

TO: LAUNCH OVERSEA BRANCHES
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Diagnostic Software Update in January 2023

Diagnostic software coverage is available in the following link:

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

Passenger Car Software Upgrade

Software	Version	Update Info
CITROEN	V41.82	<div>1. Summary Added support for ADAS AX200.</div> <div>2. New Functions None</div> <div>3. Optimized Functions Optimized the online configuration function.</div> <div>4. Fixed Bugs None</div>
BENZ	V49.95	<div>1. Summary Optimized special functions for the headlamp system under chassis such as 117, 156, 166, 172, 176, 205, 207, 212, 213, 217, 218, 222, 231, 238, 246, 253, and 292. Optimized the reset function for the gateway system (CGW) under chassis such as 164, 169, 171, 211, 221, 216, 245, and 251. Updated special functions for the driver seat adjustment system under chassis such as 164, 171, 209, 211, 219, and 251.</div> <div>2. New Functions 1. Added the following special function for the EPS (Electric Power Steering) system under chassis 117: A91b1 (electric power steering torque sensor) calibration</div> <div>3. Optimized Functions 1. Updated the data stream function for the keyless start system under chassis 166. 2. Updated special functions for the driver seat adjustment system under chassis such as 164, 171, 209, 211, 219, and 251. 3. Optimized the variable coding function. 4. Optimized special functions for the headlamp system under chassis such as 117, 156, 166, 172, 176, 205, 207, 212, 213, 217, 218, 222, 231, 238, 246, 253, and 292. 5. Optimized the reset function for the gateway system (CGW) under chassis such as 164, 169, 171, 211, 221, 216, 245, and 251.</div> <div>4. Fixed Bugs Corrected the actuation test for the rear multifunction module under chassis 171: exterior lighting</div>
USAFORD	V49.30	<div>1. Summary Added the basic functions for 2023MY models; added the online special functions for 2012-2022MY models; optimized software structure.</div> <div>2. New Functions Added the basic functions for 2023MY Edge, Explorer, F-150(Raptor), Motorhome/Stripped Chassis/Ford Step Van, Ford Aviator, Corsair and Ford Navigator etc.; added the online special functions such as ABS(Anti-lock Brake System) calibration, RCM(Restraint Control Module) collision data clearing, crankshaft reference position adaption, cruise control radar calibration, engine sound enhancement configuration, odometer configuration, electric folding seat control module[SCMJ] seat position learning, PCM(Powertrain Control Module) misfire monitoring configuration file correction learning, resetting of intake cutoff throttle learned value, suspension height sensor calibration etc. for 2012-2022MY Ford Aviator, Ford Bronco, Bronco Sport, Ford Puma, Corsair, Ford B-Max, C-Max, EcoSport, Edge, Ford Edge/Ford GALAXY/Ford S-Max, Ford Escape(Asia)/Ford Kuga, Everest, Expedition, Explorer, F-150(Raptor), Fiesta, Focus, Focus C-MAX, F-series heavy trucks and Ford Kuga/Ford Escape(Asia) etc.</div> <div>3. Optimized Functions Optimized Software Structure.</div> <div>4. Fixed Bugs None</div>

AUDI	V28.90	<ol style="list-style-type: none"> Summary Added ADAS (Advanced Driving Assisting System) calibration function for 2022 Audi vehicle model; Added basic function, special function and guided function for some of 2021-2022 vehicle model system; Updated data in channel about read data stream, basic configuration, matching, actuation test, log in and code function; Added sub-gateway coding function of some system; added special function including relevant compression function, EGR self-learning, SCR (Selective catalytic reduction), high voltage cutoff/enabled, roof initialization, seat calibration, window and door calibration, nitrogen oxide emergency regeneration, language setup, transport mode, coolant replacement; optimized on-line coding, on-line coding data, optimized on-line programming and on-line matching and calibration procedure; optimized system scanning, system entry, advanced version information, sub-system version information, actuation test, basic adjustment and sub-system coding function; optimized special functions including Air Suspension Matching, brake pad replacement, steering angle learning, battery matching. New Functions <ol style="list-style-type: none"> Added ADAS (Advanced Driving Assisting System) calibration function for 2022 year model A1, A3, A4, A5, A6, A7 L, A8, TT, Q2, Q3, Q4 e-tron, Q5, Q5 e-tron, Q7, Q8, e-tron GT; Added basic function and special function for 2021-2022 year model A1, A3, A4, A5, A6, A7 L, A8, TT, Q2, Q3, Q4 e-tron, Q5, Q5 e-tron, Q7, Q8, e-tron GT; Added guided functions of engine system, transmission electronic control system, brake electrical device, Central Electrical System, airbag, Power Steering, instrument panel, 4WD electronics, power steering, Immobilizer, Horizontal Height Regulation System, driver seat adjustment device, Comfort system central module, Emergency call module and communication unit system for 2021-2022 year model A1, A3, A4, A5, A6, A7 L, A8, TT, Q2, Q3, Q4 e-tron, Q5, Q5 e-tron, Q7, Q8, e-tron GT; Updated data in channel about read data stream, basic configuration, matching, actuation test, log in and code function; Added sub-gateway coding functions for some system; Added special functions including compression function, EGR self-learning, SCR (Selective catalytic reduction), high voltage cutoff/enable, roof initialization, seat calibration, door and window calibration, nitrogen oxide, language setup, transport mode, coolant replacement; Optimized Functions <ol style="list-style-type: none"> Optimized and updated on-line coding, on-line programming data, optimized on-line programming and on-line matching and calibration procedure; Optimized system scanning and system entry; Optimized advanced version information and sub-system version information, sub-system coding function; Optimized actuation test and basic adjustment function of some model system; Optimized special functions including Air Suspension Matching, brake pad replacement, steering angle learning, battery matching Fixed Bugs None
IMM_VOLVO	V10.03	<ol style="list-style-type: none"> Summary Added anti-theft matching functions for 2 LYNKCO models. New Functions Added smart key anti-theft matching functions of 06、06 Hybrid. Optimized Functions None Fixed Bugs None
IMM_JETOUR	v10.20	<ol style="list-style-type: none"> Summary Added Diagnostic Program for 3 ECUs of X90 PLUS(2.0T) (2022MY) models, added Diagnostic Program for 6 ECUs of DaSheng model. New Functions <ol style="list-style-type: none"> Added Diagnostic Program for 3 ECUs of X90 PLUS(2.0T) (2022MY) models, including Anti-Theft Matching and other diagnostic functions; Added Diagnostic Program for 6 ECUs of DaSheng model, including Anti-Theft Matching and other diagnostic functions; Optimized Functions Optimized Software Fixed Bugs None
IMM_FLYER	V10.15	<ol style="list-style-type: none"> Summary Added and optimized the functions of key matching and immobilizer module replacement etc. New Functions Added the function of all keys lost. Optimized Functions Optimized the functions of key adding, original vehicle key matching, key information reading, IK controller matching, steering shaft lock matching, ECM matching and ECM password clearing. Fixed Bugs None
IMM_TOYOTA	V10.10	<ol style="list-style-type: none"> Summary Supported the all keys lost function of 8A-A9/8A-AA/F12 smart key without dismantling and with gateway after 2018 New Functions Added the all keys lost and key adding function of 8A-A9/8A-AA/F12 smart key for vehicle models after 2018 Optimized Functions

		None 4. Fixed Bugs None
INDIAN MAHINDRA	V14.30	1. Summary Add BS6 Key Programming. 2. New Functions Add BS6 Key Programming. 3. Optimized Functions None. 4. Fixed Bugs None 5. Maintenance Service Update None.
HONDA	V48.70	1. Summary Added Integrated Driver Assistance System (ADASTYPE) and OTAMG system. Optimized camera calibration function for vehicle models such as CIVIC and HR_V etc. 2. New Functions Added Integrated Driver Assistance System (ADASTYPE) and OTAMG system. 3. Optimized Functions Optimized camera calibration function for vehicle models such as 2022-2023 CIVIC and HR_V etc. 4. Fixed Bugs None
IMM_ SPRINTER	V10.10	1. Summary Added The Replacement Function For Some ESLs.Added The Erasing Function For Some Engines.Added The VIN Writing Function For Gear Computer.Optimized The Wiring Diagram And Wiring Mode.Optimized And Fixed Other Known Issues. 2. New Functions 1) Added The ESL Replacement Function For W639, W906 (NEC) And W906 (Motorola). 2) Added The Engine Erasing Function For CR2.14, CRV2.0, ME2.7.1 And ME2.7.2. 3) Added The VIN Writing Function For Gear Computer. 3. Optimized Functions 1) Optimized The Online Operation Guide Of Performing The Function Of All Keys Lost On The Vehicle. 2) Added The Guide Prompts To Facilitate Users To Operate And Perform Functions. 3) Optimized The Wiring Diagram And Wiring Mode. 4) Optimized Other Known Issues. 4. Fixed Bugs 1) Fixed The Engine ME2.8.1 Erasing Failure. 2) Fixed The Problem Of Abnormal Automatic Identification When Performing The Function Of All Keys Lost On The Vehicle. 3) Fixed Other Known Issues.
IMM_BENZ	V10.20	1. Summary Added The Replacement Function For Some ESLs.Added The Erasing Function For Some Engines.Added The VIN Writing Function For Gear Computer.Optimized The Wiring Diagram And Wiring Mode.Optimized And Fixed Other Known Issues. 2. New Functions 1) Added The ESL Replacement Function For W204, W207, W212, W169 (NEC), W209 (NEC), W211 (NEC), W208 (K), W210 (K), W209 (Motorola), And W211 (Motorola). 2) Added The Engine Erasing Function For CR2.14, CRV2.0, ME2.7.1 And ME2.7.2. 3) Added The VIN Writing Function For Gear Computer. 3. Optimized Functions 1) Optimized The Online Operation Guide Of Performing The Function Of All Keys Lost On The Vehicle. 2) Added The Guide Prompts To Facilitate Users To Operate And Perform Functions. 3) Optimized The Wiring Diagram And Wiring Mode. 4) Optimized Other Known Issues. 4. Fixed Bugs 1) Fixed The Engine ME2.8.1 Erasing Failure. 2) Fixed The Problem Of Abnormal Automatic Identification When Performing The Function Of All Keys Lost On The Vehicle. 3) Fixed Other Known Issues.
RESET PROG	V10.70	1. Summary Added file checkout and immobilizer shutdown functions for BOSCH MED17/EDC17 series engines, optimized the file saving function and BOSCH number search function. 2. New Functions Added file checkout and immobilizer shutdown functions for BOSCH MED17/EDC17 series engines. 3. Optimized Functions 1) Optimized the file saving function; 2) Optimized the BOSCH number search function. 4. Fixed Bugs None
IMM_RENAULT	V10.15	1. Summary: Added the functions of anti-theft key matching and immobilizer module replacement etc. for 19 Renault vehicle models;

		<p>optimized the anti-theft key matching function for 3 vehicle models.</p> <p>2. New Functions:</p> <p>1) Added the functions of anti-theft key matching and immobilizer module replacement for three vehicle models such as LAGUNA III and LATITUDE etc.</p> <p>2) Added the anti-theft key matching function for 7 vehicle models such as CAPTUR II and CLIO V etc.</p> <p>3) Added the functions of anti-theft key matching and immobilizer module replacement for DUSTER PH3 and TRIBER.</p> <p>4) Added the function of immobilizer module replacement for 7 vehicle models such as DOKKER and DUSTER PH2 etc.</p> <p>3. Optimized Functions:</p> <p>Optimized the anti-theft key matching function for 3 vehicle models such as CLIO III and MEGANE II etc.</p> <p>4. Fixed Bugs:</p> <p>None</p>
PORSCHE	V24.10	<p>1. Summary</p> <p>Optimized the part numbers for MACAN,991,981, Cayenne,Panamera,992,Taycan, etc. Synchronously supported system-wide diagnostic functions to the models up to 2022. Optimized the processes of online coding.</p> <p>2. New Functions</p> <p>Optimized the part numbers for MACAN,991,981, Cayenne,Panamera,992,Taycan, etc. Synchronously supported system-wide diagnostic functions to the models up to 2022.</p> <p>3. Optimized Functions</p> <p>Optimized the processes of online coding.</p> <p>4. Fixed Bugs</p> <p>Fixed the bug that control unit replacement does not respond for some systems of Cayenne-9PA.</p>
CHRYSLER	V34.00	<p>1. Summary</p> <p>Completed special function for BCM、PCM、ABS、TCM of year models 2018-2022.</p> <p>2. New Functions</p> <p>None.</p> <p>3. Optimized Functions</p> <p>Added or completed special functions including Manual Logistic Mode Procedure Enable, Heated Steering Wheel Calibration Update, Diesel Particulate Filter functions, Reset driven distance with water in fuel lamp ON, Zero Fuel quantity Calibration function reset, Program Nominal Tire Pressure Values, Range Position Sensor Reset (2 Speed Transference Only), Max Vehicle Speed Adjustment, PLGM Power Learn Calibration Test for vehicle model 2018 Renegade, 2019 Cherokee, 2019 Compass, 2019 Grand Commander, 2020 Renegade, 2021 Compass, 2021 Durango, 2021 Gladiator, 2021 Ram 1500, 2021 Renegade, 2021 Wrangler, 2022 Compass.</p> <p>4. Fixed Bugs</p> <p>None</p>
FIAT	V37.50	<p>1. Summary</p> <p>Added basic functions for Fullback 2016-2017, Strada 2021-2022, 500X 2022, Ducato 2014, etc;Added actuation test for Fullback 2016-2017, Strada 2021-2022, 500X 2022, Ducato 2014, etc;Added special functions including the following for 2021MY Strada models: Reset Parameters to Default, Check ALSRS Sensors, Proxi Alignment, HCSS Activation;Added special functions including the following for 2019MY Novo Uno FL models: Fan activation, Phonic Wheel Learning Reset, Reset phases front.</p> <p>2. New Functions</p> <p>1)Added basic functions for Fullback 2016-2017, Strada 2021-2022, 500X 2022, Ducato 2014, etc</p> <p>2)Added actuation test for Fullback 2016-2017, Strada 2021-2022, 500X 2022, Ducato 2014, etc</p> <p>3)Added special functions including the following for 2021MY Strada models: Reset Parameters to Default, Check ALSRS Sensors, Proxi Alignment, HCSS Activation</p> <p>4)Added special functions including the following for 2019MY Novo Uno FL models: Fan activation, Phonic Wheel Learning Reset, Reset phases front</p> <p>3. Optimized Functions</p> <p>None</p> <p>4. Fixed Bugs</p> <p>None</p>
MAZDA	V43.15	<p>1. Summary</p> <p>Added speed scanning mode</p> <p>2. New Functions</p> <p>None</p> <p>3. Optimized Functions</p> <p>None</p> <p>4. Fixed Bugs</p> <p>None</p>
BMS	V10.18	<p>1. Summary</p> <p>Added the battery pack configuration information</p> <p>Optimized the software structure.</p> <p>2. New Functions</p> <p>New Issue BMS software</p> <p>3. Optimized Functions</p> <p>None</p>

		4. Fixed Bugs None
SUZUKI	V38.41	1. Summary For 2021-2022 systems such as ECM, TCM, ABS, and BCM, added identification codes and the corresponding DTCs, data streams, actuation test, and special functions. 2. New Functions For 2021-2022 systems such as ECM, TCM, ABS, and BCM, added identification codes and the corresponding DTCs, data streams, actuation test, and special functions. 3. Optimized Functions None 4. Fixed Bugs None 5. Optimized Service Functions None
HYUNDAI	V51.60	1. Summary Add 56 models from 2022 to 2023 in the general area and 28 models from 2022 to 2023 in the USA area, including basic functions and special functions of ADAS and other systems, and optimized software structure. 2. New Functions 1)Add 56 models of Accent/Solaris(HCR), Creta(SU2b), CUSTO(KU), Elantra N(CN7 N), G90(RS4), GV60(JW1 EV), IONIQ 5(NE EV), KONA N(OSN), Palisade(LX2), Santafe(TM), STARGAZER(KS), Tucson(NX4) and other models from 2022 to 2023 in general area, including basic functions and special functions of ADAS and other systems. 2)Add 28 models of Elantra N(CN7 N), G90(RS4), GV60(JW1 EV), KONA N(OSN), Palisade(LX2), SANTA CRUZ(NX4A OB), Santafe(TMA), Sonata Hybrid(DN8 HEV), Tucson(NX4) and other models from 2022 to 2023 in the USA area, including basic functions and special functions of ADAS and other systems. 3. Optimized Functions Optimized software structure. 4. Fixed Bugs None

Heavy-Duty Truck Software Upgrade

Software	Version	Update Info
HD_ALLISON	V10.50	1. Summary Added new system Gen6 1k2k, Gen6 3k4k and Gen6 CEC; Fixed the bugs that the error of fault code state of Gen5. Added new functions of Actuation Test in Gen5 3k4k and Gen5 CEC5;. Optimized The Special Function Of Gen5 and Gen4; 2. New functions 1)Added new system Gen6 1k2k 2)Added new system Gen6 3k4k 3)Added new system Gen6 CEC 4)Added new functions of Actuation Test in Gen5 3k4k and Gen5 CEC5;. 3. Optimized functions Optimized The Special Function Of Gen5 and Gen4; 4. Fixed Bugs Fixed the bugs that the error of fault code state of Gen5.
HD_ISUZU	V16.20	1. Summary Added actuation test and special functions for systems of 2019-1998 car models. 2. New Functions For ISUZU North American series: 1) . Added actuation test and special functions for 2011-2018/N-Series w/3.0L Diesel(4JJ1)/BCM. 2) . Added actuation test and special functions for 2013-2018/N-Series w/3.0L Diesel(4JJ1)/FMS CAN Converter (if Equipped). 3) . Added actuation test and special functions for 2013-2018/N-Series w/3.0L Diesel(4JJ1)/ABS. 4) . Added actuation test and special functions for 2014-2019 / N-Series w/5.2L Diesel(4HK1)/ABS. 5) . Added actuation test and special functions for 2014-2019 / N-Series w/5.2L Diesel(4HK1)/ FMS CAN Converter (if Equipped). 6) . Added actuation test and special functions for 2011-2019 /N-Series w/5.2L Diesel(4HK1)/BCM. 7) . Added actuation test and special functions for 2013-2018 / Stripped Chassis w/3.0L Diesel(4JJ1)/ABS. 8) . Added actuation test and special functions for 2013-2018 / Stripped Chassis w/3.0L Diesel(4JJ1)/ FMS CAN Converter (if Equipped). 9) . Added actuation test and special functions for 2013-2018 / Stripped Chassis w/3.0L Diesel(4JJ1)/BCM. 10) . Added actuation test and special functions for 2006-2009/ C(or F/T)-Series 7.8L Diesel (6HK1) AUTO(or MANUAL)/Engine. 11) . Added actuation test for 2005-2006/ C (or F/T)-Series 7.8L Diesel (6HK1) AUTO/ Transmission. 12) . Added actuation test for 2005-2007/ N/W Series 6.0L Gas/Engine. 13) . Added actuation test for 2005-2007/ N/W Series 6.0L Gas/Transmission. 14) . Added actuation test for 2005-2006/N/W Series Diesel 5.2L (4HK1) AUTO (or MANUAL)/ Engine.

		<p>15) . Added actuation test for 2005-2006/N/W Series Diesel 5.2L (4HK1) AUTO (or MANUAL)/Transmission.</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
HD_TATA	V10.20	<p>1. Summary Optimized the fault code reading function of the EDC 17, Electronic Diesel Control, Common Rail system.</p> <p>2. New Functions Optimized the fault code reading function of the EDC 17, Electronic Diesel Control, Common Rail system.</p> <p>3. Optimized Functions None</p> <p>4. Fixed Bugs None</p>
HD_BENZ	V18.00	<p>1. Summary Optimized and added special functions for partial systems</p> <p>2. New Functions Added variable vehicle speed limit function for passenger car FR-driver control system</p> <p>3. Optimized Functions 1) Optimized the diesel particulate filter (DPF) manual regeneration function of truck ACM-exhaust gas treatment system 2) Optimized the learning function of truck EAPU-electronic air handling unit 3) Optimized the dynamic calibration function of truck radar and multi-function camera system 4) Optimized the dynamic calibration function of passenger car radar system </p> <p>4. Fixed Bugs None</p>
SCANIA	V15.41	<p>1. Summary Optimize System scanning. Optimized software structure.</p> <p>2. New Functions None</p> <p>3. Optimized Functions 1) Optimize System scanning. 2) Optimized software structure. </p> <p>4. Fixed Bugs None</p> <p>.</p>
EATON	V10.50	<p>1. Summary New add 25 J1939 systems,14 special fuctions.</p> <p>2. New Functions 1) J1939New Add System: 1>Procision - 7 Speed 2>MHD USP 10sp EVO 3>MHD USP 10sp EVO for Refuse Applications 4>8 speed prototype model 5>Endurant 12-Speed 6>PACCAR 12-Speed 7>Endurant 11-Speed 8>PACCAR 11-Speed 9>Endurant HD Compressed Natural Gas 12-Speed 10>EV Passenger Bus 4-Speed 11>EV Passenger Bus 6-Speed 12>EV AMT China 10-speed 13>EV AMT China 4-speed 14>EV AMT China 6-speed 15>xEV Gen 3 16>Endurant HD China (12-Speed) for JAC 17>Endurant HD China (12-Speed) for SQ 18>Endurant HD China (12-Speed) for FAW 19>Endurant HD China (12-Speed) for DF 20>Endurant HD China (12-Speed) Generic 21>Endurant XD 22>Endurant XD Pro 23>PACCAR 18-Speed 'B' Model 24>PACCAR 18-Speed 'A' Model 25>Hybrid Control Module 4-Speed PHEV 2) J1939 New add special function: 1>Line Pressure Calibration 2>Park Pawl (T-Handle) Calibration 3>Clutch Pressure(PI)Calibration </p>

		<div>4>Clutch Touch Point(PTP) Calibration</div> <div>5>Clutch Disable Valve Test</div> <div>6>Clutch Cooling Test</div> <div>7>Product Diagnostic Test</div> <div>8>Inertia Brake Test</div> <div>9>Rail Calibration(Procision System)</div> <div>10>TRS Shift Device Calibration</div> <div>11>Line Pressure Test</div> <div>12>Clutch Calibration(Endurant System)</div> <div>13>Grade Sensor Calibration(Endurant System)</div> <div>14>Rail Calibration(Endurant System)</div> <div>3. Optimized Functions</div> <div>Optimized the software structure.</div> <div>4. Fixed Bugs</div> <div>None</div>
HD_BENDIX_ABS	V10.77	<div>1. Summary</div> <div>Optimized Calibration Functions Of Camera System.</div> <div>2. New Functions</div> <div>Added ADAS Report.</div> <div>3. Optimized Functions</div> <div>1) Optimized Calibration Function Of FLC20(Forward Looking Camera) System.</div> <div>4. Fixed Bugs</div> <div>None.</div>
HITACHI	V10.01	<div>1. Summary</div> <div>Added basic function of 67 models.</div> <div>2. New Functions</div> <div>None.</div> <div>3. Optimized Functions</div> <div>None.</div> <div>4. Fixed Bugs</div> <div>None.</div>