Service Codes FUEL SYSTEM Mode SEFI EFI SEFI SEFI III—System pass 112—ACT sensor circuit grounded or reads 254°F 112—ACT sensor circuit grounded 113—ACT sensor circuit open or reads —40°F 116—ECT outside test limits during KOEO or KCER tests 0/R 116—ECT outside test limits during KOEO or KCER tests 0/R 118—ECT sensor circuit above maximum voltage or reads —40°F 118—ECT sensor circuit dabove maximum voltage 119—Colsed thortile voltage higher or lower than expected 0/C 121—Closed thortile voltage higher or lower than expected 0/R/C 122—TP sensor circuit below minimum voltage 0/C 123—TP sensor voltage lower than expected in range 0/C 124—TP sensor voltage lower than expected in range 0/C 125—TP sensor voltage lower than expected in range 0/C 125—TP sensor voltage lower than expected in range 0/C 128—BP or MAP sensor higher or lower than expected Orange 0/C 129—Insufficient MAF change during Dynamic Response test 136—HEGO shows system always rich (front) 137—HEGO shows system always rich (front) 137—HEGO shows system always rich (front) 139—No HEGO switching (front) 144—No HEGO switching (front) 144—No HEGO switching (right) 144—No HEGO switching (right) 144—No HEGO switching seen: indicates lear (front) 159—MAF sensor circuit above maximum voltage 0/C 159—MAF sensor circuit above maximum voltage 0/C 159—MAF sensor circuit above maximum voltage 0/C 171—No HEGO switching seen: indicates lear (fight) 172—No HEGO switching seen: indicates lear (fight) 173—HEGO shows system always ich (front) 174—HEGO switching seen: indicates lear (fight) 175—No HEGO switching seen: indicates lear (fight) 176—HEGO switching seen: indicates lear (fight) 177—HEGO shows system always ich (fight) 177—HEGO sho		ENGINE (Liters)	Quick Test	2.5L AXODE	3.0L	3.0L AXODE	3.8L AXODE
112—ACT sensor circuit grounded or reads 254 °F O/C	Service Codes	FUEL SYSTEM			EFI		
112—ACT sensor circuit grounded 113—ACT sensor circuit grounded 113—ACT sensor circuit open 113—ACT sensor circuit open 114—ACT outside test limits during KOEO or KOER tests 114—ACT outside test limits during KOEO or KOER tests 116—ECT outside test limits during KOEO or KOER tests 117—ECT sensor circuit above maximum voltage or reads – 40°F 118—ECT sensor circuit above maximum voltage 118—ECT sensor circuit dabove maximum voltage or reads – 40°F 121—Closed throttle voltage higher or lower than expected 122—TP sensor circuit below minimum voltage 123—TP sensor outlage higher than expected in range 123—TP sensor voltage lower than expected in range 125—TP sensor voltage lower than expected in range 126—BP or MAP sensor higher or lower than expected in range 127—TP sensor voltage lower than expected in range 128—HEO shows system always lean (front) 137—HEO shows system always lean (front) 137—HEO shows system always lean (front) 137—HEO shows system always inch (left) 139—No HEEO switching (front) 139—No HEEO switching (front) 144—No HEO switching (ran) 144—No HEO switching (ran) 144—No HEO switching (ran) 144—No HEO switching (ran) 159—MAP injensor circuit above maximum voltage 167—Insufficient TP change during Dynamic Response test 167—Insufficient TP change during Dynamic Resp	111—System pass		O/R/C	"	~	~	<i>y</i>
112—ACT sensor circuit grounded 133—ACT sensor circuit open or reads — 40°F 133—ACT sensor circuit open or reads — 40°F 134—ACT outside test limits during KOEO or KOER tests 166—ECT outside test limits during KOEO or KOER tests 177—ECT sensor circuit grounded 177—ECT sensor circuit open maximum voltage or reads — 40°F 178—ECT sensor circuit open 179—CIP sensor circuit open 179—CIP sensor circuit open 179—CIP sensor circuit open 179—Sensor voltage higher than expected in range 179—Sensor voltage higher than expected in range 179—Sensor voltage higher than expected in range 179—Insufficient MAF change during Dynamic Response test 179—No HEGO switching (right) 179—No HEGO switching (right) 179—No HEGO switching (right) 179—No HEGO switching (right) 179—MAF sensor circuit above maximum voltage 179—MAF sensor circuit abov			0/C	i .	i	1	1
113—ACT sensor circuit open 113—ACT sensor circuit open or reads — 40°F 114—ACT outside test limits during KOEO or KOER tests 116—ECT outside test limits during KOEO or KOER tests 0/R 116—ECT outside test limits during KOEO or KOER tests 0/R 117—ECT sensor circuit above maximum voltage or reads — 40°F 0/C 118—ECT sensor circuit datove maximum voltage 0/C 121—Closed throttle voltage higher or lower than expected 0/R/C 122—TP sensor circuit below minimum voltage 0/C 123—TP sensor above maximum voltage 0/C 125—TP sensor voltage ligher than expected, in range 0/C 125—TP sensor voltage lower than expected in range 0/C 125—TP sensor voltage lower than expected in range 0/R/C 128—BP or MAP sensor higher or lower than expected 0/R/C 128—BP or MAP sensor higher or lower than expected in range 0/R/C 128—Insufficient MAF change during Dynamic Response test R 138—HEGO shows system always lean (front) R 139—No HEGO shows system always rich (front) R 139—No HEGO switching (front) R 139—No HEGO switching (fert) C 144—No HEGO switching (fert) C 144—No HEGO switching (fert) C 155—MAF sensor circuit above maximum voltage C 156—MAF sensor circuit above maximum voltage C 157—MAF sensor circuit above maximum voltage C 158—MAF sensor circuit above maximum voltage C 158—MAF sensor circuit above maximum voltage C 158—MAF sensor circuit above maximum voltage C 159—MAF higher or lower than expected during KOEO and KOER test 167—Insufficient TP change during Dynamic Response test R 171—Fuel system at adaptive limit, HEGO unable to switch R 172—No HEGO switching seen; indicates lean R/C 173—No HEGO switching seen; indicates lean R/C 173—No HEGO switching seen; indicates lean R/C 175—No HEGO switching seen; indicates rich (right) C 175—No HEGO switching seen; indicates rich (right) C 175—No HEGO switching seen; indicates rich (right) C 176—HEGO shows system always rich (front) C 177—HEGO shows system always rich (front) C 179—Fuel at lean adaptive limit at part throttle; system rich C 179—Fuel at lean adaptive limit at part throttle; syste							
113—ACT sensor circuit open or reads = 40°F 114—ACT outside test limits during KOEO or KOER tests 116—ECT outside test limits during KOEO or KOER tests 117—ECT sensor circuit grounded 117—ECT sensor circuit upon 118—ECT sensor circuit open 121—Closed throttle voltage higher or lower than expected 121—Closed throttle voltage higher or lower than expected 122—TP sensor circuit below minimum voltage 123—TP sensor above maximum voltage 124—TP sensor voltage higher than expected, in range 125—TP sensor above maximum voltage 125—TP sensor voltage lower than expected in range 125—BP or MAP sensor higher or lower than expected 129—Insufficient MAF change during Dynamic Response test 136—HEGO shows system always lean (front) 137—HEGO shows system always lean (front) 137—HEGO shows system always rich (left) 139—No HEGO witching (front) 139—No HEGO witching (right) 144—No HEGO witching (right) 157—MAF sensor circuit below maximum voltage 158—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 159—MAF higher or lower than expected during KOEO and KOER test 171—Fuel system at adaptive limit, HEGO unable to switch 172—No HEGO switching seen; indicates lean 171—Fuel system at adaptive limit, HEGO unable to switch 172—No HEGO switching seen; indicates rich 173—No HEGO switching seen; indicates rich 174—HEGO switching seen; indicates rich 175—No HEGO switching seen; indicates rich 176—HEGO shows system always rich (front) 176—No HEGO switching seen; indicates rich 177—HEGO shows system always rich (front) 176—HEGO shows system always rich (front) 177—HEGO shows system always rich (front) 178—Leu at lean adaptive limit at part throttle; system rich 179—Fuel at lean adaptive limit at part throttle; syste						1	
114—ACT outside test limits during KOEO or KOER tests 116—ECT outside test limits during KOEO or KOER tests 117—ECT sensor circuit grounded 118—ECT sensor circuit grounded 118—ECT sensor circuit above maximum voltage or reads — 40°F 112—Closed throttle voltage higher or lower than expected 0/RC 121—Closed throttle voltage higher or lower than expected 0/RC 122—TP sensor circuit below minimum voltage 0/C 123—TP sensor ovltage higher than expected, in range 124—TP sensor voltage higher than expected, in range 125—TP sensor voltage lower than expected in range 125—TP sensor voltage higher or lower than expected in range 125—BP or MAP sensor higher or lower than expected 129—Insufficient MAF change during Dynamic Response test 136—HEGO shows system always lean (front) 137—HEGO shows system always lean (front) 137—HEGO shows system always rich (front) 139—No HEGO switching (front) 139—No HEGO switching (front) 139—No HEGO switching (front) 144—No HEGO switching (rear) 144—No HEGO switching (rear) 144—No HEGO switching detected 157—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 171—Fuel system at adaptive limit, HEGO unable to switch (right) 171—Fuel system at adaptive limit, HEGO unable to switch (right) 172—No HEGO switching seen; indicates lean (right) 173—No HEGO switching seen; indicates lean 174—HEGO switching seen; indicates lean 175—No HEGO switching seen; indicates lean 176—HEGO switching seen; indicates lean 177—No HEGO switching seen; indicates lean 178—No HEGO switching seen; indicates lean 179—No HEGO switching seen; indicates lean 170—No HEGO switching seen; indicates lean 171—No HEGO switching seen; indicates lean 172—No HEGO switching seen; indicates lean 173—No HEGO switching seen; indicates lean 174—HEGO shows system always lean (left) 175—No HEGO switching seen; indicates lean 176—HEGO shows system always lean (left) 177—HEGO s				<u></u>	_		_
116=ECT outside test limits during KOEO or KOER tests 177=ECT sensor circuit grounded 178=ECT sensor circuit poen 188-ECT sensor circuit above maximum voltage or reads – 40°F 179=ECT sensor circuit below minimum voltage 120-Closed throttle voltage higher or lower than expected 179-Ensor above maximum voltage 179-Ensor above maximum voltage 179-ETP sensor voltage higher than expected, in range 179-ETP sensor voltage higher than expected, in range 179-ETP sensor voltage lower than expected in range 179-ETP sensor voltage sower maximum voltage in range i				1	_		3
117=ECT sensor circuit dove maximum voltage or reads - 40°F 118=ECT sensor circuit above maximum voltage or reads - 40°F 118=ECT sensor circuit below minimum voltage 121-Closed throttle voltage higher or lower than expected 122-TP sensor circuit below minimum voltage 122-TP sensor voltage higher than expected, in range 123-TP sensor voltage higher than expected, in range 125-TP sensor voltage lower than expected in range 126-TP sensor voltage injectifient MAF change during bynamic Response test 136-HEGO shows system always lean (front) 137-HEGO shows system always lean (left) 137-HEGO shows system always rich (left) 139-No HEGO switching (ront) 139-No HEGO switching (rear) 144-No HEGO switching (rear) 144-No HEGO switching (rear) 144-No HEGO switching detected 157-MAF sensor circuit above maximum voltage 158-MAF sensor circuit above maximum voltage 158-MAF sensor circuit above maximum voltage 158-MAF sensor circuit above maximum voltage 159-MAF higher or lower than expected during kNEO and KOER test 167-Insufficient TP change during Dynamic Response test 171-Fuel system at adaptive limit, HEGO unable to switch (right) 172-No HEGO switching seen; indicates lean 171-Fuel system at adaptive limit, HEGO unable to switch (right) 173-No HEGO switching, system at adaptive limit (rear) 174-No HEGO switching seen; indicates lean 175-No HEGO switching, system at adaptive limit (frear) 175-No HEGO switching, system at adaptive limit (front) 175-No HEGO switching, system at adaptive limit (front) 176-No HEGO switching seen; indicates lean 177-HEGO shows system always rich (rear) 178-No HEGO switching seen; indicates lean 179-No HEGO switching seen; indicates lean 171-Fuel System at adaptive limit (front) 175-No HEGO switching seen; indicates lean 177-HEGO shows system always rich (rear) 178-No HEGO switching seen; indicates lean 179-No HEGO switching see				"	✓	س ا	س
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121—Closed throttle voltage higher or lower than expected 122—TP sensor circuit below minimum voltage 123—TP sensor above maximum voltage 124—TP sensor voltage lower than expected, in range 125—TP sensor voltage higher than expected in range 125—TP sensor voltage higher than expected in range 126—BP or MAP sensor higher or lower than expected 129—insufficient MAF change during Dynamic Response test 136—HEGO shows system always lean (front) 137—HEGO shows system always lean (front) 137—HEGO shows system always rich (front) 137—HEGO shows system always rich (left) 139—No HEGO switching (front) 144—No HEGO switching (front) 144—No HEGO switching (front) 144—No HEGO switching (rear) 144—No HEGO switching detected 157—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 159—MAF higher or lower than expected during KOEO and KOER test 167—Insufficient TP change during Dynamic Response test 171—Fuel system at adaptive limit, HEGO unable to switch 171—Fuel system at adaptive limit, HEGO unable to switch 171—No HEGO switching seen; indicates lean 172—No HEGO switching seen; indicates lean 173—No HEGO switching seen; indicates lean 173—No HEGO switching seen; indicates lean (right) 173—No HEGO switching seen; indicates lean (right) 173—No HEGO switching seen; indicates rich 173—No HEGO switching seen; indicates rich 175—No HEGO switching; system at adaptive limit (front) 176—HEGO shows system always ich (front) 177—HEGO shows system always	118—ECT sensor circiut above maximum voltage or reads -40°F		0/C				
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125—TP sensor voltage lower than expected in range 126—BP or MAP sensor higher or lower than expected 129—insufficient MAF change during Dynamic Response test 136—HE60 shows system always lean (front) 137—HE60 shows system always rich (front) 137—HE60 shows system always rich (front) 137—HE60 switching (front) 139—NO HE60 switching (iront) 139—NO HE60 switching (iront) 144—NO HE60 switching (rear) 144—NO HE60 switching (rear) 144—NO HE60 switching (right) 157—MAF sensor circuit above maximum voltage 158—MAF sensor circuit above maximum voltage 159—MAF sensor circuit above maximum voltage 159—MAF sensor circuit above maximum voltage 167—Insufficient TP change during Dynamic Response test 171—Fuel system at adaptive limit, HE60 unable to switch 171—Fuel system at adaptive limit, HE60 unable to switch 171—Fuel system at adaptive limit, HE60 unable to switch 171—Fuel System at adaptive limit (rear) 172—NO HE60 switching seen; indicates lean (right) 173—NO HE60 switching seen; indicates lean (right) 173—NO HE60 switching seen; indicates lear (right) 173—NO HE60 switching seen; indicates lear (right) 173—NO HE60 switching seen; indicates lear (right) 175—NO HE60 switching seen; indicates limit (left) 176—HE60 shows system always lear (left) 177—HE60 shows system always lear (left) 177—HE60 shows system always lear (left) 177—HE60 shows system always rich (left) 179—Eyel at lear adaptive limit at part throttle; system rich (rear) 179—System at lear adaptive limit at part throttle; system rich (rear)			0/C	<u></u>	✓		س
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