TAB 10

DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1101	Ignition	Ignition voltage high	Battery voltage >18.5V	GDS Scan Tool KDS Scan Tool
B1102	Ignition	Ignition voltage low	Battery voltage <7V	↑
B1328	FIS (Front Impact Sensor)	FIS Driver defect	FIS send defect code, FIS output is not expected value	↑
B1329	FIS (Front Impact Sensor)	FIS Driver communication error	FIS no acceleration data, and line voltage is ok	↑
B1330	FIS (Front Impact Sensor)	FIS(Front Impact Sensor)-Driver Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1333	FIS (Front Impact Sensor)	FIS Passenger defect	FIS send defect code, FIS output is not expected value	↑
B1334	FIS (Front Impact Sensor)	FIS Passenger communication error	FIS no acceleration data, and line voltage is ok	↑
B1335	FIS (Front Impact Sensor)	FIS(Front Impact Sensor)-Passenger Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1346	DAB (Driver airbag)	1st Stage Driver airbag resistance too high	Squib resistance > 6.9Ω	↑
B1347	DAB (Driver airbag)	1st Stage Driver airbag resistance too low	Squib resistance < 1.0Ω	↑
B1348	DAB (Driver airbag)	1st Stage Driver airbag resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1349	DAB (Driver airbag)	1st Stage Driver airbag resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1352	PAB (Passenger airbag)	1st Stage Passenger airbag resistance too high	Squib resistance > 6.9Ω	↑
B1353	PAB (Passenger airbag)	1st Stage Passenger airbag resistance too low	Squib resistance < 1.0Ω	↑
B1354	PAB (Passenger airbag)	1st Stage Passenger airbag resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1355	PAB (Passenger airbag)	1st Stage Passenger airbag resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1361	PT (Pretensioner)	Pretensioner front-Driver resistance too high	Squib resistance > 6.9Ω	↑
B1362	PT (Pretensioner)	Pretensioner front-Diver resistance too low	Squib resistance < 1.0Ω	↑

TAB 10

DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1363	PT (Pretensioner)	Pretensioner front-Driver resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1364	PT (Pretensioner)	Pretensioner front-Driver resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1367	PT (Pretensioner)	Pretensioner front-Passenger resistance too high	Squib resistance > 6.9Ω	↑
B1368	PT (Pretensioner)	Pretensioner front-Passenger resistance too low	Squib resistance < 1.0Ω	↑
B1369	PT (Pretensioner)	Pretensioner front-Passenger resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1370	PT (Pretensioner)	Pretensioner front-Passenger resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1373	PAVT (Passenger airbag Active vent)	Passenger airbag Active vent resistance too high	Squib resistance > 6.9Ω	↑
B1374	PAVT (Passenger airbag Active vent)	Passenger airbag Active vent resistance too low	Squib resistance < 1.0Ω	↑
B1375	PAVT (Passenger airbag Active vent)	Passenger airbag Active vent resistance circuit Short to Ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1376	PAVT (Passenger airbag Active vent)	Passenger airbag Active vent resistance circuit Short to Battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1378	SAB (Side airbag)	Side airbag front-Driver resistance too high	Squib resistance > 6.9Ω	↑
B1379	SAB (Side airbag)	Side airbag front-Driver resistance too low	Squib resistance < 1.0Ω	↑
B1380	SAB (Side airbag)	Side airbag front-Driver resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1381	SAB (Side airbag)	Side airbag front-Driver resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1382	SAB (Side airbag)	Side airbag front-Passenger resistance too high	Squib resistance > 6.9Ω	↑
B1383	SAB (Side airbag)	Side airbag front-Passenger resistance too low	Squib resistance < 1.0Ω	↑
B1384	SAB (Side airbag)	Side airbag front-Passenger resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1385	SAB (Side airbag)	Side airbag front-Passenger resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑

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DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1395	Squib	Squib Interconnection Fault	Squib lines are cross coupled, Make other line sink, and then other squib line answers	↑
B1400	SIS (Side Impact Sensor)	SIS front-Driver defect	SIS no acceleration data, and line voltage is ok	↑
B1403	SIS (Side Impact Sensor)	SIS front-Passenger defect	SIS no acceleration data, and line voltage is ok	↑
B1409	SIS (Side Impact Sensor)	SIS front-Driver communication error	SIS send defect code, SIS output is not expected value	↑
B1410	SIS (Side Impact Sensor)	SIS front-Passenger communication error	SIS send defect code, SIS output is not expected value	↑
B1412	SIS-Rear (Side Impact Sensor-Rear)	SIS rear-Driver communication error	SIS no acceleration data, and line voltage is ok	↑
B1413	SIS-Rear (Side Impact Sensor-Rear)	SIS rear-Passenger communication error	SIS no acceleration data, and line voltage is ok	↑
B1414	SIS (Side Impact Sensor)	SIS(Side Impact Sensor) Front-Driver Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1415	SIS (Side Impact Sensor)	SIS(Side Impact Sensor) Front-Passenger Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1418	SIS-Rear (Side Impact Sensor-Rear)	SIS rear-Driver defect	SIS send defect code, FIS output is not expected value	↑
B1419	SIS-Rear (Side Impact Sensor-Rear)	SIS rear-Passenger defect	SIS send defect code, FIS output is not expected value	↑
B1473	CAB (Curtain airbag)	Inflatable Curtain airbag-driver resistance too high	Squib resistance > 6.9Ω	↑
B1474	CAB (Curtain airbag)	Inflatable Curtain airbag-Driver resistance too low	Squib resistance < 1.0Ω	↑
B1475	CAB (Curtain airbag)	Inflatable Curtain airbag-Driver resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1476	CAB (Curtain airbag)	Inflatable Curtain airbag-driver resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑

TAB 10

DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1477	CAB (Curtain airbag)	Inflatable Curtain airbag-Passenger resistance too high	Squib resistance > 6.9Ω	↑
B1478	CAB (Curtain airbag)	Inflatable Curtain airbag-Passenger resistance too low	Squib resistance < 1.0Ω	↑
B1479	CAB (Curtain airbag)	Inflatable Curtain airbag-Passenger resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1480	CAB (Curtain airbag)	Inflatable Curtain airbag-Passenger resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1481	DAB(2nd)	2nd Stage Driver airbag resistance too high	Squib resistance > 6.9Ω	↑
B1482	DAB(2nd)	2nd Stage Driver airbag resistance too low	Squib resistance < 1.0Ω	↑
B1483	DAB(2nd)	2nd Stage Driver airbag resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1484	DAB(2nd)	2nd Stage Driver airbag resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1485	PAB(2nd)	2nd Stage Passenger airbag resistance too high	Squib resistance > 6.9Ω	↑
B1486	PAB(2nd)	2nd Stage Passenger airbag resistance too low	Squib resistance < 1.0Ω	↑
B1487	PAB(2nd)	2nd Stage Passenger airbag resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1488	PAB(2nd)	2nd Stage Passenger airbag resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1490	ODS (Occupant Detection System)	ODS sensor defect	ODS defect message received form WCS	↑
B1493	ODS (Occupant Detection System)	ODS communication error	ODS CAN message time-out	↑
B1494	ODS (Occupant Detection System)	ODS (Wrong ID)	wrong ID received from ODS	↑
B1513	Buckle Sensor	Passenger Seat Buckle Switch open or short to Battery	Sensor line current < 3.5mA	↑
B1514	Buckle Sensor	Passenger Seat Buckle Switch short or short to Ground	Sensor line current > 22mA	↑
B1516	Buckle Sensor	Passenger Seat Buckle Switch Defect	8.5mA < Sensor line current < 9.5mA	↑
B1620	ACU	Internal fault - Replace ECU	Internal Fault	↑
B1620	ACU	Crash Recorded - Rollover event (Replace SRSCM)	Rollover Event	↑
B1650	Crash	Crash recorded in 1st Stage only	Front Crash with 1st Stage only	↑
B1651	Crash	Crash recorded Side Airbag front-Driver	Driver Side Crash	↑
B1652	Crash	Crash recorded Side Airbag front-Passenger	Passenger Side Crash	↑
B1670	Crash	Crash recorded in Full stage	Front Crash with Full stage	↑
B1676	Crash	Crash recorded in Driver Side restraint system with Frontal crash (Replace SRSCM)	Frontal crash in Driver Side	↑
B1677	Crash	Crash recorded in Passenger Side restraint system with Frontal crash (Replace SRSCM)	Frontal crash in Passenger Side	↑
B1683	ACU	Exceed Maximum Coding Number	ACU Coding Error exceed 255 times.	↑
B1684	ACU	ACU configuration is different	After ACU coding, ACU configuration is different with Vehicle configuration	↑

TAB 10
DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1711	KAB (Knee airbag)	Knee airbag front-Driver resistance too high	Squib resistance > 6.9Ω	↑
B1712	KAB (Knee airbag)	Knee airbag front-Driver resistance too low	Squib resistance < 1.0Ω	↑
B1713	KAB (Knee airbag)	Knee airbag front-Driver resistance circuit short to ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1714	KAB (Knee airbag)	Knee airbag front-Driver resistance circuit short to battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1730	APT (Anchor Pretensioner)	Anchor Pretensioner front-Driver resistance too high	Squib resistance > 6.9Ω	↑
B1731	APT (Anchor Pretensioner)	Anchor Pretensioner front-Driver resistance too low	Squib resistance < 1.0Ω	↑
B1732	APT (Anchor Pretensioner)	Anchor Pretensioner front-Driver resistance circuit short to Ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1733	APT (Anchor Pretensioner)	Anchor Pretensioner front-Driver resistance circuit short to Battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1734	APT (Anchor Pretensioner)	Anchor Pretensioner front-Passenger resistance too high	Squib resistance > 6.9Ω	↑
B1735	APT (Anchor Pretensioner)	Anchor Pretensioner front-Passenger resistance too low	Squib resistance < 1.0Ω	↑
B1736	APT (Anchor Pretensioner)	Anchor Pretensioner front-Passenger resistance circuit short to Ground	Squib line short to GND resistance < 1.0 KΩ	↑
B1737	APT (Anchor Pretensioner)	Anchor Pretensioner front-Passenger resistance circuit short to Battery	Squib line short to BAT resistance < 1.9 KΩ	↑
B1738	PSIS (Pressure Side Impact Sensor)	P-SIS(Side Impact Sensor, Pressure) Front-Driver Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1739	PSIS (Pressure Side Impact Sensor)	P-SIS Driver defect	P-SIS send defect code P-SIS output is not expected value	↑
B1742	PSIS (Pressure Side Impact Sensor)	P-SIS Driver communication error	P-SIS no data, and line voltage is ok	↑

TAB 10

DTC CODES SUMMARY CHART--REQUEST NO. 9_OPTIMA (JF/JFa)

Diagnostic Trouble Code or Fault Code Identified (e.g., DTC code) (a)	Module or Other Hardware Containing Code (b)	Description of the DTC (c)	Description of the Conditions Which Result in the Code Being Set (d)	Tools, software, and procedures required to download the code (d)
B1744	PSIS (Pressure Side Impact Sensor)	P-SIS(Side Impact Sensor, Pressure) Front-Passenger Wrong ID	wrong sensor connected, Check received sensor ID information and sensor type	↑
B1745	PSIS (Pressure Side Impact Sensor)	P-SIS Passenger defect	P-SIS send defect code P-SIS output is not expected value	↑
B1748	PSIS (Pressure Side Impact Sensor)	P-SIS Passenger communication error	P-SIS no data, and line voltage is ok	↑
B1762	ACU	ACU Coding Error	When ACU coding, ACU configuration is different with Vehicle configuration	↑
B2500	AWL (ACU Warning Lamp)	SRS Warning lamp Failure	Warning lamp failure Ground short or Battery short	↑
B2502	TTL (Telltale Lamp)	Passenger airbag tell tale Lamp fail	Passenger Telltale Lamp failure Ground short or Battery short	↑