

DATE 08-19-99

CAR F355F1
CUSTOMER Steve Jenkins
MIs 1428

SERIAL NO. 0115891
ASSEMBLY NO. 32921
ENGINE NO. 53201
GEARBOX NO.

REMARKS 1st and reverse engagement difficult when cold

BOSCH MOTRONIC 5.2 Injection system for F355

Part number: 174846

Parameters

Revolutions	1070	rpm
Injection time (Tj)- Left cyl.bank	3.1	ms
Injection time (Tj)- Right cyl.bank	3.1	ms
Load (TL)	1.6	ms
Ignition advance	0.0	°
Engine temperature	91.0	°C
Air flow rate	46.5	kg/h
Intake air temperature	51.0	°C
Absolute throttle angle	2.1	%
Relative throttle angle	0.0	%
Offset throttle angle	2.1	%
Supplementary fan relay status		ON
Second.air valve and air pump rel.status		OFF
Exhaust by-pass valve status		OFF
Compressor status		OFF
Air temperat. control system status		OFF
Car speed	0	km/h
Battery voltage	13.6	V
		Right cylinder bank
Front oxygen sensor voltage	656	mV
Rear oxygen sensor voltage	644	mV
Catalytic conv.temperature	489	°C
Operation mode		CLOSED LOOP
		Left cylinder bank
Front oxygen sensor voltage	68	mV
Rear oxygen sensor voltage	578	mV
Catalytic conv.temperature	500	°C
Operation mode		CLOSED LOOP

Errors

There are no present or stored errors

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MARELLI ELECT.-ACT. TRANSMIS. F129

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Marelli software code : 509203010013 Release date : 03/11/97

Marelli ECU code : BC0-S229

Customized for: USA - Clutch position : 13.88

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Errors

Reverse Switch error present
Stby Switch error present
Down Switch error present

Operator errors

System error counters

Engag. with wrong selection 0
High transm. input rev. 0
Oppos. gear engagement 0
Clutch over the P.I.S 0
Clutch hydraulic failure 0
Selection positioning error absent
Engagement positioning error absent

ECU errors

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Statistic parameters

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Idle engagement counter	447	
First engagement counter	1164	
Second engagement counter	1603	
Third engagement counter	1668	
Fourth engagement counter	1564	
Fifth engagement counter	1223	
Sixth engagement counter	511	
Reverse engag. counter	259	
Idle covered path	0	km
First covered path	16	km
Second covered path	87	km
Third covered path	249	km
Fourth covered path	364	km
Fifth covered path	371	km
Sixth covered path	855	km
Reverse covered path	0	km
Pump starting counter	3974	
Pump On time	141	min
System ON time	2597	min
Clutch overtemperature time	0	sec

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Parameters

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Engag. potentiometer travel	1.44	mm ✓
Select. potentiom. travel	-12.93	degrees ✓
Clutch travel	15.08	mm
Clutch travel reference	-2.69	mm
Throttle potentiom. travel	117	unit
Hydraulic circuit pressure	55.60	bar
Water temperature	69.0	degrees
Battery voltage	12.3	volt
Lever pos.	NEUTRAL	
Engine angular speed	0	rpm
Transm. angul. prim. speed	0	rpm.
Car speed	0	km/h
Engaged gear	FIRST	
Brake sw. stat.	OFF	
Driver's door stat.	OFF	
Key input status	ON	
Starting input status	OFF	
AUTO sw. stat.	OFF	
SPORT sw. stat.	OFF	
LOW FRCT. sw. status	OFF	
Odd gear engagement SV current control	0.0	mA
Even gear engagement SV current control	0.0	mA
Clutch SV current control	0.0	mA
1-2-3 selection SV control	Out of Range	
Pump relay control	RELAY OFF	
MOTRONIC net torque	0	Nm
Thresh. for idle min. safe eng.	399	
Thresh. for 1st min. safe engag.	20	
Thresh. for 2nd min. safe engag.	729	
Thresh. for 3rd min. safe engag.	20	

Thresh. for 4th min. safe engag.	729	
Thresh. for 5th min. safe engag.	20	
Thresh. for 6th min. safe engag.	729	
Thresh. for rev. min. safe eng.	729	
Thresh. for idle max. safe eng.	599	
Thresh. for 1st max. safe engag.	269	
Thresh. for 2nd max. safe engag.	1000	
Thresh. for 3rd max. safe engag.	249	
Thresh. for 4th max. safe engag.	1000	
Thresh. for 5th max. safe engag.	249	
Thresh. for 6th max. safe engag.	1000	
Thresh. for rev. max. safe eng.	1000	
Idle min. sel. thresh.	564	
1st min. sel. thresh.	377	
2nd min. sel. thresh.	377	
3rd min. sel. thresh.	564	
4th min. sel. thresh.	564	
5th min. sel. thresh.	744	
6th min. sel. thresh.	744	
Rev. min. sel. thresh.	20	
Idle max. sel. thresh.	644	
1st max. sel. thresh.	457	
2nd max. sel. thresh.	457	
3rd max. sel. thresh.	644	
4th max. sel. thresh.	644	
5th max. sel. thresh.	1000	
6th max. sel. thresh.	1000	
Rev. max. sel. thresh.	175	
Self-calib. closed clutch position	15.08	mm
P.I.S. distance selection - closed self-cal.	1.70	mm
Self-calibrated idle accelerator pos.	7.06	deg.
Self-calibrated clutch SV C/C current	1.0	mA
Min. idle sel. wide thresh.	570	
1st min. sel. wide thresh.	361	
2nd min. sel. wide thresh.	361	
3rd min. sel. wide thresh.	570	
4th min. sel. wide thresh.	570	
5th min. sel. wide thresh.	741	
6th min. sel. wide thresh.	741	
Rev. min. sel. wide thresh.	20	
Idle max. sel. wide thresh.	688	
1st max. sel. wide thresh.	519	
2nd max. sel. wide thresh.	519	
3rd max. sel. wide thresh.	688	
4th max. sel. wide thresh.	688	
5th max. sel. wide thresh.	1000	
6th max. sel. wide thresh.	1000	
Rev. max. sel. wide thresh.	296	
Open bonnet status	ON	
Pure value engagement potentiom. travel	175	unit
Pure value selection potentiom. travel	412	unit
Transm. actuator centering	1.7	degrees
Clutch position at new	13.88	mm
Clutch wear	15.00	%

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Parameters

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Engag. potentiometer travel	10.91✓	mm
Select. potentiom. travel	-12.86✓	degrees
Clutch travel	15.08	mm
Clutch travel reference	15.01	mm
Throttle potentiom. travel	118	unit
Hydraulic circuit pressure	53.10	bar
Water temperature	68.2	degrees
Battery voltage	14.4	volt
Lever pos.	NEUTRAL	
Engine angular speed	1166	rpm
Transm. angl. prim. speed	1128	rpm.
Car speed	0	km/h
Engaged gear	IDLE	
Brake sw. stat.	OFF	
Driver's door stat.	ON	
Key input status	ON	
Starting input status	OFF	
AUTO sw. stat.	OFF	
SPORT sw. stat.	OFF	
LOW FRCT. sw. status	OFF	
Odd gear engagement SV current control	0.0	mA
Even gear engagement SV current control	0.0	mA
Clutch SV current control	0.0	mA
1-2-3 selection SV control	Out of Range	
Pump relay control	RELAY OFF	
MOTRONIC net torque	10	Nm
Thresh. for idle min. safe eng.	399	
Thresh. for 1st min. safe engag.	20	
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Thresh. for 4th min. safe engag.	729	
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4th max. sel. thresh.	644	
5th max. sel. thresh.	1000	
6th max. sel. thresh.	1000	
Rev. max. sel. thresh.	175	
Self-calib. closed clutch position	15.08	mm
P.I.S. distance selection - closed self-cal.	1.73	mm
Self-calibrated idle accelerator pos.	7.06	deg.
Self-calibrated clutch SV C/C current	1.0	mA
Min. idle sel. wide thresh.	570	
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4th max. sel. wide thresh.	688	
5th max. sel. wide thresh.	1000	
6th max. sel. wide thresh.	1000	
Rev. max. sel. wide thresh.	296	
Open bonnet status	ON	
Pure value engagement potentiom. travel	497	unit
Pure value selection potentiom. travel	413	unit
Transm. actuator centering	1.7	degrees
Clutch position at new	13.88	mm
Clutch wear	14.62	%

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