

## Diagnostic Software Update of Dec.

Diagnostic software coverage details are available in the following link:

<https://qcar.x431.com/qcar/>

### Passenger Car Software Upgrade

Software	Version	Update Info
IMM_ TOYOTA	V10.02	<ol style="list-style-type: none"><li>1. Summary Added Simulator Key Functions which cover Type 94、 98、 88/A8、 A9、 39 .</li><li>2. New Functions Added Read immobilizer data, Generate simulator key functions .</li><li>3. Optimized Functions None</li><li>4. Fixed Bugs None</li></ol>
CHRYSLER	V33.60	<ol style="list-style-type: none"><li>1. Summary Optimized basic functions and special functions for systems (such as the BCM, PCM, ABS, and TCM) of 2018-2020 models. Optimized ambient data stream functions for car models as of 2018. Optimized menus for 2022 car models.</li><li>2. New Functions None</li><li>3. Optimized Functions<ol style="list-style-type: none"><li>1) Added or optimized basic functions for car models such as 2018 Pacifica, 2018 Wrangler, 2019 Compass, 2019 Durango, 2019 Grand Commander, 2019 Ram 3500 Pickup, 2019 Renegade, 2019 Wrangler, 2020 Compass, 2020 Durango, 2020 Gladiator, 2020 Grand Commander, 2020 Pacifica, 2020 Ram 3500 Pickup, 2020 Renegade, 2020 Wrangler, 2021 Ram 3500 Pickup.</li><li>2) Added or optimized the following special functions for 2017 ProMaster, 2018 ProMaster, 2018 Renegade, 2019 Grand Commander, 2019 Wrangler, 2019 Renegade, 2020 Grand Commander, 2020 Renegade, 2020 Wrangler, 2021 Ram 1500: Program Additional Keys, PROXI alignment procedure, Selective Catalyst Reduction (SCR) replacement, Mission profile Data, GPF Regeneration Service Procedure</li><li>3) Added or optimized ambient data stream functions for car models such as 2020 Pacifica, 2019 Cherokee, 2018 Wrangler, 2019 Ram 2500, 2020 Renegade, 2018 ProMaster City, 2019 Ram 1500, 2020 Renegade, 2020 Renegade, 2019 Grand Commander, 2019 Compass, 2019 Renegade, 2020 Ram 3500 Pickup, 2019 Ram 1500, 2019 Wrangler, 2019 Renegade,</li></ol></li></ol>

		<p>2019 renegade, 2020 Cherokee, 2019 300.</p> <p>4) Added or optimized menus for car models such as 2022 Ram 3500 Pickup, Ram 3500 Cab Chassis, Ram 3500 Cab Chassis 10K, Ram 2500, Ram 4500/5500, Ram 1500, Ram 1500, Ram(Mexico), Wrangle, Gladiator, Cherokee, Challenger, Charger, 300, Compass, Durango, Grand Cherokee.</p> <p>4. Fixed Bugs None</p>
MITSUBISHI	V34.00	<p>1. Summary Added basic functions and optimized special functions for some car models.</p> <p>2. New Functions Added basic functions for all systems of EK-X / EK-WAGON (B3#), EK-X-SPACE / EK-SPACE (B3#).</p> <p>3. Optimized Functions 1) Optimized the blind spot radar calibration function for OUTLANDER, etc. 2) Optimized the image calibration function for the lane keeping system of Mitsubishi. 3) Optimized special functions and the coding function for the immobilizer system of some car models.</p> <p>4. Fixed Bugs 1) Rectified the lateral acceleration sensor calibration failure for some Mitsubishi models. 2) Fixed the DTC display bug for the engine system of old Mitsubishi models.</p>
IMM_HCX	V10.01	<p>1. Summary Support the anti-theft function of 750,750(Export), X30(Export),529</p> <p>2. New Functions Support Include Remote Control Manual Matching, Body Module Matching, Engine Module Matching</p> <p>3. Optimized Functions None.</p> <p>4. Fixed Bugs None</p>
RENAULT	V43.40	<p>1. Summary Added basic functions, actuation test, and configuration function for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of EXPRESS II and MEGANE IV SEDAN ph2. Optimized basic functions for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of KOLEOS,KADJAR,MEGANE IV,KOLEOS II,ARKANA, ALPINE A110,CAPTUR,CAPTUR II,ESPACE V,DUSTER PH3,LOGAN II/SANDERO II,NEW ZOE,TWINGO III, TALISMAN SM6,KWID,NEW SANDERO LOGAN, TRIBER,TRAFIC III,CITY K-ZE, etc.</p> <p>2. New Functions 1) Added basic functions, actuation test, and configuration function for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of EXPRESS II and MEGANE IV SEDAN ph2. 2) Optimized basic functions for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of KOLEOS,KADJAR,MEGANE IV,KOLEOS II,ARKANA,ALPINE A110,CAPTUR,CAPTUR II,ESPACE V,DUSTER PH3,LOGAN II/SANDERO</p>

		<p>II,NEW ZOE, TWINGO III,TALISMAN SM6,KWID,NEW SANDERO LOGAN,TRIBER,TRAFIC III,CITY K-ZE, etc.</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
PORSCHE	V23.90	<p>1. Summary Optimized the part numbers for MACAN, 991, 981, Cayenne, Panamera, 918 Spyder, etc. Synchronously supported system-wide diagnostic functions to the models up to 2021.</p> <p>2. New Functions None</p> <p>3. Optimized Functions Optimized the online programming function.</p> <p>4. Fixed Bugs 1) Optimized the part numbers for MACAN, 991, 981, Cayenne, Panamera, 918 Spyder, etc. Synchronously supported system-wide diagnostic functions to the models up to 2021. 2) Optimized the topology diagnosis function.</p>
FIAT	V36.65	<p>1. Summary Fixed the data stream reading bug for some car 500X models as of 2019, Optimized the ADAS process.</p> <p>2. New Functions None</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
TOYOTA	V50.20	<p>1. Summary: Added special functions of Owner's Digital Key New Registration, Digital Key Code Reset and Guest Digital Key Code Reset for Toyota Camry, Highlander, RAV4 and more models; added special functions of Owner's Digital Key New Registration, Digital Key Code Reset and Guest Digital Key Code Reset for Lexus ES, LS, NX and more models; added special functions of Evaporative System Check, GPF Change, GPF Regeneration, Reading of GPF Learning Value, Writing of GPF Learning Value, Steering sensor revision, RADAR Alignment and more for ZN8; optimized diagnostic software structure.</p> <p>2. New Functions 1) Added special functions of Owner's Digital Key New Registration, Digital Key Code Reset and Guest Digital Key Code Reset for Toyota Camry, Highlander, RAV4 and more models. 2) Added special functions of Owner's Digital Key New Registration, Digital Key Code Reset and Guest Digital Key Code Reset for Lexus ES, LS, NX and more models. 3) Added special functions of Evaporative System Check, GPF Change, GPF Regeneration, Reading of GPF Learning Value, Writing of GPF Learning Value, Steering sensor revision, RADAR Alignment and more for ZN8.</p> <p>3. Optimized Functions Optimized diagnostic software structure.</p>

		<p>4. Fixed Bugs None</p>
SPRINTER	V21.42	<p>1. Summary Added the offline coding function for the engine, gearbox, instrument panel, airbag, headlamp, gateway, A/C, electronic ignition, SAM (Signal Acquisition and Actuation Control Module), body, and entertainment systems under the chassis 906 (as of 2013), 447, 448, 907, 910, 470, 471, 415.</p> <p>2. New Functions Added the offline coding function for the engine, gearbox, instrument panel, airbag, headlamp, gateway, A/C, electronic ignition, SAM (Signal Acquisition and Actuation Control Module), body, and entertainment systems under the chassis 906 (as of 2013), 447, 448, 907, 910, 470, 471, 415.</p> <p>3. Optimized Functions added the display of imperial units for the distance values and speed values of the ADAS calibration function.</p> <p>4. Fixed Bugs Rectified the failure to scan systems during automatic search and access for car models as of 2020 (chassis 907/910).</p>
SKODA	V28.31	<p>1. Summary Optimized Anti-theft Functions for the 4th generation and above Anti-theft System; optimized functions of Online Coding, Online Parameterization Configuration and more in the online functions, updated online security login data; optimized functions of Basic Adjustment, System Entry, Steering Angle Learning and Read DTCs for the system of some vehicle models.</p> <p>2. New Functions None</p> <p>3. Optimized Functions 1) Optimized Anti-theft functions for the 4th generation and above Anti-theft System; 2) Optimized functions of Online Coding, Online Parameterization Configuration and more in the online functions, updated online security login data; 3) Optimized the function of Basic Adjustment for the system of some vehicle models; 4) Optimized System Entry for the system of some vehicle models; 5) Optimized the function of Steering Angle Learning; 6) Optimized the function of Read DTCs for some vehicle models;</p> <p>4. Fixed Bugs None</p>
IMM_BENZ	V10.04	<p>1. Summary Added The Password Calculation (By Losing All Keys) Function For Several EIS Types. Added The Reading And Erasing Functions For Several Engines. Added The Reading And Erasing Functions For The ISM/DSM.</p> <p>2. New Functions 1) Added The Password Calculation (By Losing All Keys) Function For The EIS Of The W166, W197, W212, W218, W246, W172, W204, W207 Types. 2) Added The Reading And Erasing Functions For The Engines CR4.xx, CR5.xx, CR6.xx,</p>

		<p>CR60.xx, CRD.11, CRD2.xx, CRD3.xx, ME2.8.1, SIM4LE, SIM4LKE.</p> <p>3) Added The Reading And Erasing Functions For The ISM/DSM.</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
IMM_ CHERY EV	v10.01	<p>1. Summary Added Diagnostic Program for 18 ECUs of eQ/Arrizo 5e/eQ1 (S51EV ANT)/ Tiggo 3xe/S32EV(eQ2)/Arrizo 5e (Model Year Vehicle)/ eQ1 (eQ1 (S51EV ANT) ANT MODEL YEAR VEHICLE)/ Tiggo e/Arrizo e/Tiggo 3xe (Model Year Vehicle)/ Tiggo e (2021MY)/ eQ5 (ANT)(2020MY)/ eQ5 (ANT)(2021MY) models.</p> <p>2. New Functions Added Diagnostic Program for 18 ECUs of eQ/Arrizo 5e/eQ1 (S51EV ANT)/ Tiggo 3xe/S32EV(eQ2)/Arrizo 5e (Model Year Vehicle)/ eQ1 (eQ1 (S51EV ANT) ANT MODEL YEAR VEHICLE)/ Tiggo e/Arrizo e/Tiggo 3xe (Model Year Vehicle)/ Tiggo e (2021MY)/ eQ5 (ANT)(2020MY)/ eQ5 (ANT)(2021MY) models, including key learning and other diagnostic functions;</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
VOLVO	V44.54	<p>1. Summary Added ADAS menus for LYNK&amp;CO models. Optimized the DTC display for Volvo and LYNK&amp;CO models. Optimized some special functions for Volvo models. Corrected the ADAS function for some Volvo models.</p> <p>2. New Functions 1) Added ADAS menus for LYNK&amp;CO models, including ADAS system scanning, ADAS system selection, and ADAS special functions.</p> <p>3. Optimized Functions 2) Optimized the DTC display for Volvo and LYNK&amp;CO models. 3) Optimized the following ABS system special function for some Volvo models: calibrating brake control module (BCM) internal hydraulic control unit</p> <p>4. Fixed Bugs Fixed the following ADAS special function for models such as S90 (17-), V60 (19-), S90L, XC40, S60 (19-), V90 (17-), V90 Cross Country, XC60 (18-), XC90 (16-): ASDM radar and camera correction</p>
BENZ	V49.65	<p>1. Summary Added the coding function for some systems under chassis 211, 169, 164, 251, etc.</p> <p>2. New Functions Added the coding function for some systems under chassis 211, 169, 164, 251, etc.</p> <p>3. Optimized Functions Optimized the ADAS calibration function.</p> <p>4. Fixed Bugs Modified the following special function for the AAC system of chassis 221:</p>

		Breaking-in procedure after replacement of refrigerant compressor
MAZDA	V42.75	<ol style="list-style-type: none"> <li>1. Summary Added support for ADAS PRO+.</li> <li>2. New Functions None</li> <li>3. Optimized Functions None</li> <li>4. Fixed Bugs Fixed the bug that additional information of some DTCs is incorrect.</li> </ol>
HONDA	V48.20	<ol style="list-style-type: none"> <li>1. Summary Added and optimized basic functions and special functions for Engine, Transmission Control Unit, Body Electrical System and other systems. Fixed the function of Keys All Lost for One-Push Start system.</li> <li>2. New Functions 1) Added Bluetooth and Semiconductor Fuse Module that support Body Electrical System; 2) Added Actuation Test and Special Functions for Engine, Transmission Control Unit and other systems.</li> <li>3. Optimized Functions Optimized ADAS (Advanced Driving Assistance System) function structure;</li> <li>4. Fixed Bugs Fixed the function of Keys All Lost for One-Push Start system, such as when replacing the BCM (Body Control Module) of Civic in the year of 2020.</li> </ol>
NISSAN	V44.90	<ol style="list-style-type: none"> <li>1. Summary Added about 500 actuation test functions, special functions, and DTC working support functions for 2021MY INFINITI QX55, INFINITI QX80, INFINITI Q60, KICKS, ROGUE T33, TERRA, QASHQAI, R53, and 2022MY LEAF, INFINITI Q50v. Synchronously supported basic functions, actuation test, special functions, and coding data for 2021MY Nissan. Added the ADAS PRO+ target calibration process. Fixed some test bugs.</li> <li>2. New Functions 1) Added about 500 actuation test functions, special functions, and DTC working support functions for 2021MY INFINITI QX55, INFINITI QX80, INFINITI Q60, KICKS, ROGUE T33, TERRA, QASHQAI, R53, and 2022MY LEAF, INFINITI Q50v. 2) Synchronously supported basic functions, actuation test, and special functions for 2021MY Nissan. 3) Synchronously supported coding data for 2021MY Nissan. 4) Added the ADAS PRO+ target calibration process.</li> <li>3. Optimized Functions 1) Optimized the version information, DTCs, and data stream functions. 2) Optimized the anti-theft function for TEANA, INFINITI Q50L, etc. 3) Optimized the software structure.</li> <li>4. Fixed Bugs 1) Rectified the special function execution failure for the engine system of 2015MY INFINITI Q50. 2) Rectified the test failure for the hybrid system and ABS system of 2008MY ALTIMA</li> </ol>

		Hybrid.
TESLA	V10.07	<ol style="list-style-type: none"> <li>1. Summary Optimized the DTC reading function for some car model systems. Optimized the car model and system access modes.</li> <li>2. New Functions None</li> <li>3. Optimized Functions 1) Optimized the DTC reading function for some car model systems. 2) Optimized the car model and system access modes.</li> <li>4. Fixed Bugs None</li> </ol>
RESET PROG (IMMO Program)	V10.10	<ol style="list-style-type: none"> <li>1. Summary Added the ECU read/write function for 22 Bosch EDC16 series engines. Added the ECU read/write function for 6 gearbox models. Optimized the file saving function.</li> <li>2. New Functions 1) Added the ECU read/write function for the following 22 Bosch EDC16 series engines: EDC16C10, EDC16C2, EDC16C31, EDC16C32, EDC16C34, EDC16C35, EDC16C36, EDC16C39, EDC16C4, EDC16C41, EDC16C8, EDC16C9, EDC16CP31, EDC16CP33, EDC16CP34, EDC16CP35, EDC16CP36, EDC16CP39, EDC16U1, EDC16U31, EDC16U34, EDC16UC40 2) Added the ECU read/write function for the following 6 gearbox models: 6HP19, 6HP21, 6HP26, 6HP28, 6HP32, GS19 6HP19</li> <li>3. Optimized Functions optimized the file saving function.</li> <li>4. Fixed Bugs None</li> </ol>
RENAULT	V43.42	<ol style="list-style-type: none"> <li>1. Summary Added basic functions, actuation test, and configuration function for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of EXPRESS II and MEGANE IV SEDAN ph2. Optimized basic functions for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of KOLEOS,KADJAR,MEGANE IV,KOLEOS II,ARKANA,ALPINE A110,CAPTUR,CAPTUR II,ESPACE V,DUSTER PH3,LOGAN II/SANDERO II,NEW ZOE,TWINGO III,TALISMAN SM6,KWID,NEW SANDERO LOGAN,TRIBER,TRAFIC III,CITY K-ZE, etc.</li> <li>2. New Functions 1) Added basic functions, actuation test, and configuration function for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of EXPRESS II and MEGANE IV SEDAN ph2. 2) Optimized basic functions for 26 systems (including engine, ABS, A/C, airbag, instrument panel, A/T, central control unit) of KOLEOS,KADJAR,MEGANE IV,KOLEOS II,ARKANA,ALPINE A110,CAPTUR,CAPTUR II,ESPACE V,DUSTER PH3,LOGAN II/SANDERO II,NEW ZOE,TWINGO III,TALISMAN SM6,KWID,NEW SANDERO LOGAN,TRIBER,TRAFIC III,CITY K-ZE, etc.</li> <li>3. Optimized Functions</li> </ol>

		<p>None</p> <p>4. Fixed Bugs</p> <p>None</p>
FIAT	V36.68	<p>1. Summary</p> <p>Added support for ADAS Pro+, Added the radar calibration function for 2015-2017 EGEA/TIP Optimized the ADAS process.</p> <p>2. New Functions</p> <p>1) Added support for ADAS Pro+</p> <p>2) Added the radar calibration function for 2015-2017 EGEA/TIPO</p> <p>3. Optimized Functions</p> <p>None</p> <p>4. Fixed Bugs</p> <p>None</p>

### Heavy-Duty Truck Software Upgrade

Software	Version	Update Info
MAN	V16.10	<p>1. Summary</p> <p>Added actuation test and special functions for the engine system, management computer, and operation and display system. Optimized data streams for some systems.</p> <p>2. New Functions</p> <p>1) Added actuation test and special functions for the MOT-ASM2020-Bosch system.</p> <p>2) Added actuation test and special functions for the MOT-EDC17SCR-Bosch system.</p> <p>3) Added actuation test and special functions for the MOT-EDC17RY-Bosch system.</p> <p>4) Added actuation test for the ZTR-ePTM-MAN system.</p> <p>5) Added actuation test and special functions for the KLM-KR498L4C-Bader system.</p> <p>6) Added actuation test for the KLM-KR498R-Bader system.</p> <p>7) Added actuation test and special functions for the MOT-FISC-Denso system.</p> <p>3. Optimized Functions</p> <p>1) Optimized data streams for the BEV-JBC-VW system.</p> <p>2) Optimized data streams for the MOT-EDC17SCR-Bosch system.</p> <p>3) Optimized data streams for the MOT-EDC17RY-Bosch system.</p> <p>4. Fixed Bugs</p> <p>None</p>
HD_ VOLVO_CE	V10.10	<p>1. Summary</p> <p>Added Actuation Test and Special Function.</p> <p>2. New Functions</p> <p>1) Added 20 functions for Actuation Test: Cylinder Balancing; Cylinder Compression; Injector Cut Out, Manual; Variable Geometry Turbo Function; Exhaust After treatment System, Reset; Exhaust After treatment System, Service Regeneration, etc;</p> <p>2) Added 13 functions for Special Function: Variable Geometry Turbo; Injectors; Displayed Machine Hours, Correction; Displayed time to service, correction; Displayed Total Traveled Distance, Correction; Antitheft system, configuration, etc;</p>



		<ol style="list-style-type: none"> <li>3. Optimized Functions Optimized automatic scanning and system entry.</li> <li>4. Fixed Bugs None.</li> </ol>
HD_ MAHINDRA	V10.10	<ol style="list-style-type: none"> <li>1. Summary Added basic functions, actuation test, and special functions for related systems of HD_MAHINDRA.</li> <li>2. New Functions <ol style="list-style-type: none"> <li>1) Added actuation test for ABS E (Antilock Braking System).</li> <li>2) Added actuation test, and special functions for DCM 2.5, Electronic Diesel Control.</li> <li>3) Added basic functions, actuation test, and special functions for ABS6(Antilock Braking System).</li> <li>4) Added actuation test, and special functions for DCU 2 (Exhaust Gas Treatment System).</li> <li>5) Added basic functions, actuation test, and special functions for DL03, CAN, Engine Control Module.</li> <li>6) Added actuation test for EMS, CNG (Compressed Natural Gas) engine management system.</li> </ol> </li> <li>3. Optimized Functions None</li> <li>4. Fixed Bugs None</li> </ol>
HD_ Maxxforce	V10.80	<ol style="list-style-type: none"> <li>1. Summary Optimized Reading Trouble Codes, Reading DataStream, Actuation Tests And Special Functions Of Maxxforce Engine System After 2007.</li> <li>2. New Functions None.</li> <li>3. Optimized Functions <ol style="list-style-type: none"> <li>1) Optimized Reading Trouble Codes Function Of Maxxforce Engine System After 2007.</li> <li>2) Optimized Reading DataStream Function Of Maxxforce Engine System After 2007.</li> <li>3) Optimized Actuation Tests Of Maxxforce Engine System After 2007.</li> <li>4) Optimized Special Functions Of Maxxforce Engine System After 2007.</li> </ol> </li> <li>4. Fixed Bugs None.</li> </ol>
MAN	V16.11	<ol style="list-style-type: none"> <li>1. Summary Optimized the particulate filter service function for the MOT-EDC17-Bosch system.</li> <li>2. New Functions None</li> <li>3. Optimized Functions Optimized the particulate filter service function for the MOT-EDC17-Bosch system. Optimized the actuation test function for the AKS-TuerMOD-BRFRS system. Optimized data streams for the AKS-TuerMOD-BRFRS system.</li> <li>4. Fixed Bugs None</li> </ol>