	09552-25000	SUSPENSION BUSHING R & I							●								Removal and installation of the rear upper arm bushing and lower arm bushing(Use with 09545-28100)

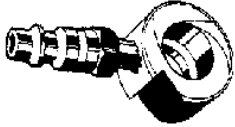
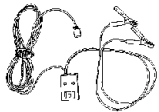

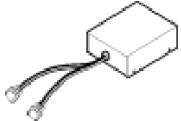
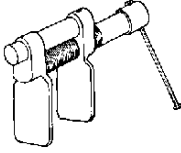


# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
64	09552-38100	TRAILER ARM BUSHING R & I							●								Removal and installation of rear trailing arm bushing(Use with 09216-21300)
65	09546-26000	COIL COMPRESSOR							●								Compression of the coil spring
66	09222-21100	VALVE STEM OIL SEAL INS.								●							Installation of the pinion gear bearing
67	09222-32100	VALVE STEM SEAL INSTALLER								●							Installation of the oil pump oil seal
68	09431-11000	FRONT OIL SEAL INSTALLER								●							Installation of the pinion gear oil seal
69	09432-21601	BEARING INSTALLER								●							Installation of the piion gear bearing
70	09517-21400	DRIFT								●							1. Removal of the pinion gear bearing 2. Removal of the pinion bearing outer race


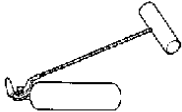

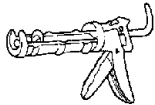
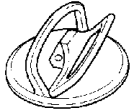

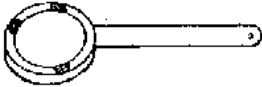
## SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
71	09561-11001	STEERING WHEEL PULLER															Removal of the steering wheel
72	09565-11100	PRELOAD SOCKET															Measurement of the main shaft preload
73	09565-21000	PINION BEARING R & I															Removal and installation of the pinion gear bearing
74	09565-31300	YOKE PLUG TORQUE WRENCH SOCKET															Removal, installation and adjustment of the steering gear yoke plug
75	09568-31000	TIE ROD END PULLER															Separation of the tie rod end ball joint
76	09572-21000	P/S OIL PRESSURE GAUGE															Measurement of the oil pressure(use with 09572-33100, 09572-21200)
77	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER															Measurement of the oil pressure(use with 09572-21000, 09572-33100)


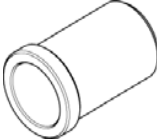
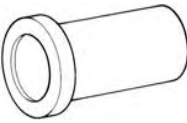
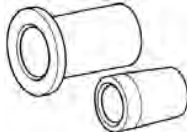

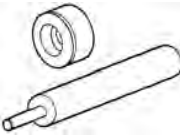
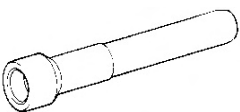
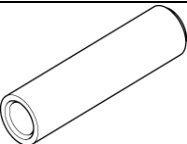
## SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA			
				2.0/2.4 14	V6 2.7												
78	09572-33100	OIL PRESSURE GAUGE ADAPTER															Measurement of the oil pressure(use with 09572-21000, 09572-21200)
79	0957A-34100A	AIR BAG DEPLOYMENT TOOL															Airbag deployment tool PAB, SAB : 0957A-38100 DAB, BPT : 0957A-38500
80	0957A-38000	DIAGNOSIS CHECKER															Wiring harness checker for each module
81	0957A-38200	DUMMY															Suimulator to check the resistance of each wiring harness Dummy adapter PAB, SAB : 0957A-38300 DAB, BPT : 0957A-38400
82	09581-11000	PISTON EXPENDER															Spreading the front and rear brake pistons
83	09793-21000	DOOR HINGE ADJUSTING WRENCH															Adjustment, removal, and installation of the door hinge
84	09800-21000	ORNAMENT REMOVER															Trim removal

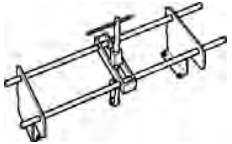
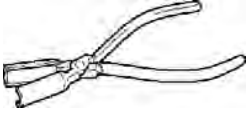
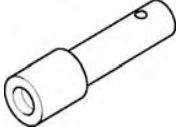
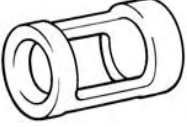
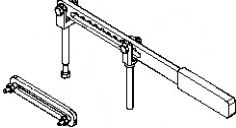

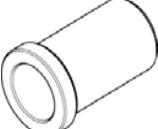
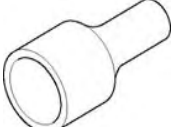
# SANTA FE\_SM (2.0 & 2.4 & 2.7)

No.	TOOL No.	TOOL NAME	IMAGE	APPLICATION											USAGE			
				EM	EMA	FL	TR	DS	SS	ST	RT	BR	BD	HA				
				2.0/2.4 14	V6 2.7													
85	09853-31000	HEAD LINING CLIP REMOVER																Removal of the headliner clip
86	09861-31100	SEALANT CUT-OUT TOOL																Cutting the sealant of the windshield(use with 09861-31200)
87	09861-31200	SEALANT CUTTING BLADE																Cutting the sealant of the windshield(use with 09861-31100)
88	09861-31300	SEALANT GUN																Application of the sealant to the windshield
89	09861-31400	GLASS HOLDER																Removal and installation of the windshield
90	09861-31000	WINDSHILD GLASS HOLDING REMOVER																Removal of the windshield moulding
91	09977-29000	DISC & HUB BOLT REMOVER																Removal and installation of pressure plate

# SANTA FE\_CM (2.2 & 2.7)



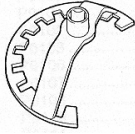
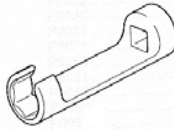
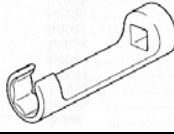
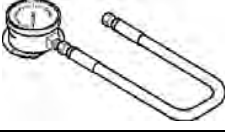
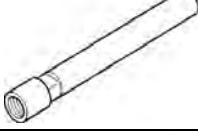
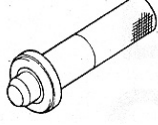
No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE						
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA			
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1											
1	09200-38001	ENGINE SUPPORT FIXTURE																						Removal and installation of transaxle
2	09212-27100	CAMSHAFT OIL SEAL I.& BALANCE..		●																				Installation of the camshaft oil seal
3	09214-21000	CRANKSHAFT FRONT OIL SEAL GUIDE			●																			Installation of the camshaft oil seal
4	09214-33000	CRANKSHAFT FRONT OIL SEAL INSTALLER			●																			Installation of the front oil seal
5	09215-3C000	OIL PAN REMOVER			●																			Removal of oil pan
6	09221-3F100(A/B)	VALVE GUIDE REMOVER & INSTALLER			●																			Removal and installation of the valve guide
7	09222-22001	VALVE STEM OIL SEAL INS.			●																			Installation of the valve stem seal
8	09222-27200	VALVE STEM OIL SEAL INS.		●																				Installation of valve stem oil seals

# SANTA FE\_CM (2.2 & 2.7)



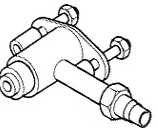
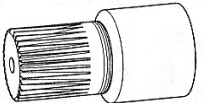

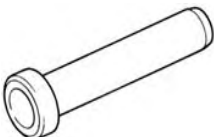
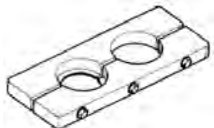
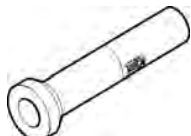
No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE			
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1								
9	09222-27300	VALVE SPRING COMPRESSOR		●																Removal and installation of intake and exhaust valves	
10	09222-29000	VALVE STEM OIL SEAL REMOVER			●															Removal of the valve stem seal	
11	09222-32100	VALVE STEM SEAL INSTALLER																	●	Installation of the oil pump oil seal	
12	09222-3C300	VALVE SPRING COMPRESSOR ADAPTER			●															Removal and installation of the intake or exhaust valves.	
13	09222-3K000	VALVE SPRING COMPRESSOR			●															Removal and installation of the intake or exhaust valves.	
14	09231-27000	CRANK SHAFT REAR OIL SEAL INS.		●																Installation of the crankshaft rear oil seal	
15	09231-27100	CRANK SHAFT FRONT OIL SEAL INS.		●																Installation of the front case oil seal	
16	09231-33000	CRANK SHAFT REAR OIL SEAL INS.			●															Installation of the crankshaft rear oil seal	



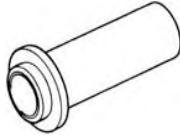



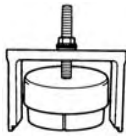


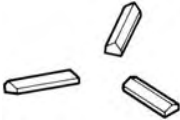
# SANTA FE\_CM (2.2 & 2.7)

No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE			
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1								
17	09263-27000	OIL FILTER WRENCH (CRDI-D:EXCEPT EUROPE LHD)		●																Removal and installation of oil filter For the rest area <b>except Europe LHD</b>	
18	09263-2E000	OIL FILTER WRENCH		●																Removal and installation of oil filter <b>For Europe LHD</b>	
19	09310-2B100	FUEL PUMP PLATE COVER WRENCH					●	●												Removing and installing the low pressure fuel pump & sub fuel sender plate cover	
20	09314-27110	CRDI HIGH PIPE RE/IN ADPATER					●													Installing the high pressure pipe	
21	09314-27120	CRDI HIGH PIPE RE/IN ADPATER					●													Installing the high pressure pipe	
22	09351-27000	COMPRESSION GAUGE		●																Checking engine compression pressure	
23	09351-27100	COMPRESSION GAUGE ADAPTER		●																Checking engine compression pressure	
24	09351-27401	INJECTOR OIL SEAL INSTALLER		●																Installation of the injector oil seal	



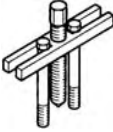


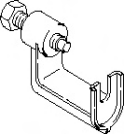
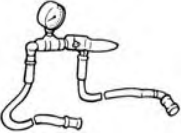

# SANTA FE\_CM (2.2 & 2.7)

No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE			
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1								
25	09353-24000	FUEL PRESSURE GAUGE ADAPTER						●												Connection between the Fuel Pressure Gauge(09353-24100) and Adapter(09353-38000).	
26	09353-24100	FUEL PRESSURE GAUGE						●												Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure. (Use with 09353-38000)	
27	09353-38000	FUEL PRESSURE GAUGE ADAPTER						●												Connecting of fuel pressure gauge to delivery pipe for measurement of fuel pressure. (Use with 09353-24100)	
28	09373-27000	ALTERNATOR PULLEY R&I					●													Removal and installation of alternator pulley	
29	09411-43000	CLUTCH ALIGNMENT ARBOR							●											Centering the clutch disc when installing	
30	09432-21601	BEARING INSTALLER																	●	Installing the pinion gear bearing	
31	09432-33200	REMOVE PLATE								●										Removal of oil seal	
32	09434-14200	COUNTER SHAFT BEARING INS.																	●	Installing the gear box oil seal	


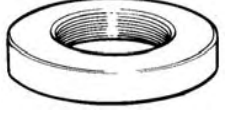


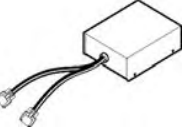


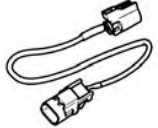
# SANTA FE\_CM (2.2 & 2.7)

No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE			
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA
				D4EB- DIESEL 2.2	G6EA- GSL2.7		D4EB- DIESEL 2.2	G6EA- GSL2.7		M5GF2	M5HF2	F4A51	A5HF1								
33	09452-21200	OIL PUMP OIL SEAL INS.										●	●								Oil seal installation
34	09455-21000	BEARING AND GEAR PULLER										●									Removal of taper roller bearing
35	09455-32200	OIL SEAL PULLER										●									Removal of oil seal
36	09478-26000	OIL SEAL INSTALLER										●									Installation of 4WD coupling flange oil seal
37	09478-26100	BACK PLATE REMOVER										●									Removal of 4WD coupling backing plate
38	09495-33000	BEARING & GEAR PULLER													●						Removal of spider assembly from a drive shaft
39	09517-43401	WORKING BASE													●						Support for the differential carrier
40	09517-43500	WORKING BASE ADAPTER													●						Support for the differential carrier(Use with 09517-43101)




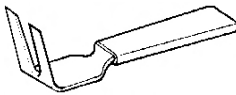
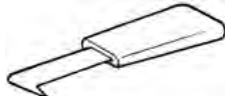
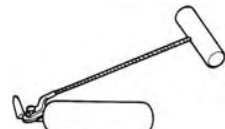

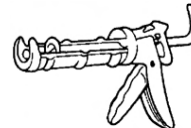
# SANTA FE\_CM (2.2 & 2.7)

No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE			
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1								
41	09546-26000	COIL COMPRESSOR																			compression of the coil spring
42	09555-21000	BAR																			Removal and installation of the oil seal(Use with 09573-33100, 09573-33000, 09573-21000)
43	09561-11001	STEERING WHEEL PULLER																			Removal of steering wheel
44	09565-11100	PRELOAD SOCKET																			Measuring the pinion shaft preload
45	09568-34000	BALL JOINT PULLER																			Removal of the rear upper arm ball joint
46	09568-4A000	BALL JOINT PULLER																			Removal of the front lower arm and tie rod end ball joint
47	09572-21000	P/S OIL PRESSURE GAUGE																			Measurement of the oil pressure(Use with 09572-22100, 09572-21200)
48	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER																			Measurement of the oil pressure(Use with 09572-21000, 09572-22100)


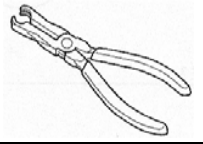
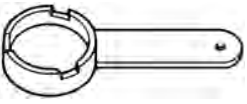
**SANTA FE\_CM (2.2 & 2.7)**

No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE						
				EM		EE	FL		CH	MT		AT		DS	SS	ST		RT	BR	BD	HA		
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1										
49	09572-22100	OIL PRESSURE GAUGE ADAPTER																					Measurement of the oil pressure(Use with 09572-21000, 09572-21200)
50	09573-21100	OIL SEAL INSTALLER																					Installation of the back up washer and oil seal(use with 09573-21000, 09573-33100, 09555-21000)
51	09573-33100	OIL SEAL GUIDE																					Removal and installation of the oil seal(Use with 09573-21000, 09573-33000, 09555-21000)
52	0957A-34100A	AIR BAG DEPLOYMENT TOOL																					Airbag deployment tool
53	0957A-38200	DUMMY																					Simulator to check the resistance of each wiring harness
54	0957A-38500	DEPLOYMENT ADAPTER																					Use with deployment tool(DAB,BPT)
55	0957A-3F000	DUMMY ADAPTER(SAB)																					Use with dummy(PAB, SAB, CAB)
56	0957A-3F100	DEPLOYMENT ADAPTER(SAB)																					Use with deployment tool(PAB, SAB, CAB).

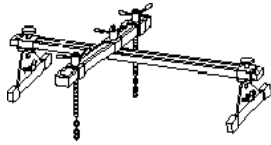
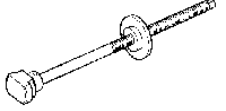
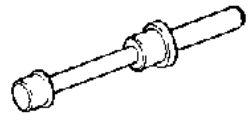

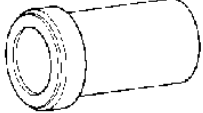
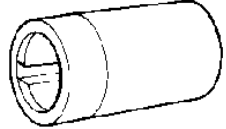
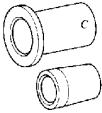

# SANTA FE\_CM (2.2 & 2.7)

No.	Tool No.	Tool Name	IMAGE	APPLICATION													USAGE												
				EM		EE	FL		CH	MT		AT		DS	SS	ST		RT	BR	BD	HA								
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1																
57	09581-11000	PISTON EXPENDER																	●		Spreading the front disc brake piston								
58	09793-21000	DOOR HINGE ADJUSTING WRENCH																			●		Adjustment, removal and installation of the door hinge						
59	09800-21000	ORNAMENT REMOVER																				●		Trim removal					
60	09853-31000	HEAD LINING CLIP REMOVER																					●		Removal of the headliner clips				
61	09861-31000	WINDSHILD GLASS HOLDING REMOVER																						●		removal of the windshield moulding			
62	09861-31100	SEALANT CUT-OUT TOOL																							●		cutting the sealant of the windshield(use with 09861-31200)		
63	09861-31200	SEALANT CUTTING BLADE																								●		Cutting the sealant of the windshield(use with 09861-31100)	
64	09861-31300	SEALANT GUN																									●		Applicatio n of the sealant to the windshield

**SANTA FE\_CM (2.2 & 2.7)**

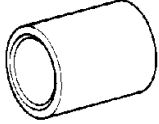
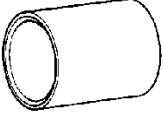
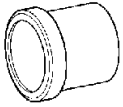



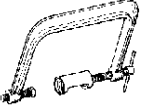
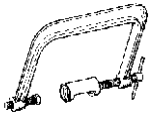
No.	Tool No.	Tool Name	IMAGE	APPLICATION														USAGE				
				EM		EE	FL		CH	MT		AT		DS	SS	ST	RT		BR	BD	HA	
				D4EB-DIESEL 2.2	G6EA-GSL2.7		D4EB-DIESEL 2.2	G6EA-GSL2.7		M5GF2	M5HF2	F4A51	A5HF1									
65	09861-31400	GLASS HOLDER																				Removal and installation of the windshield
66	09880-4F000A	HOG RING PLIER																				Installation of the hogring clip
67	09977-29000	DISC & HUB BOLT REMOVER																				Removal and installation of the disc & hub assembly bolt

# TERRACAN\_HP (2.5 & 2.9)

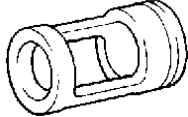
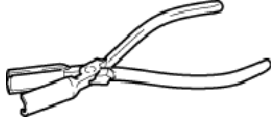
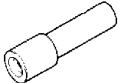


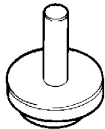
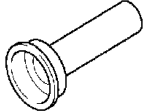
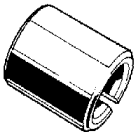
No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
1	09200-38001	ENGINE SUPPORT FIXTURE		●			●										Support of engine, removal and installation of the transaxle.
2	09212-43100	SILENT SHAFT BEARING PULLER		●													Removal of the silent shaft rear bearing.
3	09212-43200	SILENT SHAFT BEARING INSTALLER		●													Insallation of the silent shaft rear bearing.
4	09212-43300	BEARING INSTALLER STOPPER		●													Guide for removal and installation of silent shaft right bearing
5	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.		●													Removal & Installation of lower arm bushing(use with 09216-21100)
6	09214-32100	CRANKSHAFT FRONT OIL SEAL GUIDE		●													Installation of the crankshaft front oil seal
7	09214-33000	CRANKSHAFT FRONT OIL SEAL INSTALLER		●													Installation of the front oil seal
8	09214-43000	CONNECTING ROD BUSHING REPLACEMENT		●													Replacement of connecting-rod small end bushing.




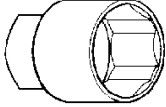
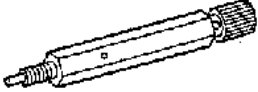
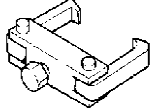
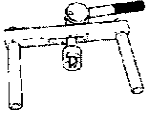

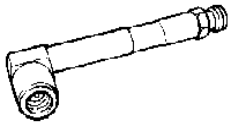

# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
9	09216-21100	MOUNT BUSHING R & I BASE						●								Removal and Installation of lower arm bushing (use with 09216-32000)
10	09216-21300	MOUNT BUSHING R & I BASE						●	●							Installation of front wheel bearing
11	09221-21000	CAM SHAFT OIL SEAL INS.		●												Installation of the camshaft oil seal
12	09221-29000	VALVE GUIDE INSTALLER		●												Installation of the valve guide(Use with 09221-22000A)
13	09221-32001	CYLINDER HEAD BOLT WRENCH		●												Removal and tightening of the cylinder head bolt.
14	09221-4A000A	TORQUE ANGLE ADAPTER		●												Installation of bolts & nuts needing an angular method
15	09222-21001	VALVE SPRING COMPRESSOR		●												Removal and installation of the valve guide. [1.1L only]
16	09222-28000	VALVE SPRING COMPRESSOR		●												Removal and installation of the intake or exhaust valve


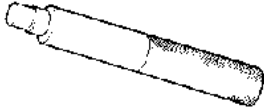
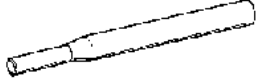
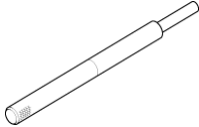
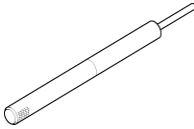
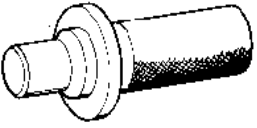
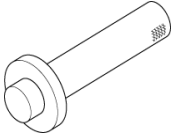
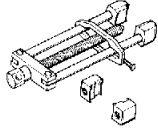
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
17	09222-28100	VALVE SPRING COMP. HOLDER		●													Removal and installation of the intake or exhaust valve
18	09222-29000	VALVE STEM OIL SEAL REMOVER		●													Remover of valve stem oil seal
19	09222-32100	VALVE STEM SEAL INSTALLER		●													Installation of the oil pump oil seal
20	09222-32200	VALVE GUIDE INSTALLER		●													Installation of valve guide.
21	09222-43200	SILENT SHAFT DRIVE GEAR...		●													Installation of silent shaft drive oil seal.
22	09231-32000	CRANKSHAFT REAR OIL SEAL INSTALLER		●													Installation of crankshaft front oil seal
23	09231-33000	CRANK SHAFT REAR OIL SEAL INS.		●													Installation of the crankshaft rear oil seal
24	09231-33100	CRANK SHAFT WRENCH		●													Used if the crankshaft needs to be rotated to attache the timing belt,etc

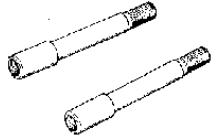

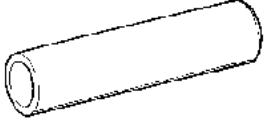

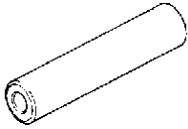
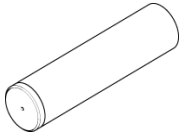
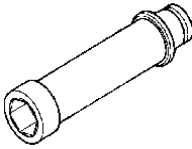
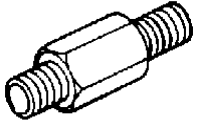
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
25	09231-H1000	CRANKSHAFT PULLEY ADAPTER		●													Removal or installation of the crankshaft pulley bolt(used with 09517-21700)
26	09260-32000	OIL PRESSURE SWITCH WRENCH		●													Removal and installation of oil pressure switch.
27	09310-43000	PRESTROKE MEASURING ADAPTER		●													Injection timing adjustment
28	09314-43000	INJECTION PUMP SPROCKET PULLER		●													Removal of the injection pump sprocket.
29	09351-H1000	INJECTOR REMOVER		●													Removal of Injectors
30	09351-H1500	COMMON RAIL FUEL RETURN PRESSURE GAUGE ADAPTER		●													Adapter for the measurement of the fuel pressure returned in common rail.
31	09353-24000	FUEL PRESSURE GAUGE ADAPTER		●													Connection between Fuel Pressure Gauge(09353-24100)and Fuel Pressure Gauge Adapter(09353-38000)
32	09353-24100	FUEL PRESSURE GAUGE		●													Measuring the fuel line pressure

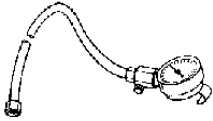
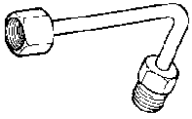
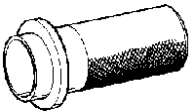
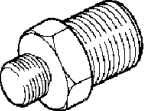
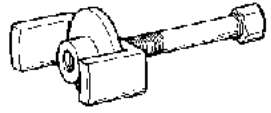

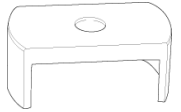
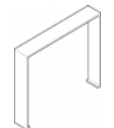
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
33	09353-38000	FUEL PRESSURE GAUGE ADAPTER		●													Connection between the delivery pipe and fuel feed line
34	09411-43000	CLUTCH ALIGNMENT ARBOR				●											Installation of the clutch discs
35	09414-11000	LOCK PIN EXTRACTOR					●										Removal of the pin in the lock pawl rod
36	09414-H1000	LOCK PIN REMOVER					●										Removal of shift fork and inter lock body pin.
37	09414-H1100	LOCK PIN INSTALLER					●										Installation of shaft fork and inter lock body spring
38	09431-32000	FRONT OIL SEAL INSTALLER					●										Installation of the input shaft front oil seal and rear oil seal
39	09431-H1000	OIL SEAL INSTALLER					●										Press fitting of clutch housing oil sea.
40	09432-11000	MAINSHAFT BEARING PULLER					●										Removal of the main shaft bearing.(Use with 09432-11100)

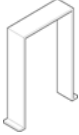
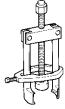
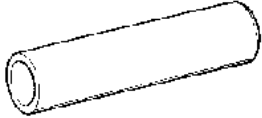


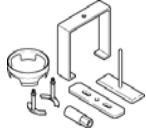
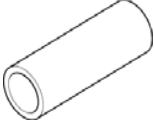
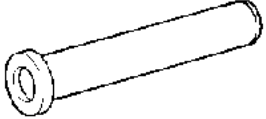
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
41	09432-11100	MAINSHAFT BEARING PULLER, ADAPTER					●									Removal of the main shaft bearing.(Use with 09432-11000)
42	09432-21701	BEARING OUTER RACE INS.						●								Installation of the output shaft outlace
43	09432-33300	BEARING INSTALLER					●									Installation of the center bearing
44	09432-33700	BEARING OUTER RACE INS.						●								Installatin of front hub. (use with 0950-21000)
45	09432-33800	BEARING INSTALLER						●								1.Removal of the transfer drive gear taper bearing(use with 09433-21000) 2.Removal of the differential ball bearing
46	09432-H1000	MAIN SHAFT BEARIN INS.					●									Removal of input/out put shaft bearing
47	09432-H1100	LOCK NUT WRENCH					●									Removal of main shaft lock nut
48	09452-21000	OIL PRESSURE GAUGE ADAPTER					●									Measurement of the oil pressure(use with 09452-21500,09452-21600,09452-32300)



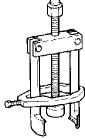

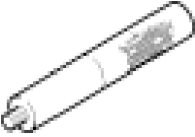
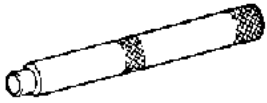
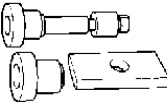

# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
49	09452-21500	TRANSMISSION PRESSURE GAUGE					●										Measurement of the oil pressure(Use with 09452-21001 and 09452-21002)
50	09452-21600	OIL PRESSURE GAUGE ADAPTER					●										Measurement of the oil pressure(use with 09452-21000,09452-21500,09452-32300)
51	09452-32100	OIL SEAL INSTALLER					●										Press fitting of the piston into the OD clutch drim.
52	09452-32300	OIL PRESSURE GAUGE ADAPTER					●										Measurement of the oil pressure.(use with 09452-21000,09452-21500,09452-21600)
53	09453-32100	PISTON SPRING COMPRESSOR SET					●										Removal of forward multiple disc clutch assembly.
54	09454-38000	SPRING COMPRESSOR					●										Removal and installation of the return spring sanp ring.
55	09454-38100	SPRING COMPRESSOR					●										1. Removal of 1st & reverse brake spring. 2. Removal of no.3 brake spring.
56	09454-38200	REVERSE BRAKE PISTON REM.					●										Removal of reverse brake piston.

# TERRACAN\_HP (2.5 & 2.9)


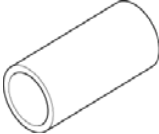
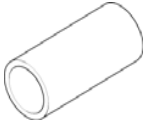


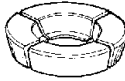
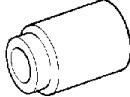

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
57	09454-38300	REACTION SLEEVE REMOVER					●									Removal of reaction sleeve
58	09455-21000	BEARING AND GEAR PULLER						●								Removal of the transfer drive gear and bearing
59	09455-21100	BEARING INSTALLER					●		●							1.Installation of the transfer drive gear and bearing 2.Installation of the transfer drive gear taper bearing
60	09455-21200	BEARING INSTALLER					●									1. Installation go the transfer shaft rear side bearing. 2. Installation of the transfer drive gear
61	09455-32200	OIL SEAL PULLER					●		●							1.Installation of the transfer drive gear and bearing 2.Installation of the transfer drive gear taper bearing
62	09455-38000	RETURN SPRING COMPRESSOR SET					●									Removal of the overdrive return spring Removal of the forward clutch spring Removal of the direct clutch spring
63	09455-H1000	BEARING INSTALLER					●									Installation of rear counter shaft bearing.
64	09457-22100	TRANSFER BEARING OUTER RACE INS.					●									Installation of the 1st speed gear 2nd speed gear and 1-2 synchronizer hub

# TERRACAN\_HP (2.5 & 2.9)

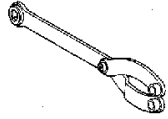
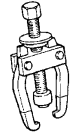



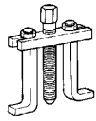

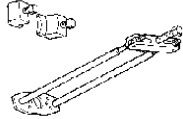
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				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
65	09493-43000	UNIVERSAL JOINT R & I						●								Removal and installation of the universal joint.
66	09493-43100	UNIVERSAL JOINT REMOVER ADAPTER						●								Removal and installation of journal bearing.(Use with 09452-43000)
67	09495-33000	BEARING & GEAR PULLER													●	Removal of wheel bearing inner race from a hub
68	09495-33100	DRIVE SHAFT CENTER BEARING R & I							●							*Removal an dinstallation of he center bearing *Installation of the inner dust seal(use with 09216-21100)
69	09500-11000	BAR						●								Installation of the differential outlace bearing(use with 09532-11500)
70	09500-21000	HANDLE						●								Removal of the wheel bearing inner race from rear housing. (use with 09527-33000, 09216-22100)
71	09500-43131	PINION HEIGHT GAUGE SET						●								Measurement of the drive pinion geight
72	09500-4A000	PINION HEIGHT GUAGE SET						●								Measurement of the drive pinion geight



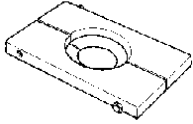
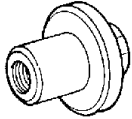

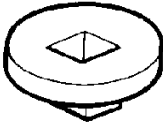


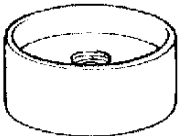

# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
73	09500-4A100	PINION HEIGHT GAUGE SET						●								Measurement of the drive pinion geight
74	09500-H1000	PINION HEIGHT GAUGE						●								Measurement of front differential pinion height.(6th) (Use with 09500-43131)
75	09500-H1100	PINION HEIGHT GAUGE						●								Measurement of front differential pinion height.(Use with 09500-4A000)
76	09517-11000	FRONT HUB BEARING OUTER RACE INSTALLER						●								Installation of the front hub bearing.(Use with 09500-11000)
77	09517-21000	OIL SEAL INSTALLER						●								Press fit for the front wheel bearing oil sea & outer race. (use with 09500-21000)
78	09517-21100	HUB BEARING REMOVER						●								Removal of the front wheel bearing.(Use with 09532-11000 and 09532-11301)
79	09517-21200	FRONT AXLE BASE							●							Installation of the rear axle shaft bearing retainer.
80	09517-21400	DRIFT						●								1. Removal of the pinion gear bearing. 2. Removal of the pinion bearing outer race.

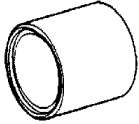


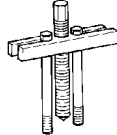
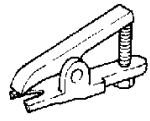
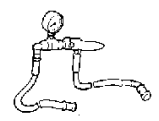
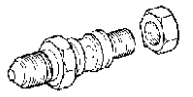
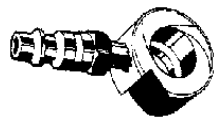
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
81	09517-21700	END YOKE HOLDER						●								Removal or installation of the crankshaft pulley bolt(used with 09517-21700)
82	09517-43001	BEARING PULLER						●	●							Removal of center bearing bracket
83	09517-43401	WORKING BASE						●								Support for the differential carrier
84	09518-4A000	LOCK NUT WRENCH						●								Removal and installation of front hub lock nut.
85	09521-43001	SIDE BEARING ADJUST SPANNER						●								Adjustment of the side bearing nut
86	09526-11001	AXLE SHAFT PULLER						●								Removal of oil pump.
87	09526-11100	SLIDING HAMMER						●								Removal of the oil seal
88	09526-43200	AXLE SHAFT BEARING CASE REMOVER						●								Removla of the rear axle shaft bearing case.

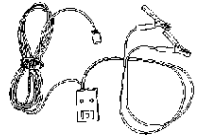

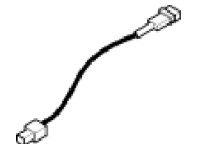
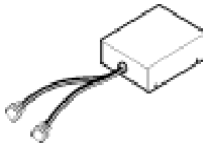
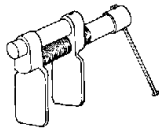
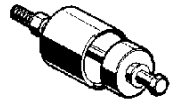


# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
89	09527-4A000	REMOVING PLATE						●									1. Removal of the pinion gear bearing. 2. Removal of the pinion bearing outer race.
90	09529-21000	WHEEL ALIGNMENT GAUGE ATTACHMENT							●								Removal & installation of trailing arm bushing
91	09532-11500	PINION BEARING OUTER RACE INSTALLER						●									Installation of the differential outface bearing(use with 09500-11000)
92	09532-11600	PRELOAD SOCKET						●	●								Measurement of the front lower arm ball joint saring torque(use with torque wrench)
93	09532-31200	OIL SEAL INSTALLER						●									1. Installation of the drive pinion outer race. 2. Installation of the front hub outer bearing outer race. (use with 09500-21000)
94	09532-32000	BEARING INSTALLER						●									1. REmoval of the front wheel bearing outer race. (use with 09216-22100) 2. Installation of the differential drive pinion front bearing outer race. (use with 09500-21000)
95	09542-4A000	OIL SEAL INSTALLER						●									Installation of knuckle oil seal.(4WD)
96	09545-21100	BALL JOINT DUST COVER INS.						●									Press-fitting of the front hub to the knuckle



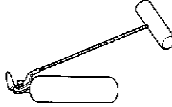

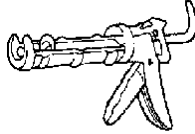
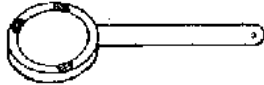
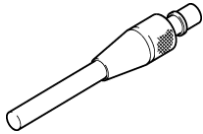

# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
97	09545-24100	LOWER ARM BUSHING R & I BASE								●							Removal and installation of the front lower arm bushing.(Use with 09545-24000)
98	09545-25000	LOWER ARM BUSHING R & I								●							Removal and installation of the lower arm busing.
99	09545-3A000	LOWER ARM BUSHING REMOVER								●							Removal of lower arm bushing.
100	09561-11002	STEERING WHEEL PULLER														●	Removing the steering wheel
101	09568-34000	BALL JOINT PULLER							●	●	●						Seperation of tie-rod end ball joint
102	09572-21000	P/S OIL PRESSURE GAUGE														●	1. Measurement of the oil pressure.(Use with 09572-21000,09572-21200) 2. Measurement of the oil pressure.(Use with 09572-21200,09572-22000,09572-33100)
103	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER														●	Measuring the power steering oil pressure(use with 09572-21000, 09572-22100)
104	09572-33100	OIL PRESSURE GAUGE ADAPTER														●	Measurement of the oil pressure(Included in 09572-21000,09572-21200)


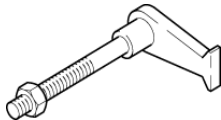

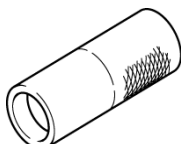
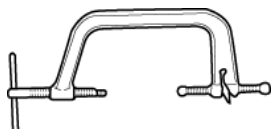
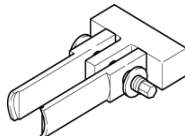
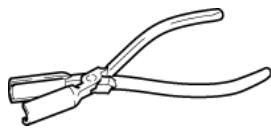
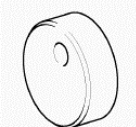
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE			
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA				
105	0957A-34100A	AIR BAG DEPLOYMENT TOOL																Airbag deployment tool
106	0957A-38000	DIAGNOSIS CHECKER																Wiring harness checker for each module
107	0957A-38100	DEPLOYMENT ADAPTER																To connect deployment tool(0957A-34100A)and airbag module(PAB)
108	0957A-38200	DUMMY																Simulator to check the resistance of each wiring harness
109	09581-11000	PISTON EXPENDER																Pushing back of the front disc and rear disc brake piston
110	09624-34000	TRAILING ARM BUSHING R & I																Removal and installation of the lower arm bush
111	09793-21000	DOOR HINGE ADJUSTING WRENCH																Adjustment, removal and installation of the door hinge
112	09800-21000	ORNAMENT REMOVER																Trim removal

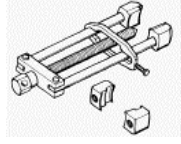
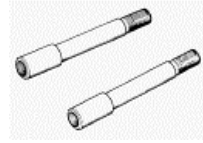



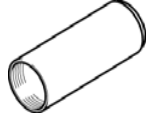
# TERRACAN\_HP (2.5 & 2.9)

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
113	09853-31000	HEAD LINING CLIP REMOVER														●	Removal of the headliner clops
114	09861-31000	WINDSHILD GLASS HOLDING REMOVER														●	Removal of the windshield molding
115	09861-31100	SEALANT CUT-OUT TOOL														●	Cutting the selalant of the windshield(Use with 09861-31200)
116	09861-31200	SEALANT CUTTING BLADE														●	Cutting the selalant of the windshield(Use with 09861-31100)
117	09861-31300	SEALANT GUN														●	Application of the sealant to the windshield
118	09977-29000	DISC & HUB BOLT REMOVER														●	Removal and installation of disc&hub assembly
119	0K130 160 010	CLUTCH DISC CENTERING TOOL		●													Used to install clutch disc to the center of flywheel
120	0K130 990 007	ENGINE STAND ASS'Y		●													Used to disassemble transaxle

# TERRACAN\_HP (2.5 & 2.9)


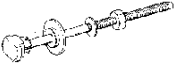
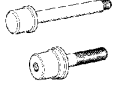

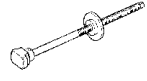
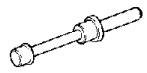


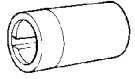
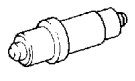

No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE	
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA		
121	0K552 111 001	CAM SHAFT PULLEY HOLDER		●												Holder of camshaft pulley
122	0K590 111 001	RING GEAR BRAKE		●												Protecting engine from rotating
123	0K670 140 015	OIL PRESSURE GAUGE		●												Measurement of oil pressure(Use with 09572-22100,09572-21200)
124	0K710 120 004	VALVE SEAL PUSHER		●												Installing valve seal
125	0K993 120 001	VALVE SPRING LIFTER ARM		●												Removal or installation of the valve spring
126	0K993 120 004	VALVE SPRING LIFTER PIVOT		●												Removal or installation of the valve spring
127	0K993 120 006	VALVE SEAL REMOVER		●												Removing valve seal
128	HSG1021	CAMSHAFT OIL SEAL INS.		●												Installation of the bearing outer race.

# TERRACAN\_HP (2.5 & 2.9)



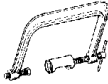







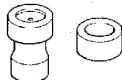
No.	Part Number	TOOL NAME	IMAGE	APPLICATION											USAGE		
				EM	EE	CH	TR	DS	SS	ST	RT	BR	BD	HA			
129	HSG2001	MAIN SHAFT BEARING PULLER		●													1. Removal of bearing. 2. Removal of synchrozer hub
130	HSG2002	BEARING PULLER ADAPTER		●													Measurement of fuel pressure.
131	HSG2006	LOCK PIN INSTALLER		●													Installation of the front oil seal.
132	HSG2008	LOCK NUT WRENCH		●													Removal of the mainshaft lock nut.
133	HSG2009	INSTALLER CAP		●													installation of bearing.
134	HSG2010	INSTALLER - 200		●													Installation of bearing sleeve in over drive gear. (use with HSG2009)




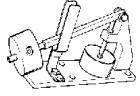


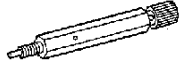
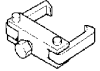





# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE	
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT							
1	09212-32000	COUNTER BALANCE SHAFT BEARING PULLER (Fr.)			●											EMA : Removal of front bearing of counter balance shaft
2	09212-32100	COUNTER BALANCE SHAFT BEARING PULLER (Rr.)			●											EMA : Removal of rear bearing of counter balance shaft(use with 09212-32300)
3	09212-32200	COUNTER BALANCE SHAFT BEARING INSTALLER			●											EMA : Installation of counter balance shaft bearing front and rear(use with 09212-32300)
4	09212-32300	GUIDE PLATE			●											EMA : Removal and installation of counter balance shaft rear bearing (use with 09212-32100, 09212-32200).
5	09212-43100	SILENT SHAFT BEARING PULLER		●												Removal of silent shaft rear bearing
6	09212-43200	SILENT SHAFT BEARING INSTALLER		●												Installation of silent shaft rear bearing
7	09212-43300	BEARING INSTALLER STOPPER		●												Removal of Right silent shaft rear bearing
8	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.		●	●											EM : Installation of crankshaft front oil seal EMA : Installation of the crankshaft front oil seal
9	09214-32100	CRANKSHAFT FRONT OIL SEAL GUIDE		●	●											EM : Guide for installation of crank shaft front oil seal EMA : Installation of the crankshaft front oil seal
10	09214-43000	CONNECTING ROD BUSHING REPLACEMENT		●												Replacement of connecting - rod small - end bushing
11	09221-21000	CAM SHAFT OIL SEAL INS.		●	●											EM : Installation of the camshaft oil seal EMA : Installation of the camshaft oil seal(use with 09221-21100).


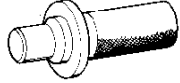
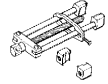


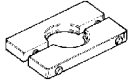
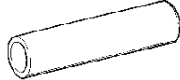


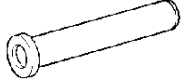

# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE	
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT							
12	09221-21100	CAM SHAFT OIL SEAL GUIDE			●											EMA : Using as a guide when pressing in the camshaft oil seal (use with 09221-21000).
13	09221-32001	CYLINDER HEAD BOLT WRENCH		●	●											EMA : Removal and tightening of the cylinder head bolt.
14	09222-21001	VALVE SPRING COMPRESSOR		●	●											EMA : 1. Removal and installation of the intake or exhaust valve 2. Compression of spring when kickdown servo piston is removed or installed (use with 09456-21100)
15	09222-21300	JET VALVE SOCKET WRENCH			●											EMA : Removal and installation of jet valve
16	09222-21500	JET VALVE STEM SEAL INS.			●											EMA : Installation of the jet valve stem oil seal
17	09222-32100	VALVE STEM SEAL INSTALLER		●	●											EM : Installation of valve stem seal EMA : Installation of the valve stem oil seal
18	09222-32200	VALVE GUIDE INSTALLER		●	●											EM : Removal and installation of valve guide EMA : Removal and installation of the valve guide
19	09222-43200	SILENT SHAFT DRIVE GEAR...		●												Installation of silent shaft drive oil seal
20	09231-32000	CRANKSHAFT REAR OIL SEAL INSTALLER		●	●											EM : Installation of crankshaft rear oil seal EMA : Installation of the crankshaft rear oil seal
21	09246-32000	AUTO LASH ADJUSTER HOLDER			●											EMA : Retaining of auto lash adjuster
22	09246-32100	AUTO LASH ADJUSTER RETAINER			●											Air bleeding of auto lash adjuster(use with 09246-32201)




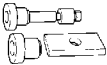





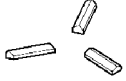

# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE	
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT							
23	09246-32201	AIR BLEED WIRE			●											EMA : Air bleeding of auto lash adjuster(use with 09246-32100)
24	09246-32300	LEAK DOWN TESTER			●											EMA : Test for leak down of auto lash adjuster
25	09251-11000	WATER PUMP IMPELLER PULLER			●											EMA : Removal of water pump impeller
26	09260-32000	OIL PRESSURE SWITCH WRENCH		●	●											EM : Removal and installation of oil pressure switch EMA : Removal and installation of the oil pressure switch
27	09310-43000	PRESTROKE MEASURING ADAPTER				●										FLB : Injection timing adjustment
28	09314-43000	INJECTION PUMP SPROCKET PULLER		●		●										EM : Removal of injection pump sprocket FLB : Removal of injection pump sprocket
29	09353-24100	FUEL PRESSURE GAUGE					●									FL : Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
30	09353-38000	FUEL PRESSURE GAUGE ADAPTER					●									FL : Connection of fuel pressure gauge to delivery pipe for measurement of fuel pressure
31	09411-32000	CLUTCH DISC GUIDE			●											EMA : Centering flywheel and clutch disc
32	09411-43000	CLUTCH ALIGNMENT ARBOR						●								CH : Centering the clutch disc when installing
33	09414-11000	LOCK PIN EXTRACTOR							●							TR : Driving out the spring pin of the shift fork



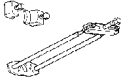
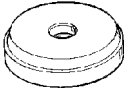
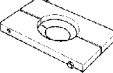
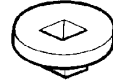





# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE	
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT							
34	09414-11100	LOCK PIN INSTALLER							●							TR : Driving in the spring pin of the shift fork
35	09431-32000	FRONT OIL SEAL INSTALLER							●							TR : Installation of the input shaft front oil seal and rear oil seal
36	09432-11000	MAINSHAFT BEARING PULLER							●							TR : Removal of the main drive gear bearing.(Use with 09432-11100)
37	09432-11100	MAINSHAFT BEARING PULLER, ADAPTER							●							TR : Removal of the main drive gear bearing.(Use with 09432-11000)
38	09432-22100	BEARING INSTALLER								●						DS : Installation of the input/output shaft bearing outer race(Use with 09500-11000)
39	09432-24000	SECOND GEAR PULLEY PLATE							●							TR : Removal of the 1st speed gear, 2nd speed gear and 1-2 synchronizer hub
40	09432-33300	BEARING INSTALLER							●							TR : Installation of the countershaft bearing
41	09432-33400	BEARING RACE INSTALLER								●						DS : * Press-fitting of the axle shaft bearing outer race(Use with 09500-21000) * Removal and press-fitting of the drive pinion bearing outer race(Use with 09500-21000) * Press-fitting of the oil seal(Use with 09500-21000)
42	09455-33200	BEARING INSTALLER							●							TR : Installation of the 3-4 synchronizer hub
43	09457-22100	TRANSFER BEARING OUTER RACE INS.							●							TR : Installation of the 1st speed gear, 2nd speed gear and 1-2 synchronizer hub
44	09493-43000	UNIVERSAL JOINT R & I								●						DS : Removal and installation of the journal bearing(Use with 09432-43100)






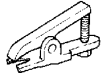





# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT						
45	09493-43100	UNIVERSAL JOINT REMOVER ADAPTER								●					DS : Removal and installation of the journal bearing(Use with 09432-43000)
46	09500-11000	BAR								●					DS : Removal and installation of the oil seal and bearing
47	09500-21000	HANDLE								●					DS : Removal and installation of the oil seal and bearing
48	09500-43131	PINION HEIGHT GAUGE SET								●					DS : measurement of the drive pinion height
49	09517-11000	FRONT HUB BEARING OUTER RACE INSTALLER								●					DS : Installation of the front hub bearing outer race
50	09517-21400	DRIFT								●					DS : Removal of the front hub bearing outer race and rear hub bearing outer race
51	09517-21700	END YOKE HOLDER								●					DS : removal and installation of the companion flange
52	09517-43001	BEARING PULLER								●					DS : Removal of the side bearing
53	09517-43401	WORKING BASE								●					DS : Support for the differential carrier
54	09517-43500	WORKING BASE ADAPTER								●					DS : Support for the differential carrier
55	09521-43001	SIDE BEARING ADJUST SPANNER								●					DS : Removal and adjustment of the side bearing nut







# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT						
56	09526-11100	SLIDING HAMMER								●					DS : Removal of the oil seal
57	09526-43001	LOCK NUT SPECIAL SPANNER								●					DS : Removal and installation of the lock nut
58	09526-43200	AXLE SHAFT BEARING CASE REMOVER								●					DS : Removal of the axle shaft bearing case
59	09527-21100	BEARING INSTALLER									●				SS : Removal of lower arm bushing
60	09527-4A000	REMOVING PLATE								●					DS : Removal of the drive pinion rear bearing inner race
61	09532-11600	PRELOAD SOCKET								●	●	●			DS : measurement of the drive pinion starting torque(Use with torque wrench) SS : Measurement of the upper and lower ball joint starting torque ST : Measurement of the pinion shaft preload measurement of the ball joint starting torque
62	09532-32000	BEARING INSTALLER								●					DS : Installation of the oil seal and bearing
63	09535-11000	DIFFERENTIAL BEARING INS.								●					DS : Installation of the differential case side bearing
64	09541-43001	LOWER ARM BUSHING REMOVER									●				SS : Removal and Installation of the lower arm bushing
65	09544-43000	KNUCKLE ARM PULLER								●	●				DS : Disassembly of upper/lower ball joint and knuckle SS : Removal of upper ball joint and lower ball joint knuckle
66	09551-43001	BUSHING R & I SUPPORT									●				SS : Removal and installation the lower arm bushing

# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT						
67	09552-33000	BUSHING R & I								●					DS : Installation of the oil seal
68	09561-11002	STEERING WHEEL PULLER										●			ST : Disconnection of th steering wheel
69	09564-43000	LOCK NUT WRENCH										●			ST : Removal and installation of bevel gear rear cover locknut
70	09565-11100	PRELOAD SOCKET										●			ST : Measurement of the pinion shaft preload measurement of the ball joint starting torque
71	09565-43200	SIDE COVER PLUG SPECIAL SPANNER										●			ST : Bevel gear torque adjustment
72	09568-34000	BALL JOINT PULLER								●	●	●			DS : Disconnection of the tie rod SS : Removal of the tie rod ball joint to knuckle
73	09793-21000	DOOR HINGE ADJUSTING WRENCH											●		BD : Adjustment, removal, and installation of the door hinge
74	09800-21000	ORNAMENT REMOVER											●		BD : Trim removal
75	09853-31000	HEAD LINING CLIP REMOVER											●		BD : Removal of the headliner clip
76	09861-31000	WINDSHILD GLASS HOLDING REMOVER											●		BD : Removal of the windshield moulding
77	09861-31100	SEALANT CUT-OUT TOOL											●		BD : Cutting the sealant of the windshield(use with 09861-31200)

# H100 (TRUCK)

No.	Tool No.	Tool Name	Image	EM		FL		CH	TR	DS	SS	ST	BD	HA	USAGE
				DIESEL	GASOLINE	FLB (DIESEL)	FL		MT						
78	09861-31200	SEALANT CUTTING BLADE											●		BD : Cutting the sealant of the windshield(use with 09861-31100)
79	09861-31300	SEALANT GUN											●		BD : Application of the sealant to the windshield
80	09861-31400	GLASS HOLDER											●		BD : Removal and installation of the windshield
81	09977-33700	SHAFT SEAL REMOVER & INSTALLER												●	HA : Removal and installation of shaft seal
82	09977-33800	SNAP RING REMOVER												●	HA : Removal of snap ring
83	09977-34000	PRESSURE PLATE NUT REMOVER												●	HA : Removal of pressure plate