

AutoMateTM

TRAINING MODULES

3rd Quarter 2019

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1.1 - Electrical Principles			
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	CC55	Practical Uses For Ohms Law	
	CC60	The 5 Elements That Every Circuit Has To Have	
	CH50	Series & Parallel Circuits	
	CJ50	Circuit Operation & Voltage Dividers	
	CK50	Open & Short Circuits	
	CV50	Terminal Tension & Back Probing	
	CW50	Wiring Repairs Best Practices	
	CW55	Locating Harness Faults Best Practices	
	CW70	What is Voltage Drop?	
	CW71	Single Circuit Voltage Drop Checks	
	CW73	Using Voltage Drop as a Diagnostic Tool	
1.2 - Electronics			
	CO50	Electronic Components	
	CP50	Piezo Resistive Sensors Explained	
	CP60	Piezo Electric Sensors Explained	
	CP70	Capacitive Sensing	
	CP80	Ultrasonic Sensor Technology	
	CR00	Current Limiting Technology	
	CR50	Pulse Width Modulation Explained	
1.3 - ECM Logic			
	JB50	Understanding Diagnostic Trouble Codes	
	JC50	2 Wire Sensors & Circuits	
	JC75	Pullup & Pulldown Circuits	
	JC80	Control Module Power & Ground Circuit Checks	
	JC85	Control Module Logic & Programming	
1.4 - Multimeters & Oscilloscopes			
	CE50	Multimeter Essentials	
	CQ50	Multimeter Advanced Functions	
	JL50	Oscilloscope Essentials	
	JL60	Interpreting Position Sensor Waveforms	
	JL70	Interpreting Pressure Sensor Waveforms	
1.5 - Starting, Charging & Batteries			
November 2019	CW00	Batteries - Lead Flooded	
	CW15	Lithium Battery Technology	
	CW30	Battery Test, Maintenance and Recharge	
	CW42	Locating Parasitic Drain	
	CW60	Alternators Explained	
	CW62	Alternators - Current Rectification	
	CW64	Alternators - Voltage Regulation	
	CW80	Charging Systems ECM Controlled	
	CW90	ECM Controlled Charging Diagnosis	
	FT50	Starter Motors Explained	
October 2019	FX23	Start Stop Battery Technology	
	FX25	Start Stop Operation	
	KB48	Starter Circuit Voltage Drop Testing	
	KB50	Starter Relay Circuit Malfunction Diagnostics	
	KB60	Starter Relay Circuit Voltage Low Diagnostics	
	KB65	Starter Relay Circuit Voltage High Diagnostics	

1.6 - Body Electrics		
1.6.1 - Automotive Relays		
	CM50	Automotive Relays
	JE50	Relay Circuits
	CM70	Monitored Relay Circuits
1.6.2 - Lighting		
	CO35	Lighting Components
1.6.3 - Convenience Systems		
December 2019	YA20	Rain Sensor Technology
	YA30	Automotive Antennas & Communication
	YA60	Wireless Phone Charging
1.6.4 - Electric Motors		
	EM00	Direct Current Motors
	EM20	AC & Induction Motors
1.7 - Networks, Communications & Programming		
1.7.1 - LIN BUS		
	EM50	LIN BUS
	EM55	LIN BUS Diagnostics
1.7.2 - Low Speed BUS		
	EC50	Low Speed BUS
	LC50	Low Speed BUS Diagnostics
1.7.3 - CAN BUS		
	EH50	CAN High Speed BUS
	LE50	CAN HS - Short Circuit Diagnosis
	LE60	CAN HS - Short to Ground Or Voltage Diagnosis
	LE70	CAN HS - Open Circuit Diagnosis
1.7.4 - FLEXRAY		
	FB00	Understanding FlexRay
1.7.5 - MOST Bus		
	ES50	MOST BUS
	ES60	MOST BUS Diagnosis
1.7.6 - Programming		
	ET00	J2534 Pass-Thru Communication
	ET50	General Motors Programming

1.8 - Safety & Security

1.8.1 - SRS

FJ80	SRS Airbag Safety
FJ90	SRS Airbag Operation
ML50	SRS Airbag Open Circuit Diagnosis
ML55	SRS Airbag Short to Ground Diagnosis
ML60	SRS Airbag Short to Voltage Diagnosis
MN50	SRS Pretensioners
MN60	SRS Pretensioner Diagnosis

1.8.2 - Vehicle Entry & Security

FL10	Keyless Entry
MR50	Keyless Entry System Diagnosis
MR60	Immobiliser Systems

1.8.3 - Driver Assist Systems

August 2019

FT70	Heads Up Display Systems
FT90	Advanced Driver Assist Systems
FV50	Blind Spot & Cross Traffic Alert
FW25	Lane Departure Passive Type
FW35	ADAS Camera and Calibration Functions
FW50	Collision Avoidance Camera Type
FY50	Active Cruise Control

September 2019

FY60	Launch Control Systems
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1.9 - Hybrid & Electric Vehicles

TC50	High Voltage Awareness
TD00	Motor Position Sensing - Resolvers
TD01	Motor Position Sensing – Encoders
TD50	Toyota Hybrid System II - Module 1
TD60	Toyota Hybrid System II - Module 2
TE70	48 Volt Mild Hybrid Introduction
TE90	48 Volt Electric Turbocharger Technology

December 2019

2.1 - Common Systems

2.1.1 - Sensor & Inputs

Accelerator Pedal Position Sensor

HU50	Accelerator Pedal Position Sensor
KM50	Accelerator Pedal Position Sensor Diagnosis
KM55	Accelerator Pedal Position Signal Not Plausible
KM60	Accelerator Pedal Position Signal Voltage Low
KM65	Accelerator Pedal Position Signal Voltage High

Barometric Pressure Sensor

BS20	Barometric Sensor Shorts to Voltage & Ground
BS25	Barometric Sensor Signal Faults

Camshaft Position Sensor

CP05	Camshaft Position Sensor Voltage Low
CP10	Camshaft Position Sensor Voltage High

Crankshaft Position Sensor

KN50	Crankshaft Position Sensor Signal Performance
KN55	Crankshaft Position Sensor Signal Voltage Low
KN60	Crankshaft Position Sensor Signal Voltage High
KN65	Crankshaft Position Sensor Intermittant Signal

Manifold Absolute Pressure Sensor

KP50	Manifold Absolute Pressure Signal Performance
KP60	MAP Sensor Pull-up Type Voltage Low
KP65	MAP Sensor Pull-up Type Voltage High
KP70	MAP Sensor Pull-down Type Voltage Low
KP75	MAP Sensor Pull-down Type Voltage High

Mass Airflow Sensor

KQ10	Mass Air Flow Sensor Hot Film Type
KQ50	Mass Air Flow Sensor Signal Performance
KQ60	Mass Air Flow Sensor Short to Ground
KQ70	Mass Air Flow Sensor Signal Voltage High

Inlet Air Temperature Sensor

KS50	IAT Sensor Circuit Voltage Low
KS60	IAT Sensor Circuit Voltage High
KS70	IAT Sensor Signal Performance

Fuel Rail Pressure Sensor

KC70	FRP Sensor Voltage High - Pull Up Type
KC75	FRP Sensor Voltage High - Pull Down Type
KC80	FRP Sensor Voltage Low - Pull Up Type
KC85	FRP Sensor Voltage Low - Pull Down Type

Throttle Position Sensor

KL50	Throttle Position Sensors
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2.1 - Common Systems

2.1.2 - Control System

AC50	Understanding Drive Cycles
AC65	Drive Cycle Diagnosis
AD50	Engine Misfire Monitoring
AD60	Undetermined Misfire Diagnostics
AE50	Throttle Actuator Control Systems
AF00	Cylinder Deactivation OHV Type

2.1.3 - Actuators & Outputs

Cam Shaft	
KO50	Cam Position Actuator Valve - Negative Control
KO55	Cam Position Actuator Valve - Positive Control

2.1.4 - Forced Induction

KR10	Forced Induction System Principles
KR12	Twin Scroll Turbocharging System Principles
KR15	Twin Charge Systems
KR50	Turbocharger Wastegate Type - Underboost
KR55	Turbocharger Wastegate Type - Overboost
KR60	Turbocharger VGT Type - Underboost
KR65	Turbocharger VGT Type - Overboost
KX10	Turbocharger Diagnostics - Surge & Flutter

November 2019

2.1.5 - Emission Control

DA50	Vehicle Emission Principles
DC50	Exhaust Gas Recirculation
KH75	EGR Flow Diagnostics
KH85	EGR Position Signal Voltage Low
KH86	EGR Position Signal Voltage High
KH87	EGR Position Signal Performance

2.1.6 - On Board Diagnostics

OB00	On-Board Diagnostics - Generation 1
OB05	On-Board Diagnostics - Key Elements
OB10	On-Board Diagnostics - Key Elements 2

2.2 - Gasoline Fuel Systems

2.2.1 - Fuel Delivery

HO60	Port Fuel Injection Delivery System
HP50	Introducing Gasoline Direct Injection (GDI)
KC55	Fuel Delivery System Mechanical Checks
KC60	Fuel Delivery System Electrical Checks
KC65	Fuel Pump Control Module Checks

2.2.2 - Sensor & Inputs

General Sensors

HN50	Gasoline Injection Sensors
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Mass Airflow Sensor

CR10	Mass Air Flow Sensor 8 Wire Type
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Oxygen Sensors

HD50	Narrow Band Oxygen Sensors
HE50	Wide Band Oxygen Sensors
KE50	Narrow Band Oxygen Sensor Poor Performance
KE60	Narrow Band Oxygen Sensor Heater Circuit
KF50	Wide Band Oxygen Sensor Pump Circuit Low

2.2.3 - Gasoline Control System

HG00	Understanding Gasoline Scantool Data
HG50	Understanding Fuel Trims
HO50	Gasoline Injection Fuel Control
KC00	Fuel Trim - System Too Rich
KC05	Fuel Trim - System Too Lean

2.2.4 - Ignition Systems

FREE TRIAL MODULES

HC10	Kettering Type Ignition System
HC15	Spark Plugs
HC20	Electronic Switching Ignition Systems
HC30	COP & Wasted Spark
HC40	Spark Timing & Dwell Control
HC50	Magneto & CDI
KE10	Knock Sensor - Voltage High
KE15	Ignition Coil Pack Diagnosis
KE30	Spark Plug & Lead Diagnosis

2.2.5 - Emission Control - Gasoline

DE50	Vented Evaporative Systems
DH50	2 Way Catalytic Converter
DJ50	3 Way Catalytic Converter
DR50	Catalytic Converter Efficiency
KC15	Evaporative Systems Open Circuit
KC20	Evaporative Systems Short to Ground
KC25	Evaporative Systems Short to Voltage
KE00	Gasoline Exhaust Emission Diagnostics
KH50	Catalyst Efficiency Diagnostics

2.2.6 - Outputs & Actuators

HR50	VVT Cam Phasing Type
HR55	VVT Cam Changing Type
HS00	Intake Runner Control Systems
KC50	Fuel Pressure Regulator Performance
KD30	Oscilloscope Injector Diagnosis
KD50	Fuel Injector Circuit Low
KD60	Fuel Injector Circuit High
KQ90	Intake Runner Control - Solenoid Type Diagnosis

2.3 - Diesel Systems

2.3.1 - Fuel Systems

GB50	Diesel Fuel Delivery - Low Pressure Supply
GB60	Diesel Fuel Delivery - High Pressure Supply
GE30	Hydraulic Electric Unit Injection (HEUI)
GE35	Diesel Unit Injection
GE50	Introducing Common Rail Diesel (CRD)
GH50	CRD Fuel Delivery

2.3.2 - Sensor & Inputs

	COMING SOON
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2.3.3 - Diesel Control Systems

GF50	CRD Electronic Controls
GK50	CRD Injector Coding
GL50	CRD Intake & Exhaust Systems

2.3.4 - Actuators and Outputs

VD50	CRD Injector Leak Back Testing
VK80	Diesel Pressure Regulator Performance
VK85	Diesel Pressure Regulator Voltage Low
VK90	Diesel Pressure Regulator Voltage High

2.3.5 - Emission Control

DN50	NOx Type Catalytic Converter
GN50	DPF Diesel Particulate Filter
VK50	DPF Flow Diagnostics
VK55	DPF Pressure Sensor Voltage High - Pull Up Type
VK60	DPF Pressure Sensor Voltage High - Pull Down Type
VK65	DPF Pressure Sensor Voltage Low - Pull Up Type
VK70	DPF Pressure Sensor Voltage Low - Pull Down Type
VM00	SCR Selective Catalyst Reduction

2.3.6 - Glow Systems

GP00	Glow Plug Operation
GP10	Indirect Glow Plug System - Testing Procedures
GP15	Direct Glow Plug System - Testing Procedures

2.4 - Alternate Fuels

AF10	LPG Vapour System Overview
AF25	Introducing Ethanol Fuel
AF26	E85 and Flex Fuel Vehicles

3.1 - Common Systems

BD00	4 Stroke Engine Principles
BD50	Best Practice Head & Gasket Leak Testing
BD60	Relative Compression Testing
HR20	Understanding Valve Timing
JP50	Valve Adjustment - Shim Type
JP75	Valve Adjustment - Rocker Type

3.2 - Gasoline Engine

HB50	Gasoline Engine Performance Checks
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3.3 - Diesel Engine

GM00	2 Stroke Diesel Engine Principles
GM50	Diesel Engine Performance Checks

3.4 - Cooling & Lubrication

KB20	Cooling System Principles
KB22	Understanding Engine Coolants
KB25	Cooling Fans - Relay Controlled
KB28	Thermostats - ECM Controlled
KB35	Cooling System Diagnosis
KB38	Best Practice Coolant Drain and Flush
KB40	Engine Coolant Testing
KB70	Engine Coolant Temperature Sensor Diagnostics
KT40	Oil Filtration Principles
KT50	Oil Pressure Sensor Circuit - Voltage Low Diagnosis
KT60	Oil Pressure Sensor Circuit - Voltage High Diagnosis
KT70	Oil Pressure Sensor Signal Performance

4.1 - Clutch Systems

CS00	Clutch System Principles
CS02	Multiplate Clutch Systems
CS10	Dual Mass Flywheel Principles
CS40	Conventional Clutch Diagnostics

4.2 - Manual Transmission

MT00	Manual Transmission Operation
MT10	Understanding Manual Transaxles

4.3 - Automatic Transmission

AT00	Torque Converter Operation
AT10	Planetary Gear Sets
AT15	Automatic Transmission Operation
AT20	Automatic Transmission Hydraulics
AT25	Electronic Transmission Control
NG50	6 Speed Hydramatic Service RWD
NM50	Mercedes Benz 722.9 Transmission Service
NT50	ZF 4HP 16 Transmission Service Check

4.4 - CVT

September 2019

CT00	Continuously Variable Transmission Overview
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4.5 - Dual Clutch / Shaft

NS00	Dual Clutch Transmission Overview
NS50	VW-Audi DSG Service

4.6 - Transfer Case

August 2019

TC00	Transfer Case Overview
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4.7 - Clutch pack / Viscous Coupling

	COMING SOON
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4.8 - Final Drive / Drive Shaft

FD00	Understanding Final Drives
FD05	Driveshaft, Universal and CV Joint Operation
FD30	Limited Slip Differentials

5 - Steering & Suspension

5.1 - Steering

FP00	Manual Steering Principles
FP05	Hydraulic Power Steering
FP40	Electro-Hydraulic Power Steering
FQ50	Electric Power Steering
FQ70	Understanding Steering Angles
MC50	Steering Angle Sensor - Voltage High Diagnosis

5.2 - Suspension

FR00	Suspension System Principles
FR05	Suspension Components - Springs
FR10	Suspension Components - Shocks
FR12	Suspension Components - Active Shocks
FR15	Suspension Components - Linkages
FR17	Suspension Components - Anti Roll
FR20	Air Suspension Overview

5.3 - Wheels

	COMING SOON
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5.4 - Tyres

FX00	Tyre Technology
FX05	Tread and Rim Technology
FX15	What are Run-Flat Tyres
FX50	Tyre Pressure Monitoring
FX65	Best Practice Standard Tyre Strip & Fit
FX67	Best Practice Low Profile/ Run Flat Tyre Strip & Fit
FX70	Best Practice Standard Wheel Balancing

6.1 - Brakes

BK00	Automotive Braking Principles
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6.1.1 - Conventional Hydraulic

BK12	Brake Master Cylinder Operation
BK15	Hydraulic Pressure Control & Safety Valves
BK20	Brake Booster - Vacuum Suspended
BK23	Disc Brake Systems

6.1.2 - Electro Hydraulic

	COMING SOON
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6.1.3 - Electric

FM50	Cable Actuated Electric Park Brakes
FM60	Cable Actuated Electric Park Brake Adjustment
FM75	Calliper Type Electric Park Brakes

6.2 - ABS

FC50	Anti-Lock Brakes
MH25	Wheel Speed Sensor Operation & Testing
MH50	Wheel Speed Sensor Circuit Fault
MK50	ABS Pump Motor Circuit Diagnosis

6.3 - Vehicle Dynamics

FH50	Traction Control
FJ50	Stability Control
FJ60	Hill Descent
FK50	Yaw Sensor - Communication Fault
FK60	ESP Bus Diagnostics

7.1 - Operation & Servicing		
	UG15	Introducing Air Conditioning
	UG16	Introducing R1234yf
	UG25	Air Conditioning High Side Components
	UG40	Air Conditioning Low Side Components
	UG80	Air Conditioning Servicing

7.2 - Diagnosis & Repair		
	UG55	HVAC System - Sensor Inputs
	UG60	HVAC System - Controls
	UG65	HVAC Systems - Outputs
	XJ50	Air Conditioning System Pressure Diagnosis
	XK50	Air Conditioning Thermistor Diagnosis
	XK68	Sunload Sensor Voltage Low
	XK70	Sunload Sensor Voltage High
	XL50	Air Conditioning Compressor Clutch Diagnosis

8 - Vehicle Servicing

8.1 - Vehicle Servicing

UC50	Best Practice Vehicle Servicing
UC65	Best Practice Vehicle Safety Checks

8.1.1 - Engine

VE00	Engine Oil Viscosity and Performance Classification
VE05	Engine Oil - Bases, Additives & Composition
VE10	Engine Oil - Synthetic vs Mineral
VE35	Accessory Drive Belt Systems
VE40	Drive Belt Diagnosis

8.1.2- Driveline

VD80	Automatic Transmission Fluids
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8.1.3 - Chassis

CI30	Understanding NVH - Noise
CI32	Understanding NVH - Vibration
CI34	Understanding NVH - Harshness
CI36	Understanding NVH - Diagnostics

8.1.4 - Brake

BF00	Understanding Brake Fluid
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8.1.5 - Body

	COMING SOON
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8.1.6 - Electrical

ES15	Smart Battery Charger Technology
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8.1.7 - Diagnostic

October 2019	DS50	Automotive Thermal Imaging & Diagnostics
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9.1 - Scan Tools

Autel

MaxiDAS DS708

RC50	MaxiDAS DS708 Getting Started
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MaxiSYS Pro

RE50	MaxiSYS Pro Getting Started
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RE60	MaxiSYS Pro Diagnosis Menu
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RE70	MaxiSYS Pro Active Tests
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RE80	MaxiSYS Pro EOBD
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RE85	MaxiSYS Pro Brake Bleeding
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Autologic

AssistPlus

AP00	AssistPlus Getting Started
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AP05	AssistPlus Diagnostic Application
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Bosch

KTS590

BT00	KTS590 Getting Started
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BT01	KTS590 Vehicle Identification
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BT02	KTS590 Managing Diagnostic Data
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KTS350

Coming Soon

BT05	KTS350 Getting Started
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Carman International

SN50	Carman Auto i-700 Overview
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SN52	Carman Auto i-700 PC Integration
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DEC

QC50	Superscan 3 Getting Started
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QC60	Superscan 3 Diagnosis Menu
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QC70	Superscan 3 Special Functions & Actuators
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G-Scan

G-Scan

OC50	G-Scan Getting Started
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OC70	G-Scan Codes, Data, Graphing & OBD
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OC90	G-Scan Special Functions
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G-Scan 2

OE50	G-Scan2 Getting Started
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OE70	G-Scan2 Codes, Data, Graphing & OBD
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OE80	G-Scan2 OBD Functions
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OE90	G-Scan2 Special Functions
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9.1 - Scan Tools

Snap-On

Modis Ultra

PD50	Modis Ultra Getting Started
PD70	Modis Ultra Guided Component Testing
PD90	Modis Ultra Multimeter & Oscilloscope
PE10	Modis Ultra Scanner & EOBD

Modis Edge

PE11	Modis Edge Getting Started
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Verus Pro

PF10	Verus Pro Getting Started
PF30	Verus Pro Scanner Module
PF40	Verus Pro 4 Channel Labscope
PF50	Verus Pro OBD Direct

Verus Edge

PF11	Verus Edge Getting Started
PF12	Verus Edge OBD & Guided Component Tests
PF13	Verus Edge 4 Channel Labscope

9.2 - Shop Equipment

9.2.1 - Oscilloscopes

SG50	Picoscope Getting Started
SG60	Picoscope 4425
SL50	1005 V-Scope Getting Started
SL51	1005 V-Scope Component Testing
SL55	Autel MaxiScope MP408
SL60	Rohde & Schwarz RTH1002

9.2.2 - Programming

SM50	CARDAQ-M Getting Started
SS40	Durst 12100 Programming Power Supply
SS50	Acctiva Professional Flash Support Unit

9.2.3 - Emission Testing

SO50	Hanatech Leak Detector
SP50	BulletPro 502 Automotive Emission Analyser
SS05	Durst ST-05 O2 Sensor Tester & Simulator

9.2.4 - Electrical

SJ10	Diagnostic Box TDB003 Proximity/Smart Key Tester
SJ13	Diagnostic Box TDB006 Transponder Antenna Tester
SJ15	Diagnostic Box TDB008 Parking Sensor Tester
SJ20	Diagnostic Box TDB013 Port Protector & Booster
SJ21	Diagnostic Box TDB014 Port Tester
SJ50	CAN Test Box
SJ55	Power Probe III
SJ70	SXE VFP1000 Probe
SJ80	AutoDiagger AD100 Smart Regulator Tester
SV50	OTC 3200 Battery Tester
SS10	Durst BT-2003F Carbon Pile Load Tester
SS14	Durst BJC-2000 Wasp Jump Starter
SS15	Durst BJT-75 Dino Mobile Jump Starter

9.2.5 - Hand Tools

SC50	Let's Torque Wrenches
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9.2.6 - HVAC

ST50	JAS Oceania HVAC Starter Pack
ST70	Air Conditioning Diagnostic Tools

9.2.7 - Brakes

BT50	Circuitlink Brake Testa RX series
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SB00	Strategy Based Diagnosis
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10.1 - OEM Providers

Chrysler

WC50	Chrysler Group - to 2007
WC60	Chrysler Group 2007 - 2009
WC70	Chrysler Group 2010 on

Ford

WF50	Ford Motorcraft Non-Interactive
WF60	Ford Motorcraft Interactive

General Motors

WG50	General Motors eSI
WG60	General Motors eSI Bus Schematics

Honda

WH50	Honda - to 1995
WH55	Honda 1996 - 2005
WH60	Honda 2006 - 2011
WH65	Honda - 2012 on

Hyundai

WH70	Hyundai - to 2000
WH75	Hyundai 2001 - 2006
WH80	Hyundai 2007 - 2010
WH85	Hyundai 2011 on

Mitsubishi

WM40	Mitsubishi Motors Service Information Retrieval
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KIA

WK50	Kia Tech Info - Service Materials
WK55	Kia Tech Info - Publications
WK60	Kia Tech Info - Diagnostic Tools & Equipment

Subaru

WS50	Subaru Technical Information System
WS55	Subaru Technical Information Circuit Diagrams

Toyota

WT50	Toyota - to 2005
WT60	Toyota - 2006 on

Volkswagon Auto Group

WV50	Volkswagen Auto Group
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10.2 - Aftermarket Providers

AutoData

WA50	Autodata - Pre 2015 Update
WA55	Autodata - Service & Powertrain
WA60	Autodata - Chassis, Body & Interior
WA65	Autodata - Electrical
WA70	Autodata - General & Estimate Calculator