



FIAT CHRYSLER AUTOMOBILES

INFORMATION REDACTED PURSUANT TO THE FREEDOM OF INFORMATION ACT (FOIA), 5 U.S.C. 552(B)(6)

March 4, 2019

[REDACTED]  
[REDACTED]  
Santa Maria, CA [REDACTED]

RE: Case: [REDACTED]  
VIN: [REDACTED]

Dear Ms [REDACTED]

This will further acknowledge contact to Fiat Chrysler Automobiles, regarding your 2017 Ram 2500.

Naturally, we were sorry to learn of this incident. Please rest assured, we appreciate and share your concerns about vehicle safety. It is important for you to remember that we don't just design and build vehicles; we also drive them, as do most of our families and friends. We have some very close and personal reasons to be concerned about vehicle safety, like you, people depend on us to provide them with safe and dependable transportation.

FCA US LLC provided for Engineering Analysis Associates/Bosch Automotive Service Solutions to examine your vehicle. EAA is a leading supplier of technical field support to the transportation industry. They have hundreds of specialists in the United States that conduct thousands of product investigations each year, providing valuable automotive field expertise. FCA feels that the expense of this independent inspection is in the best interest of you, our customer, and the Corporation in our efforts to properly evaluate serious concerns such as yours.

The inspection involved a thorough examination of your vehicle and the photographing of all critical areas. We have had the opportunity to review the details of the inspection report, and must inform you that we are not led to believe that the incident was due to a manufacturing responsibility. Therefore, we must respectfully decline any assistance associated with this matter.

Based on this, we suggest that you refer this matter to your insurance carrier. Should they feel a manufacturing responsibility exists, they have full subrogation rights under the terms of your policy, including your deductible.

Thank you for allowing us the opportunity in reviewing this matter with you.

Sincerely,

Special Investigations

JS/sk



## CONFIGURATION REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:21:32 AM

### ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
PCM	Powertrain Control Module	CAN-C	32370731AE	[REDACTED]	[REDACTED]	32370731AE
ICS	Integrated Center Stack	CAN-I	1UJ97DX9AJ	[REDACTED]	[REDACTED]	1UJ97DX9AJ
RFH	Radio Frequency Hub	CAN-C	68319677AB	[REDACTED]	[REDACTED]	68319677AB
ABS	Anti Lock Brakes	CAN-C	68306179AB	[REDACTED]	[REDACTED]	68306179AB
DTCM	Drive Train Control Module	CAN-C	68250127AA	[REDACTED]	[REDACTED]	68250127AA
ORC	Occupant Restraint	CAN-C	68346749AB	[REDACTED]	[REDACTED]	68346749AB
HVAC	Heat, Ventilation and A/C	CAN-I	68268187AA	[REDACTED]	[REDACTED]	68268187AA
DDM	Driver Door Module	CAN-I	68286791AA	[REDACTED]	[REDACTED]	68286791AA
PDM	Passenger Door Module	CAN-I	68286790AA	[REDACTED]	[REDACTED]	68286790AA
AMP	Amplifier	CAN-I	68267099AB	[REDACTED]	[REDACTED]	68267099AB
IPC	Instrument Panel Cluster	CAN-C	68302591AD	[REDACTED]	[REDACTED]	68302591AD
PTS	Parktronics	CAN-C	68204477AD	[REDACTED]	[REDACTED]	68204477AD
SCCM	Steering Column Control Module	CAN-C	68110740AE	[REDACTED]	[REDACTED]	68110740AE
BCM	Body Controller	CAN-C	68320320AC	[REDACTED]	[REDACTED]	68320319AC
DCU	Dosing Control Unit	CAN-C	68313041AA	[REDACTED]	[REDACTED]	68313041AA
HSM	Heated Seat Module	CAN-I	68217263AD	[REDACTED]	[REDACTED]	68217263AD
RADIO	Radio	CAN-I	68270661AH	[REDACTED]	[REDACTED]	68270661AH
ITBM	Integrated Trailer Brake Module	CAN-C	68288760AB	[REDACTED]	[REDACTED]	68288760AB
VGT	Variable Geometry Turbo	CAN-C	68213171AC	[REDACTED]	[REDACTED]	68213171AC

### ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	VARIANT	VERSION	ISO CODE
PCM	USA	00	17	24	08	
ICS	USA	0C 1A 42	0D 1E 1E	41	00	

RFH	USA	0D 20 01	10 20 01	41	04
ABS		10 09 00	10 09 01	40	08
DTCM	USA	10 11	05 01 09	40	02
ORC	USA	0C 25 02	11 30 00	42	01
HVAC	USA	0D 12 04	0E 30 00	42	01
DDM	USA / USA	14 45 00	15 12 00	41	02
PDM	USA	14 45 00	15 12 00	41	02
AMP	USA	13 21 01	0F 25 00	40	05
IPC	USA / USA	05 02 03	10 27 01	42	01
PTS	USA	08 33 01	0E 28 01	41	05
SCCM	USA	0A 2E 04	0B 26 00	41	01
BCM	USA	0D 11 00	12 06 40	43	05
DCU	—	0C 18 00	0E 21 00	02	00
HSM	USA / USA	0D 0E 00	0F 08 00	40	02
RADIO	USA	0F 28 00	11 2B 01	80	02
ITBM	USA	10 0E 02	10 0E 40	40	00
VGT		0D 06 00	0E 02 00	01	00

## PCM CONFIGURATION

NAME	VALUE	UNITS
SS4OBD	False	
SS2OBD	False	
EN4P	True	
TRIP	False	
EN22P	True	
GHD	False	
TCASEBE	True	
SS1OBD	False	
LUA	False	
SSROBD	False	
TMXEN	False	
TBEN	True	
DMEN	Dual Mode	
ERSG	7	
SSNOBD	True	
SS3OBD	False	
Transmission Software Included	True	
Ammonia Sensor Equipped	False	
68RFE	True	
PTO Single Speed Equipped	False	
2nd Alternator Equipped	False	
ENVFSACT	True	
6.7 L Engine	True	
Auxiliary Fuel Tank Equipped	False	

Air Conditioning Equipped	True	
Raw Ambient Air Temperature In Package	True	
Cruise Control Equipped	False	
VLPEN	True	
Switched Max Operating Speed Equipped	False	
EVR Idle Up Equipped	False	
Mobile PTO Equipped	False	
ERS ON BUS	True	
Vehicle Type (0 is CC and 1 is PU)	True	
PTO In Cab Equipped	False	
Accelerator Interlock Equipped	False	
Manual Transmission Equipped	False	
Fan Config	True	
Automatic Transmission Equipped	True	
SKIM Equipped	True	
Stationary Desoot Available	True	
PM Sensor Equipped	True	
PTO Equipped	False	
Idle Shutdown Equipped	False	
Remote PTO Auto Resume Equipped	False	
Engine Software In Package	True	
Remote Throttle Equipped	False	
Remote PTO Equipped	False	
ENVLPLRN	False	

## ICS CONFIGURATION

NAME	VALUE	UNITS
Display Type (Base)	False	
Display Type (Mid)	False	
Display Type (High)	False	

## RFH CONFIGURATION

NAME	VALUE	UNITS
Hardware Configuration: Left Front Handle	No AP	
Hardware Configuration: Right Front Handle	No AP	
Hardware Configuration: Ignition Module	IGNM	
Base TPM	False	
Module Configuration Status	True	
ELV Programmed	False	
RKE	True	
Fob-Alike	False	
Premium TPM	True	
Passive Entry	False	
ESCL Programmed	False	

Back Up ECU Configuration 8 Programmed	True	
Back Up Network Configuration ePT	False	
Back Up Vehicle Config 2 Programmed	True	
Back Up ECU Configuration 2 Programmed	True	
Back Up Vehicle Config 4 Programmed	True	
Back Up ECU Configuration 5 Programmed	True	
Back Up ECU Configuration 11 Programmed	True	
Back Up ECU Configuration 14 Programmed	True	
Back Up ECU Configuration 13 Programmed	True	
Back Up ECU Configuration 6 Programmed	True	
Back Up ECU Configuration 15 Programmed	True	
Back Up Programmed ECUs: Cabin Network Programmed	True	
Back Up ECU Configuration 9 Programmed	True	
Back Up Vehicle Config 5 Programmed	True	
Back Up Vehicle Config 1 Programmed	True	
Back Up ECU Configuration 17 Programmed	False	
Back Up ECU Configuration 12 Programmed	True	
Back Up Programmed ECUs: P/T Chassis Network Programmed	True	
Back Up Vehicle Config 3 Programmed	True	
Back Up Programmed Network Configuration - Audio / Telematics Network Programmed	True	
Back Up ECU Configuration 7 Programmed	True	
Back Up ECU Configuration 10 Programmed	True	
Back Up ECU Configuration 1 Programmed	True	
Back Up ECU Configuration 4 Programmed	True	
Back Up Vehicle Config 6 Programmed	True	
Back Up Vehicle Config 7 Programmed	True	
Back Up ECU Configuration 3 Programmed	True	
Configuration Status	Configured	
VIN Successfully Programmed	Yes	
Transmission Type	Automatic	
Key Location #1 Successfully Programmed	Yes	
Key type	FOBik1 - PCF7961ATT	
Key Location #2 Successfully Programmed	Yes	
Valid Key In Ignition	Yes	
Cygnus Transmission	Not Present	
PIN Successfully Programmed	Yes	
Base TPM system present	Not Set	
Premium TPM system present	Set	
Vehicle Brand	Ram	
Body Style	4-Door Mega Pickup	
Vehicle Line	DJ	
Remote Start Present	Set	
RKE System Present	Set	
Model Year	2017	

Rear Dually Present	Not Set	
SKIM System Present	Set	
Passive Entry System present	Not Set	
T-Case Type	Analog Transfer case 244	
Police Lighting Feature	Not Set	
Left/Right Hand Drive	Left Hand Drive	
Wait To Start Feature	Not Set	
FOBIK safe feature	Not Set	
ELV System Present	Not Set	
Auto Park Present	Not Set	
Thatcham Present	Not Set	
ESCL system present	Not Set	
Keyless Go feature present	Not Set	
Light Load Inflation Pressure Front Tire	0.0	PSI
Light Load Inflation Pressure Rear Tire	0.0	PSI
Full Size Spare	Not Set	
Max Load Inflation Pressure Rear Tire	80.0	PSI
Max Load Inflation Pressure Front Tire	60.0	PSI

## ABS CONFIGURATION

NAME	VALUE	UNITS
PN-2011	True	
CAN BLS	False	
Evac and Fill	True	
HW BRK	True	
3 Channel System	False	
Long Accel	True	
Conti	False	
FTR PIN	False	
ESC	True	
ACC	False	
Pro Active	False	
HSA	True	
HBC	True	
Brake Pedal Sensor	True	
No Drive Test	False	

## DTCM CONFIGURATION

NAME	VALUE	UNITS
Thermistor	False	
Analog Encoder	False	
FAD	True	
Solenoid Clutch Driver	True	
Digital Encoder	True	

H-Bridge	True	
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## ORC CONFIGURATION

NAME	VALUE	UNITS
Seatbelt Switch 2nd Row Left Configured	False	
Door Head Airbag Right ( ZD Only ) Configured	False	
Seatbelt Switch 2nd Row Center Configured	False	
First Row Side / Thorax Bag Right ( D-Platforms Only ) Configured	True	
Active Hood (Bus)	False	
Passenger Retractor Pretensioner (B-Pillar) Configured	True	
Internal Low G (Z Axis)	True	
Passenger Airbag Squib 1 Configured	True	
VipSecond Row Right Retractor Pretensioner (C-Pillar) Configured	False	
Seatbelt Switch 2nd Row Right Configured	False	
Passenger Seat Track Position Sensor	False	
Second Row Side / Thorax Bag Right ( D-Platforms Only ) Configured	False	
Third Row Right Retractor Pretensioner (C-Pillar) Configured	False	
Passenger Airbag Disable Feature (Bus)	False	
Second Row Left Retractor Pretensioner (C-Pillar) Configured	False	
Driver Airbag Squib 1 Configured	True	
Curtain/Windowbag right ( D-Platforms Only ) Configured	True	
Curtain/Windowbag left ( D-Platforms Only ) Configured	True	
Passenger Kneebag configured	False	
Second Row Side / Thorax Bag Left ( D-Platforms Only ) Configured	False	
First Row Center Pretensioner (buckle Side) Configured	False	
Door Head Airbag Left ( ZD Only ) Configured	False	
Driver Seat Track Position Sensor	False	
Passenger Belt Buckle Pretensioner (buckle Side) Configured	False	
Passenger Seatbelt Sensor Configured	False	
Driver Airbag Squib 2 Configured	True	
Seat Pelvic Airbag Left ( ZD Only ) Configured	False	
Passenger Occupant Detection Sensor Status	Unoccupied	
Driver Kneebag configured	False	
Internal Roll sensor	True	
Driver Retractor Pretensioner (B-Pillar) Configured	True	
Pass Belt Adaptive Pretensioner (buckle Side) Configured	False	
Seatbelt Switch 3rd Row Left Configured	False	
Passenger Airbag Squib 3 configured	False	
Door Thorax Airbag Left ( ZD Only ) Configured	False	
Door Thorax Airbag Right ( ZD Only ) Configured	False	
Seatbelt Switch 3rd Row Right Configured	False	
Seatbelt Switch 3rd Row Center Configured	False	
Driver Belt Adaptive Pretensioner (buckle Side) Configured	False	
First Row Side / Thorax Bag Left ( D-Platforms Only ) Configured	True	

Third Row Center Pretensioner (buckle Side) Configured	False	
Internal Low G (Y Axis)	True	
Passenger Airbag Squib 2 Configured	True	
Second Row Center Pretensioner (buckle Side) Configured	False	
Seat Pelvic Airbag Right ( ZD Only ) Configured	False	
Internal Low G (X Axis)	True	
Third Row Left Retractor Pretensioner (C-Pillar) Configured	False	
Driver Seatbelt Sensor Configured	True	
Driver Belt Buckle Pretensioner (buckle Side) Configured	False	
Internal yaw rate	True	
Driver Airbag Squib 3 configured	False	

## HVAC CONFIGURATION

NAME	VALUE	UNITS
DualZone ATC Touchscreen	True	
DualZone ATC Touchscreen (Factory)	False	
Standalone Single Zone MTC With EBL	False	
Standalone Single Zone MTC W/O EBL	False	

## DDM CONFIGURATION

NAME	VALUE	UNITS
Power Folding Mirror	True	
EC Mirrors	False	
Map Pocket LED (Ambient Lights)	False	
Blindspot Mirror	False	
Ambient Temperature Sensor	True	
Window express feature	True	
Door Courtesy Lamp	False	
Memory Feature	False	
Mirror Puddle Lamps	False	
Window Motor Hall Sensors	False	
Sun Shade	False	
Tow Mirrors	True	
Door Handle LED (Ambient Lights)	False	
Heated Mirror	True	
Global Up	False	
Global Down	False	
Mirror Signal Lamp	True	

## PDM CONFIGURATION

NAME	VALUE	UNITS
Sun Shade	False	
Door Courtesy Lamp	False	
Door Handle LED (Ambient Lights)	False	

Frameless Window	False	
Window express feature	True	
Global Down	False	
EC Mirrors	False	
Puddle lamps	False	
Ambient Temperature Sensor	False	
Power Folding Mirror	True	
Global Up	False	
Window Motor Hall Sensors	False	
Tow Mirrors	True	
Mirror Signal Lamp	True	
Heated Mirror	True	
Memory Feature	False	
Map Pocket LED (Ambient Lights)	False	
Blindspot Mirror	False	

## AMP CONFIGURATION

NAME	VALUE	UNITS
Surround Sound Activated	Set	
Premium - 3 (SRT8)	False	
Premuim - 1 (8 channel)	False	
Premuim - 2 (12 Channel)	True	
Left/Right Hand Drive	SNA / Not Programmed	

## IPC CONFIGURATION

NAME	VALUE	UNITS
Speedo Rng(Max scale)	NA	
Split Shaft Present	NA	
PTO Present	LBN or LBV	
ERS Available	NA	
Virtual Speedometer	NA	
Heated Seat Present	CMA	
Tire Pressure Monitoring Present	True	
Park Assist Present	False	
Auto Highbeams Present	False	
Automatic Transmission Present	False	
Remote Start Present	True	
Lowline Cluster Present	False	
Start-Stop System Present	False	
4WD System Present	True	
Trailer Tow Present	False	
Compressed Natural Gas Present	False	
Air Suspension System Present	False	
Diesel Powertrain Present	False	

Memory Seat Present	True	
Transmission Temperature Sensor Present	False	
Electronic Power Steering Present	False	
Transmission Type	Auto	
Stop Start Feature Present	False	
Fuel Type	Diesel / DIESEL	
Electronic Throttle Control	True	
Engine Displacement	2	gallons
PTS Display Type and Location	Headliner or NO Display Programmed	
Shifter Type	Not applicable / TYPE_NA	
Left/Right Hand Drive	Left hand drive / LHD	
UREA/SCR System Present	Present	
Remote Start Present	Present	
Headrest present	Not Present	
Drive Configuration	Selectable 4wd / 4WD	
Performance Pages Present	Not Present	
Maximum Vehicle Speed	0	MPH
Auto Highbeam feature present	Not Present	
CHMSL camera	Not Present	
Parktronics system configuration	Rear	
Ambient Dimmer	Not Present	
Rear Wheels	Single Rear Wheel	
Maximum Achievable Gear	0	Gear
Fuel Tank 1 Capacity	19	gallons
PTO Present	Not Present	
Personalization in Cluster	Disable Personalization in Cluster	
ERS Available	Present	
Virtual Primary Speedo	Undefined	
Units - US or Metric Display	US	
Seatbelt Alert System	Enabled	
Vehicle equipped with two fuel sending units	False	
Display Compass Heading Present	Present	
Fuel Capacity	31	gallons
Door Alert Feature Present	Not Present	
Premium TPM system present	Present	
Police Lighting Feature	Not Present	
Display Outside Temperature Present	Present	
Base TPM system present	Not Present	

## PTS CONFIGURATION

NAME	VALUE	UNITS
Front License Plate Configuration	NA - Rear Only PTS	
Rear System with 6 Front Sensors	False	
Rear System with 4 Front Sensors	False	

## BCM CONFIGURATION

NAME	VALUE	UNITS
Number of Reprogramming Attempts - Counter #0	1	
Vehicle Configuration Programmed Status	True	
Last Programmed Status	Service	
ECU Configuration 15 (Suspension)	0	
Last Configuration Odometer	8053	miles
ECU Configuration 13	1	
ECU Configuration 5 (Doors)	0	
ECU Configuration 6 (Safety)	0	
Vehicle Configuration 3 - Write Counter	1	
Programmed Network Configuration - Audio / Telematics Network	0	
ECU Configuration 9A	1	
Vehicle Configuration 2 - Write Counter	0	
ECU Configuration 1 (CBC Configurable Inputs and Outputs)	0	
ECU Configuration 8 (LIN and Miscellaneous )	0	
Vehicle Configuration 6 - Write Counter	0	
ECU Configuration 14	1	
Vehicle Configuration 5 - Write Counter	0	
Vehicle Configuration 1 - Write Counter	0	
ECU Configuration 5 (Memory)	0	
Vehicle Configuration 7 - Write Counter	0	
ECU Configuration 5 (Wireless)	1	
ECU Configuration 3	1	
ECU Configuration 7 (CBC Exterior Lighting Calibrations)	0	
ECU Configuration 6 (Brake)	1	
ECU Configuration 9 (ITM)	0	
Vehicle Configuration Auto Write Counter	2	
ECU Configuration 11	0	
ECU Configuration 6 (Powertrain)	1	
Vehicle Config CSM2	0	
ECU Configuration 10	1	
Vehicle Configuration 4 - Write Counter	0	
ECU Configuration 6 (Suspension)	0	
ECU Configuration 4	1	
ECU Configuration 2 (CBC Features)	1	
ECU Configuration 15 (CBC Features)	1	
ECU Configuration 12	1	
Vehicle Config CSM1	0	
Programmed ECUs: P/T Chassis Network	0	
Programmed ECUs: Hybrid LAN Network	0	
Programmed ECUs: Cabin Network	0	
Emode Present	Not Set	

Left/Right Hand Drive	Left Hand Drive	
Performance Pages Present	Not Present	
Auto Highbeam	Not Set	
Headrest present	Not Set	
Drive Configuration	Selectable 4WD	
Hill Descent Feature Present	Not Set	
Country Code	USA	
Special Packages	Sport/SLT+/Laramie	
Vehicle Line	DJ	
Model Year	2017	
Body Style	4-Door Mega Pickup	
Remote Start Present	Set	
Select Speed Control Feature Present	Not Set	
PTS Configuration	Rear / REAR	
UREA/SCR System Present	Set	
Maximum Vehicle Speed	SNA / Not Programmed	MPH
Shifter Type	Not applicable / TYPE_NA	
PTS Display Type and Location	Instrument Cluster PTS Display	
CHMSL camera	Set	
Rear View Camera	Set	
Full Size Spare	Not Set	
Flipper Glass Present	Not Set	
SKIM System Present	Set	
Power Inverter Type	Latching Switch	
Thatcham Present	Not Set	
Memory drive mode sub-feature configuration	Not Set	
Cruise Feature is Present	Set	
Maserati vehicle mode	Normal	
Max Load Inflation Pressure Front Tire	60.0	PSI
Secure park feature present	Not Set	
Off Road Capable	Not Set	
Special Packages	Bighorn / BIGHORN	
ESC drive mode sub-feature configuration	Not Set	
Run flat tires present	Not Set	
Light Load Inflation Pressure Front Tire	0.0	PSI
Pass. Airbag Disable Switch Present	Not Set	
Air Conditioning Present	Set	
Max Load Inflation Pressure Rear Tire	80.0	PSI
Rain Sensor Present	Not Set	
ECO Indicator Present	Not Set	
ECM drive mode sub-feature configuration	Not Set	
Drive mode feature configuration	Not Set	
Configuration for performance & gear shift indication	Performance or gear shift indication not present / NONE	
Light Load Inflation Pressure Rear Tire	0.0	PSI

FOBIK Safe Enable	Not Set	
Sunshade Present	Not Set	
Paddle Shift Feature Present	Not Set	
Vehicle Brand	Ram	
Liftgate/Trunk Type	Trunk	
Chassis Type	Type 18	
Interior EC Mirror Present	Set	
Forward Collision Warning present	Not Set	
Vehicle is an SRT	Not Set	
Wheel Base	Wheel base not programmed / WB_NP	
Two Fuel Sending Units Present	Not Set	
Fuel Capacity	31	gallons
Power Lift Gate Present	Not Set	
Premium TPM system present	Set	
Disable Display of Radio Clock	Not Set	
Keyless Go Present	Not Set	
T-Case Type	44-45, 44-46 w/Sync, 44-48 w/Sync / BW4445_46_48_WS	
Adjustable Pedal Feature Present (non-Memory)	Not Set	
Collision Mitigation System present	Not Set	
Sport Mode Present	Not Set	
Power Left Sliding Door Present	Not Set	
Auto Headlamp Feature Present	Set	
Display Compass Heading Present	Set	
ESCL system present	Not Set	
HVAC Configuration	Dual Zone ATC	
Secondary Lock Present	Not Set	
Power Right Sliding Door Present	Not Set	
ELV Present	Not Set	
Base TPM system present	Not Set	
Police Lighting Feature	Not Set	
High Intensity Discharge Head Lamps	Not Set	
Door Alert Feature Present	Not Set	
Display Outside Temperature Present	Set	
Auto Park Present	Not Set	
RKE System Present	Set	
Window Express Feature Configuration	Front windows express only	
Passive Entry Present	Not Set	
Dynamic Tire Circumference (All or Rear)	102	inch
Transfer Case Low Range Reduction Ratio	2.640	
Transfer Case High Ratio	1.000	No Unit
Axle Ratio	3.420	
Ambient temperature sensor location	DCM	
Speed Limiter Present	Not Set	
Luci feature present	Not Set	

Wait to Start Feature Present	Not Set	
Steering Ratio at Positive Angle 3	0.0	No Unit
Child Display Feature Present	Not Set	
Semi-Automatic Parking System Present	Not Set	
Ambient Lighting Feature Present	Not Set	
Seat Belt Reminder Module Present	Not Set	
Steering Ratio at Positive Angle 5	0.0	No Unit
Rear door lock switch present	Not Set	
Dual Rear Wheel (DRW) Vehicle Present	Not Set	
Steering Ratio at zero	0.0	No Unit
Steering Ratio at Positive Angle 1	0.0	No Unit
Park With Stop Present	Not Set	
Non-Regulated Tire Pressure Information System (TPIS) Present	Not Set	
Off-Road Pages Present	Not Set	
Steering Ratio at Positive Angle 4	0.0	No Unit
Steering Ratio at Positive Angle 2	0.0	No Unit
Brake type configuration (M156/7)	Signal Not Available / SNA	
Air Quality System Present	Not Set	
Analog Door Sensor Configuration	No Doors with Analog Sensors	
Dynamic Tire Circumference, Front Only	SNA	inch
Steering Ratio at Negative Angle 3	0.0	No Unit
Steering Ratio at Negative Angle 4	0.0	No Unit
Steering Ratio at Negative Angle 2	0.0	No Unit
Steering Ratio at Negative Angle 5	0.0	No Unit
Steering Ratio at Negative Angle 1	0.0	No Unit
Front Fog Lamps Output Present	Set	
Diesel Cabin Heater #3 Output Present	Not Set	
Park Brake Input Present	Set	
Rear Fog Lamps Output Present	Not Set	
Run-ACC Y Relay #2 Output Present	Set	
Foot Well Lamps Output Present	Set	
Inverter Status Input Present	Set	
Snow Plow Enable/Disable	Set	
Washer Fluid Level Sense SIG Input Present	Set	
Adjustable Pedal Motor Relay Output Present	Not Set	
Left Dedicated DRL Lamps Output Present	Not Set	
IOD RELAY OFF HSD Present	Not Set	
IOD RELAY ON HSD Present	Not Set	
Right Dedicated DRL Lamp Output Present	Not Set	
Headlamp Washer Motor Ctrl Output Present	Not Set	
Trailer Backup Lamps Output Present	Set	
ESM Present	Set	
ERS Switch Input Present	Set	
Fuel Level Sensor #2 Input Present	Not Set	

Side Repeaters Output Present	Not Set	
IOD ON LSD Output Present	Not Set	
Rear Turn Lamps Output Present	Not Set	
UGDO Feed Output Present	Set	
Trailer Turn_Stop Relay Ctrl RT Output Present	Set	
Inverter Enable Relay Output Present	Set	
Ignition UNLOCK RUN START Present	Set	
Rear Park Lamps Output Present	Set	
Diesel Cabin Heater #2 Output Present	Not Set	
VTA Warning LED Output Present	Set	
Relay LSD Spare #1 Output Present	Not Set	
Trailer Tail Lamp Relay Ctrl Output Present	Set	
Hood Ajar Switch Input Present	Set	
Backup-Reverse SW Input Present	Not Set	
Ambient Temperature Sensor Present	Not Set	
Diesel Fuel Heater Relay Output Present	Set	
Diesel Cabin Heater #1 Output Present	Not Set	
Relay LSD Spare #2 Output Present	Not Set	
Ambient Light Dimmer Wheel Input Present	Not Set	
Trailer Turn_Stop Relay Ctrl LT Output Present	Set	
LED Dedicated DRL Present	Not Set	
Intermittent Wiper States	5 Intermittent Wiper position Switch	
Side Mirror Repeaters used as side markers	Not Set	
LED Low Beam Lamps Present	Not Set	
Exterior Light Loadshed Enable	Set	
Rear Wiper Park Enable	Not Set	
Headlamp Wash Interval	wash cycle#11	
Headlamp Wash Spray Duration (at 100 ms intervals)	2000ms	
Reserved (Door Lock Switch Signal FT LT Usage)	ANALOG DOOR AJAR SW SIG DRIV (0)	
Rear Lighting DTC Disable	Not Set	
LED Front Fog Lamps Present	Not Set	
TCSM Present	Set	
Park Lamp Loadshed Enable	Not Set	
Headlamp Washer Low Fluid Shut-Off Enable	Set	
Single Element Tail Lamp	Not Set	
Trailer Tow Present	Set	
Tip Start Enabled	Set	
Front Wiper Park Enable	Set	
Front Wiper Wipes After Wash	2 Wipes	
Front Fog Lamp Dropout Enable	Set	
Side Repeaters Enable	Not Set	
LED Rear Fog Lamps Present	Not Set	
DRL Dropout Enable	Set	
LED Rear Turn Lamps Present	Not Set	

LED High Beam Lamps Present	Not Set	
DRL Lamp Location	None	
Quad Headlamps Enable	Set	
Combined Rear Lighting Enable	Set	
Horn Chirp Allowed	Set	
One Touch Lane Change	Set	
LED CHMSL Lamp Present	Set	
VTA Hood Ajar Monitoring	Not Set	
Tunnel Detection	Not Set	
LED Front Turn Lamps Present	Not Set	
Reversible Washer Pump Enable	Not Set	
Wiper Service Position Enabled	Not Set	
Reserved (Door Lock Switch Signal FT RT Usage)	ANALOG DOOR AJAR SW SIG PASS (0)	
LED Stop Lamps Present	Not Set	
Bi Xenon Headlamps Enable	Not Set	
Dual Start Relay System Present	Not Set	
LED Tail Lamps Present	Not Set	
LED License Lamps Present	Not Set	
LED Reverse Lamps Present	Not Set	
Hazard Lamp Configuration	Latching Switch	
AUX High Beam Present	Not Set	
LED Front Park/Marker Lamps Present	Not Set	
DRL Configuration	Optional DRL	
Microphone Tuning Parameter	absent	
Microphone Configuration	2 mics	
DRL customer setting enable/disable	Not Set	
DSP SK Present	Not Set	
Configuration messages status 3	Programmed	
Power Door Locks Present	Set	
DTV Front Camera Present	Not Set	
Steering Wheel Switch Configuration	Brand Focus Steering Wheel	
Cabin Equilization Curve Number	Mega Cab Premium (Alpine 12-ch) (Ds)	
Disable CD Eject	Not Set	
Hill Start Assist CSO Present	Not Set	
Antenna Type	Passive Primary and no secondary antenna	
Destination	United States of America	
External Port Type	AUX + USB	
SDAR Travel Link Feature Present	Set	
Splashscreen Type	Vehicle Brand	
Surround Sound Feature Present	Set	
Microphone Type	Peiker 300 mv	
Rear Camera Present	Set	
Front Heated Seats Present	Set	
DTV Side Camera Present	Not Set	

Front Ventilated Seats Present	Not Set	
DAB/DMB Present	Not Set	
Radio Apps Present	Not Set	
Heated Steering Wheel Present	Set	
Fuel Capacity	0	gallons
Max Gear	Six gear	
Rear Wheel Dually	NOT AVAILABLE	
IC Config Feature	NOT AVAILABLE	
Split Shaft Present	NOT AVAILABLE	
Vehicle Class	2500 / 2500	
ERS Available	available	
Heated Seat Present	available	
Wireless ecu configurationA	Undefined	
AP3 Left Rear	Not Present	
AP4 Right Rear	Not Present	
AP1 Left Front	Not Present	
AP2 Right Front	Not Present	
Airport Scenario Trunk Set	Not Set	
Tip Start Present	Set	
AP5 Trunk	Not Present	
Door handle LED	Not Set	
Global Down	Not Set	
Heated Mirrors Present	Set	
Puddle Lamp Present	Not Set	
Sun Shade	Not Set	
Mirror turn signals present	Set	
Door Courtesy Lamps Present	Not Set	
Driver Memory Mirrors Present	Not Set	
Door map pocket LED	Not Set	
Mirror Approach Lights Present	Set	
Passenger Memory Mirror Present	Not Set	
Frameless Window Present	Not Set	
Electro-chromatic passenger mirror present	Not Set	
Passenger Window Lockout	Not Set	
Rear Door Pre Short Drop	Not Set	
Electro-chromatic driver mirror present	Not Set	
Window Motor Type	Not Set	
Window Hall Sensors Present	Not Set	
Blindspot Mirror Present	Not Set	
Tow Mirror Present	Set	
Global Up	Not Set	
Folding mirrors present	Set	
Heated Steering Wheel Present	Present	
Front Vented Seats Present	Not Present	

Rear Heated Seats Present	Not Present	
Memory Adjustable Pedals Present	Not Set	
Heated Seat Material Type	Cloth	
Memory Seat Present	Not Set	
Heated Wheel Material Type	Full Leather	
Tilt/Telescope Steering Present	Not Set	
Brake System ECU Configuration B	21	
Brake System ECU Configuration A	value 12	
Suspension ecu configurationA	00	
Suspension ecu configurationB	00	
ECO Mode Configuration	Remember previous state with Ign Key Cycle	
Vehicle is equipped with Dosing Control Unit	Set	
Dual Alternator Present	Not Set	
Powertrain ecu configurationB	00	
Vehicle is equipped with Variable Geomeric Turbo Actuator	Set	
Switch Lamp Indicator #2	Not Present	
Manual Door Locks Present	Not Set	
Analog Spare Input #2	Not Present	
CHMSL Lamp Output Disable	Not Set	
Snow Plow Left Turn	Not Present	
Liftgate Unlock	Not Present	
License Lamp Open Circuit DTC Enable	Not Set	
Baggage (Cargo) Lamp Output Disabled with vehicle speed	Not Set	
Rear Fog Lamps Open Circuit DTC Enable	Not Set	
License Lamp Disabled	Not Set	
Rear Park Lamps Open Circuit DTC Enable	Not Set	
Analog Spare Input #5	Not Present	
Analog Spare Input #3	Not Present	
Front Fog Lamps Open Circuit DTC Enable	Not Set	
Switch Lamp Indicator #3	Not Present	
High Beam Lamps Open Circuit DTC Enable	Not Set	
Left Rear Turn Signal Usage	Left Rear Turn Signal	
CHMSL Lamp Open Circuit DTC Enable	Not Set	
Spare Relay LSD #5	Not Present	
Reverse Lamps Open Circuit DTC Enable	Not Set	
Stop Lamps Open Circuit DTC Enable	Not Set	
Digital Spare Input #1	Not Present	
Rain Sensor Module #2 Present	Not Set	
Truck Bed Lighting Feature	Bed Lighting Feature Present	
Switch Lamp Indicator #1	Not Present	
Digital Spare Input #2	Not Present	
Liftgate Lock	Not Present	
Spare Relay LSD #4	Not Present	
Analog Spare Input #6	Not Present	

Right Rear Turn Signal Usage	Right Rear Turn Signal	
Humidy Sensor Long Present	Not Set	
Front Park Lamps Open Circuit DTC Enable	Not Set	
Analog Spare Input #4	Not Present	
Dedicated DRL Lamps Open Circuit DTC Enable	Not Set	
Auto High Beam Module Location	None	
IOD Relay Voltage Sense	Not Set	
Steering Smoothing Factor	2	
Nose Dive Threshold	0.5 ms	
Steering Smoothing Threshold	Filter Off	
Brake Smoothing Threshold	375 Nm	
Acceleration Threshold	480 degrees	
Maximum Lateral Change	Filter Off	
Steering Smoothing Duration	3 periods	
Brake Smoothing Factor	1	
Maximum Longitudinal Change	1.0 degrees	
Average Last Longitudinal Acceleration Values	Average 15	
Brake Smoothing Duration	31 periods	
Excess Lateral Acceleration Factor	Filter Off	
Average Last Lateral Acceleration Values	Average 15	
Excess Longitudinal Acceleration Factor	7.5	
Nose Dive Factor	0.5	
Acceleration Factor	5	
ASCM Active Damping	Not Set	
Super trac pack present	Not Set	
Dynamic steering torque present	Not Set	
Shift feature autostick / electronic range select status	ERS present / ERS	
ACC Type	ACC not present / NONE	
ASCM Suspension	Not Set	
Full Speed Range forward collision warning plus system present	Not Set	
Full Central Vision Processing	Not Set	
Transmission drive mode feature	Not Set	
e-shifter present	Not Set	
Active Blind Spot	Set	
Automatic transmission type	68RFE / c68RFE	
Paddles lock-out feature	Not Set	
Lane Departure Warning present	Not Set	
Rain Sensitive Wipers CSM	Not Set	
Lane Departure Torque CSM	Not Set	
Power Take Off CSM	Not Set	
Pressure Unit CSM	Not Set	
Rear View Camera Gridlines CSM	Dynamic / DYNAMIC	
Auto-On Driver Comfort CSM	Feature 2 - 3 option / Option_2_3	
Park Assist Rear Volume CSM	Set	

Lane Departure Warning CSM	Not Set	
Forward Collision Mitigation Braking CSM	Not Set	
CHMSL Line CSM	Not Set	
Auxiliary Switches CSM	Feature not present / Absent	
Sound Horn with Remote Lock CSM	Feature 2 - 3 option / Option_2_3	
Auto Door Unlock CSM	Set	
Rear Camera CSM	Set	
Electric Power Steering CSM	Not Set	
Easy Exit Seat CSM	Not Set	
Auto High Beam CSM	Not Set	
Sound Horn with Remote Start CSM	Set	
Air Suspension Warning CSM	Not Set	
Police Passive Entry Settings CSM	Not Set	
Tire Jack Mode CSM	Not Set	
Navigation Turn-by-Turn CSM	Set	
Unit of Capacity CSM	Not Set	
Compass Calibration CSM	Not Set	
Sound Horn with Remote Lower CSM	Not Set	
Park Assist Brake CSM	Not Set	
Power Liftgate Chime CSM	Not Set	
Flash Lights with Remote Lower CSM	Not Set	
Unit of Distance CSM	Not Set	
Hill Start Assist CSM	Set	
Passive Entry CSM	Not Set	
Park Assist Front Volume CSM	Not Set	
Adaptive Front Light System CSM	Not Set	
Headlamps On with Wipers CSM	Set	
Ambient Dimmer CSM	Not Set	
Illuminated Approach CSM	Set	
Auto Park CSM	Not Set	
Flash Lamps with Lock CSM	Set	
Automatic Aero Mode CSM	Not Set	
Headlamp Drop CSM	Not Set	
Blind Spot Alert CSM	Not Set	
Performance Shift RPM CSM	Not Set	
EPB Service Mode CSM	Not Set	
Headlamp Off Delay CSM	Set	
Park Assist CSM	Feature 1 - 2 option / Option_1_2	
DRL CSM	Not Set	
Consumption Unit CSM	Not Set	
Compass Variance CSM	Not Set	
Auto Door Lock CSM	Set	
Performance Shift Enable CSM	Not Set	
Power Accessory Delay CSM	Set	

Unit of Power CSM	Not Set	
Clock Display CSM	Not Set	
Auto Entry Exit Mode CSM	Not Set	
Forward Collision Warning CSM	Feature not present / Absent	
RKE Linked to Memory CSM	Not Set	
Unit of Speed CSM	Not Set	
Trailer Name CSM	Not Set	
RKE Unlock CSM	Set	
Trailer Type CSM	Set	
Fuel Saver CSM	Not Set	
Trailer Selected CSM	Set	
Tilt Mirror in Reverse CSM	Not Set	
Transport Mode CSM	Not Set	
Wheel Alignment CSM	Not Set	
Rear View Camera Delay CSM	Set	
Unit of Torque CSM	Not Set	
US/Metric CSM	Set	
Radio Speaker Open Circuit Disable (RR)	Not Set	
Radio Speaker Open Circuit Disable (LR)	Not Set	
ANC Calibration Parameter Data Set	EEEE	
Radio Speaker Open Circuit Disable (LF)	Not Set	
Radio Speaker Open Circuit Disable (RF)	Not Set	
Headlamp Delay Time	30	seconds
Accessory Delay Time	45	seconds
EC Mirror Auto Dim Enabled	Set	
Daytime Running Lamps	Set	
Auto Wipers	Not Set	
Headlamps on with Wipers	Set	
Auto Lock	Set	
Flash Lamps on Lock	Set	
Sound Horn on Lock	Set	
Dynamic Gridlines Enabled	Set	
Remote lowering lights enabled	Not Set	
Remote lowering horn enabled	Not Set	
Sound Horn on Remote Start	Set	
Sound Horn On Lock Status	Chirp on 1st press/FIRST	
Auto Highbeam	Not Set	
Static Gridlines Enabled	Not Set	
Illuminated Approach Time	30	seconds
Auto Relock Enabled	Set	
Auto Unlock	Set	
Compass Mounting Angle	0	Degree
ECC_AHBM Present	Not Set	
Auto Relock Time	60	seconds

Humidity Sensor Present	Not Set	
EOM Present	Set	
Reserved(IBS Present)	Set	
Alert no Reply	Not Set	
DC to DC Converter #2 Present	Not Set	
Illuminated Approach Interior Lighting Target Percentage	150 (75%)	
Fobik Safe Alerts Per Ignition Cycle	2	
CRVMM Present	Not Set	
Manual Trans Present	Not Set	
Alert On Search Timeout	Not Set	
Illuminated Approach Interior Lighting Ramp Up Time	150 (3000 ms)	
Alert On System Fault	Not Set	
Panic Enable	Set	
Snow Plow Enable	Not Set	
DC to DC Converter Present	Not Set	
Washer Fluid Level Voltage Threshold	4.46 volts	
VTA System Present	No Security	
Illuminated Approach Taillamp Target Percentage	165 (82.50%)	
UCONNECT Access Mirror Buttons Present	Set	
ASBM Present	Set	
Compass Mounting Orientation	Upside Down	
RCM Present	Not Set	
Illuminated Approach Headlamp Target Percentage	165 (82.50%)	
PDM	Set	
VTM	Not Set	
VES3	Not Set	
HVAC	Set	
ETM	Not Set	
PLGM	Not Set	
ICS	Set	
AMP	Set	
BCM (Interior Bus)	Set	
HSM	Set	
DDM	Set	
VES2	Not Set	
ITM	Not Set	
LBSM	Not Set	
RBSM	Not Set	
MSM	Not Set	
Radio	Set	
Left Rear Corner Voltage	13 Volts	
Right Side DRL Voltage Target	7.4 Volts	
Right High Beam Voltage Regulation	14.2 Volts	
Left Front Corner Voltage	13 Volts	

Auto Headlamp Off Threshold	2.54930	Volt
Right Front Corner Voltage	13 Volts	
Left High Beam Voltage Regulation	14.2 Volts	
Auto Headlamp On Threshold	3.31409	Volt
Right Rear Corner Voltage	13 Volts	
Left Low Beam Voltage Regulation	14 Volts	
Left Side DRL Voltage Target	7.4 Volts	
Right Low Beam Voltage Regulation	14 Volts	
ITM ecu configuration B	00	
Ultrasonics	Not Set	
Siren	Not Set	
Tilt	Not Set	
CBC_AUX5_HLEnbl	Disabled (0)	
Rear View Camera Static Grid Lines Enabled	Not Set	
Rear View Camera Dynamic Grid Lines Enabled	Set	
CBC_AUX4_HLEnbl	enabled (1)	
CBC_AUX3_HLEnbl	enabled (1)	
CBC_AUX2_PWRMD	Battery (1)	
CBC_AUX1_PWRMD	Battery (1)	
CBC_AUX5_Type	Latching (0)	
IBS Activate MWU	Not Set	
Battery Types	Battery ID 4	
IBS Standby Time	7620	seconds
IBS Minimal Charge Limit	10	AmpHrs
IBS Minimum Voltage Limit	5.0	Volts
IBS Minimum Charge Limit	600	mA
IBS Quiescence Current Limit	-250	mA
ORC Configuration LSB Byte bit4	False	
BUX vehicle	False	
ORC - Calibration Selection	DS 2 door, DJ 4 door	
ODS Present	False	
ORC Configuration LSB Byte bit5	False	
EPP	False	
ORC - Special Type	DS 2 door, DJ 4 door	
PTS	Set	
ESM	Not Set	
ORC	Set	
VSIM	Not Set	
TCM	Not Set	
SCCM	Set	
ELSD	Not Set	
RFH	Set	
FFCM	Not Set	
PCM	Set	

ABS	Set	
ASCM	Not Set	
TPM	Not Set	
BCM (PT)	Set	
ACC	Not Set	
AHLM/AFLS	Not Set	
ADCM	Not Set	
IPC	Set	
FDCM	Not Set	
EPS	Not Set	
DTCM	Set	
ITBM	Set	
Reserved (ESCL Usage)	T120 Park LSD Ground Active	
IOD HSD Relay On Usage	SNOW PLOW LEFT TURN (0)	
Right Rear Door Ajar Switch Signal Usage	Disable	
IOD HSD Relay Off Usage	SNOW PLOW RIGHT TURN (0)	
Reserved (IOD RELAY OFF LSD Usage)	SNOW PLOW PARK LAMP RELAY	
Reserved (BACKUP-REVERSE LAMP RT)	Set	
Reserved(BAGGAGE COMP LAMPS Usage)	Truck Cargo Lamps	
Right Rear Fog Lamp/High Beam Shutter	Output Disable	
ANALOG SPARE INPUT #1 Usage	SUNSHADE SW (1)	
Spare LSD Relay #2 Usage	Snow Plow Park Lamp Control	
Reserved (ESM Usage)	TOPPER CHMSL	
Right High Beam Feed Usage	Right High Beam (0)	
Left Rear Fog Lamp/High Beam Shutter	Output Disable	
Reserved (HARDTOP STEALTH Usage)	DRIVER INSIDE HANDLE SW ZD	
Spare LSD Relay #1 Usage	Snow Plow Low Beam Control	
Front Passenger Door Ajar Switch Signal Usage	Disable	
Left High Beam Feed Usage	Left High Beam (0)	
IOD LSD Relay On Usage	Snow Plow High Beam Control	
Reserved (BACKUP-REVERSE LAMP LT)	Set	
Reserved (TRUNK/FLIPPER GLASS REL SW Usage)	Upfitter Combined Function	
Reserved(THATCHAM UNLOCK Usage)	RAM BOX/TAIL GATE (+)	
Stop-Start Enable Switch Present	Not Set	
Reserved (TURN SIG RR LT (Second Reverse Lamp))	Left Rear Turn Signal	
Front Driver Door Ajar Switch Signal Usage	Disable	
Reserved(THATCHAM LOCK Usage)	RAM BOX /TAIL GATE(-)	
Left Rear Door Ajar Switch Signal Usage	Disable	
Hood Ajar Switch Signal Usage	1K parallel resistor	
Reserved (TURN SIG RR RT (Second Reverse Lamp))	Right Rear Turn Signal	

**HSM CONFIGURATION**

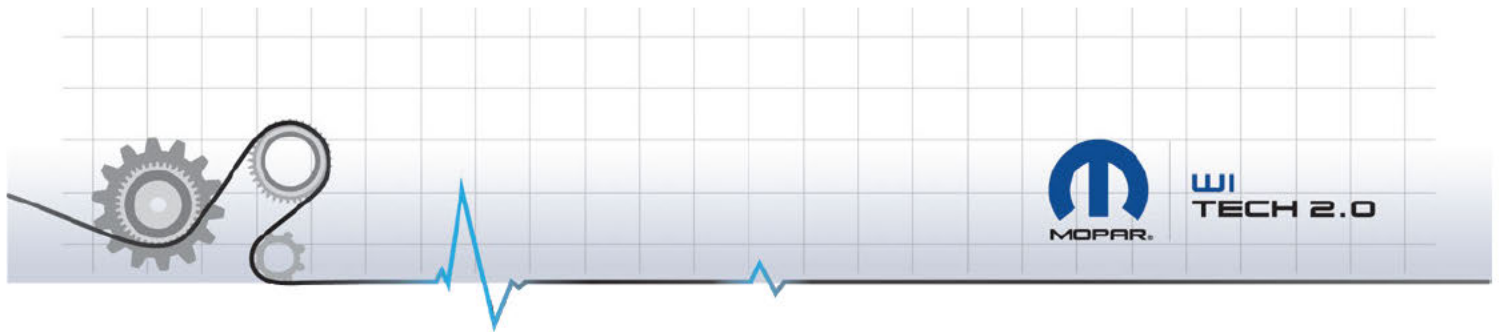
NAME	VALUE	UNITS
Left Front Heated Seat	True	

Right Front Heated Seat	True	
Vehicle Line P-Series	False	
Left Rear Heated Seat	False	
Vehicle Line R-Series	False	
Left Front Vented Seat	False	
Heated Steering Wheel	True	
Vehicle Line D-Series	True	
Vehicle Line W-Series	False	
Right Rear Heated Seat	False	
Vehicle Line J-Series	False	
Vehicle Line M-Series	False	
Vehicle Line L-Series	False	
Vehicle Line U-Series	False	
Right Front Vented Seat	False	

## RADIO CONFIGURATION

NAME	VALUE	UNITS
GPS on the Bus messaging Authorization	Allowed	
Compass on the bus messaging Authorization	Allowed	
Suspend Day	00	
Satellite Subscription ID	HEDV9AM5	
Suspend Month	00	
Suspend Year	00	
Reason Code	02	
Satellite Subscription Status	Subscribed	
NAV Activation Request Code	ET85B0E9L7TCLM5BQFMHFD	
SD Card Readers Detected	—	No Unit
USB Hubs Detected	—	No Unit
Aux Jack	—	
Enumerated USB Devices	—	No Unit
DTV Short Term Configuration	Disabled	
911 Button	On	
12/24 Time Selection	12 Hour Time	
Front Seat Video Playback	Enabled	
Cabin EQ Curve Number Currently Used by Radio	DF	
Automated Loudness	Off	
Clock Defeat	Off	
Anti-Theft Enable Status	On	
FM Diversity	False	
Navigation Active	True	
Application Framework	True	
SDARS	True	
Bluetooth	True	
Cellular	True	

Wi-Fi	True
Internal CD Player	False
Market Selection Configuration	02
Splash Screen	Automatic



## ECU DETAILS REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:21:45 AM

### ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
PCM	Powertrain Control Module	CAN-C	32370731AE	[REDACTED]	[REDACTED]	32370731AE
ICS	Integrated Center Stack	CAN-I	1UJ97DX9AJ	[REDACTED]	[REDACTED]	1UJ97DX9AJ
RFH	Radio Frequency Hub	CAN-C	68319677AB	[REDACTED]	[REDACTED]	68319677AB
ABS	Anti Lock Brakes	CAN-C	68306179AB	[REDACTED]	[REDACTED]	68306179AB
DTCM	Drive Train Control Module	CAN-C	68250127AA	[REDACTED]	[REDACTED]	68250127AA
ORC	Occupant Restraint	CAN-C	68346749AB	[REDACTED]	[REDACTED]	68346749AB
HVAC	Heat, Ventilation and A/C	CAN-I	68268187AA	[REDACTED]	[REDACTED]	68268187AA
DDM	Driver Door Module	CAN-I	68286791AA	[REDACTED]	[REDACTED]	68286791AA
PDM	Passenger Door Module	CAN-I	68286790AA	[REDACTED]	[REDACTED]	68286790AA
AMP	Amplifier	CAN-I	68267099AB	[REDACTED]	[REDACTED]	68267099AB
IPC	Instrument Panel Cluster	CAN-C	68302591AD	[REDACTED]	[REDACTED]	68302591AD
PTS	Parktronics	CAN-C	68204477AD	[REDACTED]	[REDACTED]	68204477AD
SCCM	Steering Column Control Module	CAN-C	68110740AE	[REDACTED]	[REDACTED]	68110740AE
BCM	Body Controller	CAN-C	68320320AC	[REDACTED]	[REDACTED]	68320319AC
DCU	Dosing Control Unit	CAN-C	68313041AA	[REDACTED]	[REDACTED]	68313041AA
HSM	Heated Seat Module	CAN-I	68217263AD	[REDACTED]	[REDACTED]	68217263AD
RADIO	Radio	CAN-I	68270661AH	[REDACTED]	[REDACTED]	68270661AH
ITBM	Integrated Trailer Brake Module	CAN-C	68288760AB	[REDACTED]	[REDACTED]	68288760AB
VGT	Variable Geometry Turbo	CAN-C	68213171AC	[REDACTED]	[REDACTED]	68213171AC

### ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	VARIANT	VERSION	ISO CODE
PCM	USA	00	17	24	08	
ICS	USA	0C 1A 42	0D 1E 1E	41	00	

RFH	USA	0D 20 01	10 20 01	41	04
ABS		10 09 00	10 09 01	40	08
DTCM	USA	10 11	05 01 09	40	02
ORC	USA	0C 25 02	11 30 00	42	01
HVAC	USA	0D 12 04	0E 30 00	42	01
DDM	USA / USA	14 45 00	15 12 00	41	02
PDM	USA	14 45 00	15 12 00	41	02
AMP	USA	13 21 01	0F 25 00	40	05
IPC	USA / USA	05 02 03	10 27 01	42	01
PTS	USA	08 33 01	0E 28 01	41	05
SCCM	USA	0A 2E 04	0B 26 00	41	01
BCM	USA	0D 11 00	12 06 40	43	05
DCU	—	0C 18 00	0E 21 00	02	00
HSM	USA / USA	0D 0E 00	0F 08 00	40	02
RADIO	USA	0F 28 00	11 2B 01	80	02
ITBM	USA	10 0E 02	10 0E 40	40	00
VGT		0D 06 00	0E 02 00	01	00

## PCM DETAILS

NAME	VALUE
Serial Number	00 6D AE 34
Software (Code) Part Number	32370731AE
Body Style	4-Door Mega Pickup
Country Code	USA
Model Year	17
Vehicle Line	DJ
VIN (Current)	██████████
Software Version (Middle)	02
Diagnostic Version	08
Supplier ID	Cummins
Software Version (Minor)	02
Variant ID	CM2350-\$24
Software Version (Major)	17
Production/Development Status	Production
ECU Part Number	32370731AE
ECU Origin	DCA
VIN (Original)	██████████
Nox Heater Ratios Supported	False
Fan Actuation Test Supported	False
DEF Type Supported	False
Software (Boot) Part Number	00000000AA
Reprogramming Attempt Counter	0

## ICS DETAILS

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NAME	VALUE
Active Diagnostic Variant	41
Active Diagnostic Version	00
ECU Part Number	1UJ97DX9AJ
VIN Original	██████████
VIN Current	██████████

## RFH DETAILS

NAME	VALUE
ECU Part Number	68319677AB
Model Year	2017
Vehicle Line	DJ
Country Code	USA
Body Style	4-Door Mega Pickup
VIN Original	██████████
Software Logical Block #0 Part Number	17DS0809AA
Software Logical Block #1 Part Number	14DS0731CA
Software Logical Block #2 Part Number	yyyyyyyyyy
ECU Serial Number	T1N333620680AA
Hardware Version - Minor	01
Hardware Version - Middle	20
Hardware Version - Major	0D
ECU Software Mode	Running in Application
Diagnostic Variant	41
Diagnostic Version	4
Active Diagnostic Session	1
Hardware Supplier	TRW
Software Supplier	TRW
Hardware Part Number	68319677AB
Software Version - Week - Block 0	32
Software Version - Patch Level - Block 1	1
Software Version - Patch Level - Block 0	1
Software Version - Year - Block 0	16
Software Version - Week - Block 1	31
Software Version - Year - Block 1	13

## ABS DETAILS

NAME	VALUE
VIN Original	██████████
Hardware Part Number	68306179AB
Software Part Number	68306179AB
ECU Serial Number	TW5HI2996B5255
Active Diagnostic Version	08
Active Diagnostic Variant	40

ECU Part Number	68306179AB
VIN Current	[REDACTED]

### DTCM DETAILS

NAME	VALUE
Software (Code) Part Number	68250127AA
VIN (Original)	[REDACTED]
ECU Part Number	68250127AA
Diagnostic Version	02
Software Version (Major/Middle/Minor)	05 01 09
Variant ID	40
Hardware Version (Major/Minor)	10 11
VIN (Current)	[REDACTED]
Serial Number	T3DYC3426234KR

### ORC DETAILS

NAME	VALUE
Active Diagnostic Version	01
Gateway	False
Active Diagnostic Variant	42
ECU Software Mode	Running in Application
ECU Serial Number	T52MD342601849
Model Year	2017
Body Style	4-Door Mega Pickup
Country Code	USA

### HVAC DETAILS

NAME	VALUE
Active Diagnostic Version	01
Active Diagnostic Session	Default
ECU Software Mode	Running in Application
Active Diagnostic Variant	42
Gateway	False
ECU Part Number	68268187AA

### DDM DETAILS

NAME	VALUE
Serial Number	TDS5A320601K1E
Active Diagnostic Variant	41
Active Diagnostic Version	02
VIN Original	[REDACTED]
ECU Part Number	68286791AA
VIN Current	[REDACTED]
Hardware Part Number	68286791AA

Software Part Number	68286791AA
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**PDM DETAILS**

NAME	VALUE
Serial Number	TDS6A303601H8C
Country Code	USA
Vehicle Line	DJ
Model Year	17
VIN Original	
Hardware Part Number	68286790AA
VIN Current	
Gateway	False
Active Diagnostic Version	02
Active Diagnostic Variant	41
Active Diagnostic Session	Default
Software Part Number	68286790AA
ECU Part Number	68286790AA

**AMP DETAILS**

NAME	VALUE
ECU Part Number	68267099AB
Vehicle Line	DJ
Model Year	2017
VIN Original	
EQ Software Version	151100
VIN Current	
Active Diagnostic Variant	40
Active Diagnostic Version	05

**IPC DETAILS**

NAME	VALUE
Active Diagnostic Version	1
Active Diagnostic Variant	42
Hardware Part Number	68302591AD
ECU Part Number	68302591AD
Vehicle Line	DJ
Model Year	2017
Body Style	4 - Door MEGA Pickup
Country Code	USA / USA
VIN Original	

**PTS DETAILS**

NAME	VALUE
VIN Original	

Active Diagnostic Variant	41
Active Diagnostic Session	Default
ECU Software Mode	Running in Application
Active Diagnostic Version	05
VIN Current	██████████
ECU Part Number	68204477AD

## SCCM DETAILS

NAME	VALUE
ECU Software Mode	Running in Application
Gateway	True
Active Diagnostic Variant	41
Active Diagnostic Version	1
Active Diagnostic Session	Default
ECU Part Number	68110740AE
Hardware Supplier Identification	Delphi
Model Year	2017
Vehicle Line	DJ
Body Style	4-Door Mega Pickup
Country Code	USA
Software Logical Block Supplier Identification	Delphi
VIN Current	██████████
VIN Original	██████████

## BCM DETAILS

NAME	VALUE
VIN Current	██████████
Model Year	2017
Country Code	USA
Vehicle Line	DJ
Body Style	4-Door Mega Pickup
ECU Part Number	68320319AC
VIN Original	██████████
Hardware Part Number	68320319AB
Software Logical Block #0 Part Number	68320320AC
Hardware Supplier Identification	Continental
ECU Serial Number	T1C341693704
Active Diagnostic Variant	43
Active Diagnostic Version	05
Boot SW - Week	37
Boot SW - Year	14
Boot SW - Patch Level	0
HW - Year	13
HW - Patch Level	0

HW - Week	17
SW - year	18
SW - week	6
SW - Patch Level	64

### DCU DETAILS

NAME	VALUE
ECU Part Number	68313041AA
HW - Year	0C
HW - Week	24
HW - Patch Level	00
SW - year	14
SW - week	33
SW - Patch Level	0
Active Diagnostic Variant	2
Active Diagnostic Version	0

### HSM DETAILS

NAME	VALUE
ECU Part Number	68217263AD
Hardware Part Number	68217263AD
Hardware Supplier Identification	Continental
VIN Current	██████████
Gateway	False
ECU Software Mode	Running in Application
Software Part Number	68217263AD
Model Year	2017
Country Code	USA / USA
Body Style	4 - door MEGA pickup / BODY_4DMP
Vehicle Line	DJ
Software Logical Block Supplier Identification	Continental

### RADIO DETAILS

NAME	VALUE
SMS Destination Number	
Secondary Uconnect Guardian Number	
ECU Serial Number	T00BE315674604
Primary Uconnect Guardian Number	
ECU Sw Version Number	36193
ECU Sw Number	17.43.01.00
ECU Hw Version Number	255
ECU Part Number	68270661AH
Software Part Number	17430184AA
VIN Current	██████████

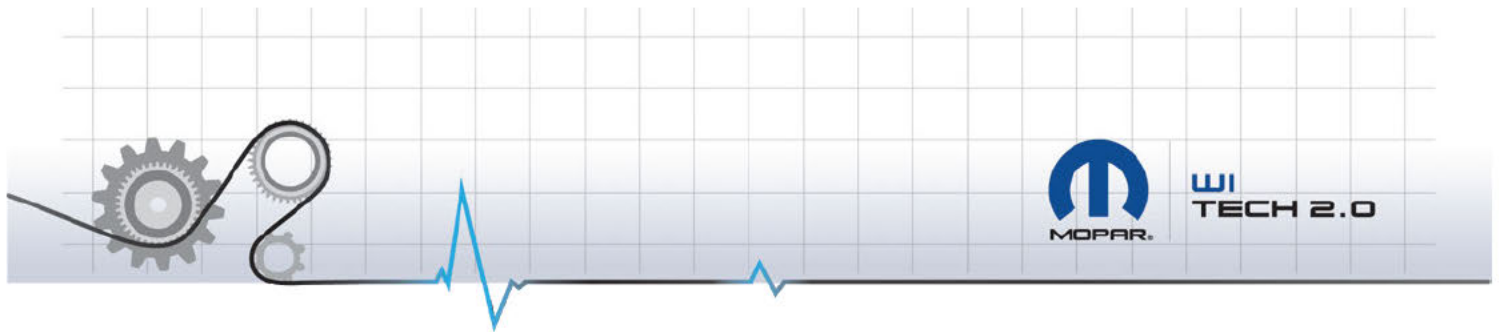
Active Diagnostic Variant	80
Active Diagnostic Version	02
Sales Code	RA4
Model Year	2017
Vehicle Line	DJ
Country Code	USA
Body Style	4-Door Mega Pickup
Hardware Part Number	0003071731

**ITBM DETAILS**

NAME	VALUE
ECU Part Number	68288760AB
VIN Current	
VIN Original	
Gateway	False
Active Diagnostic Session	Default
ECU Software Mode	Running in Application
Active Diagnostic Version	00
Active Diagnostic Variant	40

**VGT DETAILS**

NAME	VALUE
Hardware Part Number	0003788936
ECU Part Number	68213171AC
Software Logical Block #0 Part Number	68213171AC
HW - Year	2013
HW - Week	6
HW - Patch Level	00
SW - year	14
SW - week	2
SW - Patch Level	0
Active Diagnostic Variant	1
Active Diagnostic Version	0



## EVENT DATA REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:21:56 AM

### EVENT DATA 1

**DESCRIPTION: P0868 LINE PRESSURE LOW | ECU: PCM**

NAME	VALUE	UNITS
TCC Unlock	True	
UD Clutch State	Clutch applied	
Output Speed	224	rpm
Turbine Torque	157	lbft
Speed Check Fault Counter	0	Counts
Engine Controller Temperature	100.390625	°F
Lockup Fault Counter	0	Counts
Underdrive Pressure Switch Fault Counter	0	Counts
Low Reverse Pressure Switch Fault Counter	0	Counts
Target Gear	1st Gear	
Trans. thermistor data valid	True	
4C Clutch Volume Index	43	
Odometer	99.4	miles
Speed Check Logical Shut Down Counter	0	Counts
Speed control on	False	
Solenoid switch valve in downshift position	False	
Time Since Start	25.82	seconds
PRNDL Code	Drive	
Shift Lever Position	Drive	
LR Clutch Fill Volume Index	89	
Time Since Last Shift	0.000	seconds
Turbine Speed	1048	rpm
UD Pressure Switch	Closed	
4C Pressure Switch Fault Counter	0	Counts
Engine Coolant Temperature	71.593750	°F
Low Reverse	True	
Throttle Angle	10.013	degrees
2C Pressure Switch	Open	
Solenoid Switch Valve Forced out of LR	False	
UD Clutch Volume Index	49	

Starts Since Previous DTC or Batt Disconnect	29	
Line Pressure Duty Cycle	0.000000000	%
4C Pressure Switch	Open	
DTC	08 68	
Engine Torque	155	lbft
Present Gear	Neutral	
Fault Code	P0868 Line Pressure Low	
LR/CC Pressure Switch	Open	
Desired Line Pressure Open Loop Pressure Counter	0	Counts
Brakes On	False	
Vehicle Speed	6	MPH
PRNDL Position Displayed	Off	
2C Clutch Volume Index	39	
Transfer Case in Low	False	
Torque Converter Desired Slip	999	rpm
Engine Speed	1152	rpm
Transmission Oil Temperature	68.375000	°F
OD Clutch Volume Index	52	
Desired Line Pressure	120	PSI
Electronic Range Select Gear	7	
Current/Last Shift Performed	Neutral to 1st	
Output Tooth Count	6392144	Teeth
Battery Volts	14.3	V
4C Clutch state	Clutch Not applied	
OD Clutch State	Clutch Not applied	
TCC Full Lockup	False	
Snapshot of LSF	False	
Desired Line Pressure Counter	0	Counts
LR clutch state	Clutch Not applied	
Pressure Switch Fault Counter	0	Counts
2C Clutch state	Clutch Not applied	
Line Pressure	30	PSI
2C Pressure Switch Fault Counter	0	Counts
TCC Parital Lockup	False	
OD Pressure Switch	Open	
FS/LR Clutch State	Clutch Not applied	
Overdrive Pressure Switch Fault Counter	0	Counts
PRNDL Data Error	False	

**EVENT DATA 2**

DESCRIPTION: | ECU: PCM

NAME	VALUE	UNITS
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**EVENT DATA 3**

DESCRIPTION: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

**EVENT DATA 4**

DESCRIPTION: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

**EVENT DATA 5**

DESCRIPTION: | ECU: PCM

NAME	VALUE	UNITS
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**EVENT DATA 6**

DESCRIPTION: P0868 LINE PRESSURE LOW | ECU: PCM

NAME	VALUE	UNITS
TCC Full Lockup	False	
Time Since Start	25.82	seconds
2C Pressure Switch	Open	
Throttle Angle	10.013	degrees
Engine Speed	1152	rpm
Trans. thermistor data valid	True	
TCC Unlock	True	
Engine Coolant Temperature	71.593750	°F
Fault Code	P0868 Line Pressure Low	
Battery Volts	14.3	V
Pressure Switch Fault Counter	0	Counts
Current/Last Shift Performed	Neutral to 1st	
4C Clutch Volume Index	43	
4C Pressure Switch	Open	
Desired Line Pressure Open Loop Pressure Counter	0	Counts
DTC	08 68	
PRNDL Position Displayed	Off	
Overdrive Pressure Switch Fault Counter	0	Counts
Engine Controller Temperature	100.390625	°F
Speed Check Fault Counter	0	Counts
Time Since Last Shift	0.000	seconds
Desired Line Pressure	120	PSI
Present Gear	Neutral	
Line Pressure Duty Cycle	0.000000000	%
4C Pressure Switch Fault Counter	0	Counts
Transfer Case in Low	False	
LR clutch state	Clutch Not applied	
Solenoid Switch Valve Forced out of LR	False	
Speed Check Logical Shut Down Counter	0	Counts
LR/CC Pressure Switch	Open	
2C Clutch state	Clutch Not applied	

2C Pressure Switch Fault Counter	0	Counts
UD Clutch Volume Index	49	
Engine Torque	155	lbft
PRNDL Data Error	False	
OD Clutch Volume Index	52	
Low Reverse Pressure Switch Fault Counter	0	Counts
Speed control on	False	
Underdrive Pressure Switch Fault Counter	0	Counts
Vehicle Speed	6	MPH
LR Clutch Fill Volume Index	89	
Snapshot of LSF	False	
Shift Lever Position	Drive	
2C Clutch Volume Index	39	
Turbine Speed	1048	rpm
UD Pressure Switch	Closed	
Lockup Fault Counter	0	Counts
OD Clutch State	Clutch Not applied	
Solenoid switch valve in downshift position	False	
Desired Line Pressure Counter	0	Counts
OD Pressure Switch	Open	
Electronic Range Select Gear	7	
Turbine Torque	157	lbft
Starts Since Previous DTC or Batt Disconnect	29	
Target Gear	1st Gear	
Line Pressure	30	PSI
Output Speed	224	rpm
FS/LR Clutch State	Clutch Not applied	
Torque Converter Desired Slip	999	rpm
Low Reverse	True	
TCC Parital Lockup	False	
Brakes On	False	
4C Clutch state	Clutch Not applied	
UD Clutch State	Clutch applied	
Odometer	99.4	miles
Transmission Oil Temperature	68.375000	°F
PRNDL Code	Drive	
Output Tooth Count	6392144	Teeth



## FREEZE FRAME REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:22:50 AM

### FREEZE FRAME #1

CODE: | ECU: PCM

NAME	VALUE	UNITS
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### FREEZE FRAME #2

CODE: | ECU: PCM

NAME	VALUE	UNITS
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### FREEZE FRAME #3

CODE: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

### FREEZE FRAME #4

CODE: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

### FREEZE FRAME #5

CODE: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

### FREEZE FRAME #6

CODE: | ECU: PCM

NAME	VALUE	UNITS
------	-------	-------

### FREEZE FRAME #7

CODE: | ECU: PCM

NAME	VALUE	UNITS
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### FREEZE FRAME #8

CODE: | ECU: PCM

NAME	VALUE	UNITS
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## VEHICLE HEALTH REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:22:35 AM

### ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
PCM	Powertrain Control Module	CAN-C	32370731AE	[REDACTED]	[REDACTED]	32370731AE
ICS	Integrated Center Stack	CAN-I	1UJ97DX9AJ	[REDACTED]	[REDACTED]	1UJ97DX9AJ
RFH	Radio Frequency Hub	CAN-C	68319677AB	[REDACTED]	[REDACTED]	68319677AB
ABS	Anti Lock Brakes	CAN-C	68306179AB	[REDACTED]	[REDACTED]	68306179AB
DTCM	Drive Train Control Module	CAN-C	68250127AA	[REDACTED]	[REDACTED]	68250127AA
ORC	Occupant Restraint	CAN-C	68346749AB	[REDACTED]	[REDACTED]	68346749AB
HVAC	Heat, Ventilation and A/C	CAN-I	68268187AA	[REDACTED]	[REDACTED]	68268187AA
DDM	Driver Door Module	CAN-I	68286791AA	[REDACTED]	[REDACTED]	68286791AA
PDM	Passenger Door Module	CAN-I	68286790AA	[REDACTED]	[REDACTED]	68286790AA
AMP	Amplifier	CAN-I	68267099AB	[REDACTED]	[REDACTED]	68267099AB
IPC	Instrument Panel Cluster	CAN-C	68302591AD	[REDACTED]	[REDACTED]	68302591AD
PTS	Parktronics	CAN-C	68204477AD	[REDACTED]	[REDACTED]	68204477AD
SCCM	Steering Column Control Module	CAN-C	68110740AE	[REDACTED]	[REDACTED]	68110740AE
BCM	Body Controller	CAN-C	68320320AC	[REDACTED]	[REDACTED]	68320319AC
DCU	Dosing Control Unit	CAN-C	68313041AA	[REDACTED]	[REDACTED]	68313041AA
HSM	Heated Seat Module	CAN-I	68217263AD	[REDACTED]	[REDACTED]	68217263AD
RADIO	Radio	CAN-I	68270661AH	[REDACTED]	[REDACTED]	68270661AH
ITBM	Integrated Trailer Brake Module	CAN-C	68288760AB	[REDACTED]	[REDACTED]	68288760AB
VGT	Variable Geometry Turbo	CAN-C	68213171AC	[REDACTED]	[REDACTED]	68213171AC

### ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	VARIANT	VERSION	ISO CODE
PCM	USA	00	17	24	08	
ICS	USA	0C 1A 42	0D 1E 1E	41	00	

RFH	USA	0D 20 01	10 20 01	41	04
ABS		10 09 00	10 09 01	40	08
DTCM	USA	10 11	05 01 09	40	02
ORC	USA	0C 25 02	11 30 00	42	01
HVAC	USA	0D 12 04	0E 30 00	42	01
DDM	USA / USA	14 45 00	15 12 00	41	02
PDM	USA	14 45 00	15 12 00	41	02
AMP	USA	13 21 01	0F 25 00	40	05
IPC	USA / USA	05 02 03	10 27 01	42	01
PTS	USA	08 33 01	0E 28 01	41	05
SCCM	USA	0A 2E 04	0B 26 00	41	01
BCM	USA	0D 11 00	12 06 40	43	05
DCU	—	0C 18 00	0E 21 00	02	00
HSM	USA / USA	0D 0E 00	0F 08 00	40	02
RADIO	USA	0F 28 00	11 2B 01	80	02
ITBM	USA	10 0E 02	10 0E 40	40	00
VGT		0D 06 00	0E 02 00	01	00

## FLASHES

### PCM | 2017 DJ D2 6.7L PCM 68RFE 50 STATE ENG REF: 53041216AE

#### APPLICABLE BULLETINS

FLASH #	TYPE	RRT #	DESCRIPTION
18-052-18	TSB		Flash: Powertrain Diagnostic and System Improvements
25-001-18	TSB		Flash: Dosing Control Unit Diagnostic and System Improvements

### DCU | 2016 - 2018 D2 DJ DD DP DF DCU

#### APPLICABLE BULLETINS

FLASH #	TYPE	RRT #	DESCRIPTION
25-001-18	TSB		Flash: Dosing Control Unit Diagnostic and System Improvements

## RRTS

RRT #	DESCRIPTION	STATUS
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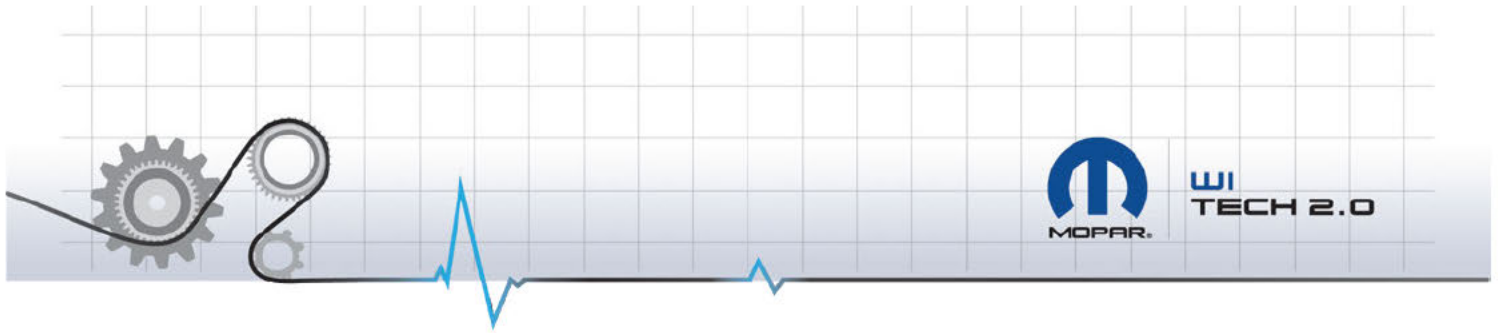
## RECALLS

RECALL #	DESCRIPTION	STATUS
T79	Safety Recall T79 - Brake Transmission Shift Interlock	Complete
U74	Safety Recall U74 - Tailgate Latch	Incomplete
U53	Customer Satisfaction Notification U53 - Occupant Restraint Control Module	Incomplete
V06	Safety Recall V06 - Drag Link	Incomplete

## DTC SUMMARY

ECU	DTC CODE	DTC DESCRIPTION	STATUS
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## ENVIRONMENTAL DATA SUMMARY



## VEHICLE SCAN REPORT

**Vehicle** 2017 RAM 2500 PICKUP 6.7L I6 CUMMINS TURBO DIESEL  
**VIN** [REDACTED]

**Odometer** 9815.7 miles  
**Publication Date** Feb 26, 2019, 11:22:24 AM

### ECU SUMMARY INFO

ECU	NAME	BUS TYPE	FLASH PART #	CURRENT VIN	ORIGINAL VIN	PART #
PCM	Powertrain Control Module	CAN-C	32370731AE	[REDACTED]	[REDACTED]	32370731AE
ICS	Integrated Center Stack	CAN-I	1UJ97DX9AJ	[REDACTED]	[REDACTED]	1UJ97DX9AJ
RFH	Radio Frequency Hub	CAN-C	68319677AB	[REDACTED]	[REDACTED]	68319677AB
ABS	Anti Lock Brakes	CAN-C	68306179AB	[REDACTED]	[REDACTED]	68306179AB
DTCM	Drive Train Control Module	CAN-C	68250127AA	[REDACTED]	[REDACTED]	68250127AA
ORC	Occupant Restraint	CAN-C	68346749AB	[REDACTED]	[REDACTED]	68346749AB
HVAC	Heat, Ventilation and A/C	CAN-I	68268187AA	[REDACTED]	[REDACTED]	68268187AA
DDM	Driver Door Module	CAN-I	68286791AA	[REDACTED]	[REDACTED]	68286791AA
PDM	Passenger Door Module	CAN-I	68286790AA	[REDACTED]	[REDACTED]	68286790AA
AMP	Amplifier	CAN-I	68267099AB	[REDACTED]	[REDACTED]	68267099AB
IPC	Instrument Panel Cluster	CAN-C	68302591AD	[REDACTED]	[REDACTED]	68302591AD
PTS	Parktronics	CAN-C	68204477AD	[REDACTED]	[REDACTED]	68204477AD
SCCM	Steering Column Control Module	CAN-C	68110740AE	[REDACTED]	[REDACTED]	68110740AE
BCM	Body Controller	CAN-C	68320320AC	[REDACTED]	[REDACTED]	68320319AC
DCU	Dosing Control Unit	CAN-C	68313041AA	[REDACTED]	[REDACTED]	68313041AA
HSM	Heated Seat Module	CAN-I	68217263AD	[REDACTED]	[REDACTED]	68217263AD
RADIO	Radio	CAN-I	68270661AH	[REDACTED]	[REDACTED]	68270661AH
ITBM	Integrated Trailer Brake Module	CAN-C	68288760AB	[REDACTED]	[REDACTED]	68288760AB
VGT	Variable Geometry Turbo	CAN-C	68213171AC	[REDACTED]	[REDACTED]	68213171AC

### ECU SUMMARY INFO (CONT...)

ECU	COUNTRY CODE	HARDWARE VERSION	SOFTWARE VERSION	VARIANT	VERSION	ISO CODE
PCM	USA	00	17	24	08	
ICS	USA	0C 1A 42	0D 1E 1E	41	00	

RFH	USA	0D 20 01	10 20 01	41	04
ABS		10 09 00	10 09 01	40	08
DTCM	USA	10 11	05 01 09	40	02
ORC	USA	0C 25 02	11 30 00	42	01
HVAC	USA	0D 12 04	0E 30 00	42	01
DDM	USA / USA	14 45 00	15 12 00	41	02
PDM	USA	14 45 00	15 12 00	41	02
AMP	USA	13 21 01	0F 25 00	40	05
IPC	USA / USA	05 02 03	10 27 01	42	01
PTS	USA	08 33 01	0E 28 01	41	05
SCCM	USA	0A 2E 04	0B 26 00	41	01
BCM	USA	0D 11 00	12 06 40	43	05
DCU	—	0C 18 00	0E 21 00	02	00
HSM	USA / USA	0D 0E 00	0F 08 00	40	02
RADIO	USA	0F 28 00	11 2B 01	80	02
ITBM	USA	10 0E 02	10 0E 40	40	00
VGT		0D 06 00	0E 02 00	01	00

**DTC SUMMARY**

ECU	DTC CODE	DTC DESCRIPTION	STATUS
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**ENVIRONMENTAL DATA SUMMARY****SNAPSHOT DATA SUMMARY**

IMPORTANT NOTICE: Robert Bosch LLC and the manufacturers whose vehicles are accessible using the CDR System urge end users to use the latest production release of the Crash Data Retrieval system software when viewing, printing or exporting any retrieved data from within the CDR program. Using the latest version of the CDR software is the best way to ensure that retrieved data has been translated using the most current information provided by the manufacturers of the vehicles supported by this product.

### CDR File Information

User Entered VIN	[REDACTED]
User	[REDACTED]
Case Number	[REDACTED]
EDR Data Imaging Date	[REDACTED]
Filename	[REDACTED]
Saved on	Tuesday, February 26 2019 at 11:30:54
Imaged with CDR version	Crash Data Retrieval Tool 17.10
Imaged with Software Licensed to (Company Name)	Engineering Analysis Associates
Reported with CDR version	Crash Data Retrieval Tool 17.10
Reported with Software Licensed to (Company Name)	Engineering Analysis Associates
EDR Device Type	Airbag Control Module
Event(s) recovered	None

### Comments

No comments entered.

### Data Limitations

#### AIRBAG CONTROL MODULE (ACM) DATA LIMITATIONS:

#### GENERAL INFORMATION:

CAUTION: During direct-to-module imaging where the Airbag Control Module (ACM) is disconnected and removed from a vehicle, make sure the ACM is not moved, tilted or turned over while connected to and powered by the CDR Interface Module (with appropriate adaptors in place, where required). Also, after a CDR imaging process, wait 2 minutes after power is removed from the ACM before attempting to move the module. Not following these general ACM guidelines for direct-to-module imaging may cause new events to be recorded in the ACM.

- For additional definitions, please refer to the CDR Help File Glossary.
- As the VIN may be used to determine the configuration of the restraint system, it is imperative that the correct VIN be entered into the CDR Tool during the imaging process.
- For Fiat vehicles, the "Read VIN from Vehicle" feature in the CDR Tool will not work. The VIN will have to be manually entered.
- The 2019 MY RAM 1500 may take up to 30 minutes to retrieve the EDR data. The ignition will time out within 20 minutes so the vehicle flashers must be turned on within 20 minutes to keep the ignition and communication bus active.
- Lateral Delta V will not be displayed for the 2013 MY Jeep Compass and Patriot.
- Ignition Cycle, download/crash - For RAMs and Dodge Vipers, there are 2 internal ignition counters in the ACM. It is possible for the ignition cycles at download to be different than the ignition cycles at event due to the 2 different counters.
- The following table provides an explanation of the sign notation for data elements that may be included in this CDR report. All directional references to sign notation are from the perspective of the driver when seated in the vehicle facing the direction of forward vehicle travel.

Data Element Name	Positive Sign Notation Indicates
Delta-V, Longitudinal	Forward
Maximum Delta-V, Longitudinal	Forward
Delta-V, Lateral	Left to Right
Maximum Delta-V, Lateral	Left to Right
Angular Rate	Clockwise rotation around the longitudinal axis
Peripheral Sensors, X and Y	Outside to Inside
Pressure Sensors	Compression of air
Internal Y Acceleration	Left to Right
Low-g Z Acceleration	Downward
Steering Input	Steering wheel turned counter clockwise
Yaw Rate	Counter clockwise rotation

#### CDR FILE INFORMATION:

- An event will be stored when the delta V is approximately 5 mph (8 km/h) or greater within a 150 ms interval.

- For non-NAFTA ACMs that control pedestrian protection devices, a non-deployment event will be stored when the pedestrian protection devices are activated.
- A non-deployment event may be stored with activation of the Active Head Restraints. See AHR explanation under System Configuration at Retrieval/Event section.

**Event(s) Recovered definitions:**

- None - There are no stored events in the ACM
- Not Retrievable - Event Data may be stored in the ACM but is not retrievable by the CDR Tool.
- Most Recent Event - Data of the most recent event is displayed in the report
- 1st Prior Event - Two events are stored in the ACM, Data displayed is of the first prior event.
- 2nd Prior Event - Three events are stored in the ACM, Data displayed is of the second prior event.
- For 2013 and 2014 MY Dodge Journey and Fiat Freemont:
  - Event Record 1 - Data from an event is stored in the ACM (not necessarily in chronological order)
  - Event Record 2 - Data from another event is stored in the ACM (not necessarily in chronological order)
- For TRW modules:
  - If there is a side impact, two EDR events may be stored for the one side impact event. The second event may be recorded due to the Lateral Delta V exceeding 5 mph (8 km/h) within a 150 ms interval after the side deployment occurred.
- For some Fiat vehicles:
  - Two EDR events may be stored for one impact event. The second event may be recorded due to the deployment of the frontal airbag, 3<sup>rd</sup> stage passenger.
- During an event, if power to the ACM is lost, all or part of the event data record may not be recorded. An indication may be observed in the recorded data under this condition: The restraint data is recorded first and then the vehicle data.
  - "None" may be displayed in the "Event(s) Recovered" section of the report indicating no pre-crash vehicle data.
  - An event may be displayed in the "Event(s) Recovered" section of the report and "Interrupted" will be displayed for Pre-Crash Recorder Status.

**SYSTEM STATUS AT RETRIEVAL:**

- Original VIN - The VIN is captured by the ACM and then recorded as the Original VIN after 10 consecutive ignition cycles of capturing the same number. Once it has been recorded, this number cannot be changed.

**SYSTEM CONFIGURATION AT RETRIEVAL/EVENT:**

- The System Configuration data tables indicate the components that the ACM for a particular vehicle monitors and/or controls.
- Active Head Restraint (AHR) - This refers to some active head restraint systems that are electronically controlled by the ACM. AHRs may activate but not store an EDR Record if the delta V does not exceed the minimum delta V threshold. It is possible that the AHRs may activate after the EDR record has been stored and written, based on achieving the minimum delta V. This condition will result in an EDR but no record of the AHR activation in the CDR report. Activation of only the AHRs, if stored, will be a non-deployment event.

**SYSTEM STATUS AT EVENT:**

- Number, Total Events - Cumulative number of events that the ACM has recorded, including those non-deployment events that have been overwritten by a subsequent event.
- Occupant Size Classification, Outboard Front Passenger - "Child" status may be used to indicate anything weighing less than a 5<sup>th</sup> percentile female adult crash dummy, including an empty seat; "Not Child" indicates anything weighing the same as or more than a 5<sup>th</sup> percentile female adult crash dummy.
- Odometer at Event - Vehicle odometer at the time of the event
- Operation via Energy Reserve Only - "Yes" indicates that the ACM had lost power at or before T0 and was only operating on energy reserve at T0.
- System Voltage at Event, ACM - Voltage at the ACM as measured by the ACM.
- System Voltage at Event, Bussed - Voltage of the vehicle system, communicated on the communication bus to other electronic modules in the vehicle.
- Temperature, Outside - Ambient Air Temperature.
- Time, Airbag Warning Lamp On - This is a cumulative time. It indicates the total amount of time that the ACM has requested the Airbag Warning Lamp be turned on.
  - This time does not include the warning lamp bulb check time, which occurs at every ignition cycle
  - For 2013 MY Minivans and new 2017+ MY Jeep Compass, this time is only cumulative for the past 10 ignition cycles.
- Time from event 1 to 2 -
  - If only one event is stored, either a value of 0 or >5 may be displayed for this data element.
  - For the 2018+ MY Promaster and 2019+ MY RAM 1500, a value of 0 may be displayed for the first event or for events >5 seconds apart.
  - If multiple events exist in the EDR, the time from event 1 to event 2 is defined as:
    - For Bosch and TRW modules, the time from the prior recorded event (even if it has been overwritten) to the current recorded event.
    - For Continental modules, the time from the prior existing recorded event (as long as it is still displayed in the CDR report) to the current recorded event. If the prior event in a multi-event condition is overwritten by a subsequent event, the multi-event status will no longer be displayed.
    - For the 2019+ MY RAM 1500, the time from event 1 to 2 may utilize a non-stored event as event 1. In this case, the total number of events and multi-event data elements will not include the non-stored event in the number of events. However, the time from event 1 to 2 will be shown as time from that non-stored event.

- Time, Operation System Time - This is a cumulative lifetime timer for the ACM. It indicates the total amount of time the ACM has been powered up.
- VIN at Event, Last 8 Digits- Last 8 digits of the VIN of the vehicle at the time the ACM records the event.

#### DEPLOYMENT COMMAND DATA:

- A "Yes" for a particular item indicates that the ACM commanded the deployment /activation of the associated device.
- The phrase "Exceeded Storage Range" for a particular time to deploy indicates that the deployment time is equal to or greater than the 255 milliseconds that can be stored.
- If a device is not deployed, the "time to deploy" for that device will display 0, SNA, N/A or 255.

#### DTCs PRESENT AT START OF EVENT:

- If any DTCs (diagnostic trouble codes) are present in the ACM at the start of the event, these will be listed in this section. A dealership service manual can be used to decode the DTCs.
  - DTCs Present at Start of Event are not present in the Alfa Romeo Giulia, Fiat 500X, and the Jeep Renegade.

#### SENSOR DATA:

- The design range for the angular rate data is:
  - +/- 240 deg/sec for Bosch ACMs
  - +/- 300 deg/sec for TRW ACMs, the 2019 MY RAM 1500, and the 2018+ MY Dodge Journey
  - +/- 290 deg/sec for 2008+ MY minivans and 2009-2017 MY Dodge Journey
  - +/- 340 deg/sec for 2017+ MY Chrysler Pacifica and new 2017+ MY Jeep Compass
- For vehicles that store peripheral sensor data, t0 for the peripheral sensors is the same as the t0 for the delta V.
- Internal y acceleration is stored prior to t0 so the internal y acceleration data will usually be zero unless the rollover sensing algorithm has triggered storage of the EDR event.
- The words "Sensor Design Range Exceeded" and a vertical line will be displayed on the Longitudinal and Lateral Delta-V graphs the first time the applicable sensor range is exceeded.

#### PRE-CRASH DATA:

- The recorded Event may contain Pre-Crash data. Pre-Crash data from the various electronic control modules in the vehicle is transmitted to the Airbag Control Module via the vehicle's communication bus.
- (if equip.) - If a parameter name is followed by the words (if equip.), then the parameter is only valid for vehicles equipped with the associated parameter/vehicle system.
- The MIL (Malfunction Indicator Lamp) Status for the various recorded systems indicates the requested state of the applicable malfunction indicator lamp at the time that the data was captured. Note: Some fault codes could be stored due to component/system damage from the accident. The appropriate diagnostic tool should be used to read any stored Diagnostic Trouble Codes (DTC's) in the various electronic modules (ACM, PCM, ABS, TCM, etc., where applicable) for use in interpretation of some vehicle specific recorded data.
- ABS Activity - "Yes" indicates an active ABS event in which the ABS is actively controlling the brakes.
- ABS MIL- This indicates the ABS fault indicator lamp status. It will only be "On" when there is a fault in the ABS system. The Electronic brake module DTC's should be read and recorded for final system interpretation.
- Accelerator Pedal, % Full - This indicates the actual position of the accelerator pedal. It will be "SNA" if the vehicle is in the power free mode which limits acceleration.
- Accelerator Pedal (Derived), % Full - This indicates the calculated value of the accelerator pedal for battery electric vehicles only.
- Accelerator Pedal/Engine Throttle, % Full - This indicates the actual position of the accelerator pedal unless the cruise control is engaged. If the cruise control is engaged, this indicates the actual position of the engine throttle blade.
- Braking System, Maximum Braking - "Yes" indicates that ABS is active on all 4 wheels.
- Cruise Control:
  - Note that the following two Cruise Control data elements are only valid for vehicles not equipped with Adaptive Cruise Control (ACC). For vehicles equipped with ACC, the ACC data elements are used for both regular Cruise Control and ACC.
  - Cruise Control System/Lamp Status -"On" indicates that the Cruise Control system is turned on.
  - Cruise Control Engaged Status/Active - "Engaged"/"Yes" indicates the Cruise Control system is actively controlling vehicle speed. "Not Engaged"/"No" indicates the system is NOT controlling vehicle speed.
  - Adaptive Cruise Control (ACC) Status (if equip.)- "Off" indicates that all cruise control functionality is disabled; "NCC\_On" indicates that the Normal Cruise Control system is turned on; "NCC\_Set" indicates the Normal Cruise Control is actively controlling vehicle speed; "ACC\_On" indicates that ACC is turned on; "ACC\_Set" indicates that the ACC is actively controlling vehicle speed. If the value is SNA for all time stamps, then the vehicle is not equipped with ACC.
  - ACC Speed Set (if equip.)- This indicates the desired speed in mph that was input by the driver for the ACC system. If the value is SNA for all time stamps, then the vehicle is not equipped with ACC.
  - ACC Faulted - "Yes" indicates that the ACC system will not function and the ACC warning lamp is lit; "No" indicates that the ACC system is functional and the ACC warning lamp is off;
- Drive Mode - This indicates the driver selected mode of operation (e.g. normal, sport, track, ...)
- Electronic Brake/Stability Control information:
  - Stability Control - This is the status of the ESC symbol - "car with squiggly lines" indicator lamp. "On" indicates that the ESC system is functional. "Off" indicates that the ESC system was turned off either by the driver or due to a fault or thermal mode shutdown. "Engaged" indicates an active ESC/TCS event. "Partial Off" indicates that engine management has been turned off but brake traction control is still functional.

- For the Jeep Renegade, if the Stability Control is "Off", the ESC Button Status is "Disabled", and the vehicle speed exceeds 40 mph, the stability control system will operate in a reduced functionality mode with traction control turned off ("partial off" mode) even though the user disabled it. For all other conditions, when the Stability Control is "Off", the stability control system will be off.
- ESC Button Status - This indicates the driver selected mode for the ESC system. "Disabled" indicates that the driver pressed the ESC Button to disable engine management. "Enabled" is the default state for the ESC system.
  - SRT and some Fiat products have the ability to fully disable the ESC system if the ESC button has been pressed and held for a specific amount of time. Additional system analysis is required.
- ESC/ESP MIL - This indicates the ESC/ESP fault indication lamp status. It will only be "On" when there is a fault or thermal mode shutdown in the ESC/ESP system. The ESC/ESP module DTC's should be read and recorded for final system interpretation.
- Brake Intervention by ESP - "Yes" indicates that the stability control system has engaged the brakes.
- Engine Torque Applied - "No" indicates no engine torque output was applied (as in Park/Neutral for Automatic transmissions or clutch depressed on manual or during an ESP/Traction Control event). If "Yes", then engine torque output was applied.
- Traction Control Active - "Yes" indicates that the traction control system is actively controlling the vehicle's wheels.
- Electronic Park Brake (EPB):
  - Park Brake Engaged - "Yes" indicates that the park brake is applied.
  - EPB MIL - "On" indicates that there is a fault in the Electronic Park Brake System.
- Engine Throttle, % Full - This indicates the actual position of the Engine Throttle blade. This data element is not supported by vehicles with diesel engines. Thus a value of "SNA" will be displayed if the vehicle has a diesel engine.
- ETC Lamp - Lamp "ON" indicates there is an active Electronic Throttle DTC.
- ETC Lamp Flashing - "Yes" indicates that the ETC is in the limp-in mode.
- Forward Collision Warning (FCW) (if equip.):
  - Object of Interest Distance - This indicates the actual forward distance to the main object being tracked by the FCW system. "FCW present but not tracking" indicates that the FCW system is not currently tracking an object. If the value is SNA for all time stamps, then the vehicle is not equipped with FCW.
  - FCW System Operating State - "Off" indicates that the FCW system is off and the FCW Warning Lamp will be "On"; "On" indicates that the FCW system is fully on with active braking as well as the audible and visual warnings enabled.
  - FCW System Status - "Off" indicates that the FCW system is off and the FCW Warning Lamp will be "On". "On-braking" indicates that the FCW system is on with active braking enabled but there will no FCW audible or visual warnings in an FCW event. "On-warning" indicates that the FCW system is on but active braking is disabled. In an FCW event, the driver will only receive FCW audible and visual warnings. "On-full" indicates that the FCW system is fully on with active braking as well as the audible and visual warnings enabled. SNA indicates that the vehicle is not equipped with FCW.
- Gear Position - This indicates the current transmission gear.
- Master Cylinder Pressure - This indicates the brake pressure applied to the brakes by the driver.
- PCM MIL - This indicates the PCM fault indicator lamp status. It will only be "On" when there is a fault in the PCM. "Flashing" indicates misfire detection. The Powertrain Control Module DTC's should be read and recorded for final system interpretation.
- Pre-Crash Recorder Complete - Due to the interruption of data recording in one section, this data element may display "Interrupted" for all sections when some data sections are actually complete.
  - For the 2014 MY Jeep Grand Cherokee and Dodge Durango, if recording of angular rate data is interrupted, the entire EDR record will display "Interrupted" even though the rest of the data may be complete.
- PRND/PRNDL/PRNDS Status - This indicates the status of the Shifter Position.
- Raw Manifold Pressure - This indicates engine load in kPa.
- Reverse Gear - For manual transmission vehicles only, "Yes" indicates the transmission is in the reverse gear.
- Service Brake - "On" indicates that the brake pedal is depressed.
- Speed, Vehicle Indicated - This indicates the average of the drive wheels. The accuracy of the recorded Speed, Vehicle Indicated will be affected if the vehicle had the tire size or the final drive axle ratio changed from the factory build specifications. On some vehicles capable of speeds in excess of 255km/h (about 158mph), the actual vehicle speed may have exceeded the reporting range. It is always prudent to check the reported wheel speeds and other parameters to confirm the Speed, Vehicle Indicated value(s).
- Tire Information:
  - XX where LF = Left Front Tire, RF = Right Front Tire, LR = Left Rear Tire, and RR = Right Rear Tire.
  - Tire X Location - This indicates the location of the tire pressure sensor data being displayed for that time stamp. Default is used to indicate that the location of the tire pressure sensor is unknown or there is no tire pressure sensor in that wheel. Vehicles with Base Tire Pressure Monitoring systems will display SNA for both Tire Locations as these vehicles do not send actual pressure values across the communication bus.
  - Tire X Pressure/Tire Pressure Status, XX - This indicates the actual pressure status of the Tire Location defined in the previous column (Tire X Location) or by the values for XX. Possible values are LOW, NORMAL, HIGH, or SNA for this parameter. Vehicles with Base Tire Pressure Monitoring systems may display NORMAL even though these vehicles do not send actual pressure values across the communication bus.
  - Tire X Pressure/Tire Pressure Value, XX (psi) - This indicates the actual tire pressure value of the Tire Location defined in the previous column (Tire X Location) or by the values for XX. Vehicles with Base Tire Pressure Monitoring systems will display N/A for this parameter as these vehicles do not send actual pressure values across the communication bus.
    - For the following vehicles, the tire location, if displayed, may not be accurate if the tires have been rotated:
      - 2013 MY Ram
      - 2013-2017 MY Jeep Patriot
      - 2013-2014 MY Chrysler 200
      - 2013-2017 MY Jeep Compass
      - 2013-2016 MY Dodge Dart
      - For the 2013 MY Ram, if the values for tire pressure status and the tire pressure are SNA, the EDR does not store tire pressure monitoring data.
    - Tire pressure is not stored in the EDR for the following vehicles:
      - 2014-2018 MY RAM 1500
      - 2014+ MY RAM (all but 1500)

- 2013+ MY Jeep Wrangler
- 2013 MY Jeep Grand Cherokee
- 2013 MY Dodge Durango
- 2013-2014 MY Dodge Challenger
- 2013-2016 MY Chrysler Town and Country
- 2013+ MY Dodge Grand Caravan
- 2015+ MY Fiat 500
- Wheel Speed, XX - This indicates the speed value (in revolutions per minute) of a particular tire as denoted by XX.
- Tire Pressure Monitor Indicator Lamp/Faults - "On" indicates a fault in the tire pressure monitoring system. The TPM module DTC's should be read and recorded for final system interpretation.
- "T0" ("Time zero" where '0' is seen as subscript) is defined as "beginning of the crash event". T0 is the time at which the ACM algorithm is activated, a specific Delta-V is exceeded, or a non-reversible restraint device is deployed. T0 may be defined differently for front, side, rear and roll-over events.
  - If multiple algorithm decisions (i.e.: frontal, side, rear and/or rollover) are made before the first recorded event ends, all of those events are part of the same event record and "T0" is defined as the "T0" from the first recorded event.
  - In the Pre-Crash data tables, the relative time marker "-0.1s" or "-0.25s" respectively represents the last set of data captured in the buffer prior to "T0."
- Torque Information:
  - Axle Torque - This indicates the E-Motor Torque multiplied by the gear ratio for battery electric vehicles only.
  - E-Motor Torque - This indicates the calculated torque from the output shaft of the electric motor in battery electric vehicles only.
- Traction Control Intervention Active - "Active" indicates wheel slippage was occurring during vehicle acceleration.

#### APPLICATION INFORMATION:

- Jeep Renegade and Alfa Romeo Giulia are only CDR supported in the NAFTA market.

03002\_Chrysler\_r037

### System Status at Retrieval

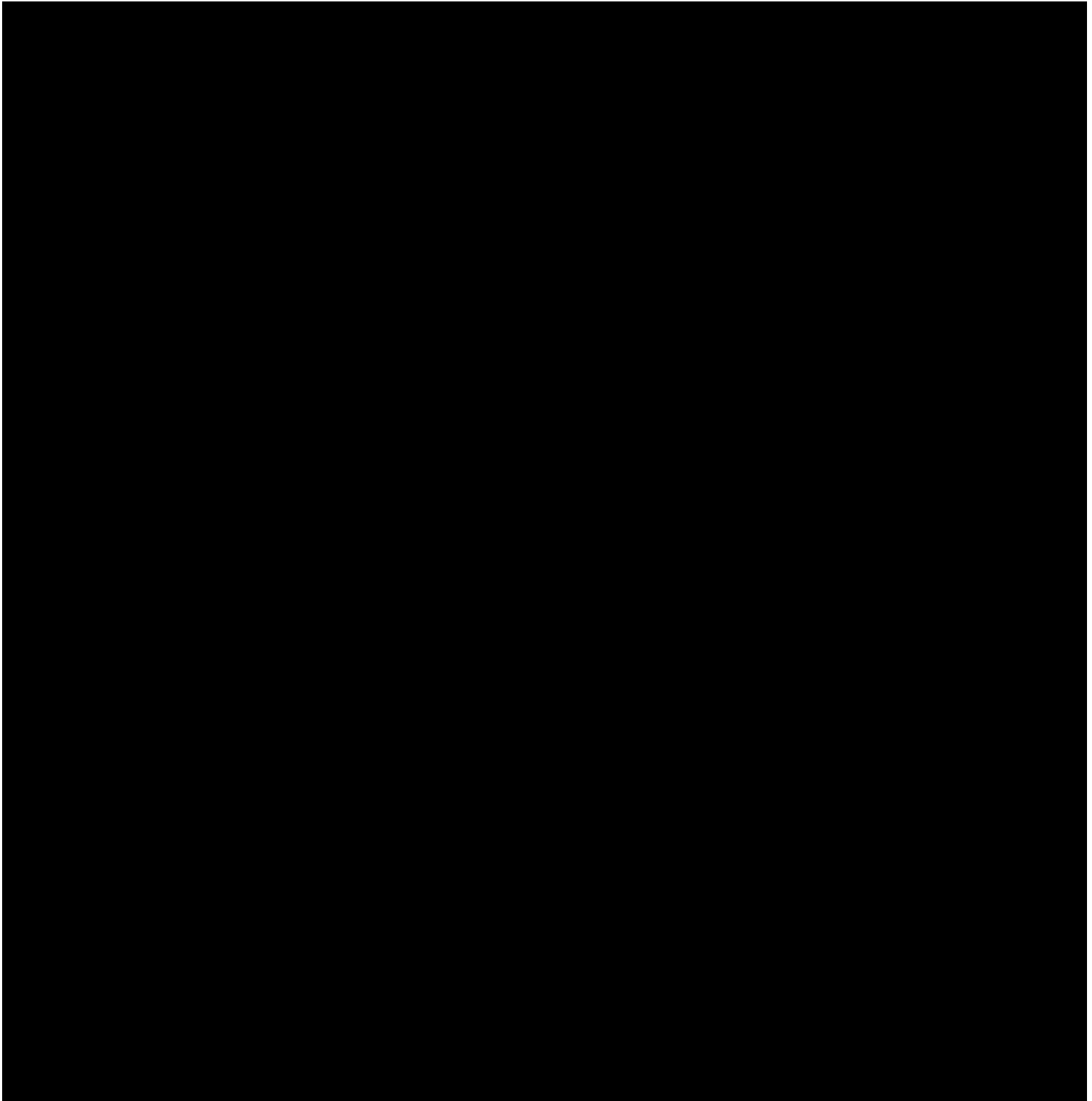
Original VIN	[REDACTED]
Ignition Cycle, Download	1520
ACM Part Number	68346749AB
ECU Serial Number	T52MD342601849
ACM Supplier	Bosch
ECU Supply Voltage at Time of Retrieval	12.7

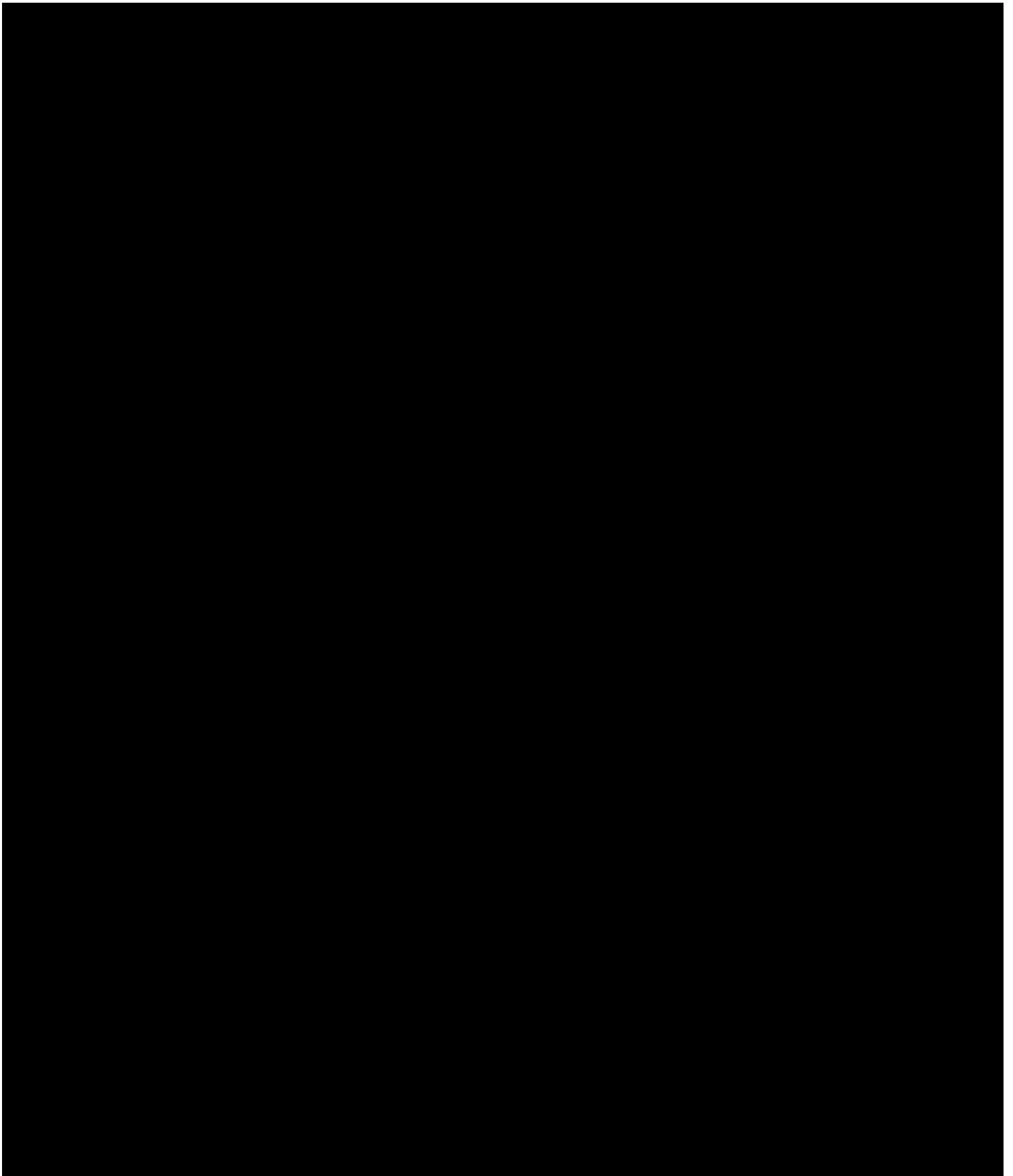
### System Configuration at Retrieval

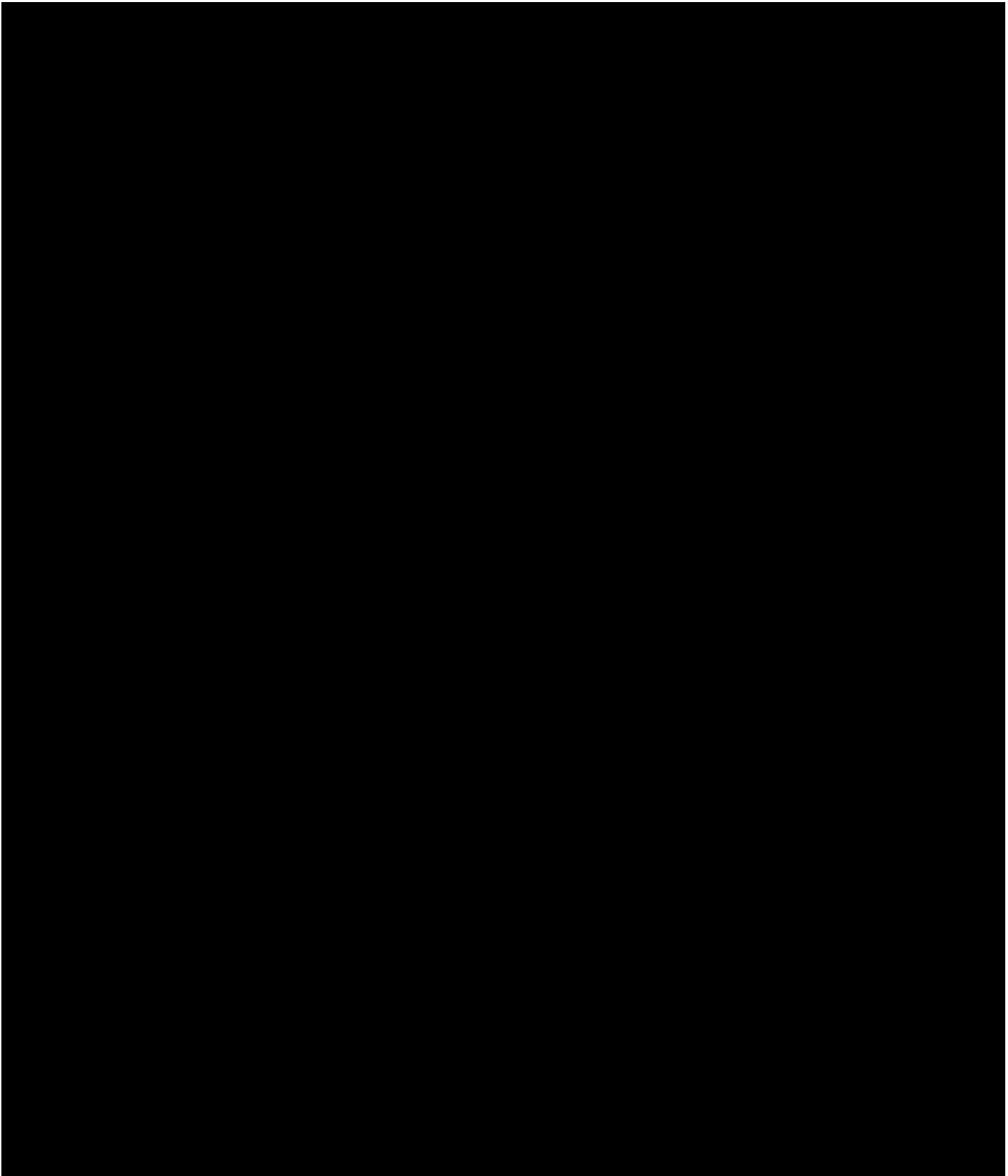
Configured for Driver Frontal Airbag	Yes
Configured for Passenger Airbag	Yes
Configured for Driver Retractor Pretensioner	Yes
Configured for Passenger Retractor Pretensioner	Yes
Configured for Left Side Curtain Airbag	Yes
Configured for Right Side Curtain Airbag	Yes
Configured for Front Left Seat Airbags	Yes
Configured for Front Right Seat Airbag	Yes
Configured for Safety Belt Status, Driver	Yes
Configured for Safety Belt Status, Outboard Front Passenger	No
Configured for Seat Track Position Switch, Foremost, Status, Driver	No
Configured for Seat Track Position Switch, Foremost, Status, Outboard Front Passenger	No

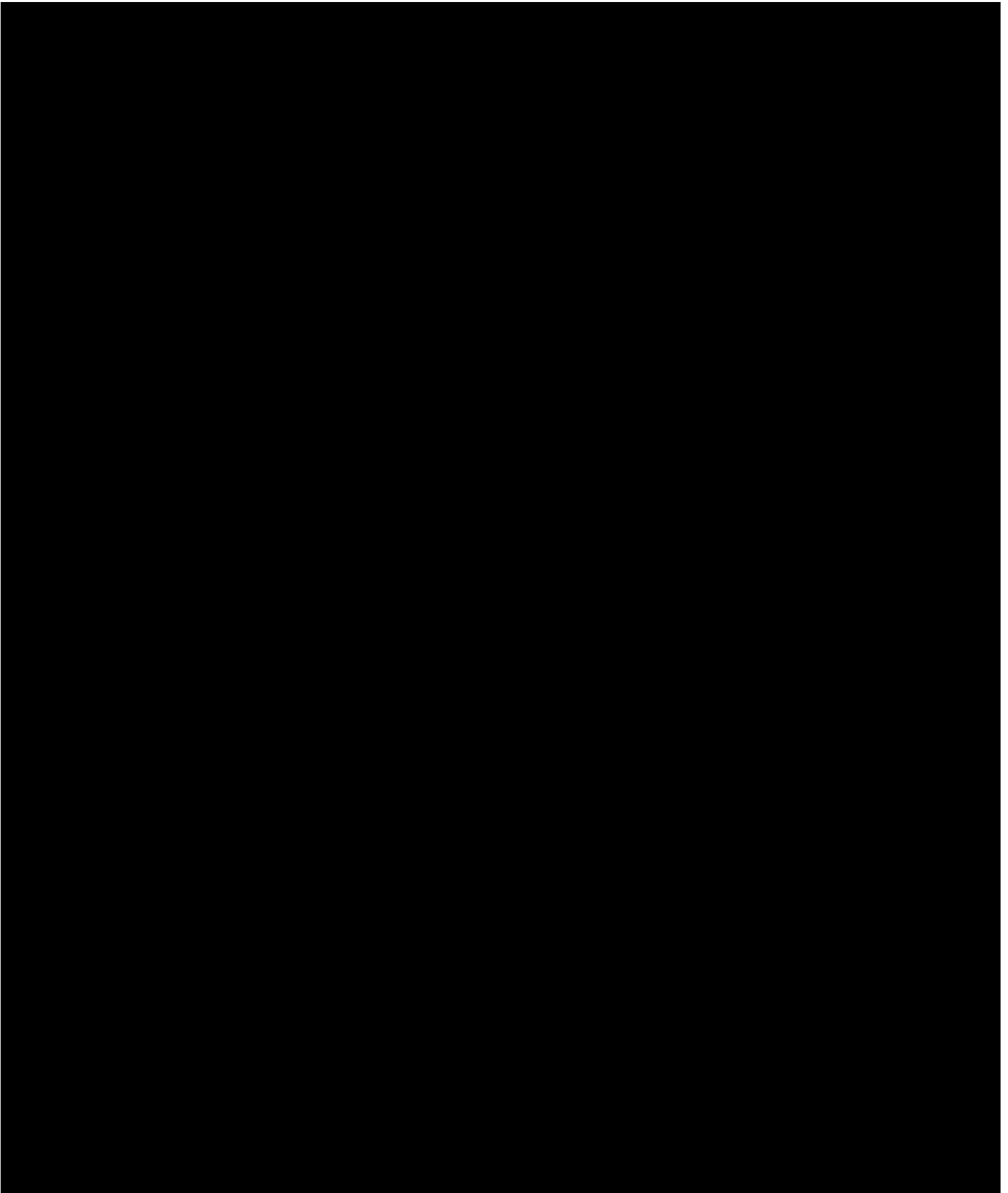
## Hexadecimal Data

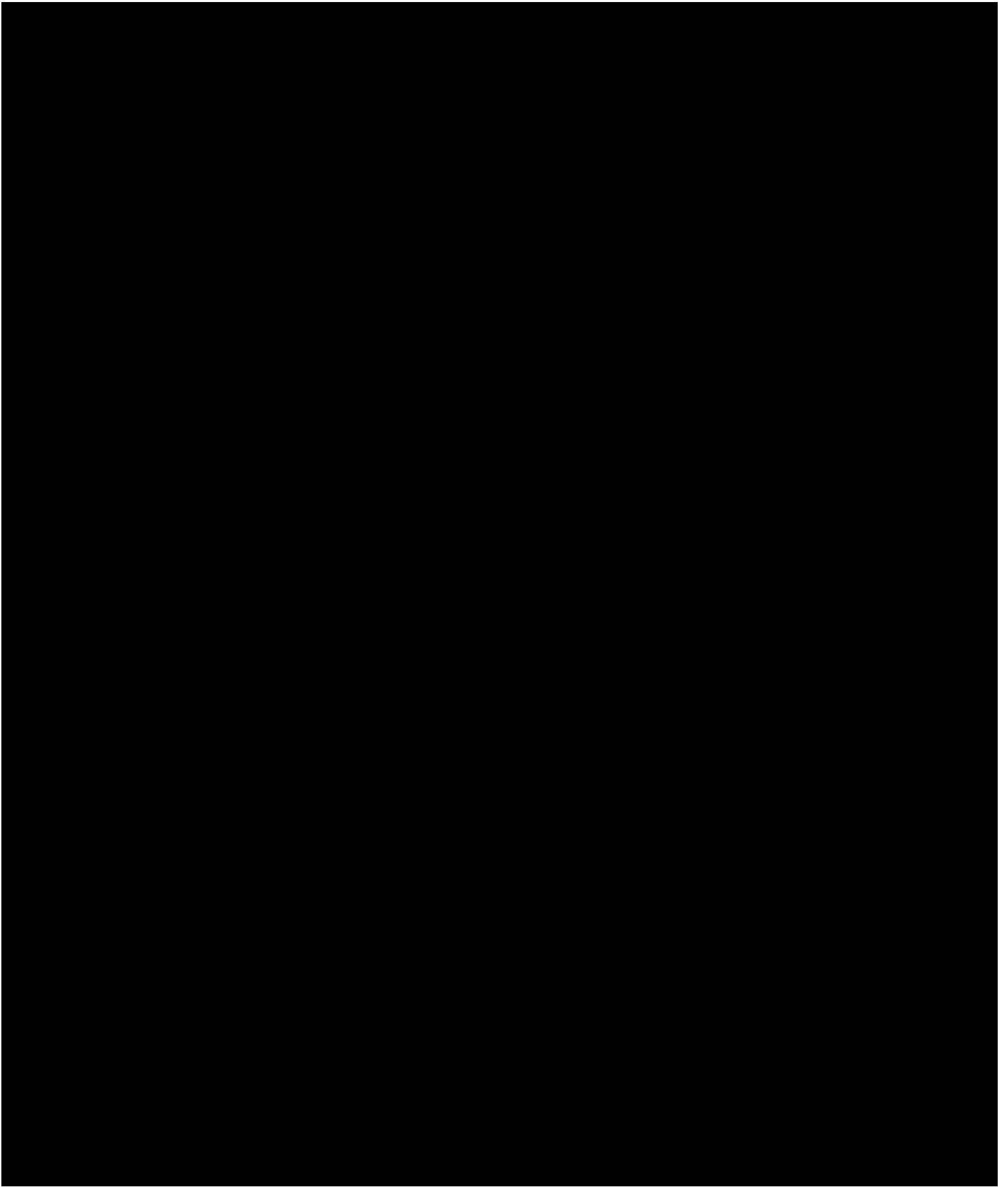
Data that the vehicle manufacturer has specified for data retrieval is shown in the hexadecimal data section of the CDR report. The hexadecimal data section of the CDR report may contain data that is not translated by the CDR program. The control module contains additional data that is not retrievable by the CDR system.

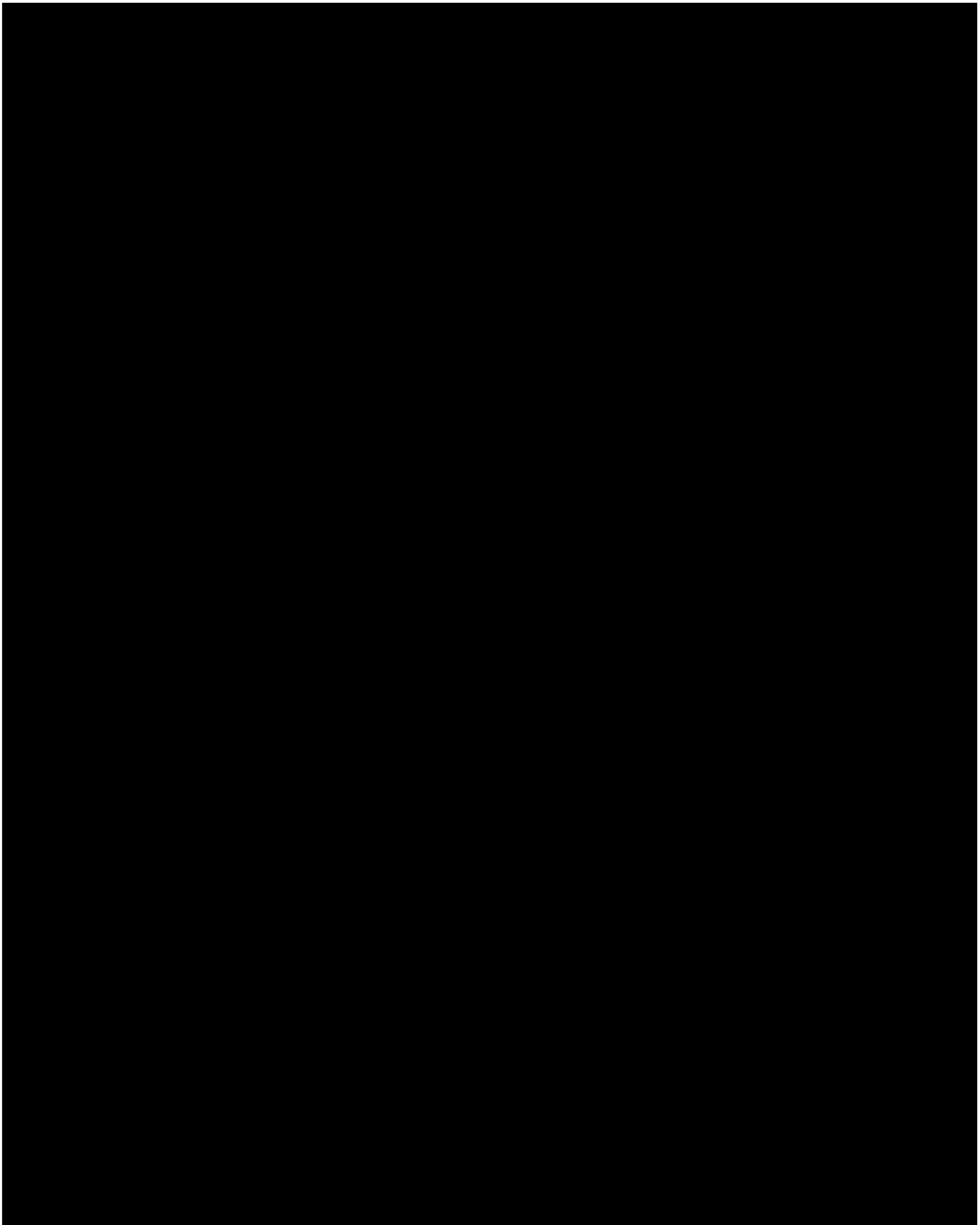


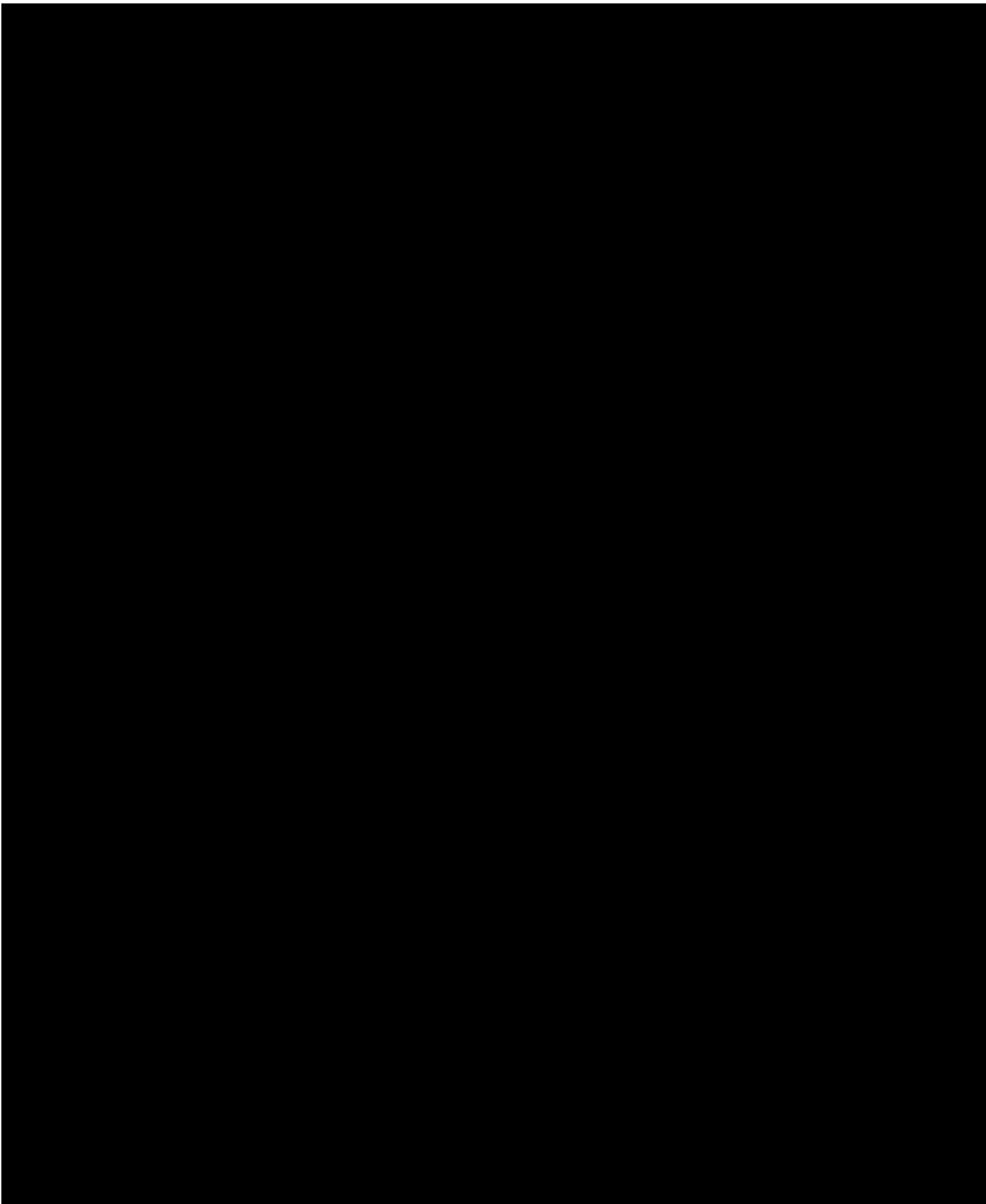


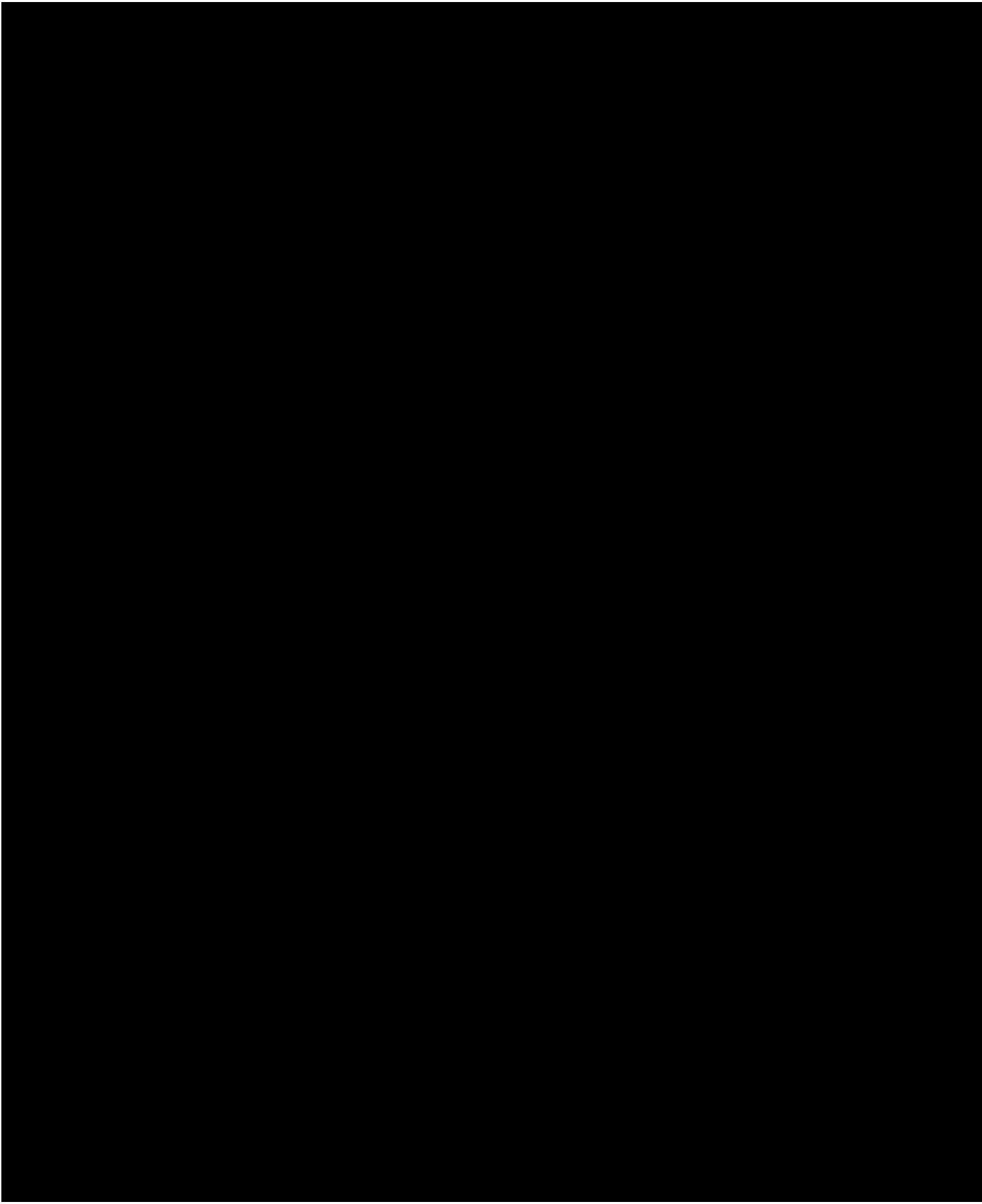


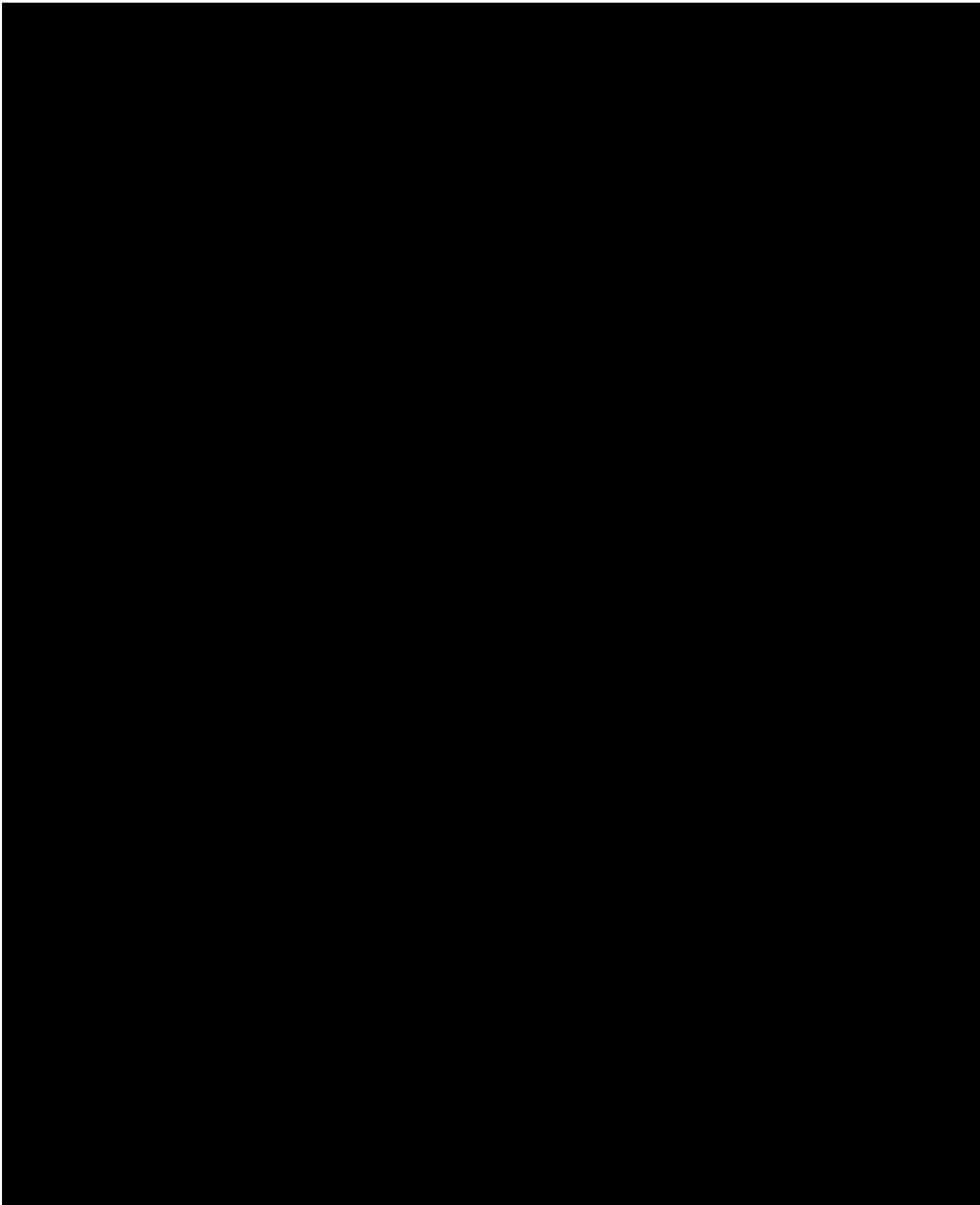


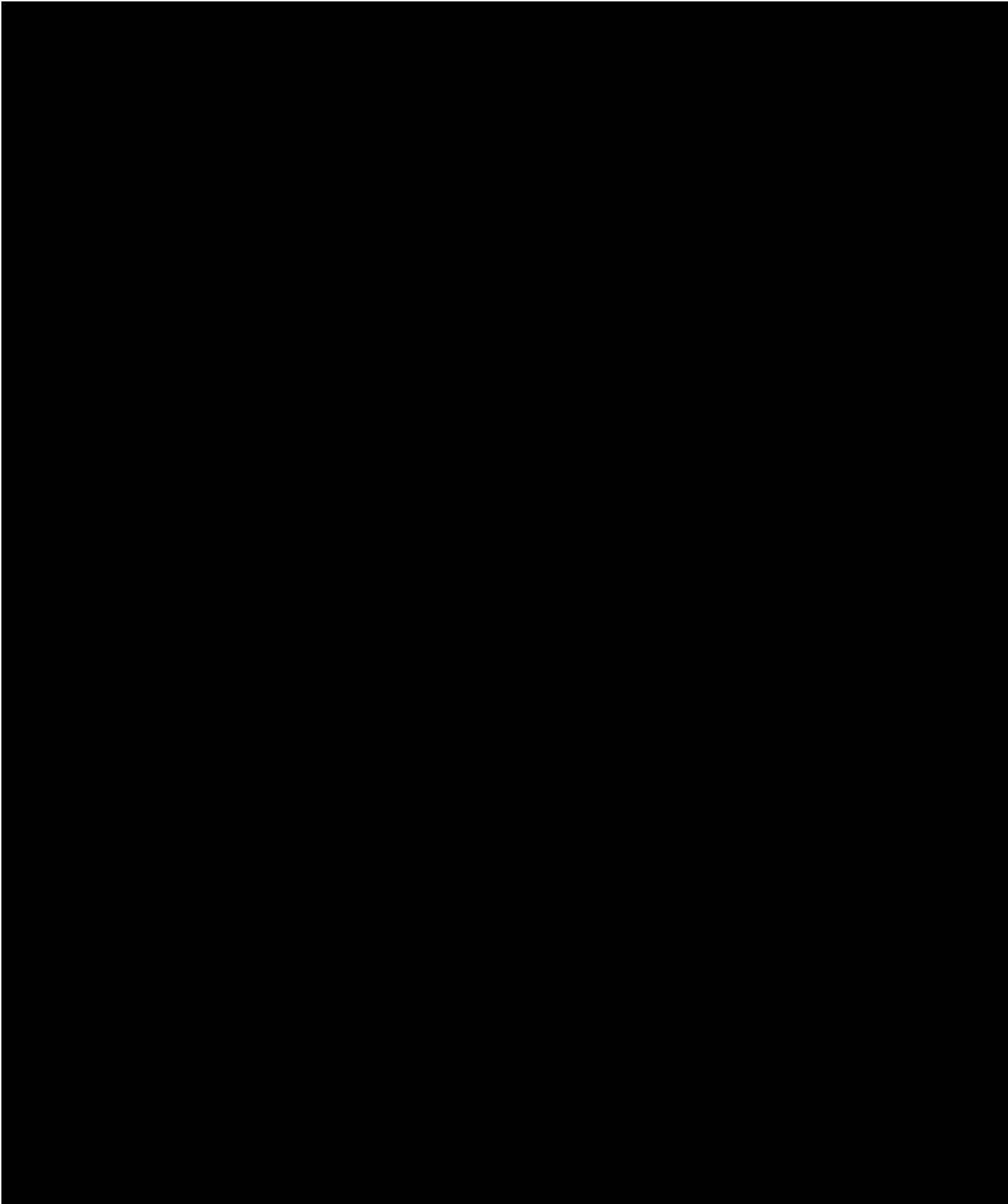


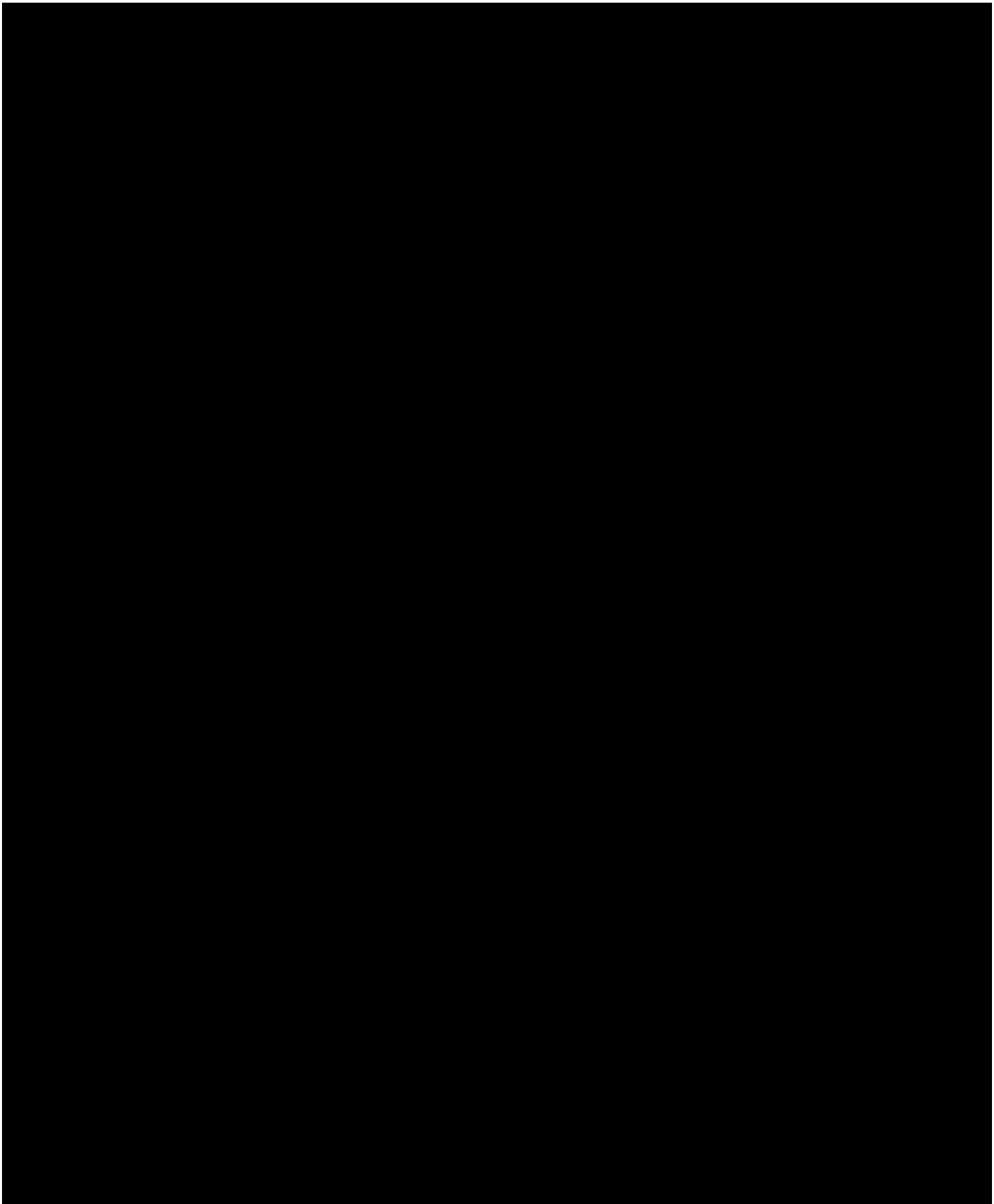


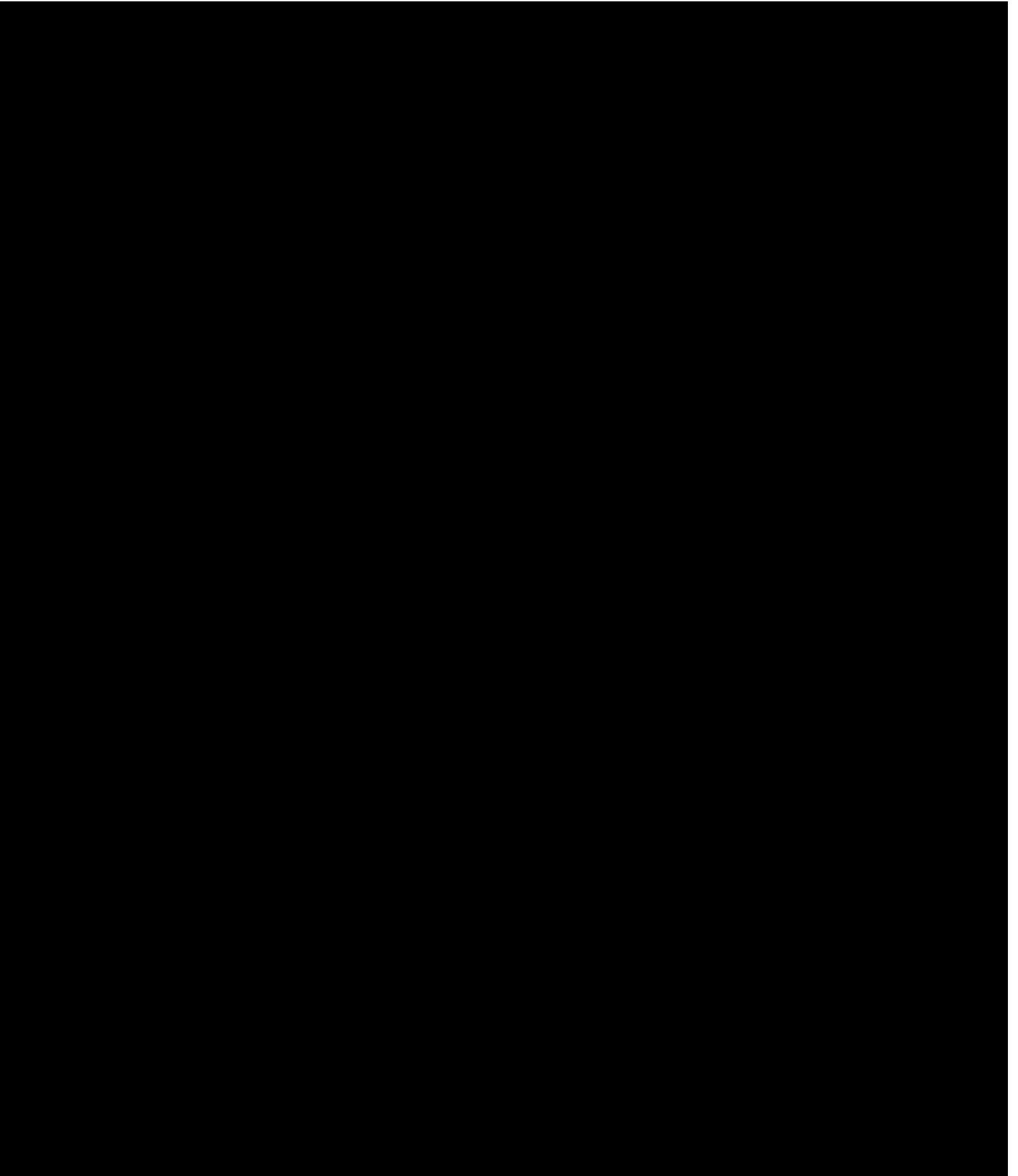


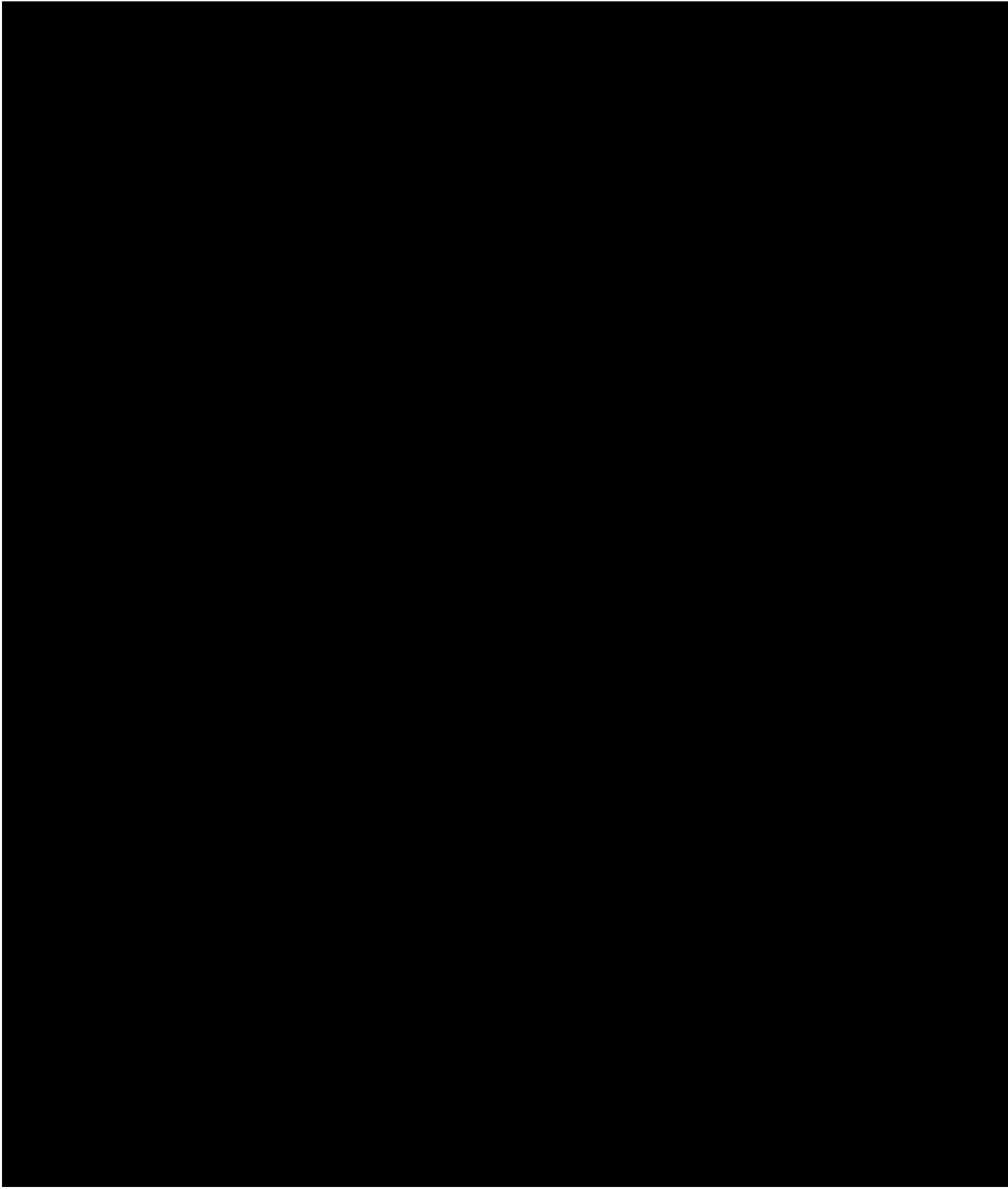


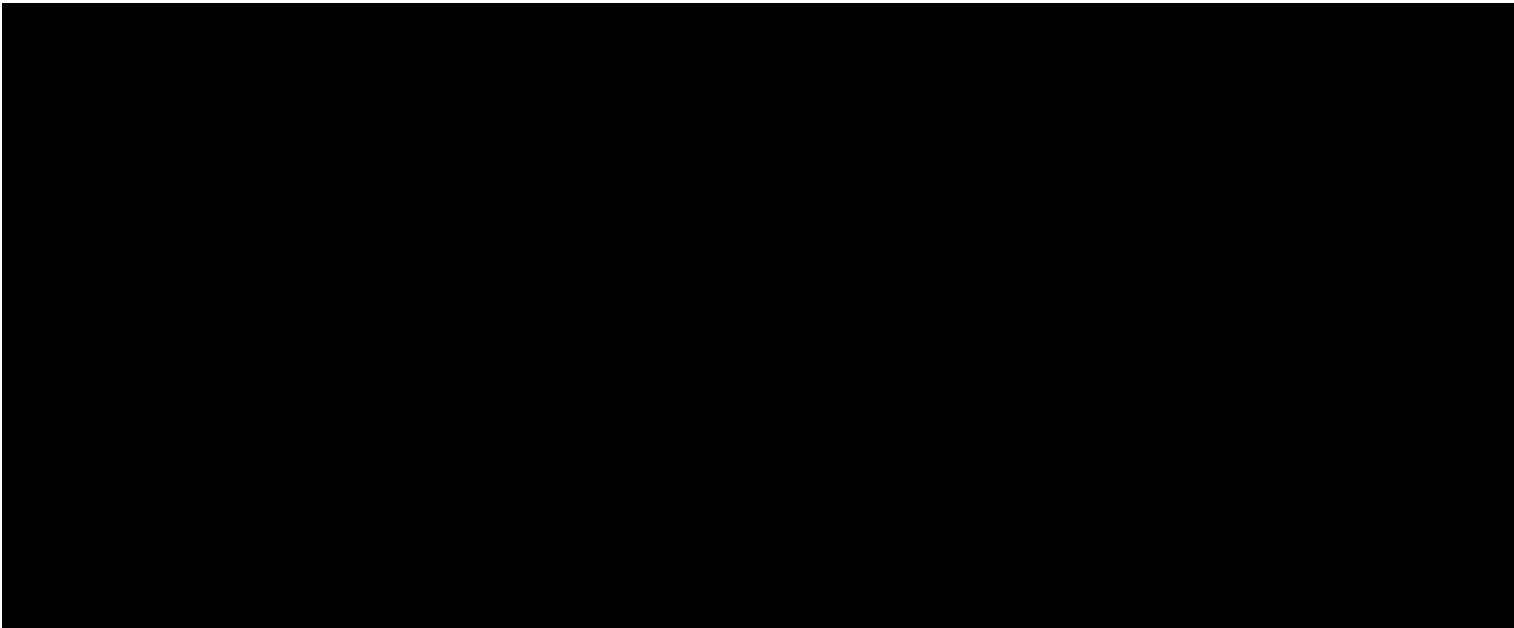












### **Disclaimer of Liability**

The users of the CDR product and reviewers of the CDR reports and exported data shall ensure that data and information supplied is applicable to the vehicle, vehicle's system(s) and the vehicle ECU. Robert Bosch LLC and all its directors, officers, employees and members shall not be liable for damages arising out of or related to incorrect, incomplete or misinterpreted software and/or data. Robert Bosch LLC expressly excludes all liability for incidental, consequential, special or punitive damages arising from or related to the CDR data, CDR software or use thereof.

COSTS BY INCREASING...  
 PRESSURE DISCLAIMS ALL WARRANTIES...  
 NOT AUTHORIZES ANY OTHER PERSONS...  
 DAMAGES TO PROPERTY, DAMAGES TO...  
 FOR 24 MONTHS OR 12,000 MILES...  
 STATEMENTS. NO WARRANTY...

Experience our Service Department is now open on **SATURDAY**



**Mullahey CDJR**  
 2520 Golden Hill Rd.  
 Paso Robles, CA 93446  
 (805) 369-2400



MULLAHEY CHRYSLER DODGE JEEP RAM  
 2520 GOLDEN HILL ROAD  
 PASO ROBLES, CA 93446  
 PH (805)369-2400  
 BAR# ARD279183 EPA# CAL000403973

VEHICLE ID		MILES IN	MILES OUT	DATE/TIME IN	DATE OUT	INVOICE NO.
[REDACTED]		9816	9817	02/26/19 10:44	02/26/19	[REDACTED]
VEHICLE DESCRIPTION					TAG NO.	STATUS
2017 RAM 2500 SLT (BRIGHT WHI)					[REDACTED]	COMPLETE
CONTROL NO.	LICENSE PLATE NO.	CUST. LABOR RATE	PROD. DATE	IN-SERV DATE	DELIV. DATE	DELIV. MILES
[REDACTED]	[REDACTED]			08/13/17	08/13/17	28
HOME PHONE	WORK PHONE	CELL PHONE	STOCK NO.	SERV. ADV.		RO COMMENT
[REDACTED]	[REDACTED]	[REDACTED]	17R222	THOMAS WALTON (308)		

Line	Op-Code	Fail Code	Tech	Hours	Type	Amount
<b>A</b>	MPI		A22		Customer	\$0.00
Concern	CHECK AND SET ALL TIRE PRESSURES LF__60__ RF__60__ LR__80__ RR__80__ RF__11__ LF__11__ RR__7__ LR__7__					
Correction	TIRE PRESSURE					
<b>Line Total...</b>						<b>\$0.00</b>

<b>B</b>			A22		Customer	\$130.31
Concern	Customer states REMOVE FRONT WHEELS FOR FCA VEHICLE INSPECTION, REINSTALL AND TORQUE WHEELS					
Cause	REQUESTED					
Correction	REMOVED FRONT WHEELS FOR FCA INSPECTOR INSPECTION. REINSTALL WHEELS AND TORQUED TO SPEC					
<b>Line Total...</b>						<b>\$130.31</b>

Warranty Claim Type: W

Authorization Code:

Service Cont No:



**Mullinhey CDJR**  
 Pismo Beach, CA 93449  
 (805) 736-2887



2520 GOLDENHILL ROAD  
 PASO ROBLES, CA 93446  
 PH (805) 369-2400  
 BAR# ARD279188 EPA# CA-000403973

VEHICLE ID	MILES IN	MILES OUT	DATE/TIME IN	DATE OUT	FO NO.
[REDACTED]	3816		02/26/19 10:44		[REDACTED]
VEHICLE DESCRIPTION					
2017 RAM 2500 SLT (BRIGHT WHI)					
CONTROL NO.	LICENSE PLATE NO.	CUST. LABOR RATE	PROD. DATE	IN-SERV. DATE	DELIV. MILES
[REDACTED]	[REDACTED]			08/13/17	05822
HOME PHONE	WORK PHONE	CELL PHONE	STOCK NO.	SERV. ADV	PROMISED
[REDACTED]	[REDACTED]	[REDACTED]	17R222	THOMAS WALTON (308)	
RO COMMENT					

I authorize the repair work herein set forth to be done along with the necessary material and agree that you are not responsible for any damage to the vehicle caused by fire, theft or any other cause beyond your control or for any of the delays caused by unavailability of parts or delays in parts shipment. I hereby grant you permission to operate the vehicle until the vehicle is repaired or until the vehicle is inspected and/or inspected. An express mechanic's lien is hereby acknowledged on the vehicle to secure the amount of repairs thereto.

X

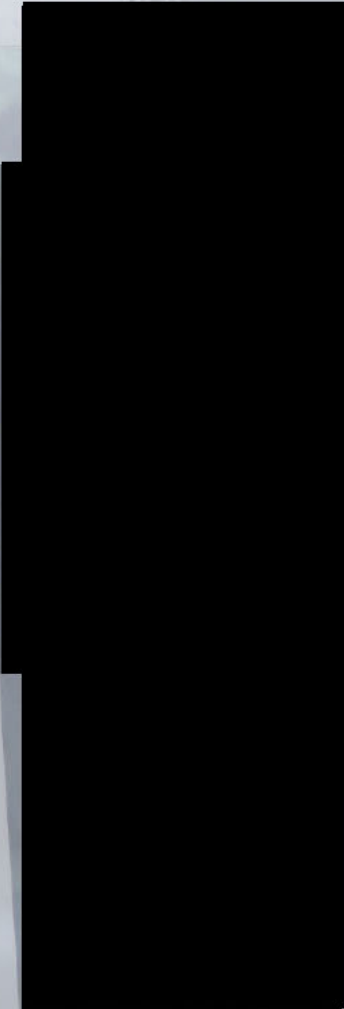
Service Contract

Company	Description	Deduction Amount	Term Months	Term Miles	Expiration Miles	Expiration Date
PORTFOLIO ELITENEW	PORTFOLIO ELITE NEW	\$100	96	80000	0	00/00/00

Line	Type	Op-Code	Tech
A	Customer	MPI	
Concern	CHECK AND SET ALL TIRE PRESSURES LF RF LR RR		

B Customer [REDACTED]  
 Concern Customer states REMOVE FRONT WHEELS FOR TCA VEHICLE INSPECTION, REINSTALL AND TORQUE WHEELS

02/26/2019



LLC  
 2-16  
 6000 LB WITH 8.0 RIMS AT 415 KPA ( 60 PSI) COLD TIRES  
 6500 LB WITH 8.0 RIMS AT 550 KPA ( 80 PSI) COLD TIRES

02/26/2019



10000  
770/BE  
60 PSI) COL  
770/BE  
60 PSI) COL

02/26/2019



02/26/2019



[Redacted]

02/26/2019

California



02/26/2019



02/26/2019



02/26/2019



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02/26/2019



02/26/2019



5822

RAM  
3.6L  
V6  
4x4

WIRESTONE  
RAIL SPORER 275

02/26/2019



5822

RAM  
3500

FIRESTONE  
TRANSFORCE AT

02/26/2019



02/26/2019



02/26/2019



02/26/2019



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Key in Ignition

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Key in  
Ignition

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02/26/2019



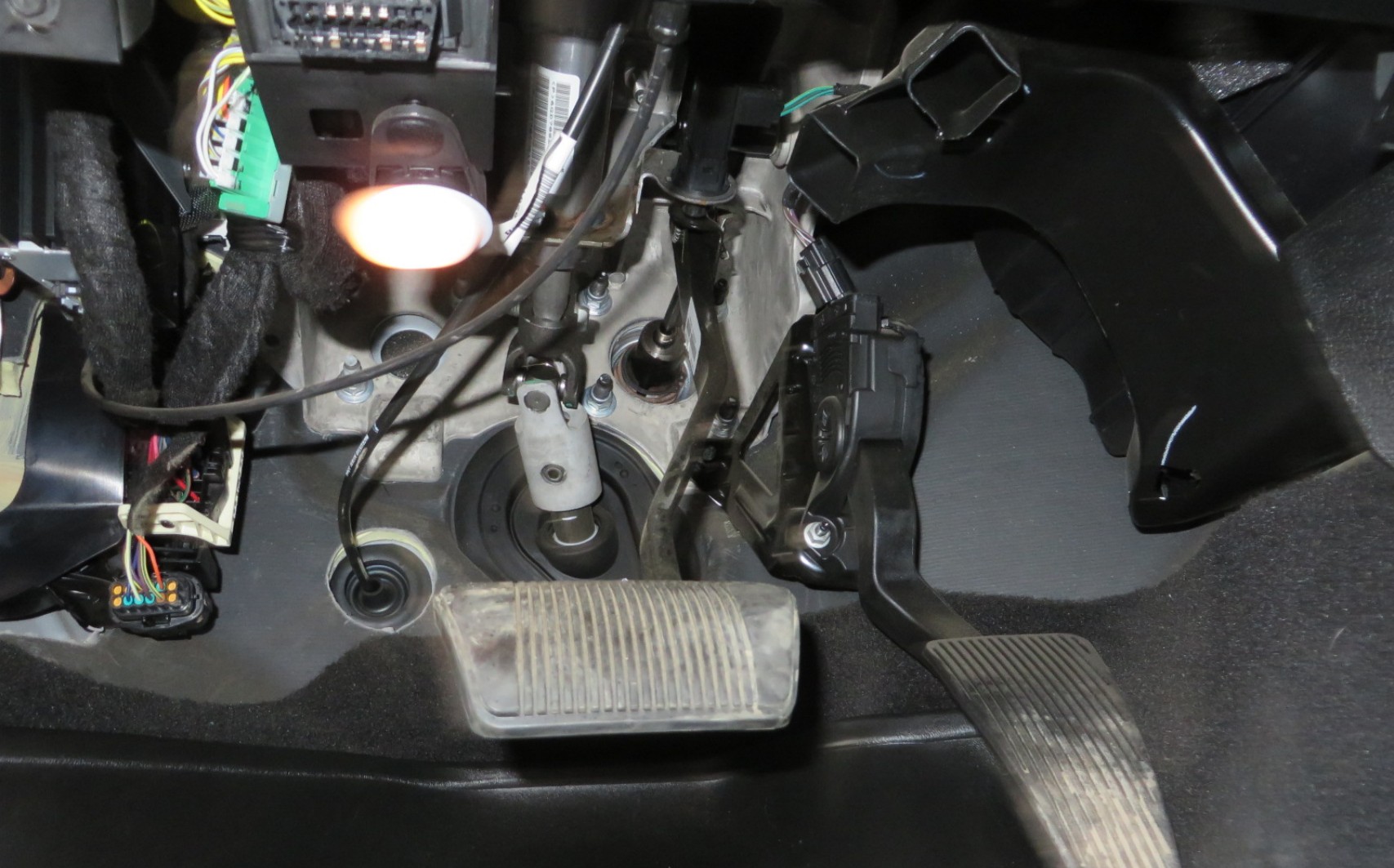


02/26/2019



**HUSKY**  
WARRANTY FOR LIFE

02/26/2019



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RAM

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02/26/2019

**▲ WARNING**

**EVEN WITH ADVANCED AIRBAGS**

- CHILDREN CAN BE KILLED OR SERIOUSLY INJURED BY THE AIRBAG.
- THE BACK SEAT IS THE SAFEST PLACE FOR CHILDREN.
- NEVER PUT A REAR-FACING CHILD SEAT IN THE FRONT.
- ALWAYS USE SEATBELTS AND CHILD RESTRAINTS.
- SEE OWNER'S MANUAL FOR MORE INFORMATION ABOUT AIRBAGS.

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**▲ MISE EN GARDE**

**MÊME AVEC DES SACS GONFLABLES PERFECTIONNES**

- LES ENFANTS PEUVENT ÊTRE TUÉS OU GRAVEMENT BLESSÉS PAR UN SAC GONFLABLE.
- LA BANQUETTE ARRIÈRE EST LA PLACE LA PLUS SÛRE POUR LES ENFANTS.
- NE JAMAIS PLACER UN SIÈGE POUR ENFANT ORIENTÉ VERS L'ARRIÈRE À L'AVANT DU VÉHICULE.
- TOUJOURS UTILISER LES CEINTURES DE SÛRITÉ ET LES SYSTÈMES DE RETENUE POUR ENFANT.
- CONSULTER LE GUIDE DE L'AUTOMOBILISTE POUR OBTENIR PLUS DE RENSEIGNEMENTS SUR LES SACS GONFLABLES.



02/26/2019

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**MÊME AVEC DES SACS GONFLABLES PERFECTIONNÉS**

- LES ENFANTS PEUVENT ÊTRE TUÉS OU GRAVEMENT BLESSÉS PAR UN SAC GONFLABLE.
- LA BANQUETTE ARRIÈRE EST LA PLACE LA PLUS SÉCURITAIRE POUR LES ENFANTS.
- NE JAMAIS PLACER UN SIÈGE POUR ENFANT ORIENTÉ VERS L'ARRIÈRE À L'AVANT DU VÉHICULE.
- TOUJOURS UTILISER LES CEINTURES DE SÉCURITÉ ET LES SYSTÈMES DE RETENUE POUR ENFANT.
- CONSULTER LE GUIDE DE L'AUTOMOBILISTE POUR OBTENIR PLUS DE RENSEIGNEMENTS SUR LES SACS GONFLABLES.

02/26/2019

# WARNING

## EVEN WITH ADVANCED AIRBAGS

- CHILDREN CAN BE KILLED OR SERIOUSLY INJURED BY THE AIRBAG.
- THE BACK SEAT IS THE SAFEST PLACE FOR CHILDREN.
- NEVER PUT A REAR-FACING CHILD SEAT IN THE FRONT.
- ALWAYS USE SEATBELTS AND CHILD RESTRAINTS.
- SEE OWNER'S MANUAL FOR MORE INFORMATION ABOUT AIRBAGS.



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CAUTION: Do not touch the battery terminals. Do not use tools on the battery. Do not use water to clean the battery. Do not use a fire extinguisher on the battery. Do not use a fire extinguisher on the battery. Do not use a fire extinguisher on the battery.

02/26/2019



02/26/2019

RAD  
27736AA



02/26/2019



**CAUTION**  
PLEASE DO NOT OPEN THE HOOD OR ENGINE COMPARTMENT COVER WHEN THE ENGINE IS RUNNING OR HOT. WAIT AT LEAST 30 SECONDS BEFORE OPENING THE HOOD OR ENGINE COMPARTMENT COVER. SEE THE OPERATOR'S MANUAL FOR MORE INFORMATION.

02/26/2019



02/26/2019



02/26/2019



Do not use lead-acid battery in this location. For more information, see the vehicle's manual. If you have any questions, contact your dealer.

02/26/2019



68213155AD

ENG  
TOP

EGR

CAUTION - DO NOT OVERFILL - DO NOT ADD OIL IF LEVEL IS BETWEEN

02/26/2019



02/26/2019



CL 1713 6833  
STALP  
02/26/2019

02/26/2019





CLAYTON  
27812  
6380 2470

02/26/2019



332 8110  
1992

02/26/2019



888 841 10  
VW12

02/26/2019





638 2470  
TWELVE  
1 50000 000000

02/26/2019



02/26/2019



3194  
01/17/18

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02/26/2019

278AA  
F06211278AA 01100A Made in USA  
0117B 0833

02/26/2019





2470  
TWELVE

02/26/2019



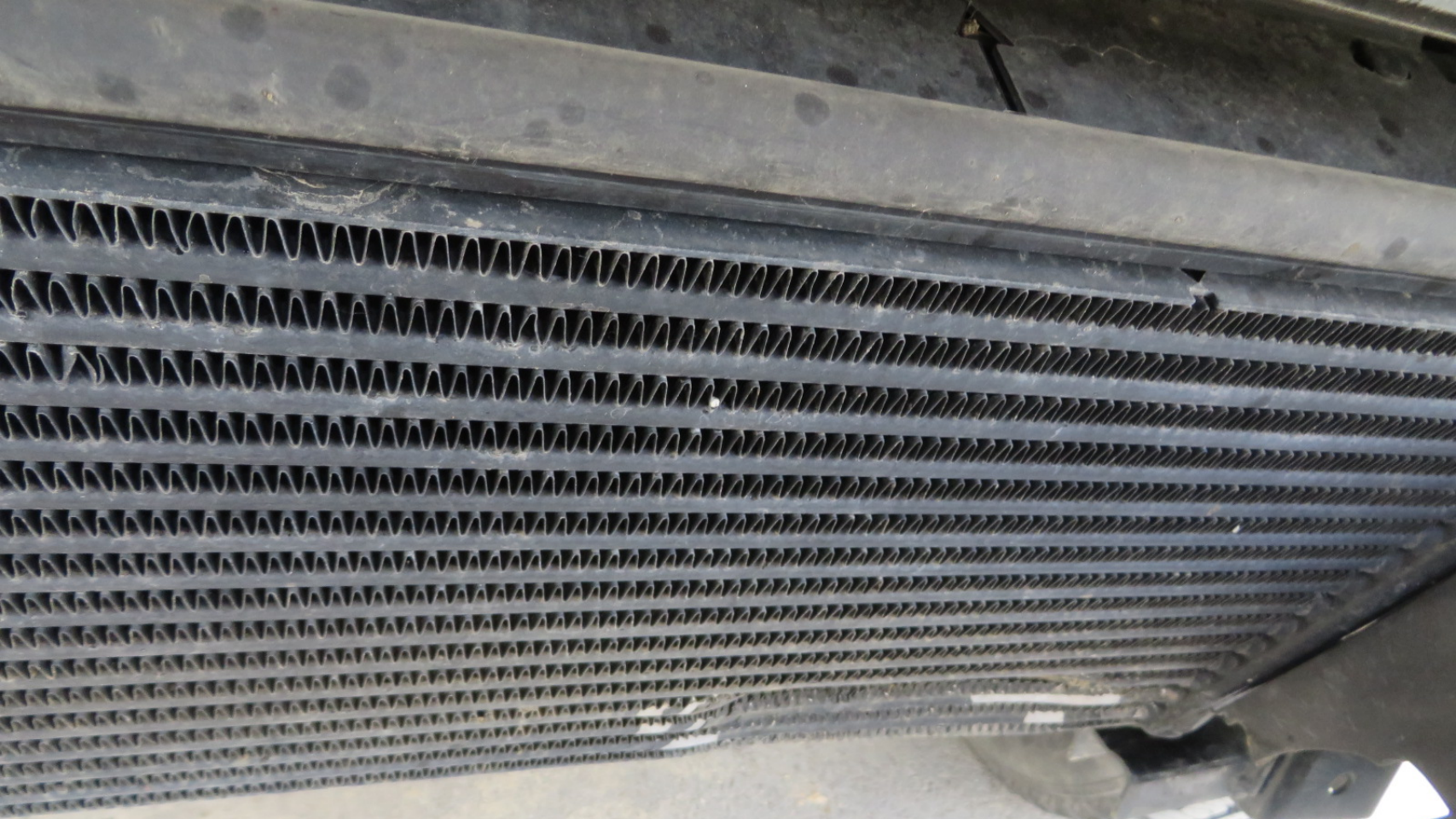
02/26/2019



02/26/2019



02/26/2019



02/26/2019

TURBO

Left Front

TRANSFORCE AT

Firestone

02/26/2019



Left Front

TRANSFORCE  
AT

02/26/2019

Left Front

TRANSFORCE AT

GOODYEAR

02/26/2019



LT275/70R18

TRA

G

02/26/2019



02/26/2019



02/26/2019



Left Rear

TRANSFORCE AT

FIRESTONE

02/26/2019



Left Rear

TRANSFORCE AT

FIRESTONE

02/26/2019



619960

DOT M15 TR6

4419



02/26/2019



TR6


4416

210

02/26/2019

TRANSFORCE AT

02/26/2019

A close-up photograph of the left rear tire and suspension assembly of a vehicle. The tire is a heavy-duty, treaded tire with a prominent zig-zag pattern. The suspension components, including the axle and control arms, are visible above the tire. A small white label with the text "Left Rear" is placed on the tire tread. The background is a plain, light-colored surface.

Left Rear

02/26/2019

Right Rear

TRANSFORCE AT

FIRESTONE

02/26/2019

Right Rear

INSFORCE AT

FIRESTONE

02/26/2019

Right Rear

02/26/2019

AF

2019



Right Rear

02/26/2019

DIESEL

Right Front

Firestone

TRANSFORCE AT

02/26/2019

Right Front

Firestone

TRANSFORCE AT

02/26/2019

DIESEL

Right Front

Firestone

TRANSFORMER AT

02/26/2019

ummins  
RBO DIESEL

Right Front

Firestone

02/26/2019

DIESEL

Right Front

Firestone

TRANSFORCE AT

02/26/2019

**Left Front**

02/26/2019

307851

TC955A

**Left Front**

02/26/2019

Left Front

02/26/2019

5822



Left Front

02/26/2019



02/26/2019

Right Front

02/26/2019

3112

**Right Front**

02/26/2019



Right Front

02/26/2019



02/26/2019



02/26/2019

**Right Rear**

02/26/2019



148895

1C956A

**Right Rear**

02/26/2019

Right Rear

02/26/2019



02/26/2019



02/26/2019



02/26/2019



02/26/2019



02/26/2019



Left B

02/26/2019

**Left Rear**

02/26/2019

Left Rear

02/26/2019

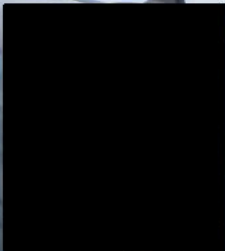


Left Rear

02/26/2019



02/26/2019



02/26/2019



02/26/2019



02/26/2019



02/26/2019



Dodge  
Rt 10

AM

61°F

63  
MPH

Press for touch

1015.4 mi

P R N D

02/26/2019



02/26/2019



02/26/2019

0

MPH


psi

0

30

Current  
MPG

Range  
204 mi

Press  for km/h

11.9  
Ave

9825.8 mi

P R N D

02/26/2019



Left Front

02/26/2019

A close-up photograph of a vehicle's left front wheel and suspension system. The wheel is a dark, possibly black or dark grey, with a visible tread pattern. The suspension components, including the coil spring and control arms, are visible in the background. A white label with the text "Left Front" is attached to the wheel. The overall scene is dimly lit, suggesting an indoor setting like a garage or workshop.

Left Front

02/26/2019



02/26/2019



Left Front

02/26/2019



Left Fr

02/26/2019



02/26/2019

113AR



02/26/2019

nt



02/26/2019

Left Front

02/26/2019

ROTARY

**Left Front**

12mm  
.4724"

**AE**  
AUTOSCO

02/26/2019

A.  
2E4B49



02/26/2019

Right Front



02/26/2019



Right Front

02/26/2019

Right Front

02/26/2019





12mm  
4724

02/26/2019

**Right Front**

02/26/2019

100  
24"

Right Front

12mm  
.4724"

Auto

02/26/2019



02/26/2019



02/26/2019



02/26/2019



68453

02/26/2019

CL178 8833  
7784  
02/26/2019

6817270

02/26/2019



DL 176 8333  
21844  
MADE IN CHINA

02/26/2019



02/26/2019

**CAUTION**  
Allow 12" (305mm)  
minimum clearance  
between overhead  
members before raising  
suspension before raising  
vehicle and lift.



02/26/2019



02/26/2019

TITTJ334620603 13:11:12  
703  
P52119703AI RFE

02/26/2019

11TTJ334620603

13:11:12

P52119703AI

703

RFE

02/26/2019





703

703

02/26/2019



02/26/2019



Part # 171 000 0000  
171 000 0000  
171 000 0000

2007

02/26/2019



02/26/2019



02/26/2019



Right Rear

02/26/2019



Right Rear

02/26/2019



Right Rear

02/26/2019



Right Rear

02/26/2019

Right Rear

02/26/2019

Right Rear

12 mm  
.4724"

02/26/2019

Right Rear

02/26/2019

Right Rear

02/26/2019

Right Rear

AN

02/26/2019



3.92

CAUTION  
DO NOT  
OPERATE  
LIFT WITH  
LOADS  
EXCEEDING  
RATED  
CAPACITY

02/26/2019



OK

3-14

**CAUTION**  
Do not touch the hot surface of the lift. The surface of the lift can become very hot during operation. To avoid injury, do not touch the hot surface of the lift.

**CAUTION**  
Do not touch the hot surface of the lift. The surface of the lift can become very hot during operation. To avoid injury, do not touch the hot surface of the lift.

**CAUTION**  
Do not touch the hot surface of the lift. The surface of the lift can become very hot during operation. To avoid injury, do not touch the hot surface of the lift.

02/26/2019

Left Rear

02/26/2019



Left Rear

MONACO  
AUTOBODY

02/26/2019

Left Rear

02/26/2019

Left Rear

ABN

02/26/2019



02/26/2019



02/26/2019



02/26/2019



02/26/2019



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