

EPS 200 protocol

Common rail injector test



Date

9/30/2022 12:51:54 PM

Responsible

Midwest Fuel Injection
1 Seidel Ct
60940 Bolingbrook

Tel.: 815-886-9900
Fax:
Email:

Checker:

Customer data

Tel.:
Fax:
Email:

Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results

Serial number: 03646 110115

		Set value	Actual value	Evaluation				
ISA code		----	H	—				
Test step	Actuation time	Pressure	Measurement time	Injected fuel quantity	Return quantity	Evaluation		
	(μ s)	(MPa)	(s)	Set value (mm ³ /H)	Actual value (mm ³ /H)	Set value (mm ³ /H)	Actual value (mm ³ /H)	
Leak test	0	160	60	---- \pm ----	----	0.1 \pm 0.1	----	✓
Start test	2500	30	10	65.0 \pm 35.0	81.60	---- \pm ----	----	✓
Back pressure	2500	30	40	---- \pm ----	81.12	---- \pm ----	----	—
ISA detection	700	160	40	5.0 \pm 5.0	3.18	---- \pm ----	----	✓
VL	555	160	10	46.5 \pm 6.5	47.55	11.0 \pm 4.0	10.75	✓
VE	175	120	10	1.9 \pm 1.5	1.49	---- \pm ----	----	✓
LL	490	30	10	3.8 \pm 2.7	3.43	---- \pm ----	----	✓
EM	490	80	10	19.1 \pm 4.3	17.70	---- \pm ----	----	✓

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Common rail injector test



Date

9/30/2022 2:00:38 PM

Responsible

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60940 Bolingbrook

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Customer data

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Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results

Serial number: 03651 110115

		Set value	Actual value	Evaluation		
ISA code		----	G	—		
Test step	Actuation time (μ s)	Pressure (MPa)	Measurement time (s)	Injected fuel quantity Set value (mm ³ /H) Actual value (mm ³ /H)	Return quantity Set value (mm ³ /H) Actual value (mm ³ /H)	Evaluation
Leak test	0	160	60	---- \pm ---- ----	0.1 \pm 0.1 ----	✓
Start test	2500	30	10	65.0 \pm 35.0 79.98	---- \pm ---- ----	✓
Back pressure	2500	30	40	---- \pm ---- 79.82	---- \pm ---- ----	—
ISA detection	700	160	40	5.0 \pm 5.0 3.71	---- \pm ---- ----	✓
VL	555	160	10	46.5 \pm 6.5 43.90	11.0 \pm 4.0 10.76	✓
VE	175	120	10	1.9 \pm 1.5 0.91	---- \pm ---- ----	✓
LL	490	30	10	3.8 \pm 2.7 2.59	---- \pm ---- ----	✓
EM	490	80	10	19.1 \pm 4.3 17.27	---- \pm ---- ----	✓

EPS 200 protocol

Common rail injector test



Date

9/30/2022 2:18:42 PM

Responsible

Midwest Fuel Injection
1 Seidel Ct
60940 Bolingbrook

Tel.: 815-886-9900
Fax:
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Checker:

Customer data

Tel.:
Fax:
Email:

Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results

Serial number: 04188 110113

	Set value	Actual value	Evaluation
ISA code	----	H	—

Test step	Actuation time (μ s)	Pressure (MPa)	Measurement time (s)	Injected fuel quantity		Return quantity		Evaluation
				Set value (mm ³ /H)	Actual value (mm ³ /H)	Set value (mm ³ /H)	Actual value (mm ³ /H)	
Leak test	0	160	60	---- \pm ----	----	0.1 \pm 0.1	----	✓
Start test	2500	30	10	65.0 \pm 35.0	84.65	---- \pm ----	----	✓
Back pressure	2500	30	40	---- \pm ----	83.67	---- \pm ----	----	—
ISA detection	700	160	40	5.0 \pm 5.0	3.73	---- \pm ----	----	✓
VL	555	160	10	46.5 \pm 6.5	45.98	11.0 \pm 4.0	11.10	✓
VE	175	120	10	1.9 \pm 1.5	1.08	---- \pm ----	----	✓
LL	490	30	10	3.8 \pm 2.7	3.56	---- \pm ----	----	✓
EM	490	80	10	19.1 \pm 4.3	16.78	---- \pm ----	----	✓

EPS 200 protocol

Common rail injector test



Date

9/30/2022 2:33:56 PM

Responsible

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1 Seidel Ct
60940 Bolingbrook

Tel.: 815-886-9900
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Customer data

Tel.:
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Email:

Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results

Serial number: 03826 130908

	Set value	Actual value	Evaluation
ISA code	----	H	—

Test step	Actuation time (μ s)	Pressure (MPa)	Measurement time (s)	Injected fuel quantity		Return quantity		Evaluation
				Set value (mm ³ /H)	Actual value (mm ³ /H)	Set value (mm ³ /H)	Actual value (mm ³ /H)	
Leak test	0	160	60	---- \pm ----	----	0.1 \pm 0.1	----	✓
Start test	2500	30	10	65.0 \pm 35.0	83.75	---- \pm ----	----	✓
Back pressure	2500	30	40	---- \pm ----	83.53	---- \pm ----	----	—
ISA detection	700	160	40	5.0 \pm 5.0	2.92	---- \pm ----	----	✓
VL	555	160	10	46.5 \pm 6.5	46.35	11.0 \pm 4.0	11.19	✓
VE	175	120	10	1.9 \pm 1.5	1.44	---- \pm ----	----	✓
LL	490	30	10	3.8 \pm 2.7	3.57	---- \pm ----	----	✓
EM	490	80	10	19.1 \pm 4.3	19.19	---- \pm ----	----	✓

EPS 200 protocol

Common rail injector test



Date

9/30/2022 2:47:58 PM

Responsible

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60940 Bolingbrook

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Customer data

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Email:

Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results**Serial number: 03647 110115**

	Set value	Actual value	Evaluation
ISA code	----	H	—

Test step	Actuation time	Pressure (MPa)	Measurement time (s)	Injected fuel quantity		Return quantity		Evaluation
	(μ s)			Set value (mm ³ /H)	Actual value (mm ³ /H)	Set value (mm ³ /H)	Actual value (mm ³ /H)	
Leak test	0	160	60	---- \pm ----	----	0.1 \pm 0.1	----	✓
Start test	2500	30	10	65.0 \pm 35.0	78.57	---- \pm ----	----	✓
Back pressure	2500	30	40	---- \pm ----	80.95	---- \pm ----	----	—
ISA detection	700	160	40	5.0 \pm 5.0	3.28	---- \pm ----	----	✓
VL	555	160	10	46.5 \pm 6.5	44.00	11.0 \pm 4.0	10.80	✓
VE	175	120	10	1.9 \pm 1.5	0.99	---- \pm ----	----	✓
LL	490	30	10	3.8 \pm 2.7	1.56	---- \pm ----	----	✓
EM	490	80	10	19.1 \pm 4.3	16.68	---- \pm ----	----	✓

EPS 200 protocol

Common rail injector test



Date

9/30/2022 3:00:23 PM

Responsible

Midwest Fuel Injection
1 Seidel Ct
60940 Bolingbrook

Tel.: 815-886-9900
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Checker:

Customer data

Tel.:
Fax:
Email:

Customer no.:

Common rail injector

Type number: 0445115077
Manufacturer: Bosch
Actuation profile: ----
Description: CRI 3-16

These test results verify injector function only. They are not valid for injector repair purposes.

Measurement results

Serial number: -03889 110113

		Set value	Actual value	Evaluation				
ISA code		----	H	---				
Test step	Actuation time	Pressure	Measurement time	Injected fuel quantity	Return quantity	Evaluation		
	(μ s)	(MPa)	(s)	Set value (mm ³ /H)	Actual value (mm ³ /H)	Set value (mm ³ /H)	Actual value (mm ³ /H)	
Leak test	0	160	60	---- \pm ----	----	0.1 \pm 0.1	----	✓
Start test	2500	30	10	65.0 \pm 35.0	84.70	---- \pm ----	----	✓
Back pressure	2500	30	40	---- \pm ----	86.43	---- \pm ----	----	---
ISA detection	700	160	40	5.0 \pm 5.0	2.13	---- \pm ----	----	✓
VL	555	160	10	46.5 \pm 6.5	47.08	11.0 \pm 4.0	10.81	✓
VE	175	120	10	1.9 \pm 1.5	1.08	---- \pm ----	----	✓
LL	490	30	10	3.8 \pm 2.7	3.92	---- \pm ----	----	✓
EM	490	80	10	19.1 \pm 4.3	19.14	---- \pm ----	----	✓