PE18-012

GM

3-27-2019

Q3

3A

MICRO-FUSE FUSES
1. TRLR PARK (10A)
2. TRLR BATT (10A)
3. ELC PARK BRK (10A)

MAXI FUSES
1. MSP PUMP (40A)
2. LIFT REC 1 (40A)
3. MSP PASS (40A)
4. HAZ TURN (30A)
5. ELEC PARK BRK (40A)
6. MSP DRIVER (40A)
7. LIFT REC 2 (40A)
8. REAR DEFOG (30A)
9. STRTR (40A)
10. COOL FAN 1 (40A)
11. COOL FAN 2 (40A)

MINI FUSES 1-20
12. FUEL PUMP (20A)
13. ECM (10A)
14. ECM (10A)
15. TRLR STOP TRNR LT (10A)
16. TRLR PARK LAMP (20A)
17. TRLR STOP TRNR RT (10A)

MICRO FUSES 1-28
18. FUEL PUMP (20A)
19. ECM (10A)
20. ECM ELEC DRIVE (20A)
21. PARK (10A)
22. LIFT RR SW (5A)
23. LIFT TILT (20A)
24. HRN APPR (20A)
25. HRN SW (25A)
26. LIFT RR IND (5A)
27. LIFT TILT SW (5A)
28. PRK LAMP RT (15A)
29. PRK LAMP LT (15A)
30. LIFT TILT (20A)
31. LIFT TILT SW (5A)
32. LIFT TILT (20A)
33. ECM B+ (10A)
34. ECM IGN (15A)
35. A/C CLUTCH (10A)
36. HTD MIR (15A)
37. LIFT TILT (20A)
38. HORN (15A)
39. MTCS IGN (15A)
40. TRANS IGN (15A)
41. FUEL PMP 2 (20A)
42. COOL FAN CTL (10A)
43. ENG (15A)
44. INJ 4 (20A)
45. INJ 3 (20A)
46. ACCY PWR (10A)
47. THROT CONT (15A)
48. HORN (15A)
49. FOG LAMP (15A)
50. O2 SNSR 1 (15A)
51. IGN (10A)
52. INTERIOR (10A)
53. ACCY PWR (10A)
54. BATT MAIN (15A)

MICRO RELAYS
55. A/C CMPRSR HDLMP BATT (10A/5A)
56. A/C CMPRSR HDLMP BATT FOG (10A/15A)
57. IGN / IGN (15A/15A)
58. HDLMP / LT (10A/10A)

MINI RELAYS
59. FUEL PUMP
60. LIFT TILT 2
61. LIFT TILT 3
62. LIFT TILT 4
63. TRLR PARK LAMPS
64. HORN
65. LIFT TILT 1
66. A/C CONTROL
67. STARTER
68. IGN

MINI RELAYS
69. REAR DEFOG

SOLID STATE RELAY
71. COOL FAN 1 & 2 CTL

DIODES
72. CKT 1 & 5
73. CKT 1 & 2


BRJ


47
48
1
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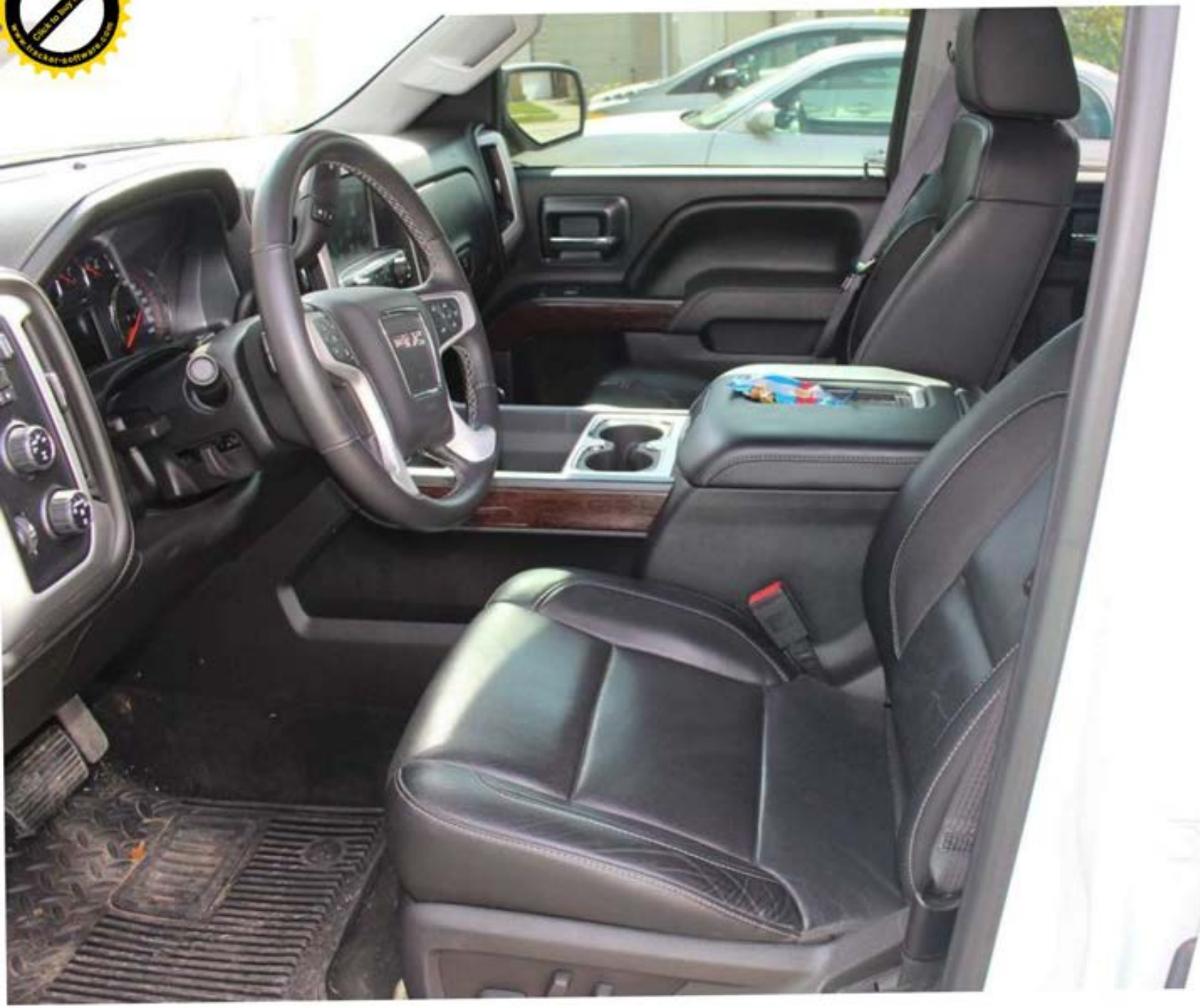
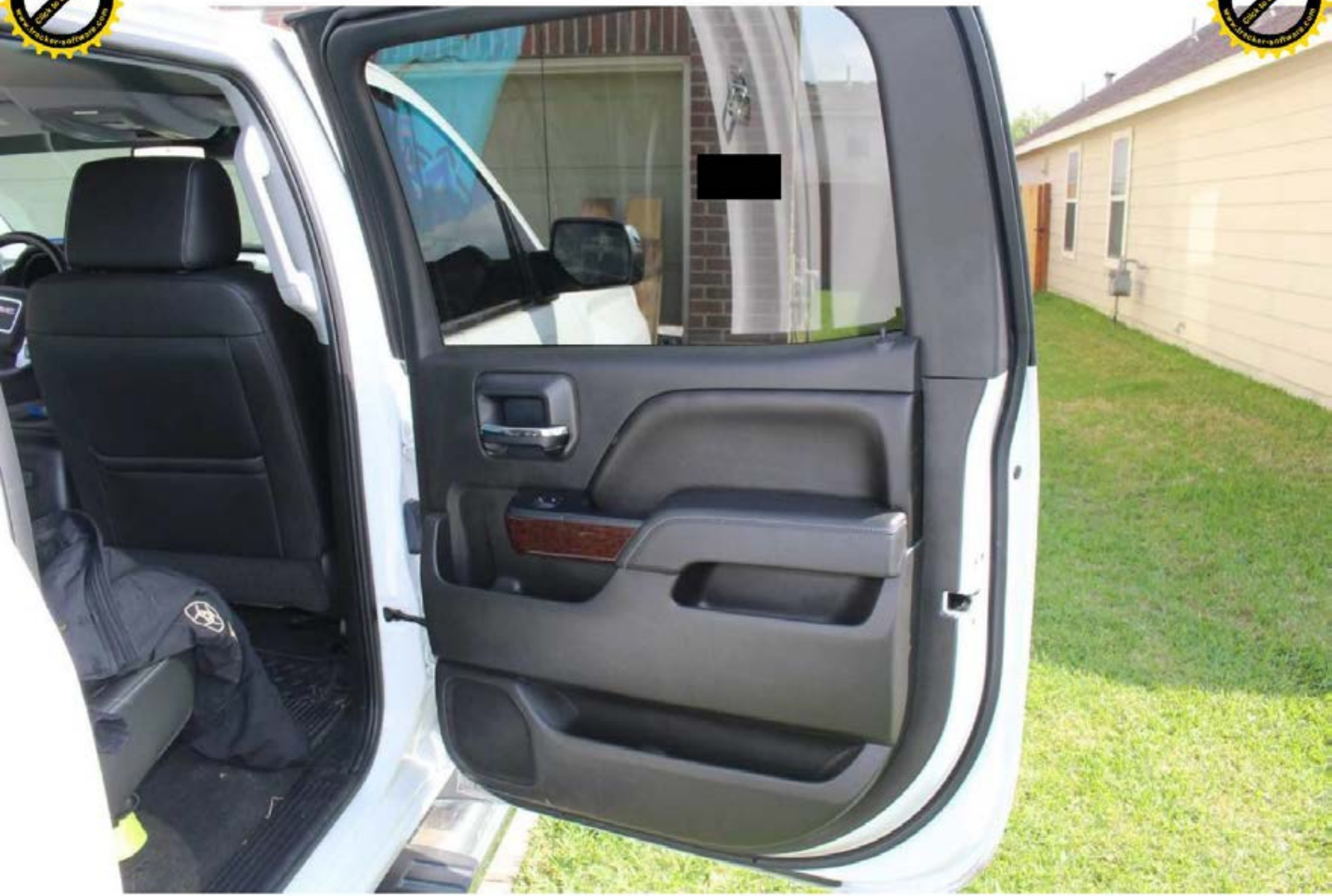
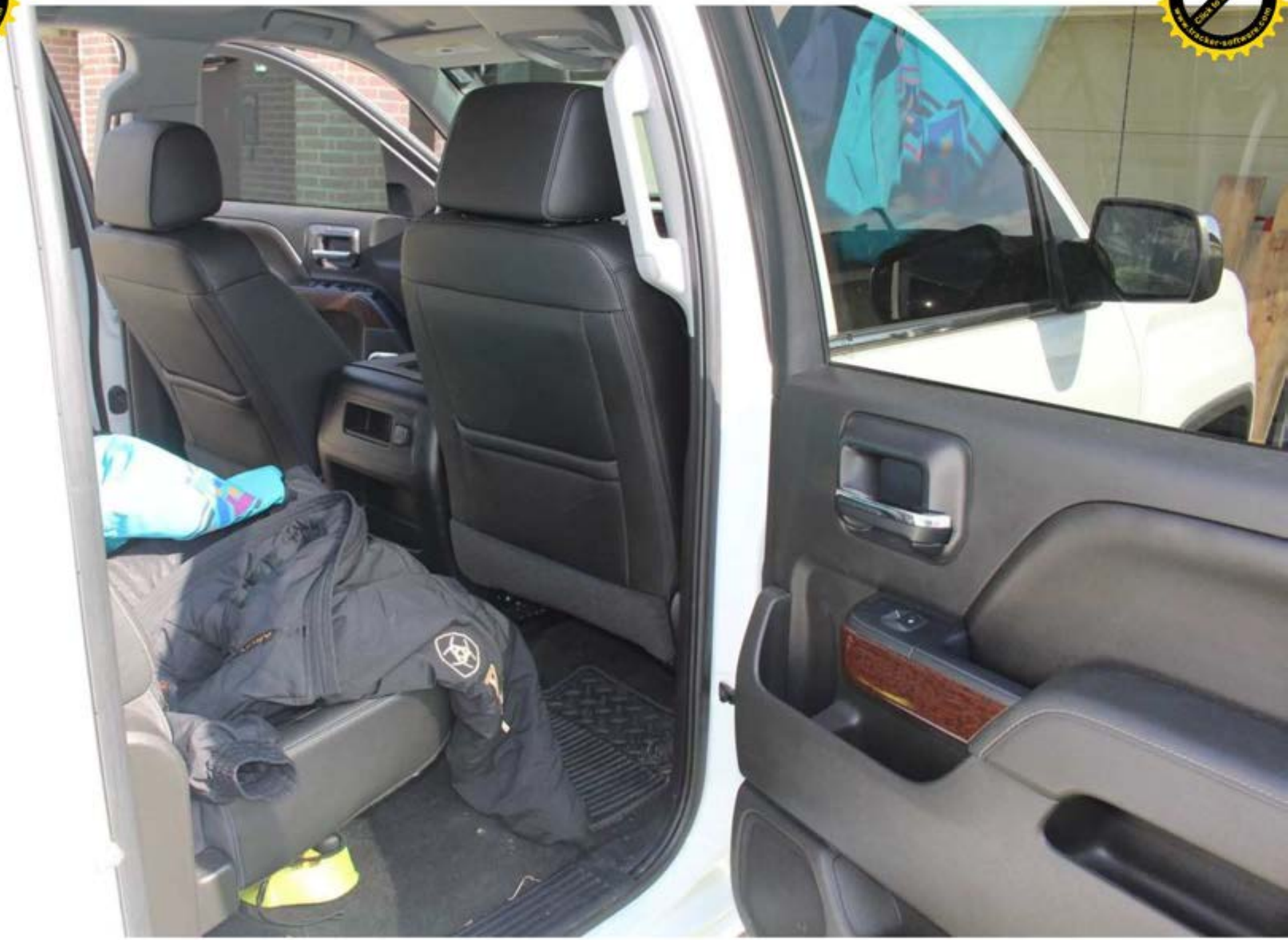
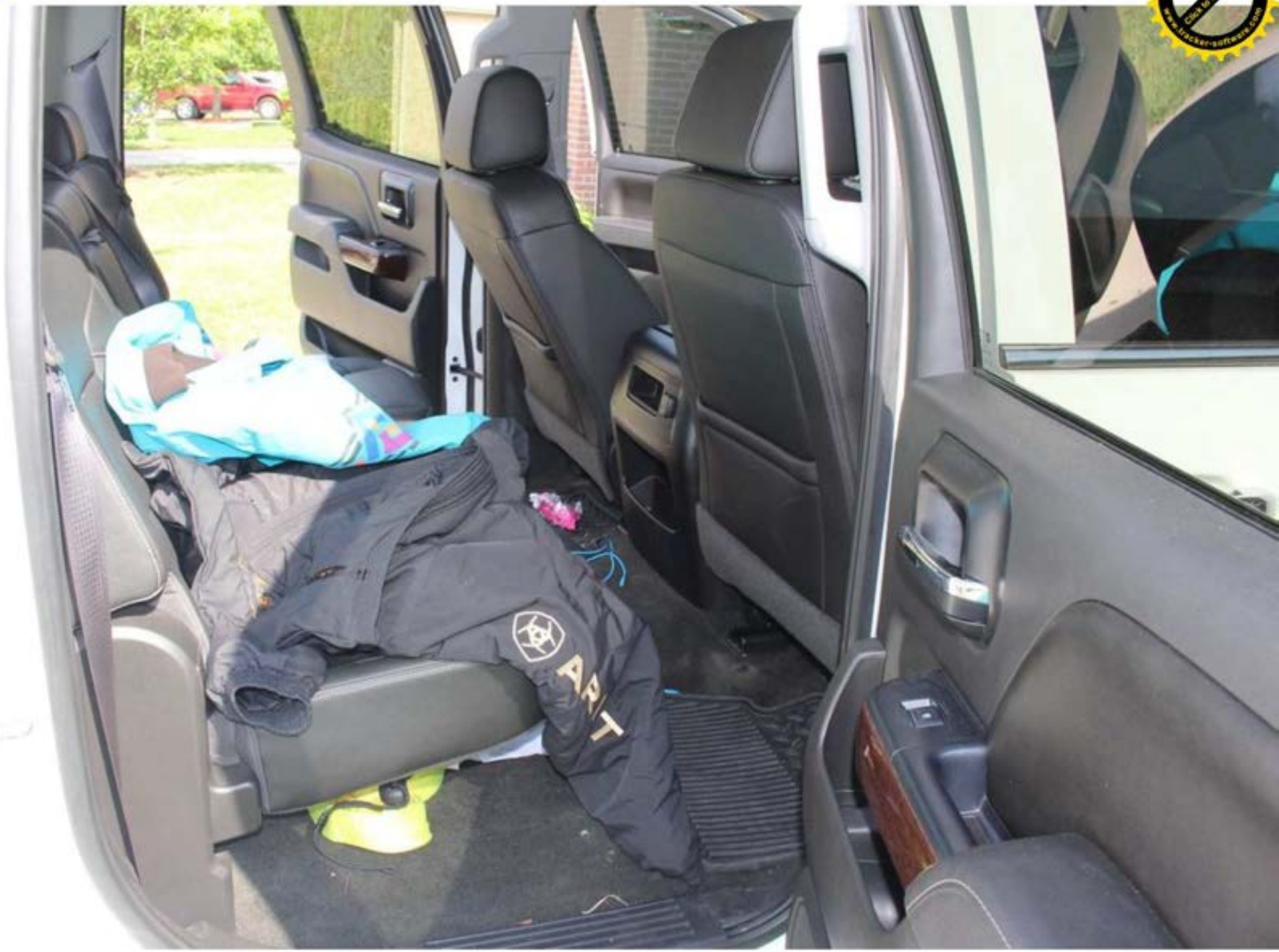
41
46
1 APO 2 (15A)
2 SEO RAP (10A)
3 UGDO/ISRVM (10A)
4 EMPTY
5 EMPTY
6 BCM 3 (20A)
7 BCM 5 (10A)
8 MIR WNDW MDL (10A)
9 SPARE (15A)
10 APO/RAP (50A)
11 APO/BATT (50A)
12 APO 1/LTR (15A)
13 DLIS (2A)
14 SWC BKLT (2A)
15 EMPTY
16 EMPTY
17 BCM 1 (10A)
18 EMPTY
19 EMPTY
20 EMPTY
21 EMPTY
22 HVAC/AUX HVAC IGN (15A/15A)
23 IPC IGN/SDM IGN (10A/10A)
24 SPARE (15A/15A)
25 DLC/DSM (10A/10A)
26 PEPS/HVAC (10A/10A)
27 THEFT (10A)
28 SPARE (10A)
29 PRK ENBL/EAP (15A)
30 SEO ALC (15A)
31 ACCY/RUN CRNK (10A)
32 HTD WHL (7.5A)
33 SPARE (10A)
34 IPC (10A)
35 EMPTY
36 SPARE (15A)
37 SPARE (30A)
38 SPARE (30A)
39 EMPTY
40 LT DRS (30A)
41 DRVR PWR SEAT (30A)
42 EMPTY
43 LT HTD CLD SEAT (15A)
44 RH FRT HTD CLD SEAT (15A)
45 SPARE (15A)
46 EMPTY
47 EMPTY
48 EMPTY
49 RAP/ACCY
50 RUN/CRNK
51 EMPTY
2334665





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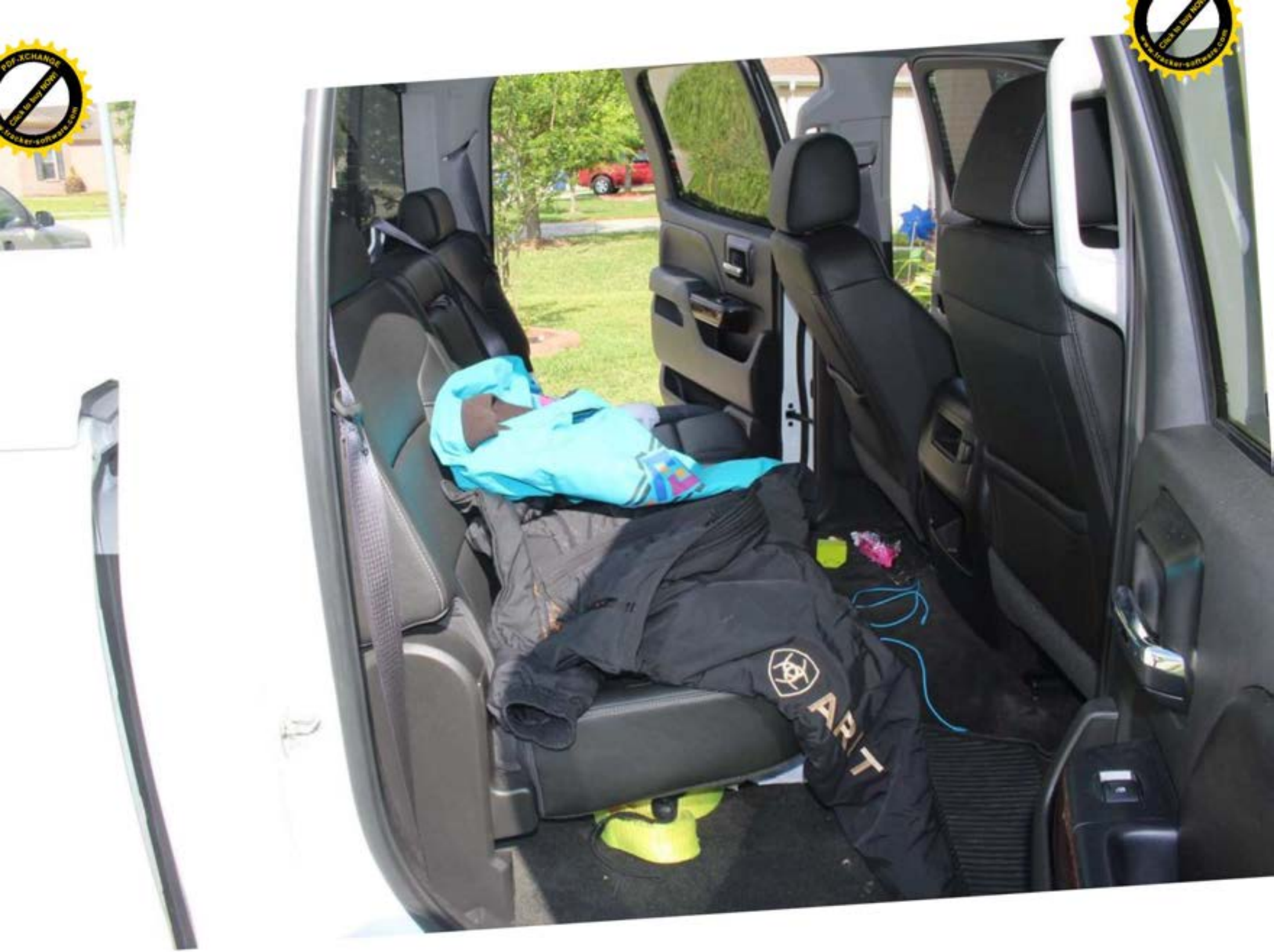
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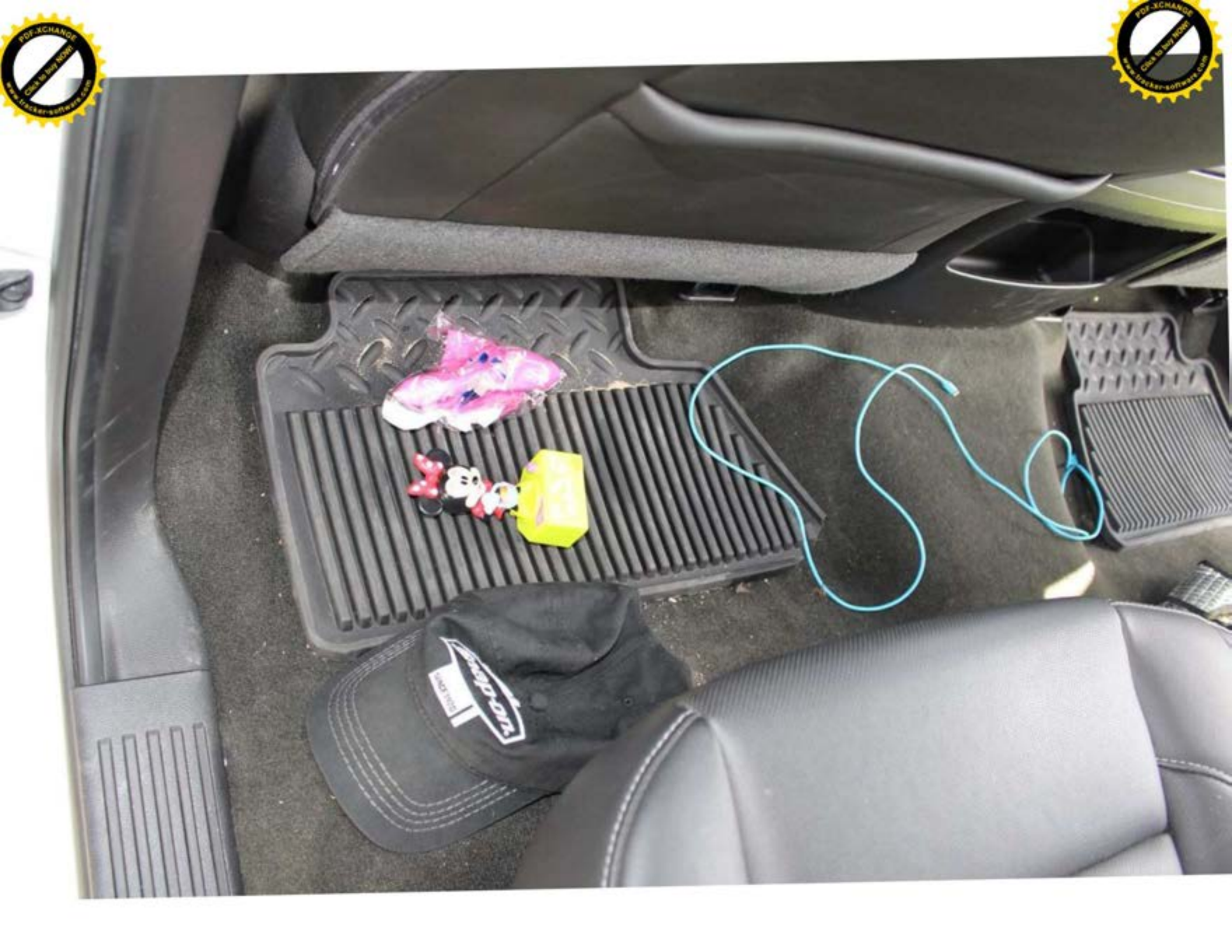

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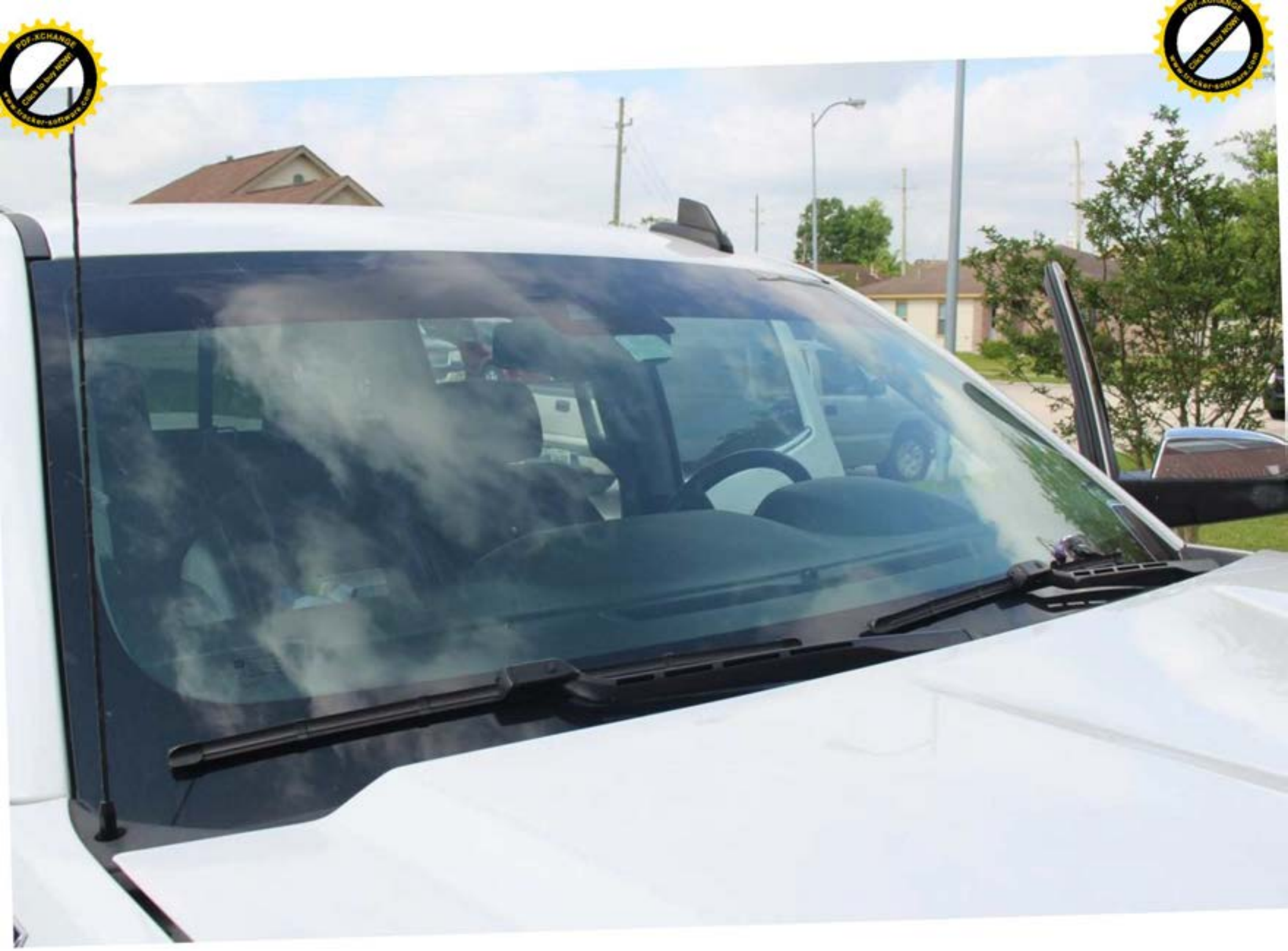


AIRBAG

AIRBAG


AIRBAG


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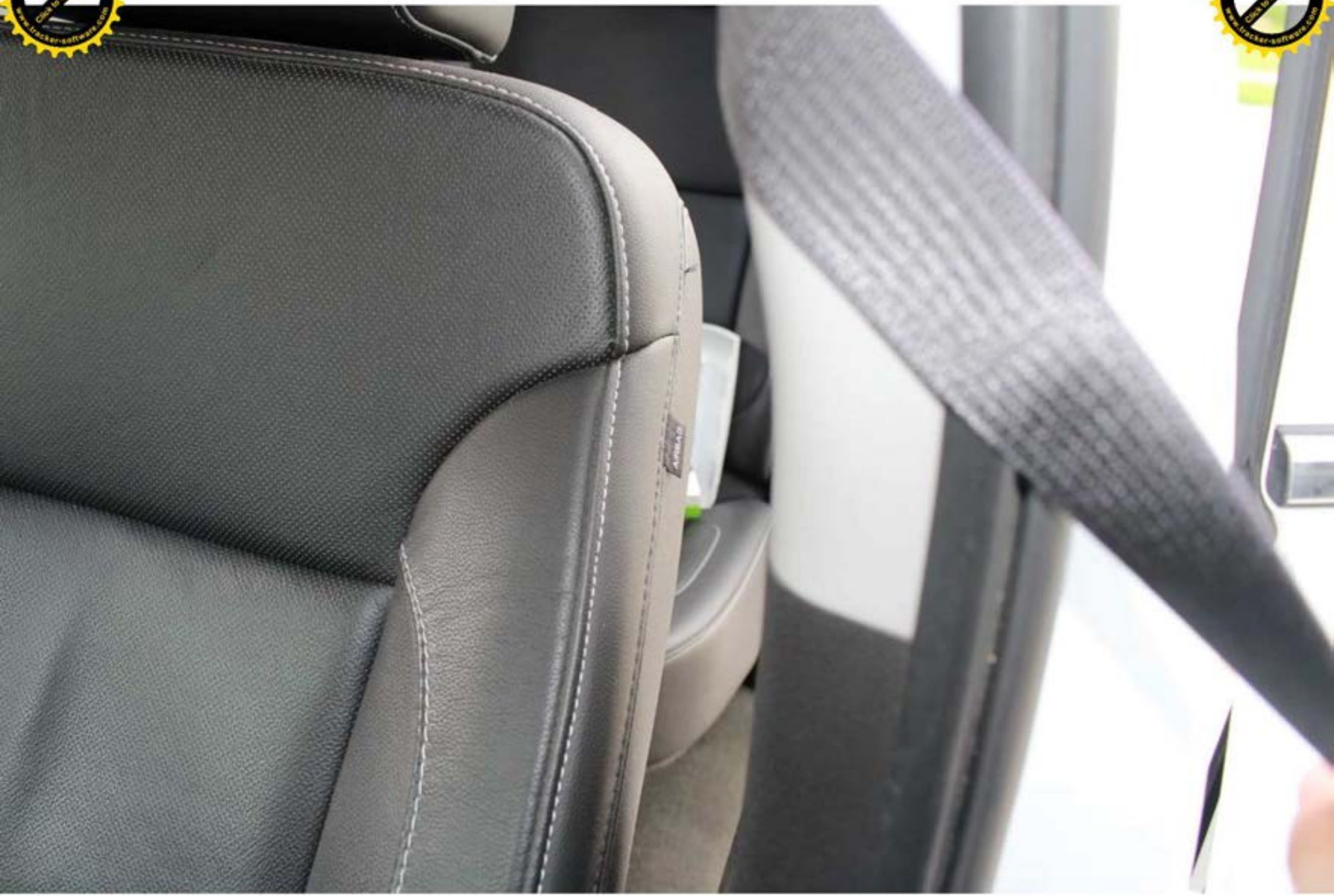


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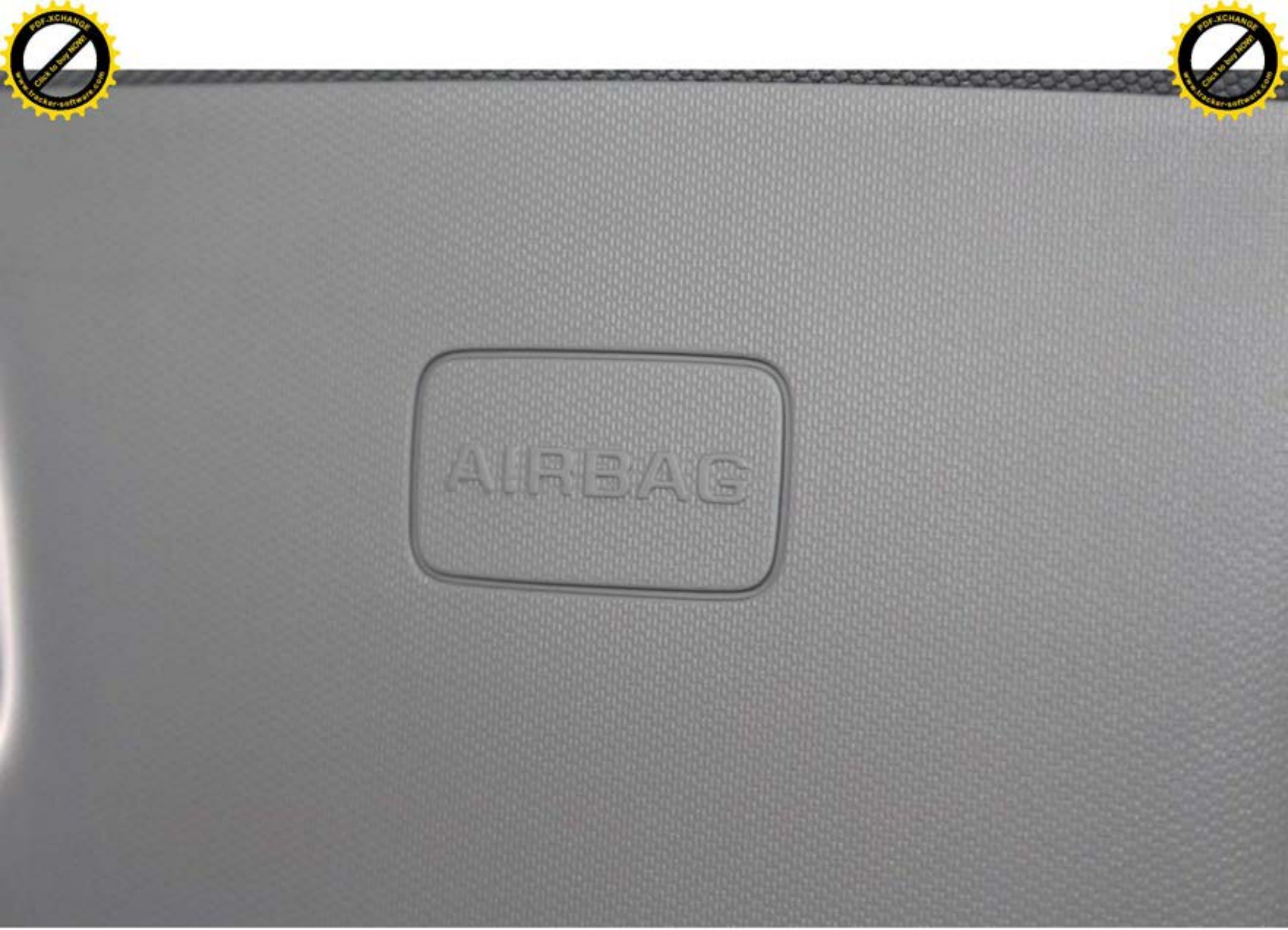
AIRBAG


GMC


GMC
AIRBAG


GMC
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AIRBAG


AIRBAG

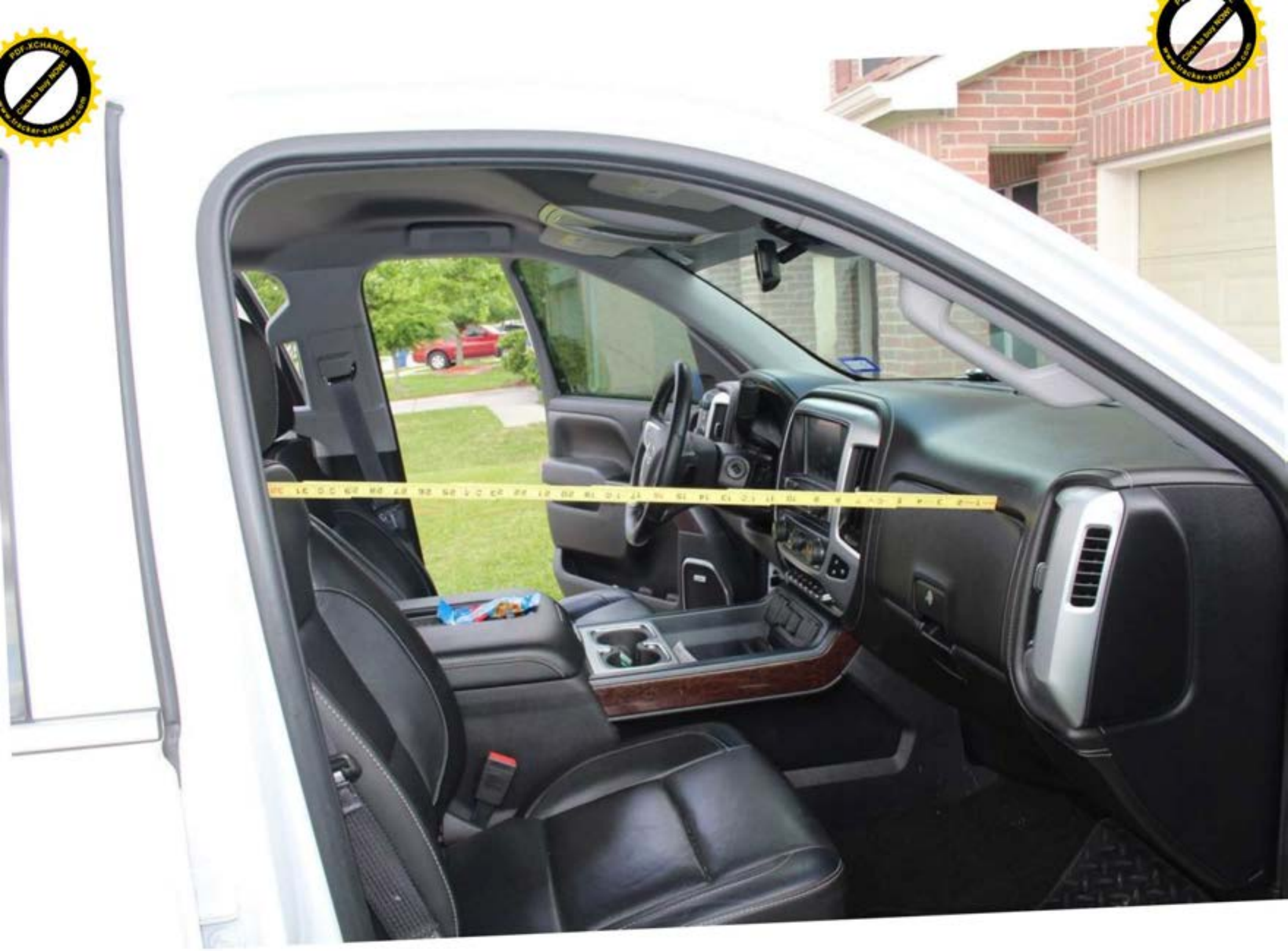

2
3
4
5


RPM
x1000


39 40 41 42 43 44 45 46
68 69 70 71


3 4 5 6 7 8 9 10


910-6
3
4
5




37
38
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40
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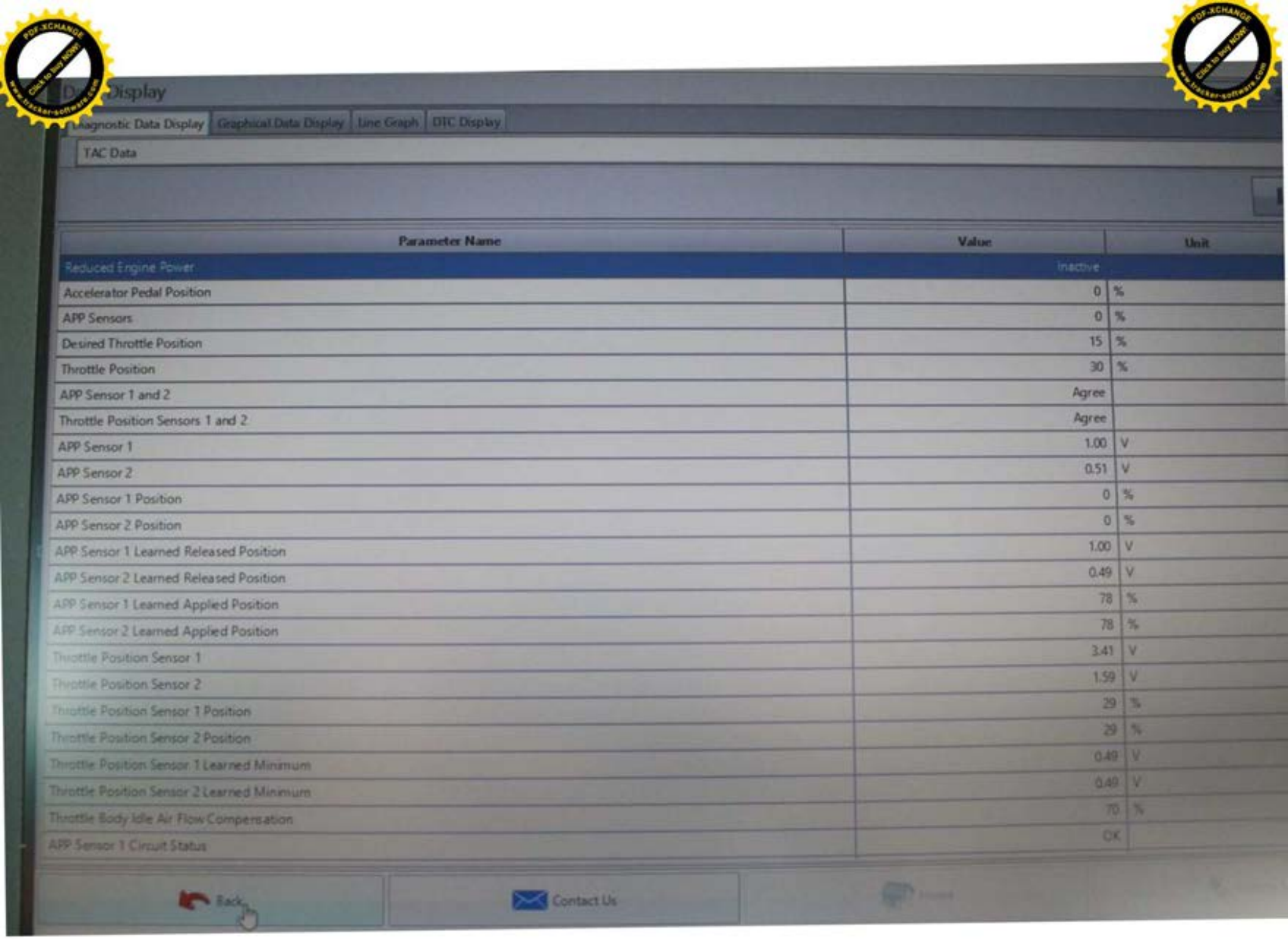
42
43
44

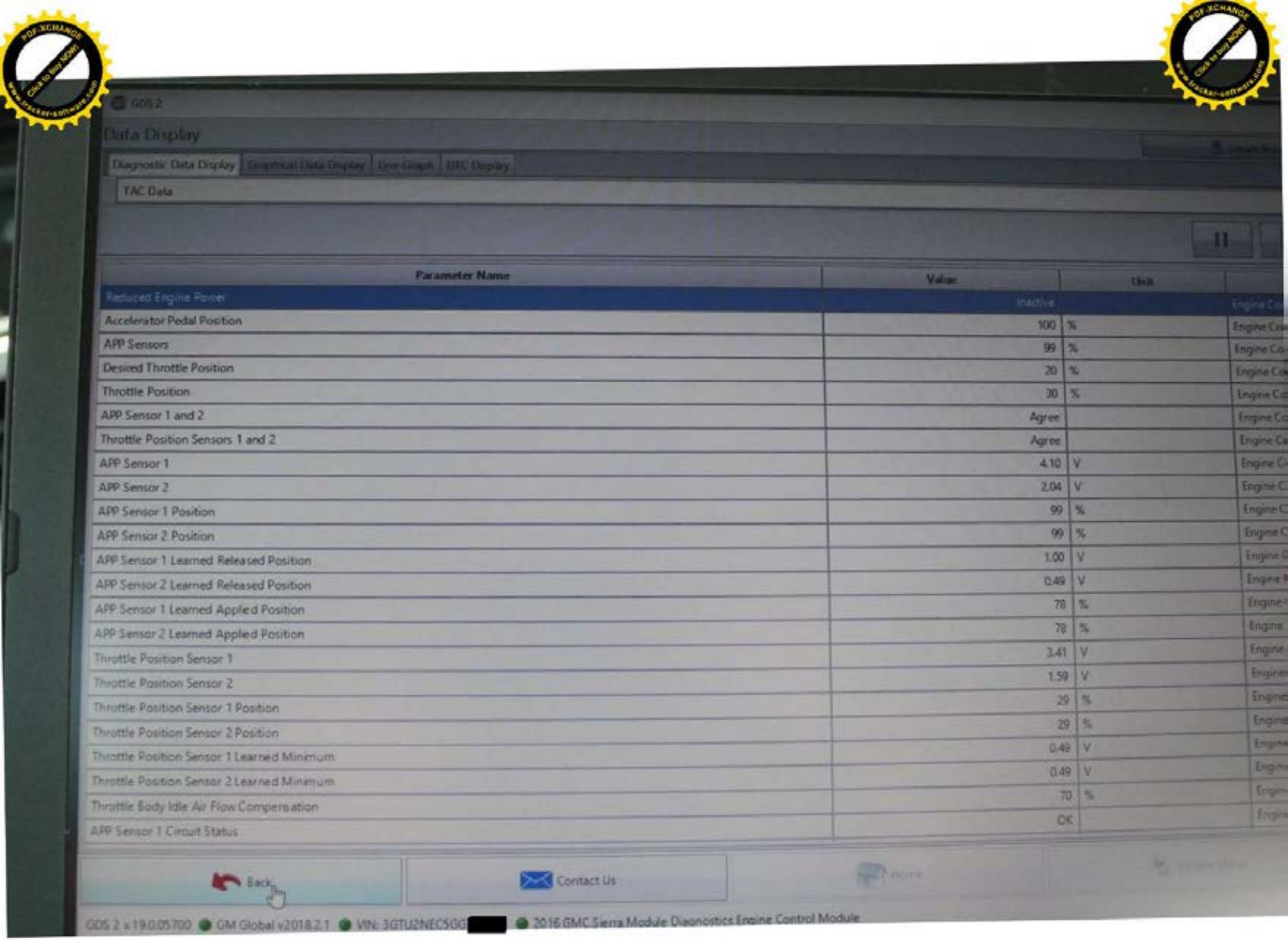

RPM
x1000
BRAKE
Tire Pressure (PSI)
38
39
35
37
50412mi
PRNDM
MPH


9
14
19
160
210
260
E
1/2
F
0
40
80
RPM
X1000
0
1
2
3
4
5
6
Tire Pressure (PSI)
38
39
35
37
50412mi
NE
PRNDM
MPH
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140


81°
10:45
100.3
KILT
[redacted]
Last Name
RADIO
MEDIA
BROWSE
MENU
92.9
100.3
99.3
103.7
97.1
RADIO
MEDIA
BACK
MENU
A/C
AUTO
SYNC


10:45
MENU
BROWSE
103.7
97.1
MENU
BACK
74
SYNC
REAR


Display
Diagnostic Data Display
Graphical Data Display
Line Graph
DTC Display
TAC Data
Parameter Name
Value
Unit
Reduced Engine Power
Inactive
Accelerator Pedal Position
0
%
APP Sensors
0
%
Desired Throttle Position
15
%
Throttle Position
30
%
APP Sensor 1 and 2
Agree
Throttle Position Sensors 1 and 2
Agree
APP Sensor 1
1.00
V
APP Sensor 2
0.51
V
APP Sensor 1 Position
0
%
APP Sensor 2 Position
0
%
APP Sensor 1 Learned Released Position
1.00
V
APP Sensor 2 Learned Released Position
0.49
V
APP Sensor 1 Learned Applied Position
78
%
APP Sensor 2 Learned Applied Position
78
%
Throttle Position Sensor 1
3.41
V
Throttle Position Sensor 2
1.59
V
Throttle Position Sensor 1 Position
29
%
Throttle Position Sensor 2 Position
29
%
Throttle Position Sensor 1 Learned Minimum
0.49
V
Throttle Position Sensor 2 Learned Minimum
0.49
V
Throttle Body Idle Air Flow Compensation
70
%
APP Sensor 1 Circuit Status
OK
Back
Contact Us


GDS 2
Data Display
Diagnostic Data Display
Graphical Data Display
Live Graph
DTC Display
TAC Data
Parameter Name
Value
Unit
Reduced Engine Power
Inactive
Accelerator Pedal Position
100
%
APP Sensors
99
%
Desired Throttle Position
20
%
Throttle Position
30
%
APP Sensor 1 and 2
Agree
Throttle Position Sensors 1 and 2
Agree
APP Sensor 1
4.10
V
APP Sensor 2
2.04
V
APP Sensor 1 Position
99
%
APP Sensor 2 Position
99
%
APP Sensor 1 Learned Released Position
1.00
V
APP Sensor 2 Learned Released Position
0.49
V
APP Sensor 1 Learned Applied Position
78
%
APP Sensor 2 Learned Applied Position
78
%
Throttle Position Sensor 1
3.41
V
Throttle Position Sensor 2
1.59
V
Throttle Position Sensor 1 Position
29
%
Throttle Position Sensor 2 Position
29
%
Throttle Position Sensor 1 Learned Minimum
0.49
V
Throttle Position Sensor 2 Learned Minimum
0.49
V
Throttle Body Idle Air Flow Compensation
70
%
APP Sensor 1 Circuit Status
OK
Back
Contact Us
GDS 2 x19.0.05700
GM Global v2018.2.1
VIN: 3GTU2NEC5GG
2016 GMC Sierra Module Diagnostics Engine Control Module

Display

Diagnostic Data Display | Graphical Data Display | Line Graph | DTC Display

TAC Data

Parameter Name	Value	Unit	
Reduced Engine Power	Inactive		Engine Control
Accelerator Pedal Position	0	%	Engine Control
APP Sensors	0	%	Engine Control
Desired Throttle Position	15	%	Engine Control
Throttle Position	30	%	Engine Control
APP Sensor 1 and 2	Agree		Engine Control
Throttle Position Sensors 1 and 2	Agree		Engine Control
APP Sensor 1	1.02	V	Engine Control
APP Sensor 2	0.51	V	Engine Control
APP Sensor 1 Position	0	%	Engine Control
APP Sensor 2 Position	0	%	Engine Control
APP Sensor 1 Learned Released Position	1.00	V	Engine Control
APP Sensor 2 Learned Released Position	0.49	V	Engine Control
APP Sensor 1 Learned Applied Position	78	%	Engine Control
APP Sensor 2 Learned Applied Position	78	%	Engine Control
Throttle Position Sensor 1	3.41	V	Engine Control
Throttle Position Sensor 2	1.59	V	Engine Control
Throttle Position Sensor 1 Position	29	%	Engine Control
Throttle Position Sensor 2 Position	29	%	Engine Control
Throttle Position Sensor 1 Learned Minimum	0.49	V	Engine Control
Throttle Position Sensor 2 Learned Minimum	0.49	V	Engine Control
Throttle Body Idle Air Flow Compensation	70	%	Engine Control
APP Sensor 1 Circuit Status	OK		Engine Control

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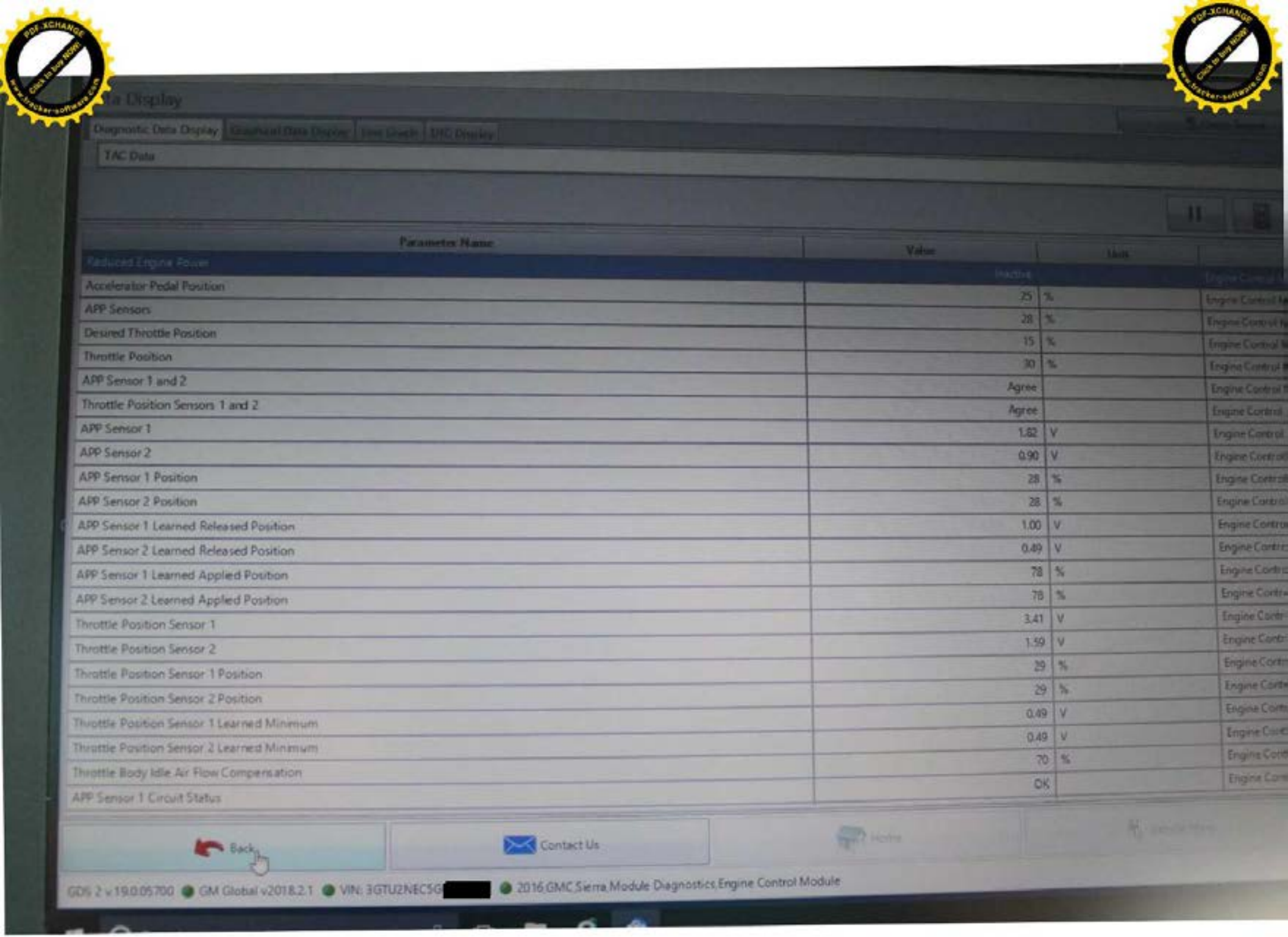
GDS 2 v.19.0.05700 | GM Global v2018.2.1 | VIN: 3GTU2NEC5G[redacted] | 2016 GMC Sierra Module Diagnostics Engine Control Module


Diagnostic Data Display
TAC Data
Parameter Name
Value
Unit
Reduced Engine Power
Inactive
Accelerator Pedal Position 25 %
APP Sensors 28 %
Desired Throttle Position 15 %
Throttle Position 30 %
APP Sensor 1 and 2 Agree
Throttle Position Sensors 1 and 2 Agree
APP Sensor 1 1.62 V
APP Sensor 2 0.90 V
APP Sensor 1 Position 28 %
APP Sensor 2 Position 28 %
APP Sensor 1 Learned Released Position 1.00 V
APP Sensor 2 Learned Released Position 0.49 V
APP Sensor 1 Learned Applied Position 78 %
APP Sensor 2 Learned Applied Position 78 %
Throttle Position Sensor 1 3.41 V
Throttle Position Sensor 2 1.59 V
Throttle Position Sensor 1 Position 29 %
Throttle Position Sensor 2 Position 29 %
Throttle Position Sensor 1 Learned Minimum 0.49 V
Throttle Position Sensor 2 Learned Minimum 0.49 V
Throttle Body Idle Air Flow Compensation 70 %
APP Sensor 1 Circuit Status OK
Back
Contact Us
GDS 2 v.19.0.05700
GM Global v2018.2.1
VIN: 3GTU2NEC5G
2016 GMC Sierra Module Diagnostics Engine Control Module

n Display

Diagnostic Data Display | Graphical Data Display | Data Graph | DTC Display

TAC Data

Parameter Name	Value	Unit	
Reduced Engine Power	INACTIVE		Engine Control
Accelerator Pedal Position	0	%	Engine Control
APP Sensors	1	%	Engine Control
Desired Throttle Position	15	%	Engine Control
Throttle Position	30	%	Engine Control
APP Sensor 1 and 2	Agree		Engine Control
Throttle Position Sensors 1 and 2	Agree		Engine Control
APP Sensor 1	1.02	V	Engine Control
APP Sensor 2	0.51	V	Engine Control
APP Sensor 1 Position	1	%	Engine Control
APP Sensor 2 Position	1	%	Engine Control
APP Sensor 1 Learned Released Position	1.00	V	Engine Control
APP Sensor 2 Learned Released Position	0.49	V	Engine Control
APP Sensor 1 Learned Applied Position	78	%	Engine Control
APP Sensor 2 Learned Applied Position	78	%	Engine Control
Throttle Position Sensor 1	3.41	V	Engine Control
Throttle Position Sensor 2	1.59	V	Engine Control
Throttle Position Sensor 1 Position	29	%	Engine Control
Throttle Position Sensor 2 Position	29	%	Engine Control
Throttle Position Sensor 1 Learned Minimum	0.49	V	Engine Control
Throttle Position Sensor 2 Learned Minimum	0.49	V	Engine Control
Throttle Body Idle Air Flow Compensation	70	%	Engine Control
APP Sensor 1 Circuit Status	OK		Engine Control

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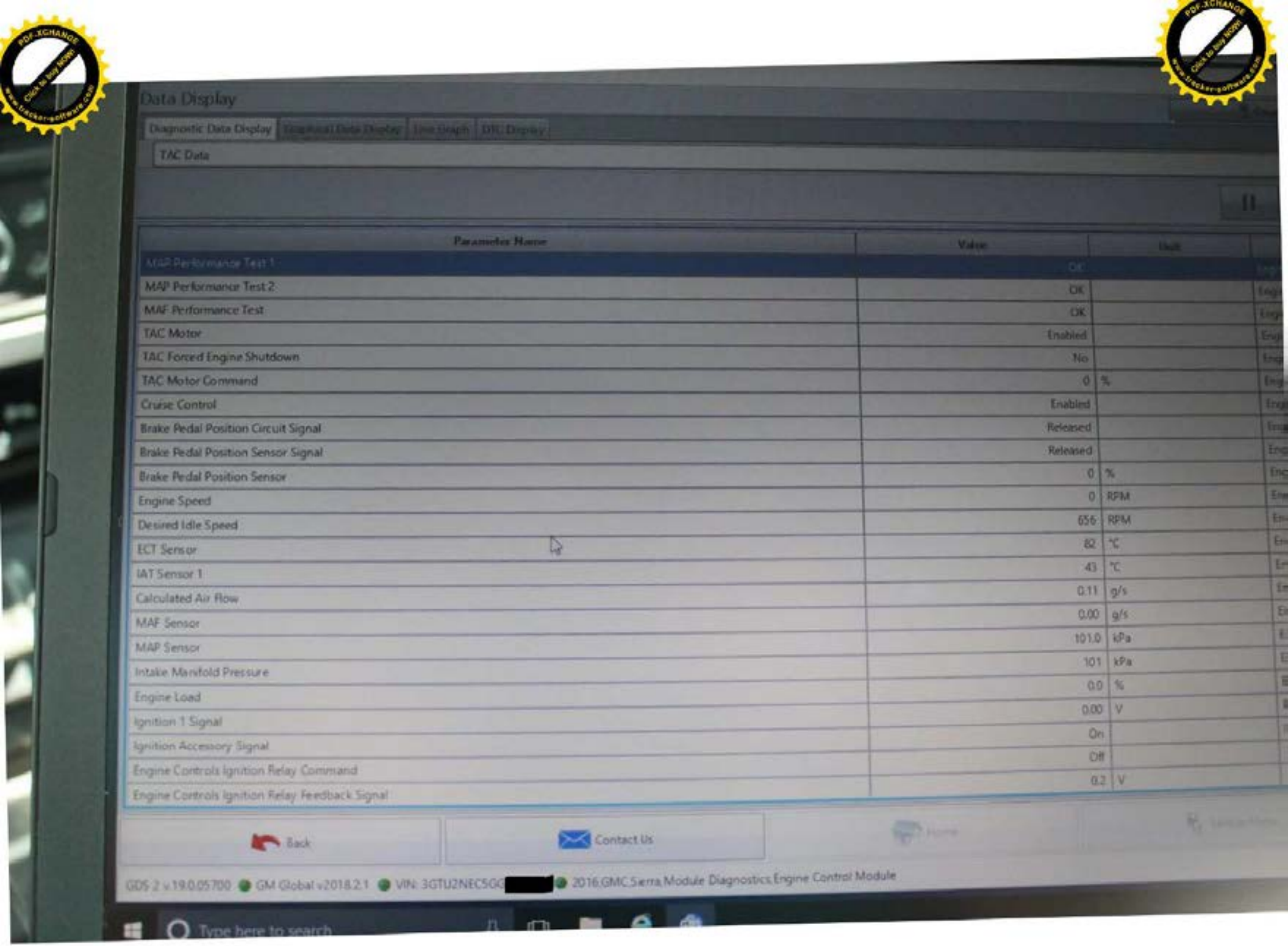
GDS 2 v.19.0.05700 | GM Global v2018.2.1 | VIN: 3GTU2NEC5G[redacted] | 2016 GMC Sierra,Module Diagnostics,Engine Control Module


Data Display
Diagnostic Data Display
TAC Data
Parameter Name
Value
MAP Performance Test 1
OK
MAP Performance Test 2
OK
MAF Performance Test
OK
TAC Motor
Enabled
TAC Forced Engine Shutdown
No
TAC Motor Command
0 %
Cruise Control
Enabled
Brake Pedal Position Circuit Signal
Released
Brake Pedal Position Sensor Signal
Released
Brake Pedal Position Sensor
0 %
Engine Speed
0 RPM
Desired Idle Speed
656 RPM
ECT Sensor
82 °C
IAT Sensor 1
43 °C
Calculated Air Flow
0.11 g/s
MAF Sensor
0.00 g/s
MAP Sensor
101.0 kPa
Intake Manifold Pressure
101 kPa
Engine Load
0.0 %
Ignition 1 Signal
0.00 V
Ignition Accessory Signal
On
Engine Controls Ignition Relay Command
Off
Engine Controls Ignition Relay Feedback Signal
0.2 V
Back
Contact Us
GDS 2 v.19.0.05700
GM Global v2018.2.1
VIN: 3GTU2NEC5GG
2016 GMC Sierra Module Diagnostics Engine Control Module
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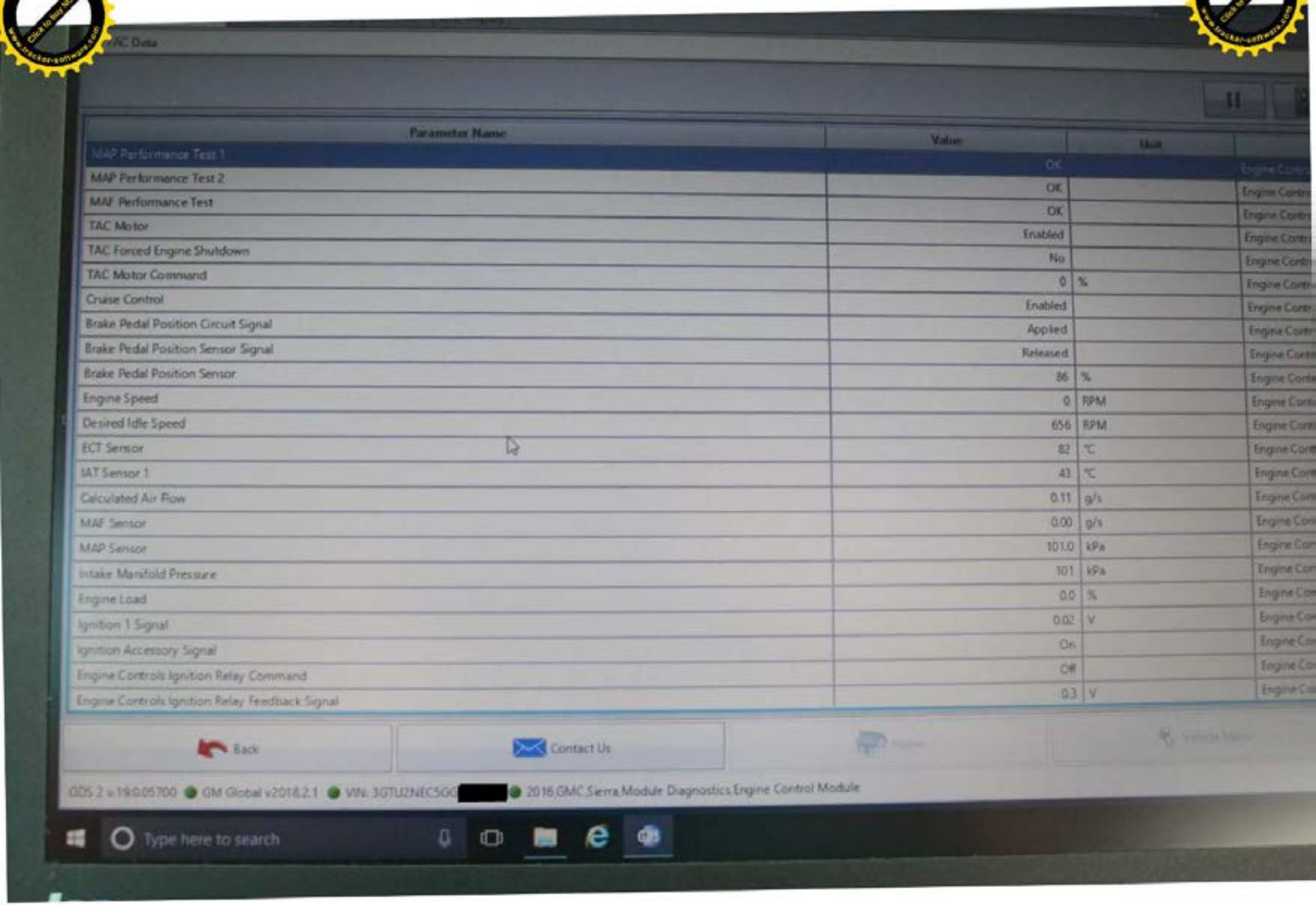
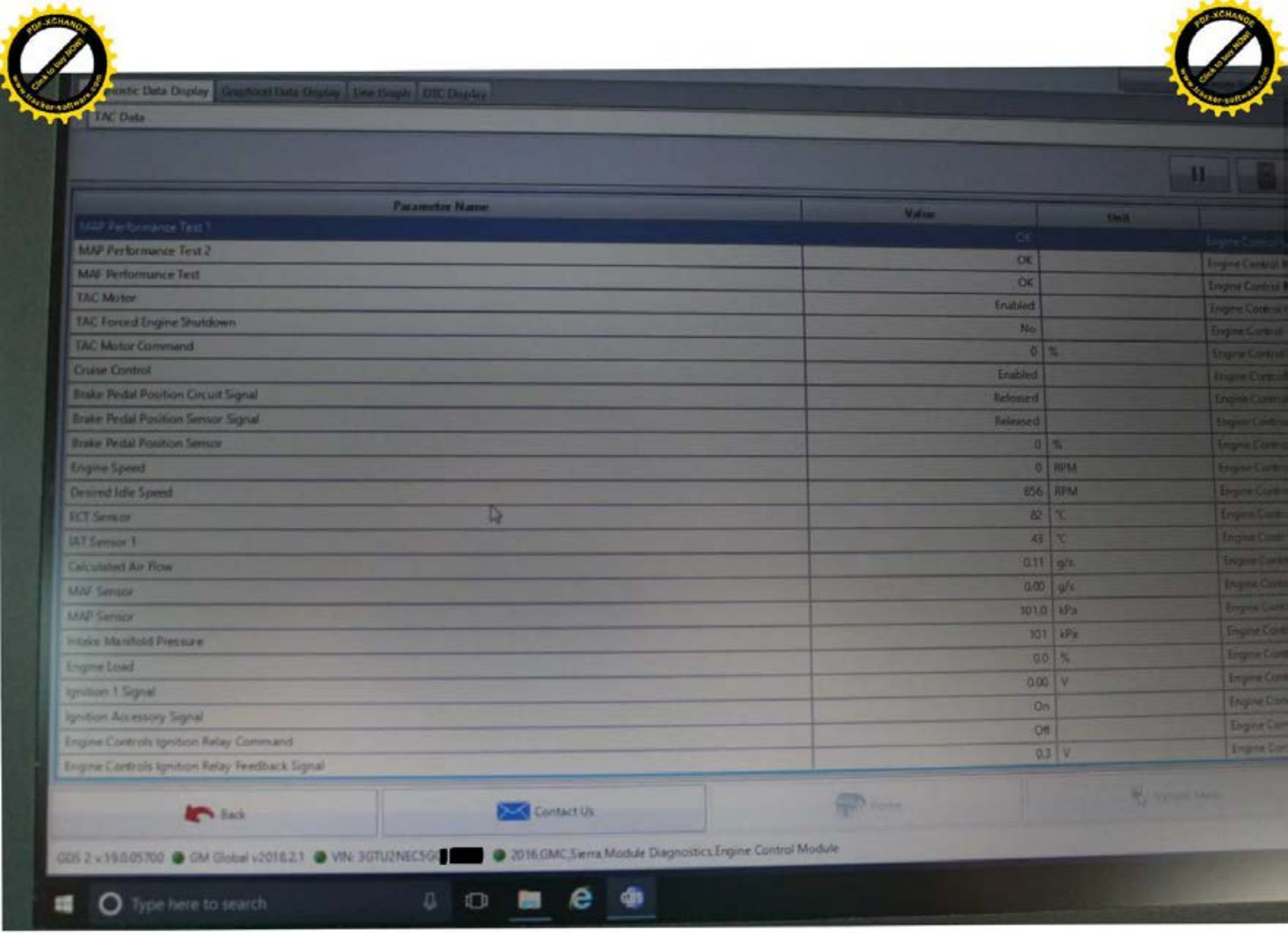



TAC Data
Parameter Name
Value
Unit
MAP Performance Test 1
OK
MAP Performance Test 2
OK
MAF Performance Test
OK
TAC Motor
Enabled
TAC Forced Engine Shutdown
No
TAC Motor Command
0
%
Cruise Control
Enabled
Brake Pedal Position Circuit Signal
Released
Brake Pedal Position Sensor Signal
Released
Brake Pedal Position Sensor
0
%
Engine Speed
0
RPM
Desired Idle Speed
656
RPM
ECT Sensor
IAT Sensor 1
Calculated Air Flow
0.11
g/s
MAF Sensor
0.00
g/s
MAP Sensor
101.0
kPa
Intake Manifold Pressure
101
kPa
Engine Load
0.0
%
Ignition 1 Signal
0.00
V
Ignition Accessory Signal
On
Engine Controls Ignition Relay Command
Off
Engine Controls Ignition Relay Feedback Signal
0.3
V
Back
Contact Us
GDS 2 v.19.0.05700
GM Global v2018.2.1
2016.GMC.Sierra.Module Diagnostics.Engine Control Module
Type here to search

GDS 2

Data Display

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

Parameter Name	Value	
Battery Voltage	14.3	V
5V Ignition Switch	Run	
Accessory	Active	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	4.0	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Active	
Run/Crank Relay Command	Active	


60
70
80
50
MPH
40
30
20

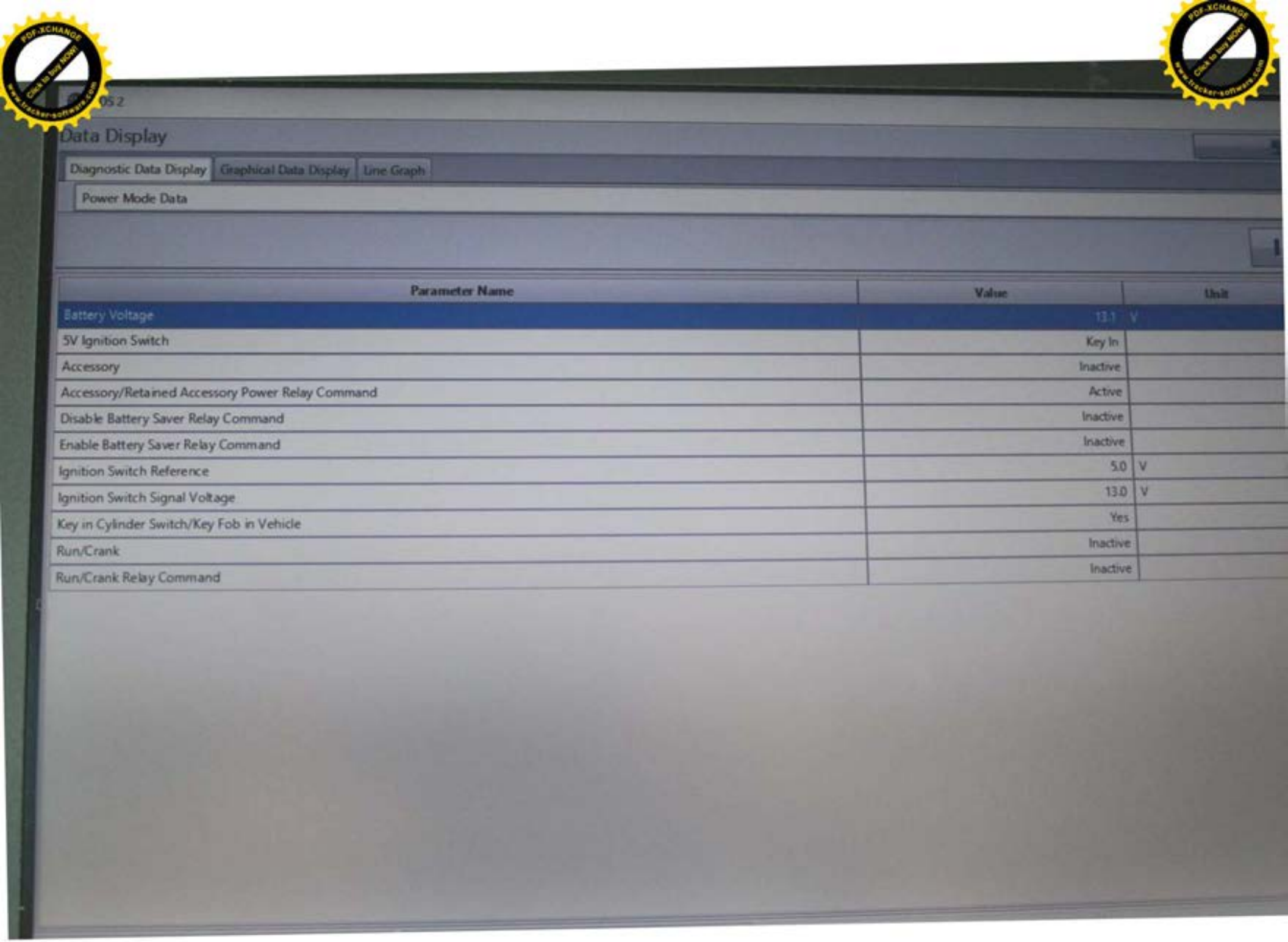
DS 2

Data Display

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

Parameter Name	Value	Unit
Battery Voltage	13.5	V
SV Ignition Switch	Accessory/Key Out	
Accessory	Active	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	0.0	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Inactive	
Run/Crank Relay Command	Inactive	



OS 2

Data Display

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

Parameter Name	Value	Unit
Battery Voltage	13.1	V
5V Ignition Switch	Key In	
Accessory	Inactive	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	13.0	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Inactive	
Run/Crank Relay Command	Inactive	

GDS 2

Data Display

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

Parameter Name	Value	Un
Battery Voltage	12.9	V
5V Ignition Switch	Accessory/Key Out	
Accessory	Inactive	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	0.0	V
Key in Cylinder Switch/Key Fob in Vehicle	No	
Run/Crank	Inactive	
Run/Crank Relay Command	Inactive	

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

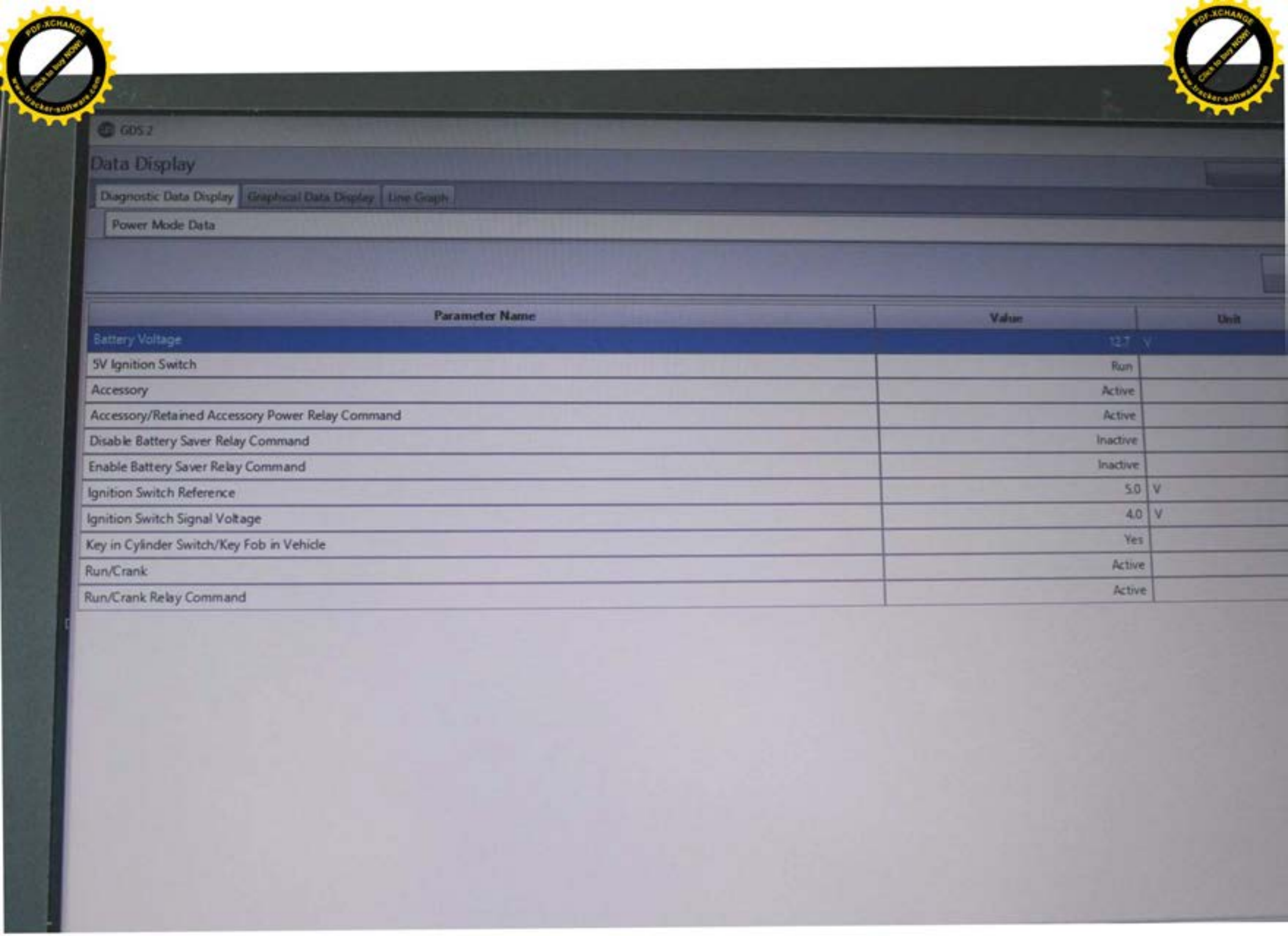
Parameter Name	Value	Unit
Battery Voltage	12.8	V
5V Ignition Switch	Key In	
Accessory	Inactive	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	12.8	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Inactive	
Run/Crank Relay Command	Inactive	

Data Display

Diagnostic Data Display | Graphical Data Display | Line Graph

Power Mode Data

Parameter Name	Value	Unit
Battery Voltage	12.7	V
5V Ignition Switch	Accessory/Key Out	
Accessory	Active	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	0.0	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Inactive	
Run/Crank Relay Command	Inactive	



Parameter Name	Value	Unit
Battery Voltage	12.7	V
5V Ignition Switch	Run	
Accessory	Active	
Accessory/Retained Accessory Power Relay Command	Active	
Disable Battery Saver Relay Command	Inactive	
Enable Battery Saver Relay Command	Inactive	
Ignition Switch Reference	5.0	V
Ignition Switch Signal Voltage	4.0	V
Key in Cylinder Switch/Key Fob in Vehicle	Yes	
Run/Crank	Active	
Run/Crank Relay Command	Active	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SM Data

Parameter Name	Value	Unit
Air Bag Malfunction Indicator	Off	
Driver Seat Belt Status	Unbuckled	
Driver Seat Belt Reminder Indicator	On	
Driver Seat Position Sensor Enable Status	Enabled	
Driver Seat Position Sensor	Rearward	
Passenger Seat Belt Status	Unbuckled	
Passenger Seat Belt Reminder Indicator	Off	
Passenger Seat Position Sensor Enable Status	Disabled	
Passenger Seat Position Sensor	Not Equipped	
Passenger Air Bag Status	Disabled	
Passenger Air Bag Disable Switch Enable Status	Disabled	
Passenger Air Bag Disable Switch	Off	
Passenger Air Bag On Indicator	Off	
Passenger Air Bag Off Indicator	On	
Passenger Presence System Enable Status	Enabled	
Passenger Presence Module Seat Occupancy Status	Empty Seat	
Passenger Presence Sensor Enable Status	Disabled	
Passenger Presence Sensor Seat Occupancy Status	Empty Seat	
Passenger Classification	Undefined	
Passenger Presence System Reporting DTC(s)	No	
2nd Row Left Seat Belt Status	Not Equipped	
2nd Row Middle Seat Belt Status	Not Equipped	
2nd Row Right Seat Belt Status	Not Equipped	

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SDM Data

Parameter Name	Value	Unit
Air Bag Malfunction Indicator	Off	
Driver Seat Belt Status	Buckled	
Driver Seat Belt Reminder Indicator	Off	
Driver Seat Position Sensor Enable Status	Enabled	
Driver Seat Position Sensor	Rearward	
Passenger Seat Belt Status	Unbuckled	
Passenger Seat Belt Reminder Indicator	Off	
Passenger Seat Position Sensor Enable Status	Disabled	
Passenger Seat Position Sensor	Not Equipped	
Passenger Air Bag Status	Disabled	
Passenger Air Bag Disable Switch Enable Status	Disabled	
Passenger Air Bag Disable Switch	Off	
Passenger Air Bag On Indicator	Off	
Passenger Air Bag Off Indicator	On	
Passenger Presence System Enable Status	Enabled	
Passenger Presence Module Seat Occupancy Status	Empty Seat	
Passenger Presence Sensor Enable Status	Disabled	
Passenger Presence Sensor Seat Occupancy Status	Empty Seat	
Passenger Classification	Undefined	
Passenger Presence System Reporting DTC(s)	No	
2nd Row Left Seat Belt Status	Not Equipped	
2nd Row Middle Seat Belt Status	Not Equipped	
2nd Row Right Seat Belt Status	Not Equipped	

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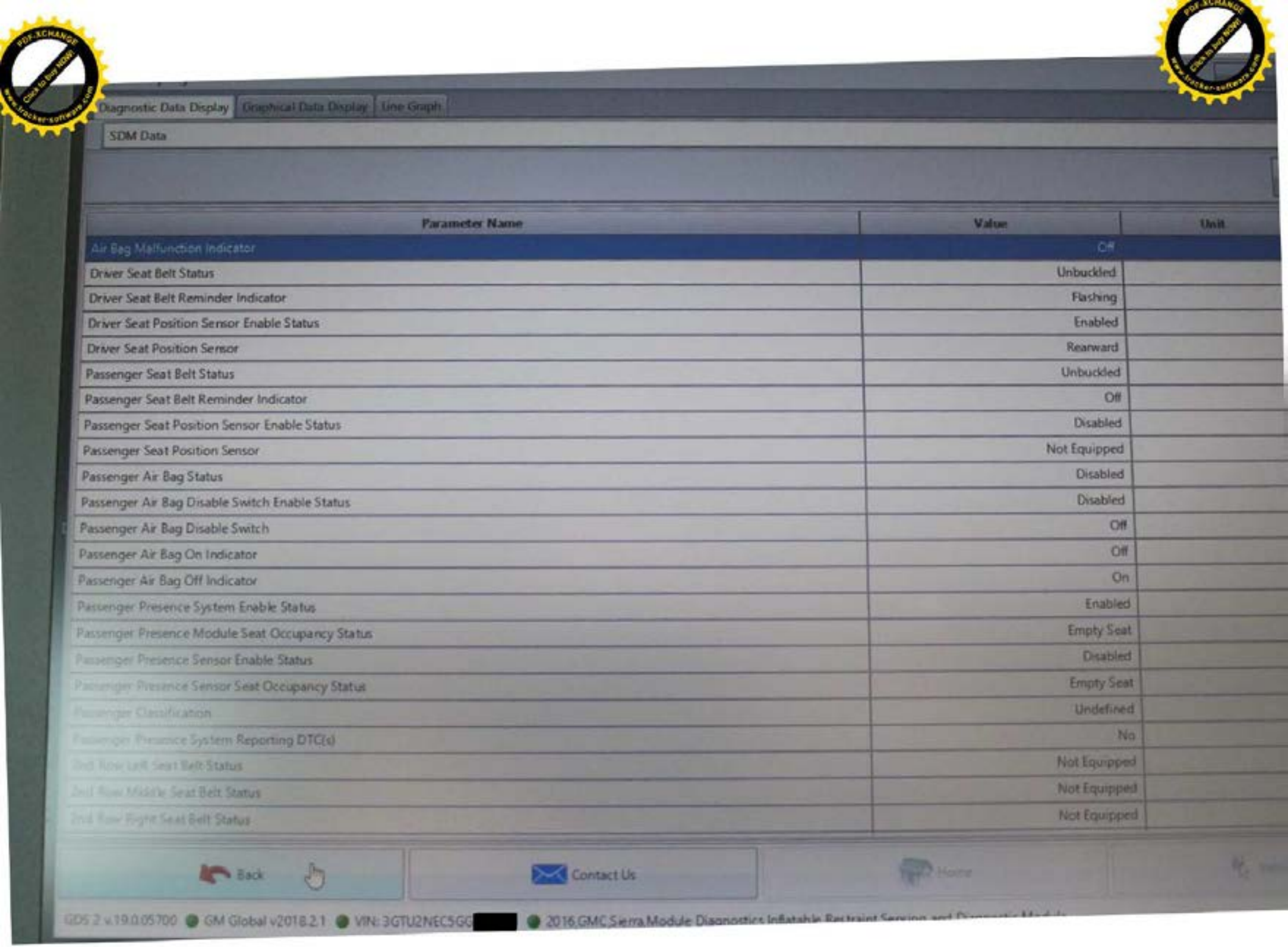
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Graphical Data Display
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SDM Data
Parameter Name
Value
Unit
Air Bag Malfunction Indicator
Off
Driver Seat Belt Status
Unbuckled
Driver Seat Belt Reminder Indicator
Flashing
Driver Seat Position Sensor Enable Status
Enabled
Driver Seat Position Sensor
Rearward
Passenger Seat Belt Status
Unbuckled
Passenger Seat Belt Reminder Indicator
Off
Passenger Seat Position Sensor Enable Status
Disabled
Passenger Seat Position Sensor
Not Equipped
Passenger Air Bag Status
Disabled
Passenger Air Bag Disable Switch Enable Status
Disabled
Passenger Air Bag Disable Switch
Off
Passenger Air Bag On Indicator
Off
Passenger Air Bag Off Indicator
On
Passenger Presence System Enable Status
Enabled
Passenger Presence Module Seat Occupancy Status
Empty Seat
Passenger Presence Sensor Enable Status
Disabled
Passenger Presence Sensor Seat Occupancy Status
Empty Seat
Passenger Classification
Undefined
Passenger Presence System Reporting DTC(s)
No
2nd Row Left Seat Belt Status
Not Equipped
2nd Row Middle Seat Belt Status
Not Equipped
2nd Row Right Seat Belt Status
Not Equipped
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GM Global v2018.2.1
VIN: 3GTU2NEC5GG
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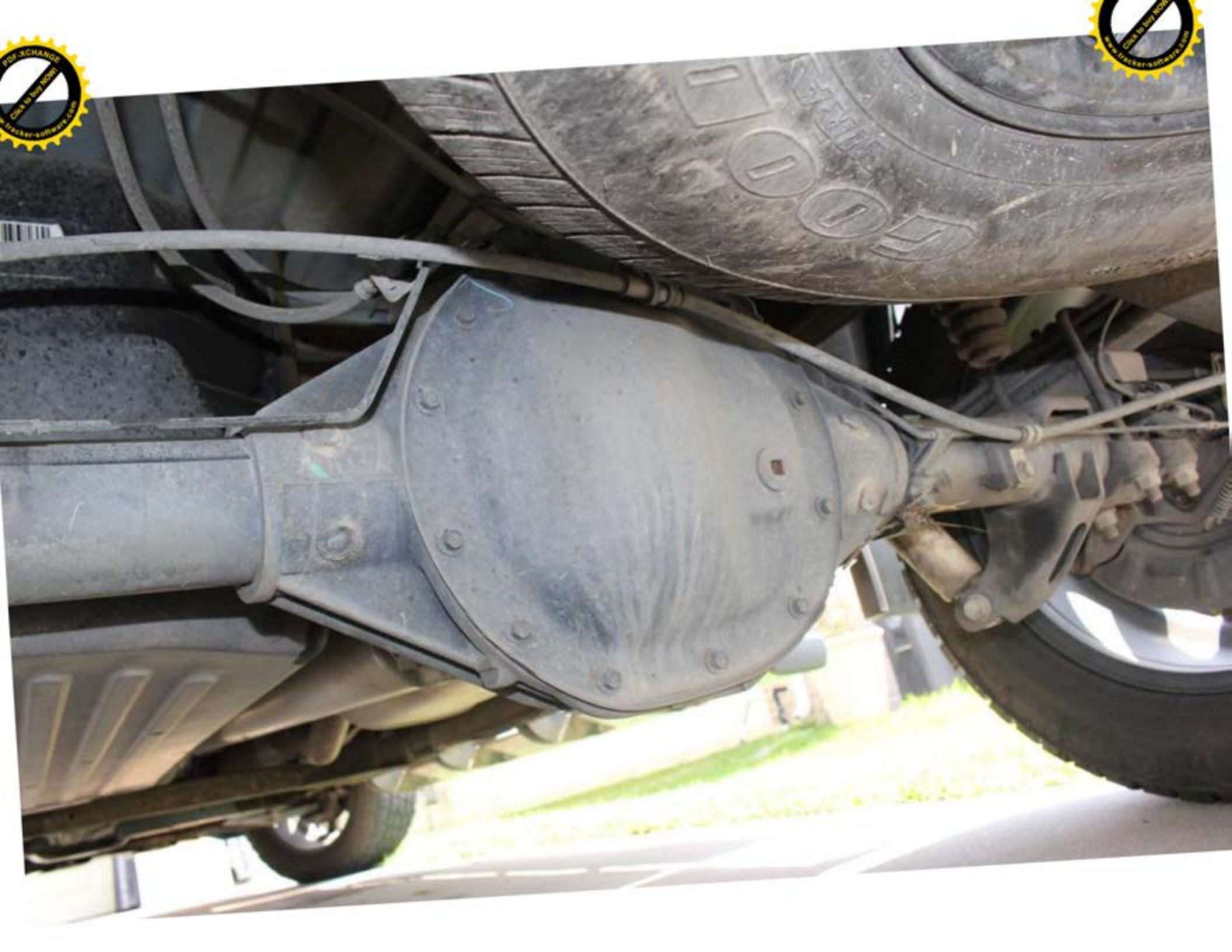


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