

Engine number - 1989 models

	B	20	2	2	L	0	1	M	J	000001
*Pos 1 Engine type	B = Petrol engine									
*Pos 2-3 Swept volume	20 = 2 dm ³ (2,0 l)									
*Pos 4 Cylinder head	1 = Single camshaft 2 = Twin camshafts									
Pos 5 Model	2 = Saab 900									
*Pos 6 Version	C = Single carburetor D = Fuel injection (B202) I = Fuel injection (B201) L = Turbo with intercooler									
Pos 7 Knock sensor code	0 = Without knock sensor 1 = With knock sensor 2 = With Saab DI system 3 = Engine variant to specific market specification									
Pos 8 Exhaust emission control spec.	0 = To no specific market specification 1 = To European specification 2 = To Swedish specification 3 = To USA specification 5 = To ME specification									
*Pos 9 Gearbox type	M = Manual gearbox A = Automatic transmission									
Pos 10 Model year	K = 1989									
Pos 11-16 Serial number										

*) These codes are used to distinguish the various engine versions.

Error Code	CHECK ENGINE	Malfunction indicated.	Preliminary action
12212	Off	Throttle position sensor: malfunction of idling contacts, shorting to earth when throttle open.	Check and adjust throttle position sensor. Check wiring between sensor and ECU for shorting to earth. Try a new sensor. Try a known good ECU.
12213	Off	Throttle-position sensor: malfunction of full-throttle contacts, shorting to earth on low engine load (idling).	Check and adjust throttle-position sensor. Check wiring between sensor and ECU for shorting to earth. Try a new sensor. Try a known good ECU.
12222	Off	AIC system faulty.	Check connections and wiring to AIC valve. Fit a new valve. Try a known good ECU.
12111	Off*	Lambda adaptation fault (fuel-air mixture with throttle open).	Check system for air or fuel leaks and Lambda sensor preheater function. Check that induction system working properly without leaks. Try a known good ECU.
12112	Off*	Lambda adaptation fault (fuel-mixture on idling).	Check system for air or fuel leaks and Lambda sensor preheater function. Check that induction system working properly without leaks. Try a known good ECU.
12113	Off	AIC adaptation fault, pulse ratio too low.	Inspect and adjust throttle butterfly and housing and check for leaks. Fit a new AIC valve. Try a known good ECU.
12114	Off	AIC adaptation fault, pulse ratio too high.	Check for sticking AIC valve. Check for other mechanical defects. Try a known good ECU.
00000	Off	No more error codes or not faults detected.	N.B. The memory cannot be deleted until this code has been displayed.

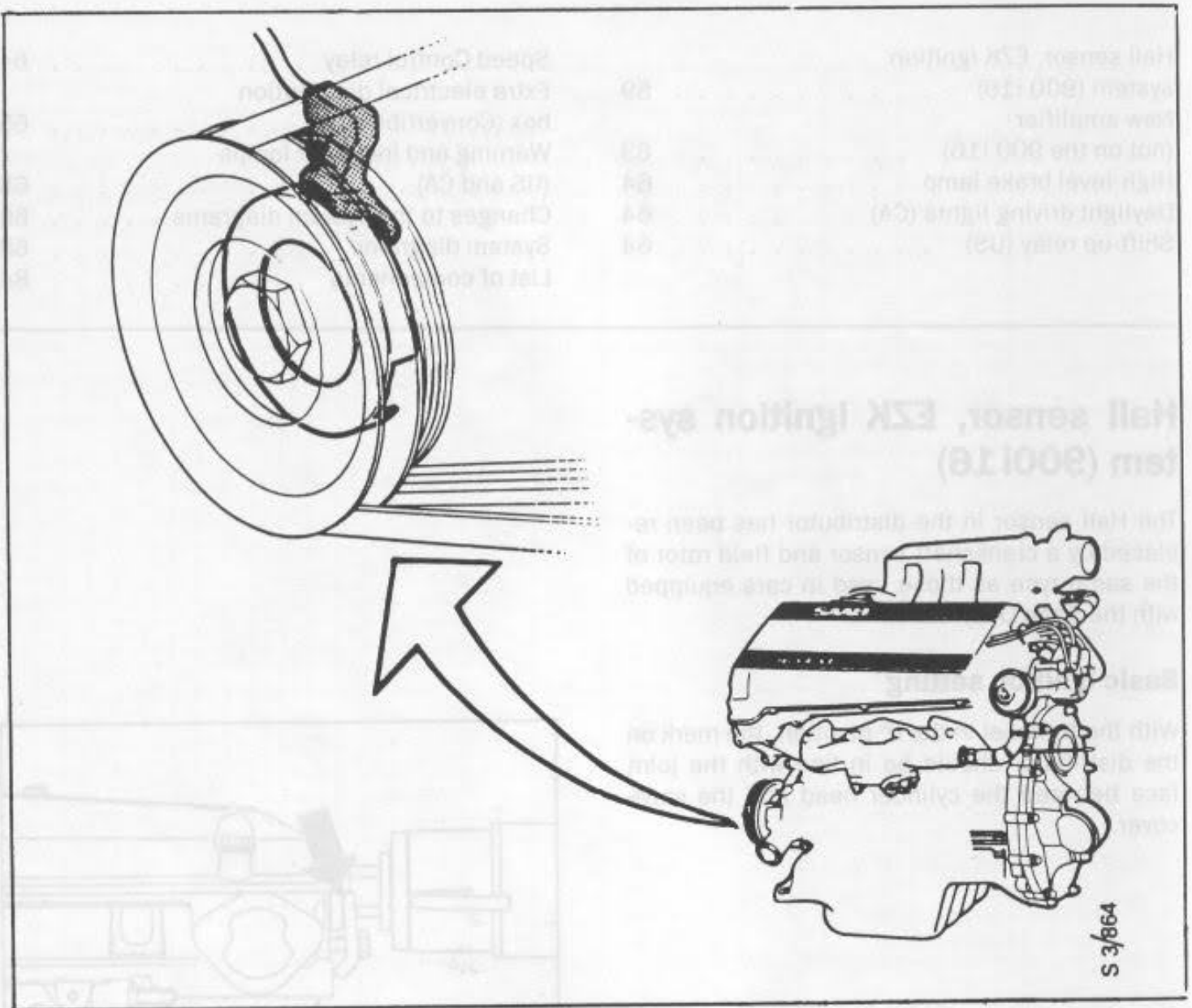
*) Depending on how serious the fault is.

When faults in the LH 2.4 system can be classed as 'adaptation faults', the car must be run for about ten minutes to prevent the same error codes recurring after the fault has been rectified. This is because the system always endeavours to compensate for any changes that can affect its performance in one way or another.

N.B.

The fuel pump will run for least ten seconds. No ID code will be initiated during this test.

Crankshaft sensor



Object code 34043

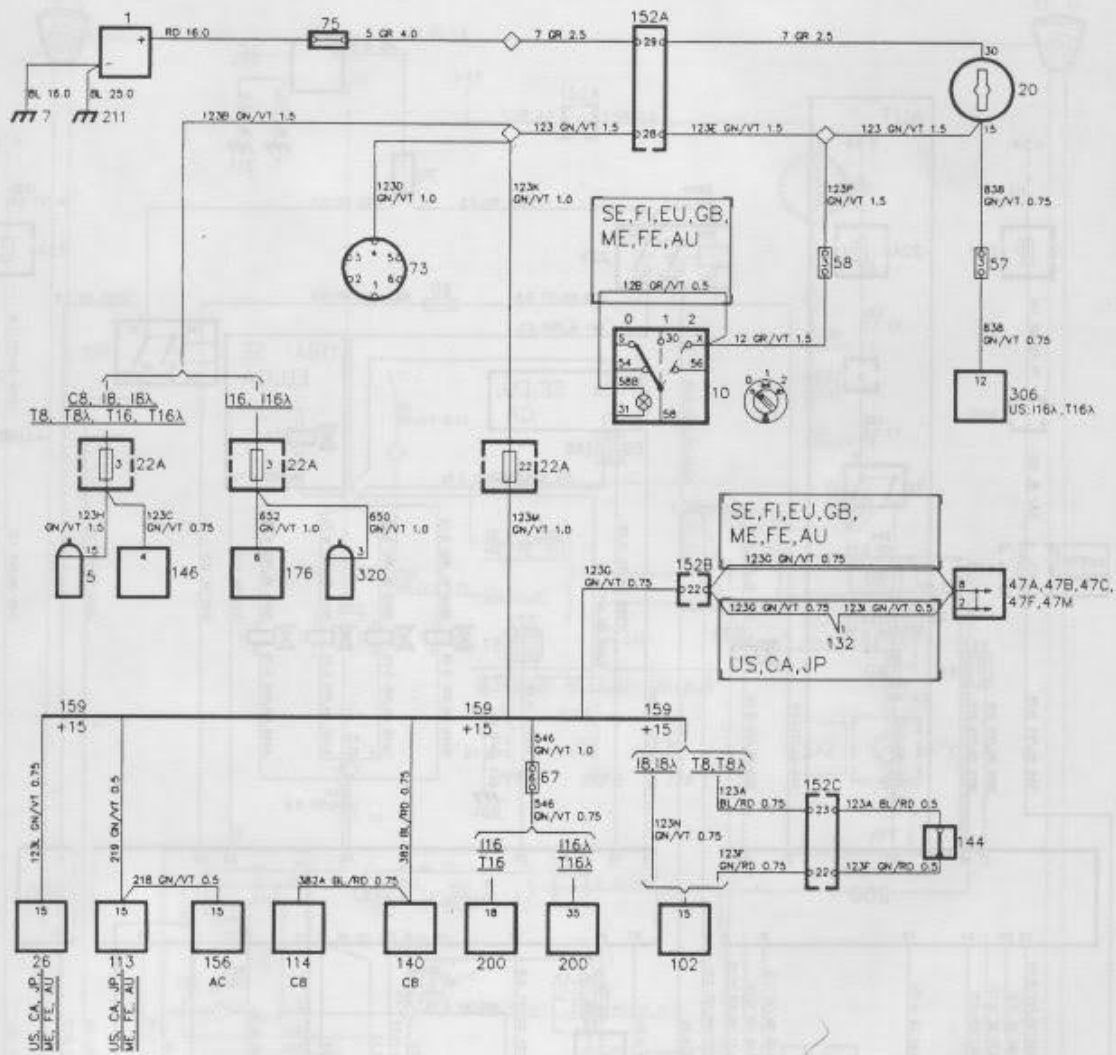
To remove

- 1 Remove the pulley. See the Service Manual, Group 2:1, section 216.
- 2 Remove the crankshaft sensor.
- 3 Release the wiring.

To fit

- 4 Fit a new crankshaft sensor.
- 5 Secure the wiring.
- 6 Fit the pulley. See the Service Manual, Group 2:1, section 216.

Distribution terminal +15



Manual gearbox

New manual gearboxes

All manual gearboxes will be upgraded. The ratios of the primary drive and the final drive will be modified.

The pinion bearing, the pinion bearing housing, the bearing in the intermediate drive and the gears for all speeds will be reinforced.

Year	Model	Gearbox No.	Tyres	Dyn. rolling radius	Primary gear	Intermediate gear	Final gear	Overall gear ratio					Reverse	Road speed (km/h) at 1000 r/min				
								1	2	3	4	5		1	2	3	4	5
1989	900i cat	GM 45612	185/65 R15T	301	31.26 0.84	14.34 2.43	9.35 3.89	14.85	8.64	5.66	4.09	3.26	16.34	7.6	13.1	20.1	27.8	34.8
	900ci, 116, S16	GM 45712	175/70 R15T	305	32.25 0.78	14.34 2.43	9.35 3.89	13.84	8.05	5.27	3.81	3.04	15.22	8.3	14.3	21.8	30.2	37.8
	T8, T16 cat		185/65 R15T	301	32.25 0.78	14.34 2.43	9.35 3.89	13.84	8.05	5.27	3.81	3.04	15.22	8.2	14.1	21.5	29.8	37.5
	900T8, T16 cat, T16S, T16	GM 65704	195/60 R15 HVR	299	32.25 0.78	14.34 2.43	9.35 3.89	13.84	8.05	5.27	3.81	3.04	15.22	8.1	14.0	21.4	29.6	37.1