
Unabridged Index

A

Activated charcoal trap
 Description 687
 Installation 703
Actual value 37
Actuator air
 Plumbing 711
 Requirements 692
Adapter
 bubble meter 96
 detector
 installation 147
 PTV inlet, replacing 421
Ambient temp
 oven setpoint 116
Analog
 Cable G1530-60560 718
 Cable G1530-60570 716
 zero 172
Analog output 714
 attenuation 174
 range 173
Analog-to-Digital Converter, 35900 675, 716
APG remote communications
 see Remote start/stop 714
Asterisk 36
Attenuation 174
Auto Prep Run 285
Automatic liquid sampler
 7683
 bar code reader 211
 configuring injector 210
 control table 207
 injector setpoints 208
 sample tray setpoints 211
 Specifications 675
Aux # keys 42
Auxiliary temperature programming 215
Auxiliary channels 88

B

Back Det key 42
Back Injector key 60
Back Inlet key 42
Bar code reader
 with 7683 211
Baseline shifts
 digital signal 175
Batteries 29
BCD
 Cable 03396-60570 717
 Communications port 714
 G1530-60630 720
Bead
 NPD 567, 574
 replacing 585
 voltage 570
Beep 37, 54
Binary coded decimal 714
Bubble meter 95

C

Cables
 03396-60530, RS-232 717
 03396-60570, BCD 717
 03396-61010, Remote 716
 03396-61020, Remote 716
 24540-80012
 Modem 716
 RS-232 717
 24542U, RS-232 717
 35900-60670, Remote, diagram 719
 92268B, LAN 715, 716
 G1530-60560, Analog, diagram 718
 G1530-60570, Analog 716
 G1530-60590, External event 716, 720
 G1530-60630, BCD 720
 G1530-60930, Remote 716
 G1530-61120
 Modem 716

Unabridged Index

- RS-232 717
- G1530-61200, APG, Splitter 717
- G2614A-60610, 2619A tray cable 716
- NonGC cabling requirements 717
- Requirements
 - GC communications 716
- Calibration
 - EPC 92
 - option 54
- Capillary columns
 - conditioning 157
- Carbon dioxide
 - For cryogenic cooling 688
 - Plumbing to GC 708
- Carrier gas
 - Capillary columns 681
 - Flow rate and column size 276
 - Packed columns 680
 - Plumbing to inlet manifold 705
- Caution message 38
- Channels
 - auxiliary 88
 - changing frits 91
- ChemStation
 - Communication with Automatic Liquid Sampler 717
 - Communication with GC 716
 - Communication with Mass Selective Detector 717
 - Communication with modem 717
 - signal processing 176
 - Specifications 675
- Cleaning
 - cool on-column inlet 369
 - jets, NPD 601
 - PTV inlet
 - septumless head 424
 - purged packed inlet 344
 - split/splitless inlet 323
 - Volatiles Interface 469
- Clear key 58
- Click
 - key 54
- Clock Table
 - key 60
 - LED 39
- Clock time
 - adding events 194
 - deleting events 195
 - editing events 194
 - programming 191, 192
- Col Comp n keys 42
- Col n keys 42
- Column
 - capillary
 - ferrules 140
 - hanger 120
 - preparation 121
 - compensation 178
 - making a run 180
 - plotting profile 182
 - compensation profile 180
 - conditioning 155
 - configuration 70
 - control table 279
 - modes 74
 - packed
 - conditioning 158
 - packed glass
 - installation 152
 - packed metal
 - ferrules 149
 - fittings 141
 - installation 148
 - installing ferrules 146
 - making a spacer 144
 - preparation 143
 - PTV inlet
 - installation 422
 - selecting mode 74
 - shutdown 65

Unabridged Index

- size and flow rate 77
 - Volatiles interface
 - installation 464
 - Communications
 - Analog 714
 - BCD 714
 - option 54
 - Remote start/stop 714
 - Compensation
 - column 178
 - profile
 - creating 180
 - Computer, nonAgilent
 - Cable 35900-60670 (2 m) 716
 - Cable 35900-60920 (5 m) 716
 - Cable 35900-60930 (0.5 m) 716
 - Communication with GC 716
 - Specifications 675
 - Conditioning
 - capillary columns 157
 - column
 - preliminary steps 156
 - columns 155
 - packed columns 158
 - traps 159
 - Config key 56
 - Configuration
 - carrier gas 73
 - column 70
 - definition 68
 - injector
 - 7683 210
 - instrument 56
 - makeup gas 511
 - nonEPC inlet 490
 - oven 105
 - PTV inlet 381
 - setpoint status table 49
 - valve 218
 - Volatiles Interface
 - direct mode 460
 - Constant flow 74
 - Constant pressure 74
 - Consumables
 - List 694
 - Control table
 - automatic liquid sampler
 - 7683 207
 - column 279
 - column undefined
 - purged packed inlet 331
 - definition 24
 - detector 507
 - FID
 - EPC 522
 - keyboard and display 54
 - μ-ECD 613
 - nonEPC inlet 491, 492
 - NPD
 - EPC 576
 - packed column 281
 - PTV inlet
 - pulsed split mode 390
 - pulsed splitless mode 401
 - solvent vent mode 409
 - split mode 386
 - splitless mode 397
 - purged packed inlet 331
 - sequence 236
 - sequence definition 226
 - signal 168
 - split/splitless inlet 83
 - pulsed split mode 302
 - pulsed splitless mode 304
 - split mode 293
 - splitless mode 297
 - stored sequence 226
- TCD
 - EPC 557
- undefined column 281
- use 25

Unabridged Index

- Volatiles Interface
 - direct mode 460
 - split mode 444
 - splitless mode 450
 - Cool on-column inlet 347
 - changing septum 352, 367
 - check needle size 354
 - cleaning 369
 - cooling tower 351, 367, 369
 - manual injection 355
 - correcting leaks 373
 - CryoBlast 357
 - cryogenic considerations 358
 - duckbill septum 351
 - fused silica needle 363, 365
 - hardware 348
 - hardware problems 363
 - injection with septum nut 350
 - inserts 350
 - installing capillary columns 125
 - installing insert 353
 - leak testing 372
 - gas plumbing 371
 - maintenance 361
 - manual injection
 - septum nut 355
 - needles 350
 - operation 360
 - septum changing 366
 - septum nut 352, 368, 370
 - setpoint ranges 358
 - temperature programming 357, 359
 - track oven mode 357
- Cooling
 - oven 116
 - Cooling requirements
 - GC 671
 - Cooling tower
 - cool on-column inlet 351, 367, 369
 - Copper tubing
 - Plumbing for cryo cooling 709
 - Plumbing to detector manifold 706
 - Plumbing to gas supply 702
 - Plumbing to inlet manifold 705
 - Recommendations 685
 - Creating
 - method 198
 - sampler subsequence 230
 - sequence 230
 - valve subsequence 231
 - Cryo
 - oven setpoint 116
 - Cryo fault
 - oven setpoint 117
 - Cryo shutdown 117
 - PTV inlet 383
 - Cryo timeout
 - oven setpoint 117
 - CryoBlast
 - cool on-column inlet 357
 - Cryogenic
 - oven 116
 - Cryogenic cooling
 - Carbon dioxide 688
 - Nitrogen 690
 - Plumbing liquid carbon dioxide 708
 - Plumbing liquid nitrogen 709
 - Requirements 688
 - Cursor 36
- ## D
- Data rate
 - ChemStation 176
 - definition 174
 - FID 519
 - NPD 572
 - Data system, nonAgilent
 - Communication with GC 716
 - Date setting 51
 - Default method 201
 - Default parameters 61
 - Delete key 58

Unabridged Index

Deleting
 method 204
 sequence 236
Det Control key 44, 513
Detector
 control table 507
 Det Control key 513
 ECD
 plumbing 86
 ECD and μ -ECD
 installing capillary columns 134
 FID
 installing capillary columns 129
 FID and NPD
 plumbing 84
 flow rates 512
 FPD
 installing capillary columns 137
 Gas recommendations 679, 680
 installing adapters 147
 NPD
 installing capillary columns 129
 overview 506
 Plumbing gas to manifold 706
 TCD
 installing capillary columns 133
 plumbing 85
Detector shutdown
 FID 516
Diagnostics
 option 54
Digital zero 175
Direct mode
 Volatiles Interface 455, 462
 control table 460
 parameters 462
Display 36
 blinking 37
 LED 39

E
Editing
 method 203
 sequence 235
Electrical requirements
 Cord 677
 Maximum consumption 677
 Oven type 677
 Voltages 677
Electrometer
 FID 519
 FPD 634
 μ -ECD 610
 NPD 572
Electron capture detector
 Attaching gas plumbing 706
 ECD
 checkout chromatogram 616
 checkout conditions 614
 safety 608
 Gas recommendations 680, 681
 installing capillary columns 134
 μ -ECD 604, 612
 control table 613
 correcting problems 618
 electrometer 610
 gases 610
 leak testing 620
 linearity 609
 maintenance 617
 parameters 611
 temperature 610
 thermal cleaning 622
 wipe test 624
Electronic Pneumatic Control
 definition 64
Environmental requirements, GC
 Humidity 671
 Temperature 671

Unabridged Index

EPC

- calibration 92
- definition 64, 67

EPC inlet

- Attaching tubing to 705
- Gas recommendations 679, 680, 681

Equilibration time

- NPD 569, 570
- oven 105

Error 38

External event

- Cable G1530-60590 716, 720
- connector 217

F

Fast heating oven 675

Fast peaks 175

- FID 519
- FPD 635
- NPD 572

Ferrules

- capillary columns 140
- glass packed columns 154
- packed metal columns 149
 - installing 146
- Teflon, replacing 426

Filter

- FPD 628
- split vent trap cartridge, replacing
 - Split/splitless inlet 316, 433, 472

Final temp

- LED 39
- oven programming 108

Final time

- oven programming 108

Fittings

- Connecting to tubing 725
- Leak checking 707

Flame ionization detector 515, 538

- assembling 539
- Attaching gas plumbing 706

automatic ignition 518

checkout chromatogram 526

checkout conditions 524

collector

- cleaning 535
- removing 536

data rates 519

electrometer 519

EPC 523

- control table 522

fast peaks 519

flow rates 520

Gas recommendations 680

hardware problems 528

ignition wire replacement 541

jets 517

- cleaning 532
- installing 533
- removing 529
- replacing or cleaning 528

lit offset 518

maintenance 527

pressure and flow 521

shutdown 516

temperatures 520

Flame photometric detector

Attaching gas plumbing 706

checkout chromatogram 641

checkout conditions 639

compatibility 629

dual wavelength 629

electrometer 634

filters 628

Gas recommendations 680, 681

ignition 634

linearity 626

liner 653

lit offset 632

quenching 627

replacing PMT 656

saturation 628

Unabridged Index

temperature 631

Flow

- constant 74
- FID 520
- initial 76
- interpretation 98
- maximum rates 512
- measuring with bubble meter 95
- NPD 574
- problems 99
- programming 79
- PTV inlet
 - solvent vent mode 406
- ramped 74
- sensor calibration 92
- TCD 555

Flow key 43

Front Det key 42

Front Injector key 60

Front Inlet key 42

Fuses 29

G

Gas

- carrier flow and column size 77
- configure carrier 73
- makeup 510

Gas plumbing

- Attaching traps to 703
- Diagram 703
- Overview 683
- Pipe-thread connections 686
- Recommendations 683
- Two-stage pressure regulator 686

Gas recommendations

- Capillary columns 680
- Detectors 679, 680
- Packed columns 679
- Purity 681

Gas sampling valve 221

- Communication with GC 716

Gas saver 283

- LEDs 39

Gas supply

- Connecting tubing to 702
- Plumbing 702
- Purity recommendations 681

Gas supply tubing

- Attaching a Tee 704
- Connecting to detector manifold 706
- Connecting to gas supply 702
- Connecting to inlet manifold 705
- Determining length 702
- Diameter 685
- Leak checking 707
- Recommendations 685

Gases

- μ -ECD 610
- on/off control 66

GC

- Benchtop requirements 672
- Communications with other instruments, overview 714
- Cooling requirements 671
- Dimensions 675
- Electrical requirements 677
- Electrical specifications 675
- Grounding 676
- Heat specifications 675
- Humidity range 671
- Line voltage 676
- On/Off switch 700
- Space requirement 672
- Temperature range 671
- Venting exhaust 672
- Venting noxious gases 672
- Weight 675

GC Automatic Liquid Sampler 675

GC system

- Cabling 713, 716, 717
- Communication between instruments 713, 717
- Component specifications 675

Unabridged Index

- Configurations 674
- Diagrams 715
- General Information 23
- Glass columns
 - installation 152
- Grounding
 - GC 676

H

- Hanger
 - capillary columns 120
- Hardware
 - cool on-column inlet 348
- Headspace Sampler, 7694
 - Communication with ChemStation 717
 - Communication with Integrator 717
 - Communication with unspecified non-Agilent instrument 717
 - Specifications 675
 - Volatiles Interface
 - connection 479
- Humidity
 - Operating ranges 671
- Hydrocarbon trap
 - Description 687
 - Installation 703
- Hydrogen 274, 506
 - analysis for 554
 - NPD, turning off during solvent peak 570
 - shutdown 65

I

- Ignition
 - FID, automatic 518
 - FPD 634
- Ignition wire, FID
 - replacement 541
- Info key 46
- Init temp
 - oven programming 108

- Init time
 - oven programming 108
- Initial flow 76
- Initial pressure 76
- Initial Temp
 - LED 39
- Injector
 - configuring 7683 210
- Injector configuration
 - large volume injection 414
- Injector parameters
 - large volume injection 414
- Inlet
 - cool on-column
 - installing capillary columns 125
 - nonEPC 94
 - configuration 490
 - parameters 81
 - PTV
 - installing capillary columns 129
 - purged packed
 - installing capillary columns 126
 - split/splitless
 - control table 83
 - installing capillary columns 123
 - septum 289
 - Volatiles Interface
 - installing capillary columns 129
- Inlet manifold
 - Plumbing carrier gas to 705
- Inlet, EPC
 - Gas recommendations 679, 680, 681
- Inlet, nonEPC
 - Gas recommendations 679, 680, 681
- Inlets
 - overview 275
- Inserts
 - cool on-column inlet 350
 - purged packed inlet 326, 329
- Installation 693

Unabridged Index

Installation procedures

- Attaching liquid carbon dioxide tubing 708
- Attaching liquid nitrogen tubing 709
- Attaching the oven exhaust deflector 699
- Attaching traps 703
- Attaching tubing to detector manifold 706
- Attaching tubing to inlet manifold 705
- Attaching valve actuator air 711
- Configuring the GC 722
- Connecting cables 713
- Connecting tubing to gas supply 702
- Placing the system on the benchtop 699
- Plumbing cryogenic liquid
 - Carbon dioxide 708
 - Nitrogen 709
- Plumbing detector manifold 706
- Plumbing inlet manifold 705
- Plumbing valve actuator air 711
- Self-test diagnostics 700
- Unpacking the GC 698

Installing capillary columns

- cool on-column inlet 125
- ECD and μ -ECD 134
- FPD 137
- NPD and FID 129
- PTV inlet 129
- purged packed inlet 126
- split/splitless inlet 123
- TCD 133
- Volatiles Interface 129

Installing columns

- PTV inlet 422
- Volatiles Interface 464

Installing jets

- FID 533

Installing packed glass columns 152

Installing packed metal columns 148

Instrument Automation 184

Instrument, unspecified non-Agilent

- Communication with GC 716

Instrument, unspecified nonAgilent

- Communication with Headspace Sampler 717

Integrator

- Communication with GC 716
- Communication with Headspace Sampler 717
- Specifications 675

Integrator, non-Agilent 716

Introduction to Inlets 273

Isothermal oven 106

J

Jets

FID 517

- cleaning 532
- installing 533
- removing 529
- replacing or cleaning 528

FPD

- cleaning and replacing 651

NPD 573

- cleaning 601
- cleaning or replacing 598
- removing and inspecting 599
- replacing 602

K

Key click 54

Keyboard 40

- lock 54

Unabridged Index

L

LAN

- Cable 716

Large volume injection

- ChemStation requirements 413
- example 415

LaserJet

- Specifications 675

Leak correction

- cool on-column inlet 373
- PTV inlet 438
- purged packed inlet 343
- split/splitless inlet 322
- Volatiles Interface 477

Leak testing

- cool on-column inlet 372
 - gas plumbing 371
- μ -ECD 620
- pneumatics control module
 - gas plumbing 503
- PTV inlet 435
 - gas plumbing 434
 - leak points 438
- purged packed inlet
 - EPC 339
 - gas plumbing 339
 - nonEPC 341
- split/splitless inlet
 - EPC 318
 - gas plumbing 317
 - nonEPC 320
- Volatiles Interface 474
 - gas plumbing 473
 - preparation 476

Leaks

- Checking for 707

Line voltage

- Requirements 676
- Requirements by country 678

Linear velocity 76

Linearity

- FPD 626
- μ -ECD 609

Liners

- PTV inlet 430
 - replacing 431
- purged packed inlet 326, 327
- split/splitless inlet 290

Liquid carbon dioxide

- Plumbing to GC 708
- Requirements for cryogenic cooling 688

Liquid nitrogen

- Plumbing to the GC 709
- Requirements for cryogenic cooling 690

Listing a method 204

Lit offset

- FID 518
- FPD 632

Load key 60

Loading

- default method 201
- default parameters 61
- method 200
- sequence 234

Lock

- keyboard 54

M

Maintenance

- cool on-column inlet 361
- FID 527
- μ -ECD 617
- NPD 581
- PTV inlet 421
- purged packed inlet 333
- schedule 30
- split/splitless inlet 306
- TCD 562
- Volatiles Interface 463

Makeup gas

- configuration 511

Unabridged Index

- EPC detectors 510
- flow 510
- flow modes 511
- Manual injection
 - cool on-column inlet
 - cooling tower 355
 - septum nut 355
- Mass Selective Detector
 - Communication with ChemStation 717
 - Communication with GC 716
 - Specifications 675
- Merlin microseal 429
- Messages 38, 241
- Method
 - creating 198
 - definition 197
 - deleting 204
 - editing 203
 - listing 204
 - loading 200
 - loading default 201
 - mismatch 202
 - storing 199
- Method key 60
- Mode/Type key 57
- Modem
 - Cable 24540-80012 716
 - Cable G1530-61120 716
 - Communication with ChemStation 717
 - Communications port 714
- Moisture trap
 - Description 687
 - Installation 703
- Molecular sieve trap
 - Description 687
 - Installation 703
- N**
- Needle size
 - cool on-column inlet 354
- Needles, fused silica
 - cool on-column inlet 363, 365
- Nitrogen
 - Plumbing to GC 709
 - Requirements for cryogenic cooling 690
- Nitrogen-phosphorus detector 565, 574, 680, 681, 706
 - adjust offset 567
 - aborting 569
 - assembling 602
 - bead 567, 574
 - replacement 585
 - voltage 570
 - changing insulators & rings 590
 - checkout chromatogram 580
 - checkout conditions 578
 - cleaning 590
 - data rates 572
 - electrometer 572
 - EPC 577
 - control table 576
 - equilibration time 569, 570
 - flows 574
 - hardware problems 582
 - hydrogen off 570
 - installing capillary columns 129
 - jets 573
 - cleaning 601
 - cleaning or replacing 598
 - removing and inspecting 599
 - maintenance 581
 - pressures and flows 575
 - replacing jet 602
 - solvent peak
 - turning hydrogen off 570
 - temperatures 574
 - turning off 569

Unabridged Index

NonEPC inlet 488

Gas recommendations 679, 680, 681

Not Ready

LED 39

O

Options key 53

O-ring

glass packed columns 154

O-ring changing

purged packed inlet 337

split/splitless inlet 310, 311

Output

analog 172

zeroing 172

Oven

configuration 105

cryogenic 116

equilibration time 105

fast rates 109

isothermal 106

maximum temperature 105

Power requirements 675

safety 104

specifications 103

Oven exhaust deflector

Attaching to GC 699

Using 672

Oven key 42

Oven shutdown 104

Overview

Cabling requirements 716, 717

Front of instrument, illustration 695

GC system components 675

Rear of instrument, illustration 696

Supplies for installation 694

Tools for installation 694

Oxygen trap

Description 687

Installation 703

P

Packed metal columns

installation 148

Parameters

default 61

inlet 81

Personal computer

Specifications 675

Photomultiplier tube, FPD, replacing 656

Pipe-thread connections 686

Pneumatics control module 498

Leak testing

gas plumbing 503

operation, with inlet 499

operation, with valve or other device 500

overview 498

Polarity

TCD 554

Post Run

LED 39

setting up 51

Post Sequence 228, 232

Power cord

Requirements 677

Power requirements

Cord 677

Maximum consumption 677

Oven type 677

Voltages 677

Pre Run

LED 39

Prep Run 283, 285

Auto 285

key 41, 285

Preparing capillary columns 121

Preparing packed metal columns 143

Pres correct 72

Pres key 43

Pressure

auxiliary channels 88

constant 74

Unabridged Index

- initial 76
- Normal 67
- problems 99
- program 79
- ramped 74
- selecting units 54
- sensor calibration 92
- solvent vent mode 406
- unit conversion 277
- Pressure regulators
 - Connecting to gas tubing 686
 - Pipe-thread connections 686
 - Recommendations 686
- Printers
 - Specifications 675
- Priority sequence 229
- Procedure
 - Adding events
 - Clock table 194
 - Run table 188
 - Auto Prep Run 285
 - Changing
 - Auxiliary channel frit 91
 - Changing makeup gas flow mode 511
 - Conditioning columns
 - Capillary columns 157
 - Packed columns 158
 - Preliminary steps 156
 - Configuring
 - bar code reader
 - 7683 211
 - Capillary column 71
 - Carrier gas 73
 - injector
 - 7683 210
 - Setpoint status table 49
 - Valves 219
 - Controlling valves from the keyboard 220
- Cool on-column
 - Changing cooling tower 352
 - Changing septum 352, 367
 - Changing septum nut 352
 - Checking needle/column size 354
 - Cleaning inlet 369
 - Correcting leaks 373
 - Installing fused silica needle 365
 - Installing inserts 353
 - Leak testing gas plumbing 371
 - Leak testing inlet 372
 - Manual injection with cooling tower 355
 - Manual injection with septum nut 355
 - Operating 360
 - Programming temperature 359
 - Replacing fused silica needle 363
- Creating
 - Column compensation profile 180
 - Sampler subsequence 230
 - Sequence 230
 - Valve subsequence 231
- Defining the makeup gas 511
- Deleting
 - Clock table events 195
 - Run table events 189
 - Stored method 204
 - Stored sequence 236
- Editing
 - Clock table events 194
 - injector setpoints
 - 7683 208
 - Run table events 189
 - sample tray setpoints
 - 7683 211
 - Stored method 203
 - Stored sequence 235
- FID
 - Changing autoreignite setpoint 518

Unabridged Index

- Cleaning collector 538
- Cleaning jet 532
- Installing jet 533
- Reassembling detector 539
- Removing and inspecting jet 529
- Removing collector 536
- Replacing ignition wire 541
- Using fast peaks 519
- Using with EPC 523
- Gas saver 284
- Installing capillary columns
 - Cool on-column inlet 125
 - ECD and μ -ECD 134
 - FID 129
 - FPD 137
 - NPD 129
 - Preparing the column 121
 - PTV inlet 129
 - Purged packed inlet 126
 - Split/splitless inlet 123
 - TCD 133
 - Volatiles Interface 129
- Installing packed columns
 - Detector adapters 147
 - Ferrules for metal columns 146
 - Glass columns 152
 - Making a spacer 144
 - Metal columns 148
- Loading
 - Default method 201
 - Default parameters 61
 - Stored method 200
 - Stored sequence 234
- μ -ECD
 - Checking for gas leaks 620
 - Operating 612
 - Thermal cleaning 622
- NonEPC inlets
 - Configuration 490
 - NonEPC purged packed
 - Setting carrier flow 492
 - NonEPC split/splitless
 - Setting split mode flows 493
 - Setting splitless mode flows 494
- NPD
 - Changing insulators and rings 590
 - Cleaning detector and collector 590
 - Cleaning jet 601
 - Reassembling detector 602
 - Removing and inspecting jet 599
 - Replacing bead assembly 585
 - Replacing jet 602
 - Setting data rate 572
 - Setting equilibration time 570
 - Using with EPC 577
- Pausing and resuming a sequence 238
- PCM
 - Leak testing gas plumbing 503
 - Using defined capillary columns 503
 - Using packed and undefined columns 502
- Plotting
 - Column compensation profile 182
- Programming
 - Clock table events 191, 192
 - Column flow 79
 - Column pressure 79
 - Isothermal oven 106
 - Multiple-ramp oven temperature 111
 - Run table events 187
 - Single-ramp oven temperature 110
- PTV
 - Changing septum 429
 - Cleaning septumless head 424
 - Correcting leaks 438
 - Installing columns 422
 - Pulsed split mode, column
 - defined 391

- Pulsed split mode, column not defined 392
- Pulsed splitless mode, column defined 402
- Pulsed splitless mode, column not defined 403
- Removing septum head 427
- Removing septumless head 423
- Replacing inlet adapters 421
- Replacing liners 431
- Replacing Teflon ferrule 426
- Solvent vent mode, column defined 411
- Solvent vent mode, column not defined 412
- Split mode, column defined 386
- Split mode, column not defined 387
- Splitless mode, column defined 399
- Splitless mode, column not defined 400
- PTV inlet
 - Leak testing gas plumbing 434
- Purged packed
 - Changing O-ring 337
 - Changing septum 334
 - Cleaning inlet 344
 - Correcting leaks 343
 - Installing glass inserts 329
 - Installing liners 327
 - Leak testing EPC inlet 339
 - Leak testing gas plumbing 339
 - Leak testing nonEPC inlet 341
 - Using defined capillary columns 332
 - Using packed columns 332
 - Using undefined capillary columns 332
- Selecting
 - Column mode 74
 - Fast peaks 175
- Setting 51
 - Average linear velocity 78
 - Initial flow 78
 - Initial pressure 78
 - Inlet parameters 82
 - Post Run events 51, 232
 - Time and date 51
- Setting up detector control tables 507
- Split/splitless
 - Changing liners 290
 - Changing O-ring 311
 - Changing septum 308
 - Cleaning inlet 323
 - Correcting leaks 322
 - Leak testing EPC inlet 318
 - Leak testing gas plumbing 317
 - Leak testing nonEPC inlet 320
 - Pulsed split mode 303
 - Pulsed splitless mode 305
 - Replacing base seal 314
 - Split mode, column defined 294
 - Split mode, column not defined 295
 - split vent trap cartridge,
 - replacing 316, 433, 472
 - Splitless mode, column defined 299
 - Splitless mode, column not defined 300
- Starting/running a sequence 237
- Stopping a sequence 238
- Storing
 - Method 199
 - Sequence 233
- TCD
 - Thermal cleaning 562
 - Using with EPC 558
- Using
 - Bubble flow meter 97
 - Column compensation 180
 - Stopwatch 51

Unabridged Index

- Volatiles interface
 - Configuring for direct injection 460
 - Connecting headspace sampler 479
 - Connecting purge and trap concentrator 483
 - Correcting leaks 477
 - Direct mode 462
 - Disconnecting split vent line 457
 - Installing columns 464
 - Leak testing gas plumbing 473
 - Leak testing system 474
 - Preparing for leak test 476
 - Replacing or cleaning interface 469
 - Split mode, column defined 447
 - Split mode, column not defined 447
 - Splitless mode 454
- Zeroing
 - Analog signal 172
 - Flow and pressure sensors 93
- Programming
 - Auxiliary temperature zone 215
 - clock time 191, 192
 - cool on-column inlet temperature 357
 - flow 79
 - oven temperature 107
 - pressure 79
 - run time 185, 187
- PTV inlet 377, 421
 - changing septum 429
 - configuration 381
 - cooling 381
 - Correcting leaks 438
 - cryo shutdown 383
 - heating 379
 - installing capillary columns 129
 - installing columns 422
 - large volume injection
 - ChemStation requirements 413
 - example 415
 - injector configuration 414
 - injector parameters 414
 - Leak points 438
 - Leak testing 434
 - Leak testing system 435
 - liners 430
 - maintenance 421
 - pulsed modes 389
 - pulsed split mode
 - column defined 391
 - column undefined 392
 - control table 390
 - pulsed splitless mode
 - column defined 402
 - column undefined 403
 - control table 401
 - replaceable parts 439
 - replacing adapters 421
 - replacing liners 431
 - sampling heads 378
 - septum head 427
 - removing 427
 - septumless head
 - cleaning 424
 - removing 423
 - solvent vent mode 404
 - column defined 411
 - column undefined 412
 - control table 409
 - large volume injection 413
 - order of operations 407
 - Start Run 409
 - temperature, pressure and flow 406
 - timelines 408
- split mode 384
 - column defined 386
 - column undefined 387
 - control table 386
- split modes
 - temperatures 385

Unabridged Index

- splitless mode 393
 - column defined 399
 - column undefined 400
 - control table 397
 - starting values 397
- system components 377
- system requirements 377
- temperature 396
- PTV inlet Teflon ferrule, replacing 426
- Pulsed modes
 - PTV inlet 389
- Pulsed split mode
 - PTV inlet
 - column defined 391
 - column undefined 392
- Pulsed splitless mode
 - PTV inlet
 - column defined 402
 - column undefined 403
 - control table 401
- Purge & trap concentrator
 - Volatiles Interface
 - connection 483
- Purged packed inlet 325
 - capillary columns 332
 - changing O-ring 337
 - changing septum 334
 - cleaning 344
 - column defined 332
 - column undefined 332
 - control table
 - column defined 331
 - correcting leaks 343
 - inserts 326
 - installing capillary columns 126
 - installing inserts 329
 - installing liners 327
 - leak testing
 - EPC 339
 - gas plumbing 339
 - nonEPC 341

- liners 326
- maintenance 333
- nonEPC 492
- packed column
 - control table 331
- packed columns 332

Q

- Quenching
 - FPD 627
- Quick cryo cool
 - oven setpoint 116

R

- Radix type 55
- Ramp # key 45
- Ramped flow 74
- Ramped pressure 74
- Range
 - analog output 173
- Rate
 - data 174
 - fast oven 109
 - LED 39
 - oven programming 108
- Reader
 - bar code 211
- Reference gas
 - TCD flow 553
- Regular oven
 - Power requirements 675
- Remote LED 39
- Remote start/stop
 - Cable 03396-61010 716
 - Cable 03396-61020 716
 - Cable 35900-60670 719
 - Cable 35900-60670, connections
 - identified 719
 - Cable G1530-60930 716
 - Communication port 714

Unabridged Index

- General use cable 35900-60670 (2 m) 716
- General use cable 35900-60920 (5 m) 716
- General use cable 35900-60930 (0.5 m) 716
- Replacing the bead 585
- Retention gap 357
- RS-232 717
- Run LED 39
- Run Log key 52
- Run Log LED 39
- Run Table key 60
- Run time
 - adding events 188
 - deleting events 189
 - editing events 189
 - maximum 108
 - programming 187
- Running a sequence 237
- S**
- Safety
 - ECD 608
- Sample Tray key 60
- Sampler connection
 - Volatiles Interface 478
- Sampling heads
 - PTV inlet 378
- Scrolling 36
- Selecting a column mode 74
- Self-test diagnostics 700
- Septum changing
 - cool on-column inlet 352, 366, 367
 - PTV inlet 429
 - purged packed inlet 334
 - split/splitless inlet 307, 308
- Septum head
 - PTV inlet 427
 - removing 427
- Septum nut
 - cool on-column inlet 350, 368, 370
 - changing 352
- Septum purge 286
 - nonEPC 94
- Septum tightening 289
- Septumless head
 - PTV inlet
 - cleaning 424
 - removing 423
- Seq Control key 60
- Seq key 60
- Sequence
 - aborting 239
 - control table 226, 236
 - creating 230
 - definition 226
 - control table 226
 - deleting 236
 - editing 235
 - integrator 240
 - loading 234
 - pausing & resuming 238
 - post 228
 - post sequence 232
 - priority 229
 - sampler subsequence
 - creating 230
 - starting & running 237
 - stopping 238
 - storing 233
 - subsequence
 - definition 229
 - valve subsequence
 - creating 231
- Setpoint
 - 7683
 - injector 208
 - sample tray 211
 - cool on-column inlet 358
 - oven programming 108
 - status table 49
- Setpoint value 37
- Setting

Unabridged Index

- Post Run 51
- time and date 51
- Shutdown
 - column 65
 - cryo 117, 383
 - hydrogen 65
 - oven 104
- Signal
 - analog 172
 - ChemStation 176
 - control table 168
 - conversion 169
 - output scaling 173
 - store digital 175
 - type 168
 - value 168
 - zeroing 172
- Signal n keys 42
- Single column compensation 178
- Site Preparation 669
- Solvent peak
 - NPD, turning hydrogen off 570
- Solvent vent mode
 - large volume injection
 - ChemStation requirements 413
 - PTV inlet
 - column defined 411
 - column undefined 412
 - control table 409
 - large volume injection 413
- Space requirements
 - GC 672
 - GC system configurations 672
- Spacer for packed metal columns 144
- Specifications
 - Analog-to-Digital Converter, 35900 675
 - ChemStation 675
 - Fast-heating oven 675
 - GC 675
 - Headspace Sampler, 7694 675
 - Integrator, 3395 and 3396 675
 - Mass Selective Detector, 5972A 675
 - Personal Computer 675
 - Regular oven 675
 - Vectra 675
- Split mode
 - PTV inlet 384
 - column defined 386
 - column undefined 387
 - split/splitless inlet 292
 - column defined 294
 - column undefined 295
 - Volatiles Interface 443
 - column defined 447
 - column undefined 447
 - parameters 446
- Split vent line
 - Volatiles Interface
 - disconnect 457
- Split vent trap filter cartridge, replacing
 - Split/splitless inlet 316, 433, 472
- Split/splitless inlet 289
 - changing O-ring 310, 311
 - changing septum 307, 308
 - cleaning 323
 - correcting leaks 322
 - installing capillary columns 123
 - leak testing 317
 - EPC 318
 - nonEPC 320
 - liners 290
 - maintenance 306
 - nonEPC 492
 - pressure 289
 - pulsed modes 301
 - pulsed split mode 303
 - control table 302
 - pulsed splitless mode 305
 - control table 304
 - replacing base seal 313, 314
 - septum tightening 289
 - split mode 292

Unabridged Index

- control table 293
- nonEPC 493
- Split vent trap cartridge,
 - replacing 316, 433, 472
- splitless mode 296
 - column defined 299
 - column undefined 300
 - control table 297
 - nonEPC 494
 - parameters 298
- Splitless mode
 - PTV inlet 393
 - column defined 399
 - column undefined 400
 - starting values 397
 - split/splitless inlet 296
 - column defined 299
 - column undefined 300
 - Volatiles Interface 449, 454
 - parameters 453
- Stainless steel tubing
 - Plumbing for cryo cooling 708
- Start Run
 - PTV inlet solvent vent mode 409
- Starting a sequence 237
- Status key 48
- Status table 48
- Stop key 41
- Stopping
 - sequence 238
- Stopwatch 51
- Store key 60
- Storing
 - method 199
 - sequence 233
- Strategy 28
- Stream selection valve 223
 - Communication with GC 716

- Subsequence
 - definition 229
 - sampler
 - creating 230
- Supplies
 - List 694
 - Obtaining 671
- SWAGELOK connection 704
- SWAGELOK fittings
 - Connecting to tubing 725
 - Leak checking 707
 - Tees, attaching 704
- System
 - Components specifications 675
- System configurations
 - Overview 674

T

- Teflon ferrule, PTV inlet
 - replacing 426
- Teflon tape 686
- Temp
 - key 43
 - oven programming 108
- Temperature
 - FPD 631
 - isothermal 106
 - μ -ECD 610
 - Normal 67
 - NPD 574
 - Operating ranges 671
 - oven maximum 105
 - programmed 107
 - PTV inlet 396
 - solvent vent mode 406
 - split modes 385
 - TCD 555
- Temperature programming
 - cool on-column inlet 357, 359
- Test plot 182
- The Automatic Sampler 205

Unabridged Index

- The Cool On-Column Inlet 346
 - The Flame Photometric Detector 625
 - The Micro-Cell Electron Capture Detector 603
 - The Nitrogen Phosphorus Detector 564
 - The Pneumatics Control Module 497
 - The Programmable Temperature Vaporization Inlet 375
 - The Purged Packed Inlet 324
 - The Split/Splitless Inlet 288
 - Thermal cleaning
 - μ-ECD 622
 - TCD 562
 - Thermal conductivity detector 549
 - Attaching gas plumbing 706
 - carrier gas 553
 - checkout chromatogram 561
 - checkout conditions 559
 - correcting problems 562
 - EPC 558
 - control table 557
 - flow and pressure 556
 - flow rates 555
 - Gas recommendations 680, 681
 - hydrogen analysis 554
 - installing capillary columns 133
 - maintenance 562
 - makeup gas 553
 - negative polarity 554
 - reference gas 553
 - temperatures 555
 - thermal cleaning 562
 - Time
 - key 50
 - setting 51
 - Timelines
 - PTV inlet solvent vent mode 408
 - Tools
 - List 694
 - Obtaining 671
 - Track oven mode
 - cool on-column inlet 357
 - Traps
 - Activated charcoal 687
 - conditioning 159
 - Connecting to gas tubing 703
 - Hydrocarbon trap 687
 - Moisture 687
 - Molecular sieve 687
 - Overview 687
 - Oxygen 687
 - Split Vent 672
 - Tubing 704
 - For gas supplies 685
 - Two-stage pressure regulators 686
- U**
- Units
 - pressure 54
 - Using hydrogen 274, 506
- V**
- Vacuum correct 72
 - Value
 - actual 37
 - setpoint 37
 - Valve
 - box 214
 - column selection 221
 - Communications with GC 716
 - configuration 218
 - control
 - keyboard 220
 - run or clock table 220
 - drivers 216
 - external drivers 217
 - gas sampling 221
 - heating 214
 - internal drivers 216
 - multiposition 223
 - stream selection 223
 - subsequence
-

Unabridged Index

- creating 231
 - temperature programming 215
 - Valve # key 60
 - Valve actuator air
 - Plumbing 711
 - Requirements 692
 - Vectra 675
 - Communication with GC 716
 - Communication with Headspace Sampler 717
 - Communication with Mass Selective Detector 717
 - Communication with modem 717
 - Specifications 675
 - Velocity
 - average linear 76
 - Venting requirements
 - Detectors 672
 - Oven 672
 - Oven exhaust reflector 672
 - Split/splitless inlet 672
 - Volatiles Interface 442
 - cleaning or replacing 469
 - connection to sampler 478
 - correcting leaks 477
 - direct mode 455, 462
 - configuration 460
 - control table 460
 - disconnect split vent line 457
 - parameters 462
 - installing columns 464
 - leak testing 474
 - gas plumbing 473
 - preparation 476
 - maintenance 463
 - overview 443
 - split mode 443
 - column defined 447
 - column undefined 447
 - control table 444
 - parameters 446
 - split vent line
 - disconnecting 457
 - splitless mode 449, 454
 - control table 450
 - parameters 453
 - with headspace sampler 479
 - with purge & trap concentrator 483
 - Voltage
 - Requirements by country 678
- ## W
- Warnings 31
 - Weight
 - GC 672
 - GC system components 672
 - Table of weights 675
 - Wipe test
 - μ-ECD 624
- ## Z
- Zero
 - analog 172
 - digital 175
 - flow and pressure sensors 92
 - signal output 172