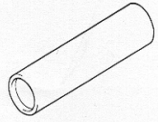
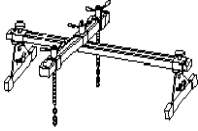
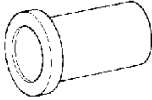
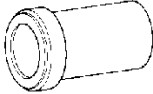
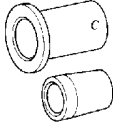

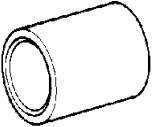
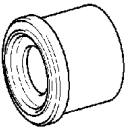
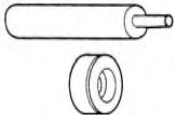
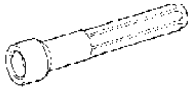
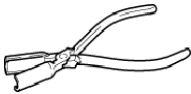
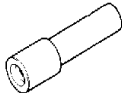

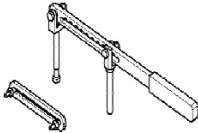
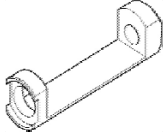
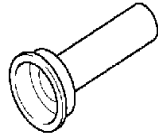

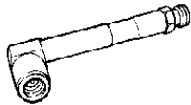


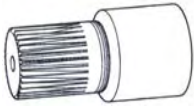
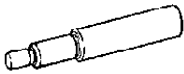
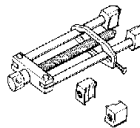
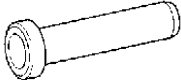


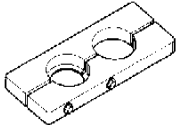
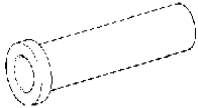
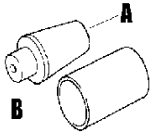
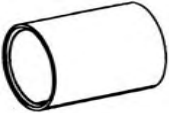
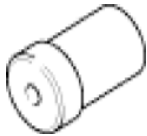

# 05' MAGENTIS (OPTIMA)

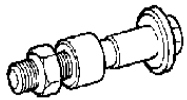
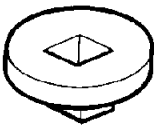

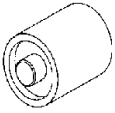
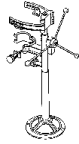

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
No.	Tool No.	Tool name	Illustration	GRADE	GSL 2.0/ 2.4	GSL 2.7	GSL 2.0/ 2.4	GSL 2.7	GSL 2.0/ 2.4	GSL 2.7												
1	09222-4A000	VALVE STEM SEAL INSTALLER		A	○																	Installation of the valve stem oil seal
2	09200-38001	ENGINE SUPPORT FIXTURE		D							○	○	○									Removal and installation of the transaxle
3	09214-21000	CRANKSHAFT FRONT OIL SEAL GUIDE		A	○																	Installation of the canshaft oil seal
4	09214-32000	CRANKSHAFT FRONT OIL SEAL INS.		A											○							Removal & Installation of lower arm bushing(use with 09216-21100)
5	09214-33000	CRANKSHAFT FRONT OIL SEAL INSTALLER		A	○																	Installation of the front oil seal
6	09215-3C000	OIL PAN REMOVER		A	○																	Removal of oil pan


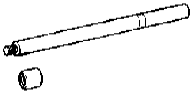
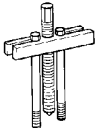
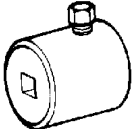
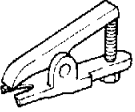
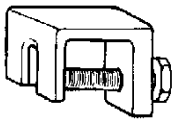
05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
7	09216-21100	MOUNT BUSHING R & I BASE		B											o	o						*Removal of the center bearing *Press-fitting of the front wheel bearing outer race(use with 09495-33100,09216-21600)
8	09216-21600	MOUNT BUSHING R & I ARBOR		B											o	o						Removal of the wheel bearing outer race
9	09221-3F100	VALVE GUIDE REMOVER & INSTALLER		C		o																Removal and installation of the valve guide
10	09222-22001	VALVE STEM OIL SEAL INS.		A		o																Installation of the valve stem seal
11	09222-29000	VALVE STEM OIL SEAL REMOVER		B		o																Removal of the valve stem seal
12	09222-32100	VALVE STEM SEAL INSTALLER		A												o						Installation of the oil pump oil seal

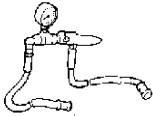
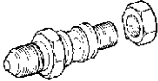
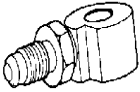

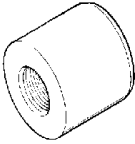
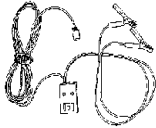
05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
13	09222-3C300	VALVE SPRING COMPRESSOR ADAPTER		A	o																	
14	09222-3K000	VALVE SPRING COMPRESSOR		A	o	o																Removal and installation of the intake or exhaust valve A:09222-3K000 B:09222-3K100(HOLDER)
15	09222-3K100	VALVE SPRING COMPRESSOR ADAPTER (Θ-ENG)		A	o																	
16	09231-33000	CRANK SHAFT REAR OIL SEAL INS.		A	o																	Installation of the crankshaft rear oil seal
17	09351-4A300	INJECTOER REMOVER																				Removal of Injector
18	09353-24000	FUEL PRESSURE GAUGE ADAPTER		A				o	o													Connecting between Fuel Pressure Gauge(09353-24100)and Fuel Pressure Gauge Adapter(09353-38000

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE
19	09353-24100	FUEL PRESSURE GAUGE		A				o	o												Measuring the fuel line pressure
20	09353-38000	FUEL PRESSURE GAUGE ADAPTER		A				o	o												Connecting between the delivery pipe and fuel feed line
21	09373-27000	ALTERNATOR PULLEY R&I		B		o	o														Removal and installation of alternator pulley
22	09411-11000	CLUTCH DISC GUIDE		B						o											Installation of the clutch disc
23	09432-11000	MAINSHAFT BEARING PULLER		B										o							Removal of the tone wheel
24	09432-21601	BEARING INSTALLER		C												o					Installing the pinion gear bearing

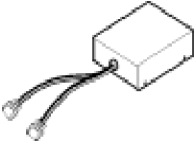

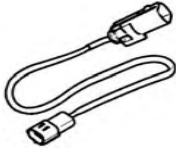
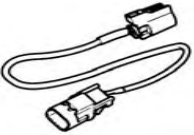
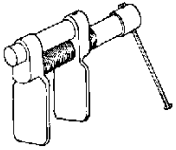

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
25	09432-33200	REMOVE PLATE																				Removal of the drive shaft bearing
26	09434-14200	COUNTER SHAFT BEARING INS.																				Installing the gear box oil seal
27	09453-33000B	SNAP RING INSTALLER																				Removal and installation of the rear axle carrier bushing(use with 09552-38200)
28	09478-26000	OIL SEAL INSTALLER																				Installation of the flange oil seal
29	09495-33100	DRIVE SHAFT CENTER BEARING R & I																				
30	09495-39100	BAND INSTALLER TOOL																				Installation of hook type boot band

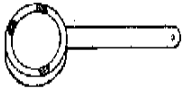

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
31	09517-21500	FRONT HUB REMOVER & INSTALLER		A											o							Measurement of wheel bearing preload
32	09532-11600	PRELOAD SOCKET		C											o	o						Measurement of the wheel bearing preload(use with torque wrench)
33	09545-21100	BALL JOINT DUST COVER INS.		C											o							Press-fitting of the front hub to the knuckle
34	09545-34100	LOWER ARM BUSHING R & I ARBOR		B											o							Removal of the bearing inner race from the front hub
35	09546-26000	COIL COMPRESSOR		D												o						Compression of the coil spring
36	09552-38100	TRAILER ARM BUSHING R & I		B												o						Removal and installation of the rear trailing arm bushing(use with 09216-21600)

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
37	09552-38200	CENTER ARM BUSHING R & L		B											o							Removal and installation of the rear axle carrier bushing(use with 09453-33000B)
38	09555-21000	BAR		C												o						Removal and installation of the oil seal (use with 09573-33100,09573-33000,09573-21000)
39	09561-11001	STEERING WHEEL PULLER		D												o						Removal of steering wheel
40	09565-11100	PRELOAD SOCKET		B												o						Measuring the pinion shaft preload
41	09568-34000	BALL JOINT PULLER		B												o						Separation of the tie rod end ball joint
42	09568-4A000	BALL JOINT PULLER		A										o	o							Removal of the front lower arm and tie rod end ball joint

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
43	09572-21000	P/S OIL PRESSURE GAUGE		A																		Measurement of the oil pressure(use with 09572-22100,09572-21200)
44	09572-21200	P/S OIL PRESSURE GAUGE ADAPTER		A																		Measurement of the oil pressure(use with 09572-21000,09572-22100)
45	09572-22100	OIL PRESSURE GAUGE ADAPTER		A																		Measurement of the oil pressure(use with 09572-21000,09572-21200)
46	09573-21100	OIL SEAL INSTALLER		C																		Installation of the back up washer and oil seal(use with 09753-21000,09573-33100,09555-21000)
47	09573-33100	OIL SEAL GUIDE		C																		Removal and installation of the oil seal (use with 09573-21000,09573-33000,09555-21000)
48	0957A-34100A	AIR BAG DEPLOYMENT TOOL		B																		Airbag deployment tool



05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE	
49	0957A-38200	DUMMY		B																		Simulator to check the resistance of each wiring harness
50	0957A-38500	DEPLOYMENT ADAPTER		B																		Use with deployment tool(DAB,CAB,BPT)
51	0957A-3F000	DUMMY ADAPTER(SAB)		B																		Use with dummy(PAB,SAB)
52	0957A-3F100	DEPLOYMENT ADAPTER(SAB)		B																		Use with deployment tool(PAB,SAB)
53	09581-11000	PISTON EXPENDER		D																		Pushing back of the front disc and rear disc brake piston
54	09840-1E100	CENTER FASCIA REMOVER																				Removal of Center Fascia

05' MAGENTIS (OPTIMA)				EM	EMA	EE	EEA	FL	FLA	CH	MT	AT	ATA	DS	SS	ST	RT	BR	BD	HA	USE		
55	09977-29000	DISC & HUB BOLT REMOVER																				○	Removal and installation of disc & hub assembly
56	OK000 003 AAO	WIRE HARNESS REPAIR KIT II																					Repair Wire Harness