



<i>Category</i>	<i>Category 2<sup>nd</sup> tier</i>	<i>Category 3<sup>rd</sup> tier</i>	<i>Category 4<sup>th</sup> tier</i>	<i>Category 5<sup>th</sup> tier</i>	<i>Chapter Number</i>
Fundamentals	Electrics	Essential Electrical Skills	Introduction to Electrics		166909
Fundamentals	Electrics	Essential Electrical Skills	Voltage, Current and Resistance		147570
Fundamentals	Electrics	Essential Electrical Skills	Types of Circuit		166893
Fundamentals	Electrics	Essential Electrical Skills	The differences between DC and AC		166894
Fundamentals	Electrics	Essential Electrical Skills	Facts about Voltage		166895
Fundamentals	Electrics	Essential Electrical Skills	Fact One Explained		166896
Fundamentals	Electrics	Essential Electrical Skills	Fact Two Explained		166897
Fundamentals	Electrics	Essential Electrical Skills	Fact Three Explained		166898
Fundamentals	Electrics	Essential Electrical Skills	Fact Four Explained		166899
Fundamentals	Electrics	Essential Electrical Skills	Ohm's Law		166900
Fundamentals	Electrics	Essential Electrical Skills	NTC Coolant Temperature Sensor Circuit		172006
Fundamentals	Electrics	Essential Electrical Skills	Why Use Volt Drop?		170814
Fundamentals	Electrics	Essential Electrical Skills	Relays		177643
Fundamentals	Electrics	Essential Electrical Skills	Calculating Resistance of Series Circuits		166901
Fundamentals	Electrics	Essential Electrical Skills	Current flow through Parallel Circuits		166902
Fundamentals	Electrics	Essential Electrical Skills	Current flow and the unrestricted path		166903
Fundamentals	Electrics	Essential Electrical Skills	Calculating identical Parallel Resistances		166904
Fundamentals	Electrics	Essential Electrical Skills	Calculating differing Parallel Resistances		166905
Fundamentals	Electrics	Essential Electrical Skills	Calculating differing Parallel Resistances continued		166906
Fundamentals	Electrics	Essential Electrical Skills	Wiring Batteries into Circuits		166907
Fundamentals	Electrics	Essential Electrical Skills	Watt's Law		166908
Fundamentals	Electrics	Essential Electrical Skills	Essential Electrical Skills Course Test		167760
Fundamentals	Oscilloscopes	Principles of Oscilloscopes	Principles of Oscilloscope		147572
Fundamentals	Electrics	Further Electrics	Hall Effect		152119
Fundamentals	Electrics	Further Electrics	The Piezoelectric Effect		152120
Fundamentals	Electrics	Further Electrics	The Principles of MRE Sensors		152122
Fundamentals	Electrics	Further Electrics	Transformers		152129
Fundamentals	Electrics	Further Electrics	PWM		152135
Fundamentals	Electrics	Further Electrics	The Principles of PTC		163703

Fundamentals	Oscilloscopes	Advanced Oscilloscope Functionality	Triggers		147573
Fundamentals	Oscilloscopes	Advanced Oscilloscope Functionality	Rulers / Cursors		213154
Fundamentals	Measurement	Vernier Caliper			147601
Fundamentals	Measurement	Micrometer			216421
Fundamentals	Measurement	DTI – Dial Test Indicator			216942
Vehicle Electrics	Multiplexing	Types of Multiplexed Networks	MOST		147574
Vehicle Electrics	Multiplexing	Types of Multiplexed Networks	SENT		156132
Vehicle Electrics	Power Management	Power Management	Power Management Introduction		605872
Vehicle Electrics	Power Management	Power Management	Ford Smart Charge - PWM Control		605873
Vehicle Electrics	Power Management	Power Management	Ford Smart Charge - PWM Control – End Test		605987
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	12V Batteries and their Differences - Part 1	499467
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	12V Batteries and their Differences - Part 2	499468
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	12V Batteries and their Differences - End Test	503946
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	How Lead Acid Batteries Work – Part 1	517881
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	How Lead Acid Batteries Work – Part 2	517882
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	How Lead Acid Batteries Work – Part 3	517883
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	How Lead Acid Batteries Work – End Test	527676
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Construction	519860
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Construction – End Test	527677
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Capacities	523720
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Capacities – End Test	527678
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	State of Charge (SoC) - Part 1	527029
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	State of Charge (SoC) - Part 2	527030
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	State of Charge (SoC) – End Test	527667
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – Introduction	543298
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – Safety	543299
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – High Rate Discharge Testing	543300
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – Carbon Pile Load Testing	543301
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – PicoScope Testing	547212
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – Conductance Testing	548191
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Diagnosis – End Test	584192
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Rate of Charge	569953
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Connecting a charger	569952
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Off Vehicle Charging	569951
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Charging Voltage	569950

Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Types of Chargers	569949
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Battery Charging – Battery Support	569948
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Jump Starting	582327
Vehicle Electrics	Starting and Charging	12V Batteries	12V - Lead Acid Batteries	Charging and Jump Starting – End Test	582328
Engine Management	Generic Sensors and Actuators	Sensors	Engine Speed Sensor- Inductive Type		142568
Engine Management	Generic Sensors and Actuators	Sensors	Camshaft Position Sensor		145061
Engine Management	Generic Sensors and Actuators	Sensors	The Relationship Between Crankshaft and Camshaft Sensor Signal		156166
Engine Management	Generic Sensors and Actuators	Actuators	The operation of a 6 pin Siemens VDO electronic throttle		262768
Engine Management	Petrol	Direct Fuel Injection Systems	High Pressure Fuel Supply	Introduction to Petrol Direct Injection Systems	163169
Engine Management	Petrol	Direct Fuel Injection Systems	High Pressure Fuel Supply	High Pressure Fuel Pump	163172
Engine Management	Petrol	Direct Fuel Injection Systems	High Pressure Fuel Supply	High Pressure Injectors- Piezo	163173
Engine Management	Petrol	Ignition Systems	Fundamental Principles of an Ignition Coil		177530
Engine Management	Petrol	Ignition Systems	Ignition Integrated Phase Detection		147468
Engine Management	Petrol	Ignition Systems	Operating Principles of Wasted Spark Ignition Systems		200694
Engine Management	Petrol	Emissions	Understanding Lambda		163701
Engine Management	Petrol	Emissions	Zirconium Dioxide Oxygen Sensor		177260
Engine Management	Petrol	Emissions	The Principles of Catalytic Converters		147469
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Introduction	468214
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Lambda	468215
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Air and Fuel	468216

Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Perfect Combustion	470561
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – True Combustion	471184
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – The Role of the Catalytic Converter	471185
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Prechecks	471186
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – True Catalytic Converter Operation	480035
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Deviations from Lambda 1	482951
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Fuelling Maps	483965
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Fuel Trim – The Theory	490199
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Fuel Trim – The Realities	490200
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Fuel Trim – Indicators of Common Faults	490201
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Diagnosing using a Gas Analyser	495166
Engine Management	Petrol	Emissions	Understanding 4 Gas Analysis	4 Gas Analysis – Diagnostic Scenarios	496893
Engine Management	Diesel	Diesel Components	Introduction to IMV Common Rail Diesel – Part 1		392805
Engine Management	Diesel	Diesel Components	Introduction to IMV Common Rail Diesel – Part 2		396325
Engine Management	Diesel	Diesel Components	Introduction to IMV Common Rail Diesel – End Test		396326
Engine Management	Diesel	Diesel Components	Diesel Particulate Filter (DPF) - The Chemistry of Combustion - Pt1		147457
Engine Management	Diesel	Diesel Components	Diesel Particulate Filter (DPF) - Operation - Part 2		378349
Engine Management	Diesel	Diesel Components	Diesel Particulate Filter (DPF) - Workshop Intervention - Part 3		387821
Engine Management	Diesel	Diesel Components	Diesel Particulate Filter (DPF) – End Test		387822

Engine Management	Diesel	Diesel Diagnostics	Leak-off Testing Solenoid Operated Diesel Injectors - Part 1	147456
Engine Management	Diesel	Diesel Diagnostics	Leak-off Testing Solenoid Operated Diesel Injectors - Part 2	358474
Engine Management	Diesel	Diesel Diagnostics	Leak-off Testing Solenoid Operated Diesel Injectors – End Test	358475
Engine Management	Diesel	Diesel Diagnostics	Testing Negative Pressure Low Pressure Supply Circuits – Pt. 1	429236
Engine Management	Diesel	Diesel Diagnostics	Testing Negative Pressure Low Pressure Supply Circuits – Pt. 2	431510
Engine Management	Diesel	Diesel Diagnostics	Testing Negative Pressure Low Pressure Supply Circuits – End Test	431511
Engine Management	Diesel	Diesel Diagnostics	Diagnosing Inlet Metered High Pressure Diesel Pumps - Part 1	450650
Engine Management	Diesel	Diesel Diagnostics	Diagnosing Inlet Metered High Pressure Diesel Pumps - Part 2	451686
Engine Management	Diesel	Diesel Diagnostics	Diagnosing Inlet Metered High Pressure Diesel Pumps - Part 3	453026
Engine Management	Diesel	Diesel Diagnostics	Diagnosing Inlet Metered High Pressure Diesel Pumps - Part 4	454622
Engine Management	Diesel	Diesel Diagnostics	Diagnosing Inlet Metered High Pressure Diesel Pumps – End Test	454623
Engine Mechanical	Diagnosis	Pressure Measurement	Relative Compression Testing	147838
Chassis	ABS	ABS	Calculating Slip Ratio	319719
Chassis	ABS	ABS	ABS – Four Channel Four Sensor System	147609
Chassis	Wheels and Tyres	Tyres Measurement	Tyre tread depth measurement	147647
Chassis	Wheels and Tyres	Tyres Measurement	Tyre tread depth measurement - End Test	253048
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Introduction and Legislation	686039
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Tyre Dimensions	687598
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Speed and Load Ratings	687599
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Aging a Tyre	687602
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Extra Load Tyres	687603
Chassis	Wheels and Tyres	Tyre Sidewall Marking	OE Tyres	687605
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Balancing Dots	687620
Chassis	Wheels and Tyres	Tyre Sidewall Marking	Tyre sidewall Marking – End Test	688944
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Introduction to hybrid	What is hybrid?	147775

Hybrid and Electric vehicles	Hybrid & PHEV & EV	Introduction to hybrid	Hybrid Components		198479
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Introduction to hybrid	Types of hybrids		198480
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Introduction to hybrid	Introduction to hybrid technology End Test		200646
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Health Conditions and Working on Hybrid and Electric Vehicles	349628
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Ready Mode	147773
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Ready Mode - End Test	293694
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Electrocution	296286
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Electrocution – End Test	296287
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	ECE R100 Standard	593468
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Measuring High Voltage Safely	333831
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Measuring High Voltage Safely – End Test	333986
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Isolating the High Voltage Components ('03 - '09 Toyota Prius NHW20) - Part 1 - The Components	311269
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Isolating the High Voltage Components ('03 - '09 Toyota Prius NHW20) - Part 2 - The De-energising procedure	311270
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Isolating the High Voltage Components ('03 - '09 Toyota Prius NHW20) - Part 3 - Confirming the System is Safe to Work on	311272
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Hybrid and EV Safety	Isolating the High Voltage Components ('03 - '09 Toyota Prius NHW20) – End Test	311274
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Electric Vehicle Specific Safety	Electric Vehicle Ready Mode	584935
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	Electric Vehicle Specific Safety	Acoustic Vehicle Alerting System	584936
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Introduction	610530

Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Equipotential Bonding	610531
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Equipotential Bonding - End Test	614347
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Galvanic Isolation	671721
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Galvanic Isolation – End Test	671722
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Prerequisite	626905
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Introduction	626906
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – DC Balanced Bridge	626907
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Capacitor Resistor Circuit – Film Capacitors	636573
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Capacitors in Parallel and Series in DC Circuits	643770
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Capacitors in AC Circuits	647306
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – The Capacitor Resistor Circuit	653926
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – Summary	653927
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Isolation Monitoring – End Test	655985
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Interlock Circuits / Pilot Lines - Introduction	698760
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid and Electric Vehicle Safety	High Voltage Design Concepts and Safety Systems	Interlock Circuits / Pilot Lines - Toyota Prius NHW20	698761
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Dealing with a Hybrid in the Workshop		147772
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Dealing with a Hybrid in the Workshop – End Test		298836
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Plug-in Hybrid and EV Charging – Safety		414563
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Plug-in Hybrid and EV Charging – Modes		414564

Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Plug-in Hybrid and EV Charging – Plug Types		414565
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Plug-in Hybrid and EV Charging – User Experience		414566
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Maintenance	Plug-in Hybrid and EV Charging – End Test		414567
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	System Main Relays		147774
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	System Main Relays – End Test		302186
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Electric Motor Generators (Permanent Magnet Synchronous Motors) - Part 1		323640
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Electric Motor Generators (Permanent Magnet Synchronous Motors) - Part 1 – End Test		323838
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Nickel Metal Hydride Batteries – Part 1 – Introduction		338944
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Nickel Metal Hydride Batteries – Part 2 – Battery Monitoring		339485
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Nickel Metal Hydride Batteries – Part 3 – Data Analysis		342974
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Nickel Metal Hydride Batteries – Part 4 – Electrolyte Leakage		344756
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Nickel Metal Hydride Batteries – End Test		344763
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Braking Systems – Part 1		443622
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Braking Systems – Part 2		443623
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Braking Systems – Part 3		443624
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Hybrid Components	Hybrid Braking Systems – End Test		443625
Hybrid and Electric vehicles	Hybrid & PHEV & EV	Introduction to Electric Vehicles	Introduction to Electric Vehicles – Part 1		584917
Hybrid and Electric vehicles	Hydrogen Fuel Cell Vehicles	An Introduction to Hydrogen Fuel Cell Vehicles			458305
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – Part 1 - Introduction		147563
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – Part 2 – The Properties of		236260



			Refrigerant	
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – Part 3 – Sensible Heat and Latent Heat	236261
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – Part 4 – The Effect of Pressure on Boiling Point	236262
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – Part 5 – The Cycle Explained	238964
HVAC	Air Conditioning	The AC Refrigerant Cycle	The AC Refrigerant Cycle – End Test	243243
HVAC	Air Conditioning	Components of the Air Conditioning System	Fixed Swash Plate Air Conditioning Compressor	147565
HVAC	Air Conditioning	Components of the Air Conditioning System	The operation of Electromagnetic Clutches	243228
HVAC	Air Conditioning	Components of the Air Conditioning System	Variable Displacement Swash Plate Air Conditioning Compressor Part 1	255067
HVAC	Air Conditioning	Components of the Air Conditioning System	Variable Displacement Swash Plate Air Conditioning Compressor Part 2	260973
HVAC	Air Conditioning	Components of the Air Conditioning System	The Fixed Orifice Tube Air Conditioning System	259146
HVAC	Air Conditioning	Components of the Air Conditioning System	Controlling Air Conditioning Systems – Part 1	269069
HVAC	Air Conditioning	Components of the Air Conditioning System	Controlling Air Conditioning Systems – Part 2	275815
HVAC	Air Conditioning	Components of the Air Conditioning System	Controlling Air Conditioning Systems – Part 3	277863
HVAC	Air Conditioning	Components of the Air Conditioning System	Controlling Air Conditioning Systems – End Test	277866
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 1 - Introduction	147567
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 2 - Insufficient Cooling at the Condenser	264222
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 3 - Low Compressor Efficiency	264223
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 4 - Blockage in the Refrigerant Circuit	264224
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 5 - Low Refrigerant	264425
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 6 - Variable Displacement Compressor Faults	264226

HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - Part 7 - Summary	264227
HVAC	Air Conditioning	Diagnostics	Air Conditioning Diagnostics - End Test	265942
HVAC	Air Conditioning	Diagnostics	Air Conditioning System - Leak Detection	281118
HVAC	Air Conditioning	Diagnostics	Air Conditioning System - Leak Detection End Test	281122
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Performance Testing Air Conditioning Systems	253300
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Performance Testing Air Conditioning Systems – End Test	254605
HVAC	Air Conditioning	Servicing Air Conditioning Systems	The Lubricants of Air Conditioning Systems	253301
HVAC	Air Conditioning	Servicing Air Conditioning Systems	The Lubricants of Air Conditioning Systems – End Test	253302
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – Part 1 Introduction	504588
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – Part 2 Connecting the Machine	507212
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – Part 3 Recovery	509921
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – Part 4 Vacuuming Down the System	514257
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – Part 5 Charging the System	515861
HVAC	Air Conditioning	Servicing Air Conditioning Systems	Servicing Air Conditioning Systems – End Test	541657
HVAC	Air Conditioning	Safety	Working Safely with Refrigerants	250043
HVAC	Air Conditioning	Legislation and Environmental Impact	Legislation and Environmental Impact - Part 1	583477
HVAC	Air Conditioning	Legislation and Environmental Impact	Legislation and Environmental Impact - Part 2	583478
HVAC	Air Conditioning	Legislation and Environmental Impact	Legislation and Environmental Impact – End Test	583479
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Introduction	583502
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Safety	583503
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Virgin Bottles	583504
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Recovery Tanks	583505
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Recovery Tanks Capacity Calculation	583506

HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Refrigerant Identification Techniques	583507
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – Transferring Refrigerant	573508
HVAC	Air Conditioning	Refrigerant Handling	Refrigerant Handling – End Test	583509