

G1000™

*pilot's guide for Mooney
M20M & M20R*

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This manual reflects the operation of System Software version 0424.01. Some differences in operation may be observed when comparing the information in this manual to earlier or later software versions.

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FRONT MATTER		3 – PRIMARY FLIGHT DISPLAY	
Copyright	i	3.1 Introduction	3-1
Table of Contents	ii	3.2 Backlighting	3-5
List of Figures	ix	3.3 Softkey Function	3-7
List of Tables	xiii	3.4 Flight Instruments	3-11
Warnings and Cautions	xiv	Airspeed Indicator	3-11
Warranty	xvi	Speed Indication	3-11
		Speed Ranges	3-11
		Airspeed Trend Vector	3-11
		Vspeed References	3-11
		True Airspeed Box	3-11
		Attitude Indicator	3-12
		Pitch Indication	3-12
		Roll Indication	3-13
		Slip/Skid Indication	3-13
		Altimeter	3-14
		Altitude Values	3-14
		Altitude Reference Bug	3-14
		Altitude Trend Vector	3-14
		Altitude Reference Box	3-14
		Barometric Setting Box	3-14
		Altitude Alerting	3-15
		Metric Display	3-16
		Vertical Deviation/Glideslope Indicator	3-16
		Marker Beacon Annunciations	3-16
		Vertical Speed Indicator	3-17
		Vertical Speed Pointer	3-17
		Horizontal Situation Indicator	3-18
		360° HSI	3-18
		ARC HSI	3-19
		Heading Indication	3-19
		Turn Rate Indicator	3-20
		Course Deviation Indicator	3-20
		Bearing Pointers and Information Windows	3-21
		Navigation Source	3-22
1 – G1000 PILOT'S GUIDE INTRODUCTION			
Binder Contents	1-1		
Using the Binder	1-2		
Part Number Content	1-2		
Page Numbering Format	1-2		
<i>General</i>	1-2		
<i>Appendices</i>	1-2		
<i>Index</i>	1-2		
Section Numbering Format	1-2		
Figure/Table Numbering Format	1-3		
Table of Contents and List of Figures/Tables	1-3		
Index	1-3		
Storing the Binder	1-3		
2 – SYSTEM OVERVIEW			
2.1 System Description	2-1		
2.2 LRU Descriptions	2-1		
2.3 PFD/MFD Controls	2-5		
2.4 Secure Digital Cards	2-7		
2.5 System Power-up	2-8		
2.6 Display Backlighting	2-10		
2.7 G1000 Reversionary Mode	2-10		

3.5 Communication, Navigation & Surveillance 3-23

- Communication Frequency Window** 3-23
- Navigation Frequency Window** 3-23
- Navigation Status Bar** 3-24
- Transponder Status Bar** 3-25
 - Transponder Operation 3-25
 - Transponder Code Selection 3-25

3.6 Supplemental Flight Data 3-27

- Outside Air Temperature Box** 3-27
- System Time Box** 3-27
- Traffic Annunciation** 3-27
- Inset Map** 3-28
- Working with Menus** 3-31
- Auxiliary Window Keys** 3-31
- Auxiliary Windows** 3-32
 - Timer/References Window 3-32
 - Generic Timer* 3-32
 - Vspeeds and Vspeed Bug Status* 3-33
 - Nearest Airports Window 3-33
 - Direct-to Window 3-34
 - Direct-to Navigation* 3-34
 - Flight Plan Window 3-36
 - Create New Flight Plan* 3-37
 - Activate Leg* 3-37
 - Store Flight Plan* 3-37
 - Invert Flight Plan* 3-38
 - Delete Flight Plan* 3-38
 - Load Departure* 3-39
 - Load Arrival* 3-40
 - Load Approach* 3-40
 - Remove Departure* 3-41
 - Remove Arrival* 3-41
 - Remove Approach* 3-41
 - Closest Point of FPL* 3-41
 - Change Fields* 3-42
 - Restore Defaults* 3-42
 - Procedures Window 3-42
 - Select Approach* 3-43
 - Select Arrival* 3-44
 - Select Departure* 3-45
 - Activate Approach* 3-45
 - Activate Vector-To-Final* 3-45

3.7 Reversionary Mode 3-47

3.8 Alerts and Annunciations 3-49

- Alerts Window** 3-49
- Annunciation Window** 3-49

4 – VHF NAV/COM

4.1 Interface Introduction 4-1

- Overview** 4-1
- Windows and Fields** 4-2
- Radio Selection** 4-2
- Color Code** 4-3
- Tuning Box** 4-3
- Frequency Toggle Arrow** 4-3
- Radio Status Indications** 4-3
- Controls** 4-4

4.2 COM Frequency Window 4-5

- Overview** 4-5
- Volume** 4-5
- Automatic Squelch** 4-5
- Switching the Tuning Box Between COM Radios** 4-6
- Manually Tuning a COM Frequency** 4-6
- Toggleing COM Frequencies** 4-6
- Selecting a COM Radio** 4-6
- Radio Status** 4-7
- Emergency Frequency (121.500 MHz)** 4-7
 - Quickly Tuning and Activating 121.500 MHz 4-7
- Stuck Microphone** 4-7

4.3 NAV Frequency Window 4-9

- Overview** 4-9
- Volume** 4-9
- Morse Code Identifier** 4-9
- Switching the Tuning Box Between NAV Radios** 4-10
- Manually Tuning a NAV Frequency** 4-10
- Toggleing NAV Frequencies** 4-10
- Selecting a NAV Radio** 4-11

4.4 Frequency Auto-tuning 4-13

- Overview** 4-13
- Auto-tuning on the PFD** 4-13
- Auto-tuning on the MFD** 4-14

WPT – Airport Information Page	4-14
WPT – VOR Information Page	4-16
NRST – Nearest Airports Page	4-17
NRST – Nearest VOR Page	4-18
NRST – Nearest Frequencies Page	4-19

Auto-Tuning Upon Approach Activation (NAV Frequencies)	4-20
---	------

5 – TRANSPONDER

5.1 Interface Description	5-1
Transponder Softkeys	5-1
Transponder Status Bar	5-1
5.2 Operation	5-3
Mode Selection	5-3
Ground Mode (Automatic)	5-3
Standby Mode (Manual)	5-3
ON Mode (Manual)	5-3
Altitude Mode (Automatic or Manual)	5-4
Reply Status	5-4
Code Selection	5-4
Entering a Code	5-4
VFR Code	5-5
Important Codes	5-5
IDENT Function	5-5
5.3 Mode S Transponder Functionality	5-7
Traffic Information Service (TIS)	5-7

6A – AUDIO PANEL

6A.1 Introduction	6A-1
6A.2 Unit Description	6A-2
Front Panel Controls	6A-2
Microphones	6A-4
Mono/Stereo Headsets	6A-4
Unmuted/Unswitched Inputs	6A-4
6A.3 Unit Operation	6A-5
ON/OFF, Power-up Settings and Fail-safe Operation	6A-5
ON/OFF Operation	6A-5
Power-up Settings	6A-5
Fail-safe Mode	6A-5

Selecting and Deselecting Keys	6A-5
Selecting Keys	6A-5
Deselecting Keys	6A-5
Lighting	6A-5
Transceiver Keys	6A-6
Pressing a COM MIC Key	6A-6
Pressing a COM Key	6A-6
Keying a Microphone	6A-6
COM Swap	6A-7
Split COM	6A-7
Optional COM Muting	6A-7
COM Muting on Receive	6A-7
COM Muting on Transmit	6A-7
Telephone Interface	6A-8
PA Function	6A-8
Split COM and PA	6A-8
Speaker Output	6A-8
Marker Beacon Receiver	6A-9
Description and Operation	6A-9
Marker Beacon Signal Augmentation	6A-9
Aircraft Radio Inputs	6A-11
Auxiliary Entertainment Inputs	6A-11
MUSIC 1	6A-11
<i>MUSIC 1 Muting</i>	6A-11
MUSIC 2	6A-11
Intercom System (ICS) Isolation	6A-12
PILOT Mode	6A-12
COPILOT Mode	6A-12
CREW Mode	6A-12
ALL Mode	6A-12
Volume/Squelch Control	6A-15
Intercom VOL/SQ State	6A-15
<i>Intercom Volume Control</i>	6A-15
<i>Intercom Squelch Threshold Control</i>	6A-16
Volume Adjustments in Configuration Mode	6A-16
Master Avionics Squelch (MASQ)	6A-17
Digital Clearance Recorder with Playback Capability	6A-17
Reversionary Mode	6A-18
Interface to Cockpit Voice Recorder	6A-18
Dual Panel Operation	6A-18

6B – AUDIO PANEL SUPPLEMENT

Headset Jacks & Keyed ICS Operation	6B-1
Transceivers	6B-1
Aircraft Radios	6B-1
Aircraft Entertainment Inputs	6B-1
Cockpit Voice Recorder (CVR)	6B-1
Dual Panel Operation	6B-1

7 – ENGINE INDICATION SYSTEM

7.1 Engine	7-1
Manifold Pressure Gauge	7-1
Tachometer	7-1
Fuel Qty Indicator	7-1
Fuel Flow GPH Indicator (Normally Aspirated)	7-2
Fuel Pressure Indicator (Turbocharged)	7-2
Oil Pressure Indicator	7-2
Oil Temperature Indicator	7-2
EGT Indicator (Normally Aspirated)	7-2
TIT Indicator (Turbocharged)	7-2
CHT Indicator	7-2
Voltmeter	7-2
Ammeter	7-2
7.2 Lean	7-4
Cylinder Select	7-4
Lean Assist	7-4
<i>Normally Aspirated</i>	7-4
7.3 System	7-6
7.4 Flap & Trim Indications	7-8
Rudder Trim Position Indicator	7-8
Elevator Trim Position Indicator	7-8
Flap Position Indicator	7-8

8 – MULTI FUNCTION DISPLAY

8.1 Introduction	8-1
Description	8-1
Power-up	8-1
Power-up Page	8-2
Operations	8-2

Backlighting	8-2
MFD Softkeys	8-3
MFD Page Groups	8-5
Working with Menus	8-6

8.2 Navigation Map Page	8-7
Navigation Map Page Operations	8-9
Changing the Map Orientation	8-9
Clearing Lightning Data	8-9
Selecting a Map Range	8-9
Using the Auto Zoom Feature	8-9
Identifying Aviation Map Data	8-10
Decluttering the Map	8-11
Map Panning	8-12
Displaying Topographic Data on the Navigation Map Page	8-14
Displaying Terrain Data on the Navigation Map Page	8-15
Displaying Traffic on the Navigation Map Page	8-15
Displaying Lightning Data on the Navigation Map Page	8-16
Lightning Data Display Range	8-16
MFD Navigation Status Window	8-16
Navigation Map Page Menu	8-17
First Option: 'MAP SETUP'	8-17
Map Group	8-17
<i>Orientation</i>	8-17
<i>Auto Zoom</i>	8-18
<i>Land Data</i>	8-18
<i>Track Vector</i>	8-19
<i>Wind Vector</i>	8-19
<i>Nav Range Ring</i>	8-20
<i>Topo Data</i>	8-20
<i>Topo Range</i>	8-21
<i>Terrain Data</i>	8-21
<i>Obstacle Data</i>	8-22
<i>Fuel Range Ring (Fuel RNG) (RSV)</i>	8-22
Weather Group	8-23
Traffic Group	8-25
Aviation Group Options	8-28
Land Group Options	8-30
Second Option: 'MEASURE BEARING/DISTANCE'	8-32
Third Option: 'CLEARING LIGHTNING DATA'	8-33

8.3 Traffic Map Page	8-35	Remove Departure, Arrival, or Approach	8-61
TIS Symbology	8-36	Closest Point of Flight Plan	8-61
Traffic Map Page Operations	8-36	Change Fields	8-62
Power-up Test	8-36	Restore Defaults	8-62
Changing the Map Range	8-36	Shortcuts	8-62
Operating Mode	8-37	Flight Plan Catalog Page	8-63
TIS Audio Alert	8-37	Flight Plan Catalog Page Operations	8-63
TIS Traffic Status	8-38	Activate a Flight Plan	8-64
<i>Traffic Banner</i>	8-38	Stop Navigating a Flight Plan	8-64
8.4 Weather Map Page	8-39	Invert and Activate a Flight Plan	8-65
<i>Weather Display Information</i>	8-40	Copy a Flight Plan	8-65
<i>Weather Map Page Operations</i>	8-40	Delete a Flight Plan	8-66
8.5 Terrain Proximity Page	8-43	Delete All Flight Plans	8-67
Terrain Proximity Page Operations	8-44	Sort By Comment/Number	8-67
<i>Displaying Obstacle Data</i>	8-45	Point-n-Shoot Flight Plan Creation Feature	8-68
<i>Obstacle Shapes</i>	8-45	Vertical Navigation (VNAV) Page	8-69
<i>Navigation Map Display Conditions</i>	8-45	VNAV Page Menu Options	8-70
8.6 Direct-To Navigation	8-47	8.8 Procedures	8-71
Direct to Navigation Operations	8-48	Arrivals and Departures	8-71
Selecting a Direct-to Waypoint	8-48	Approaches	8-72
<i>Selecting a Direct-to Destination by</i>		G1000 Navigational Guidance for Approaches	8-72
<i>Facility or City Name</i>	8-48	Selecting Approaches	8-73
<i>Selecting a Direct-to Destination from the</i>		GPS Approach Examples	8-75
<i>Active Flight Plan</i>	8-49	No Procedure Turn	8-75
<i>Selecting a Nearest Airport as a Direct-to</i>		Flying the Missed Approach	8-77
<i>Destination</i>	8-50	Flying the Procedure Turn	8-79
<i>Shortcuts</i>	8-50	Flying the DME ARC	8-81
Canceling Direct-to Navigation	8-51	Vectors to the DME ARC	8-83
Specifying a Course to a Waypoint	8-51	Flying a Holding Pattern	8-84
8.7 Flight Plans	8-53	Flying a Course from Fix to Distance, or Course	
Active Flight Plan Page	8-53	from Fix to DME Distance	8-86
Active Flight Plan Page Operations	8-54	Flying a Course from Fix to Altitude	8-88
Create a New Flight Plan	8-54	Flying a Course from Fix to Manual Sequence	8-90
Activate Leg	8-55	Flying the ILS Approach	8-92
Store Flight Plan	8-56	Flying the Vectors Approach	8-95
Invert Flight Plan	8-57	8.9 Waypoint Page Group	8-97
Delete a Waypoint	8-57	Page Selection	8-97
Load Departure	8-58	Airport Information Page (INFO)	8-98
Load Arrival	8-59	Airport Information Page Operations	8-98
Load Approach	8-60	Airport Runway Information Field	8-100
		Airport Frequency Information Field	8-101
		Airport Frequency Descriptions	8-102

Airport Information Page Options	8-102	MFD Data Bar Fields	8-147
Departure Information Page (DP)	8-103	GPS CDI	8-148
Arrival Information Page (STAR)	8-104	COM Configuration	8-148
Approach Information Page (APR)	8-106	Nearest APT	8-149
Intersection Information Page	8-108	System Status Page	8-150
Intersection Information Page Operations	8-109		
NDB Information Page	8-110	8.11 Nearest Page Group	8-151
NDB Information Page Operations	8-111	Navigating to a Nearest Waypoint	8-152
NDB Information Page Options	8-112	Nearest Airports Page	8-154
VOR Information Page	8-113	Nearest Intersections Page	8-157
VOR Information Page Operations	8-114	Nearest NDB Page	8-159
VOR Information Page Options	8-115	Nearest VOR Page	8-161
User Waypoint Information Page	8-116	Nearest User Waypoint Page	8-163
User Waypoint Information Page Operations	8-117	Nearest Frequencies Page	8-165
Creating User Waypoints	8-118	Nearest Airspaces Page	8-167
Creating User Waypoints from the		Airspace Alerts Box	8-168
Navigation Map Page	8-119	Airspaces	8-169
Modifying User Waypoints	8-120		
User Waypoint Information Page Options	8-121		
8.10 Auxiliary Page Group	8-125		
Trip Planning Page	8-126		
Trip Planning	8-127		
Fuel Planning	8-128		
Other Statistics	8-129		
Utility Page	8-130		
Trip Statistics	8-132		
Scheduler	8-132		
GPS Status Page	8-133		
Satellite Status Page	8-134		
RAIM Prediction	8-136		
GPS Signal Strength	8-138		
System Setup Page	8-139		
Pilot Profiles	8-140		
<i>Selecting the Active Profile</i>	8-140		
<i>Creating a Profile</i>	8-140		
<i>Deleting a Profile</i>	8-141		
<i>Renaming a Profile</i>	8-141		
Date/Time	8-142		
Display Units	8-142		
Map Datums	8-143		
Airspace Alerts	8-144		
Arrival Alerts	8-146		
Audio Alerts	8-147		
		9 – ANNUNCIATIONS AND ALERTS	
		9.1 Introduction	9-1
		Alert Levels	9-2
		9.2 Mooney Aircraft Alerts	9-3
		Audio Alerts	9-3
		Voice Alerts	9-3
		9.3 G1000 System Annunciations	9-5
		9.4 G1000 System Message Advisories	9-9
		MFD & PFD Message Advisories	9-9
		Database Message Advisories	9-10
		GMA 1347 Message Advisories	9-10
		GIA 63 Message Advisories	9-11
		GEA 71 Message Advisories	9-13
		GTX 33 Message Advisories	9-13
		GRS 77 Message Advisories	9-14
		GMU 44 Message Advisories	9-14
		GDC 74A Message Advisories	9-15
		Miscellaneous Message Advisories	9-15

APPENDICES

Appendix A: SD Card Use	A-1
Aviation Database	A-1
Terrain Database	A-1
Appendix B: Abbreviations, Acronyms & NAV Terms	B-1
Appendix C: Questions & Answers	C-1
Appendix D: G1000 Map Datums	D-1
Appendix E: General TIS Information	E-1
Introduction	E-1
TIS vs. TCAS	E-1
TIS Limitations	E-1
Appendix F: Map Symbols	F-1
Airport	F-1
NAVAIDS	F-1
Basemap	F-1
Traffic	F-2
Lightning Strike	F-2
Miscellaneous	F-2
Line Symbols	F-3
Obstacle database	F-4
Terrain Color Chart	F-4
Appendix G: G1000 System Specifications	G-1
GDU 1040 MFD & PFD	G-1
GMA 1347 Audio Panel	G-1
GIA 63 Integrated Avionics Units	G-1
GDC 74A Air Data Computer	G-2
GTX 33 Mode S Transponder	G-2
GEA 71 Engine/Airframe Unit	G-2
GRS 77 AHRS	G-2

INDEX

Index	I-1
--------------	-----

Figure 2.2.1	G1000 System Block Diagram	2-4	Figure 3.5.3	Navigation Status Bars.....	3-24
Figure 2.3.1	PFD/MFD Controls.....	2-5	Figure 3.5.4	Navigation Status Bar Message.....	3-24
Figure 2.5.1	PFD Initialization.....	2-8	Figure 3.5.5	Transponder Status Bar	3-25
Figure 2.5.2	MFD Power-up Page.....	2-9	Figure 3.6.1	Outside Air Temperature Box	3-27
Figure 2.7.1	G1000 Normal Mode	2-11	Figure 3.6.2	System Time Box	3-27
Figure 2.7.2	G1000 Reversionary Mode: Failed PFD.....	2-11	Figure 3.6.3	Traffic Annunciation.....	3-27
Figure 3.1.1	Default PFD Information	3-2	Figure 3.6.4	Inset Map	3-28
Figure 3.1.2	Additional PFD Information	3-3	Figure 3.6.5	Page Menu – No Options With NRST Window Displayed.....	3-31
Figure 3.2.1	PFD Setup Menu Window	3-5	Figure 3.6.6	Page Menu – Options With FPL Window Displayed.....	3-31
Figure 3.3.1	Softkey On.....	3-7	Figure 3.6.7	Timer Status Prompts	3-32
Figure 3.3.2	Softkey Off	3-7	Figure 3.6.8	Timer/References Window.....	3-33
Figure 3.3.3	PFD Softkey Flow Chart – 1	3-9	Figure 3.6.9	Nearest Airports Window	3-33
Figure 3.3.4	PFD Softkey Flow Chart – 2	3-9	Figure 3.6.10	Airport Information Window.....	3-34
Figure 3.3.5	PFD Softkey Flow Chart – 3	3-10	Figure 3.6.11	Direct-to Window	3-35
Figure 3.4.1	Airspeed Indicator	3-11	Figure 3.6.12	Cancel Direct-to NAV	3-36
Figure 3.4.2	Red Pointer at Vne.....	3-11	Figure 3.6.13	Flight Plan Window	3-36
Figure 3.4.3	Attitude Indicator	3-12	Figure 3.6.14	Activate Leg Confirmation Window.....	3-37
Figure 3.4.4	Attitude Indicator Nose High.....	3-13	Figure 3.6.15	Page Options Menu.....	3-37
Figure 3.4.5	Attitude Indicator Nose Low.....	3-13	Figure 3.6.16	Invert Flight Plan Confirmation Window.....	3-38
Figure 3.4.6	Altimeter	3-14	Figure 3.6.17	Delete Flight Plan Confirmation Window.....	3-38
Figure 3.4.7	Colors Associated with the Altitude Alerter	3-15	Figure 3.6.18	Departure	3-39
Figure 3.4.8	Altimeter within 1,000 ft of Reference Altitude	3-15	Figure 3.6.19	Departure Runway.....	3-39
Figure 3.4.9	Altimeter within 200 ft of Reference Altitude.....	3-15	Figure 3.6.20	Departure Transition	3-39
Figure 3.4.10	Altimeter (Metric)	3-16	Figure 3.6.21	Select Departure Window	3-39
Figure 3.4.11	Marker Beacon and Vertical Deviation	3-16	Figure 3.6.22	Closest Point of FPL Window	3-41
Figure 3.4.12	Vertical Speed Indicator	3-17	Figure 3.6.23	Change Fields on Flight Plan	3-42
Figure 3.4.13	Horizontal Situation Indicator.....	3-18	Figure 3.6.24	Procedures Window.....	3-42
Figure 3.4.14	ARC HSI.....	3-19	Figure 3.6.25	Approach	3-43
Figure 3.4.15	Selected Heading Box.....	3-19	Figure 3.6.26	Approach Transition	3-43
Figure 3.4.16	Selected Course Box.....	3-19	Figure 3.6.27	Select Approach Window	3-43
Figure 3.4.17	Turn Rate Indicator and Trend Vector	3-20	Figure 3.6.28	Arrival.....	3-44
Figure 3.4.18	Arc CDI and Compass Rose CDI	3-20	Figure 3.6.29	Arrival Transition	3-44
Figure 3.4.19	HSI with Bearing Information	3-21	Figure 3.6.30	Arrival Runway.....	3-44
Figure 3.4.20	BRG1 Information Window.....	3-21	Figure 3.6.31	Select Arrival Window.....	3-44
Figure 3.4.21	BRG2 Information Window.....	3-21	Figure 3.7.1	PFD Reversionary Mode	3-47
Figure 3.4.22	GPS INTEG, GPS SUSP, NAV1 and NAV2.....	3-22	Figure 3.8.1	Alerts Window	3-49
Figure 3.5.1	Communication Frequency Window.....	3-23	Figure 3.8.2	Annunciation Window.....	3-49
Figure 3.5.2	Navigation Frequency Window	3-23			

LIST OF FIGURES

Figure 4.1.1	G1000 VHF NAV/COM Interface (PFD)	4-1	Figure 5.2.6	Entering a Code.....	5-4
Figure 4.1.2	Frequency Fields	4-2	Figure 5.2.7	IDENT Indication.....	5-5
Figure 4.1.3	Frequency Toggle Arrow and Tuning Box	4-3	Figure 6A.2.1	Front Panel Controls.....	6A-3
Figure 4.1.4	NAV/COM Controls	4-4	Figure 6A.3.1	Transceivers.....	6A-6
Figure 4.2.1	COM Volume Level	4-5	Figure 6A.3.2	Split COM, PA and Speaker.....	6A-8
Figure 4.2.2	Overriding Automatic Squelch	4-5	Figure 6A.3.3	Marker Beacon.....	6A-9
Figure 4.2.3	Switching COM Radios.....	4-6	Figure 6A.3.4	Marker Beacon Signal Indicator Lights on the PFD	6A-10
Figure 4.2.4	Toggling COM Frequencies	4-6	Figure 6A.3.5	Aircraft Radios	6A-11
Figure 4.2.5	Selecting a COM Radio	4-6	Figure 6A.3.6	ICS Isolation.....	6A-12
Figure 4.2.6	Radio Status Indications.....	4-7	Figure 6A.3.7	Volume/Squelch Control.....	6A-15
Figure 4.2.7	COM Tuning Failure	4-7	Figure 6A.3.8	Playback.....	6A-17
Figure 4.2.8	Quickly Tuning 121.500 MHz	4-7	Figure 6A.3.9	Reversionary Mode.....	6A-18
Figure 4.2.9	Stuck COM Microphone Alert.....	4-7	Figure 6B.1.1	G1000 Audio Panel (GMA 1347)	6B-1
Figure 4.3.1	NAV Volume Level	4-9	Figure 7.1.1	ENGINE Page (Normally Aspirated)	7-3
Figure 4.3.2	ID Indication	4-9	Figure 7.1.2	ENGINE Page (Turbocharged)	7-3
Figure 4.3.3	Morse Code Identifier Audio.....	4-9	Figure 7.2.1	LEAN Page (Normally Aspirated)	7-5
Figure 4.3.4	Switching NAV Radios.....	4-10	Figure 7.2.2	LEAN Page (Turbocharged)	7-5
Figure 4.3.5	Toggling NAV Frequencies	4-10	Figure 7.3.1	SYSTEM Page (Normally Aspirated)	7-7
Figure 4.3.6	Selecting a NAV Radio	4-11	Figure 7.3.2	SYSTEM Page (Turbocharged).....	7-7
Figure 4.4.1	Loading Frequencies.....	4-13	Figure 7.4.1	Rudder Trim	7-8
Figure 4.4.2	Nearest Airports Window (PFD).....	4-13	Figure 7.4.2	Elevator Trim	7-8
Figure 4.4.3	MFD Page Group Icon.....	4-14	Figure 7.4.3	Flaps – Up.....	7-8
Figure 4.4.4	WPT – Airport Information Page (INFO).....	4-14	Figure 7.4.4	Flaps – Takeoff.....	7-8
Figure 4.4.5	WPT – Airport Information Page (APR)	4-15	Figure 7.4.5	Flaps – Down.....	7-8
Figure 4.4.6	WPT – VOR Information Page.....	4-16	Figure 7.4.6	Flaps – In Transit.....	7-8
Figure 4.4.7	NRST – Nearest Airport Page.....	4-17	Figure 8.1.1	MFD Start-Up Page.....	8-1
Figure 4.4.8	NRST – Nearest VOR Page	4-18	Figure 8.1.2	MFD Softkeys	8-4
Figure 4.4.9	NRST – Nearest Frequencies Page.....	4-19	Figure 8.1.3	Page Group Window	8-5
Figure 4.4.10	Selecting an Approach	4-20	Figure 8.1.4	Page Title Window	8-5
Figure 4.4.11	Loading an Approach	4-20	Figure 8.1.5	Menu with Options.....	8-6
Figure 4.4.12	Activating an Approach.....	4-21	Figure 8.1.6	Menu with No Options.....	8-6
Figure 5.1.1	Top-level Softkeys.....	5-1	Figure 8.2.1	Navigation Map Page.....	8-7
Figure 5.1.2	Mode Selection Softkeys	5-1	Figure 8.2.2	Navigation Map Range	8-9
Figure 5.1.3	Code Selection Softkeys	5-1	Figure 8.2.3	Navigation Map Panning	8-13
Figure 5.2.1	Ground Mode	5-3	Figure 8.2.4	Topography Scale	8-14
Figure 5.2.2	Standby Mode.....	5-3	Figure 8.2.5	TRAFFIC, TOPO TERRAIN, and LTNG Softkeys ..	8-15
Figure 5.2.3	ON Mode	5-3	Figure 8.2.6	MFD Navigation Status Window	8-16
Figure 5.2.4	Altitude Mode.....	5-4	Figure 8.2.7	Navigation Map Page Menu Options	8-17
Figure 5.2.5	Reply Indication	5-4			

Figure 8.2.8	Weather Group.....	8-23	Figure 8.8.2	Selecting an Approach Procedure.....	8-73
Figure 8.2.9	Traffic Group Options	8-25	Figure 8.8.3	Selecting an Approach Transition.....	8-73
Figure 8.2.10	Aviation Group Options	8-28	Figure 8.8.4	Activating an Approach Procedure	8-74
Figure 8.2.11	Land Group Options.....	8-30	Figure 8.8.5	Approach with No Procedure Turn.....	8-76
Figure 8.2.12	Measuring Bearing and Distance	8-32	Figure 8.8.6	Flying the Missed Approach.....	8-78
Figure 8.3.1	Traffic Map Page.....	8-35	Figure 8.8.7	Flying the Procedure Turn.....	8-80
Figure 8.4.1	Weather Map Page	8-39	Figure 8.8.8	Flying the DME Arc and Vectors to the DME Arc.....	8-82
Figure 8.4.2	ARC View	8-40	Figure 8.8.9	Flying a Holding Pattern.....	8-85
Figure 8.4.3	Weather Map Page Menu	8-41	Figure 8.8.10	Course from Fix to Distance or Course from Fix to DME Distance	8-87
Figure 8.5.1	Terrain Proximity Page.....	8-43	Figure 8.8.11	Flying a Course from Fix to Altitude	8-89
Figure 8.5.2	Terrain Scale.....	8-44	Figure 8.8.12	Flying a Course from Fix to Manual Sequence	8-91
Figure 8.6.1	Direct-to Page.....	8-47	Figure 8.8.13	Flying the ILS Approach.....	8-94
Figure 8.6.2	Flight Plan Waypoint Direct-to.....	8-49	Figure 8.8.14	Flying the Vectors Approach.....	8-96
Figure 8.6.3	Nearest Airport Direct-to.....	8-50	Figure 8.9.1	Airport Information Page	8-97
Figure 8.6.4	Canceling Direct-to Navigation	8-51	Figure 8.9.2	Waypoint Facility or City Location	8-99
Figure 8.6.5	Manual Course Direct-to.....	8-51	Figure 8.9.3	Runway Information Field.....	8-100
Figure 8.7.1	Active Flight Plan Page.....	8-54	Figure 8.9.4	Frequency Information Field.....	8-101
Figure 8.7.2	New Flight Plan	8-54	Figure 8.9.5	Airport Information Page Menu.....	8-102
Figure 8.7.3	Activate Flight Plan Leg Confirmation.....	8-55	Figure 8.9.6	Departure Page Menu	8-103
Figure 8.7.4	Store Flight Plan Confirmation	8-56	Figure 8.9.7	Arrival Page Menu.....	8-104
Figure 8.7.5	Invert Flight Plan	8-57	Figure 8.9.8	Approach Page Menu.....	8-107
Figure 8.7.6	Invert Flight Plan Confirmation.....	8-57	Figure 8.9.9	Intersection Information Page.....	8-108
Figure 8.7.7	Remove Waypoint Confirmation.....	8-57	Figure 8.9.10	NDB Information Page	8-110
Figure 8.7.8	Loading Departure Options.....	8-58	Figure 8.9.11	NDB Page Menu	8-112
Figure 8.7.9	Selecting an Arrival.....	8-59	Figure 8.9.12	VOR Information Page.....	8-113
Figure 8.7.10	Flight Plan with Loaded Approach	8-60	Figure 8.9.13	VOR Page Menu	8-115
Figure 8.7.11	Removing an Approach	8-61	Figure 8.9.14	User WPT Information Page.....	8-116
Figure 8.7.12	Flight Plan Catalog Page.....	8-63	Figure 8.9.15	User WPT Page Menu.....	8-121
Figure 8.7.13	Flight Plan Catalog Page Options.....	8-63	Figure 8.10.1	Trip Planning Page.....	8-126
Figure 8.7.14	Activate Stored Flight Plan Confirmation.....	8-64	Figure 8.10.2	Trip Planning Page Menu	8-126
Figure 8.7.15	Delete Flight Plan Confirmation	8-64	Figure 8.10.3	Utility Page.....	8-130
Figure 8.7.16	Vertical Navigation (VNAV) Page.....	8-69	Figure 8.10.4	Utility Page Menu	8-130
Figure 8.7.17	Approaching VNAV Profile Message (PFD).....	8-70	Figure 8.10.5	GPS Status Page	8-133
Figure 8.7.18	Approaching Target Altitude Message (PFD).....	8-70	Figure 8.10.6	GPS Status Page Menu.....	8-133
Figure 8.7.19	VNAV Page Options Menu.....	8-70	Figure 8.10.7	RAIM	8-137
Figure 8.8.1	Procedures Page	8-71	Figure 8.10.8	GPS Signal Strength	8-138

LIST OF FIGURES

Figure 8.10.9	System Setup Page	8-139
Figure 8.10.10	System Status Page	8-150
Figure 8.10.11	System Status Page Menu.....	8-150
Figure 8.11.1	Nearest Airports Page.....	8-152
Figure 8.11.2	Direct-to from Nearest Airports Page	8-153
Figure 8.11.3	APT, RNWY, FREQ, and APR Softkeys.....	8-154
Figure 8.11.4	LD APR Softkey	8-155
Figure 8.11.5	Nearest Approach	8-156
Figure 8.11.6	Nearest Intersections Page	8-157
Figure 8.11.7	Nearest NDB Page	8-159
Figure 8.11.8	Nearest VOR Page	8-161
Figure 8.11.9	Nearest User Waypoints Page.....	8-163
Figure 8.11.10	Nearest Frequencies Page	8-165
Figure 8.11.11	Nearest Airspaces Page	8-167
Figure 9.1.1	G1000 Alerting System	9-1
Figure 9.1.2	ADVISORY Softkey Annunciation	9-2
Figure 9.4.1	G1000 System Failure Annunciations.....	9-7
Figure F.1	Terrain Color Chart.....	F-4

Table 6A.3.1	Marker Beacon Signal Characteristics.....	6A-10
Table 6A.3.2	ICS Isolation Mode Transitions	6A-12
Table 6A.3.3	ICS Operation Modes	6A-13
Table 6A.3.4	ICS Isolation Modes & Telephone Distribution.....	6A-14
Table 6A.3.5	Transitioning from Auto to Manual Squelch Mode	6A-15
Table 8.2.1	Map Declutter Levels.....	8-11



WARNING: Navigation and terrain separation must **NOT** be predicated upon the use of the terrain function. The G1000 Terrain Proximity feature is **NOT** intended to be used as a primary reference for terrain avoidance and does not relieve the pilot from the responsibility of being aware of surroundings during flight. The Terrain Proximity feature is only to be used as an aid for terrain avoidance and is not certified for use in applications requiring a certified terrain awareness system. Terrain data is obtained from third party sources. Garmin is not able to independently verify the accuracy of the terrain data.



WARNING: The displayed minimum safe altitudes (MSAs) are only advisory in nature and should not be relied upon as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate minimum clearance altitudes.



WARNING: The Garmin G1000, as installed in Mooney aircraft, has a very high degree of functional integrity. However, the pilot must recognize that providing monitoring and/or self-test capability for all conceivable system failures is not practical. Although unlikely, it may be possible for erroneous operation to occur without a fault indication shown by the G1000. It is thus the responsibility of the pilot to detect such an occurrence by means of cross-checking with all redundant or correlated information available in the cockpit.



WARNING: For safety reasons, G1000 operational procedures must be learned on the ground.



WARNING: The altitude calculated by G1000 GPS receivers is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters, such as the GDC 74A Air Data Computer, or other altimeters in aircraft. GPS altitude should never be used for vertical navigation. Always use pressure altitude displayed by the G1000 PFD or other pressure altimeters in aircraft.



WARNING: The Jeppesen database used in the G1000 system must be updated regularly in order to ensure that its information remains current. Updates are released every 28 days. A database information packet is included in the G1000 package. **Pilots using an outdated database do so entirely at their own risk.**



WARNING: The basemap (land and water data) must not be used for navigation, but rather only for non-navigational situational awareness. Any basemap indication should be compared with other navigation sources.



CAUTION: The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment. Portions of the Garmin G1000 utilize GPS as a precision electronic NAVigation AID (NAVAID). Therefore, as with all NAVAIDs, information presented by the G1000 can be misused or misinterpreted and, therefore, become unsafe.



CAUTION: To reduce the risk of unsafe operation, carefully review and understand all aspects of the G1000 Pilot's Guide documentation and the G1000 Flight Manual Supplement. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the G1000 to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety purposes, always resolve any discrepancies before continuing navigation.



CAUTION: The Garmin G1000 does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could void both the warranty and the pilot's authority to operate this device under FAA/FCC regulations.



CAUTION: The GDU 1040 PFD and MFD displays use a lens coated with a special anti-reflective coating that is very sensitive to skin oils, waxes, and abrasive cleaners. **CLEANERS CONTAINING AMMONIA WILL HARM THE ANTI-REFLECTIVE COATING.** It is very important to clean the lens using a clean, lint-free cloth and an eyeglass lens cleaner that is specified as safe for anti-reflective coatings.



CAUTION: All visual depictions contained within this document, including screen images of the G1000 panel and displays, are subject to change and may not reflect the most current G1000 system. Depictions of equipment may differ slightly from the actual equipment.



CAUTION: The illustrations in this guide are only examples. Never use the G1000 to attempt to penetrate a thunderstorm. Both the FAA Advisory Circular, Subject: Thunderstorms, and the Airman's Information Manual (AIM) recommend avoiding "by at least 20 miles any thunderstorm identified as severe or giving an intense radar echo."



CAUTION: There are several atmospheric phenomena in addition to nearby thunderstorms that can cause isolated discharge points in the strike display mode. However, clusters of two or more discharge points in the strike display mode do indicate thunderstorm activity if these points reappear after the screen has been cleared. Avoid the clusters to avoid the thunderstorms. In the cell display mode, even a single discharge point may represent thunderstorm activity and should therefore be avoided.



WARNING: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

LIMITED WARRANTY

This Garmin product is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, Garmin will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts and labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alterations or repairs.

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To obtain warranty service, contact your local Garmin Authorized Service Center. For assistance in locating a Service Center near you, visit the Garmin Web site at "<http://www.garmin.com>" or contact Garmin Customer Service at 800-800-1020.

G1000[™]

*pilot's guide index
for Mooney M20M & M20R*

360 HSI 3-18

A

Accomplishing a holding pattern 8-84
 Acquisition squitter 5-3, 5-7
 Activate approach 3-45
 Activate a flight plan 8-55, 8-64
 Active 4-5, 4-9
 Active field 4-2, 4-3, 4-6, 4-10, 4-13, 4-21
 Active flight plan 8-28, 8-49
 Active Flight Plan Page 8-53
 Active Flight Plan Page options 8-54
 Active frequency 4-2, 4-3, 4-7
 ADF 6B-1
 Advisory 3-49
 AHRS 2-2
 Air-initiated long replies 5-7
 Airborne 5-4
 Airborne status determination 5-7
 Aircraft alerts 9-3
 Airport frequencies 8-102
 Airport frequency 8-155
 Airport frequency information field 8-101
 Airport information 4-14, 4-15
 Airport Information Page 8-97
 Airport Information window 3-34
 Airport runway information field 8-100
 Airport symbols 8-10
 Airspace 8-10
 Airspace alerts box 8-168
 Airspace boundaries 8-28
 Airspace messages 8-169
 Airspeed indicator 3-11
 Airspeed trend vector 3-11
 Air Data Computer 2-1, 2-2
 Alerting system 9-1
 Alerts 9-1
 Alerts window 3-49
 Altimeter 3-14
 Altitude alerter 3-15

Altitude band 3-15
 Altitude buffer 8-145
 Altitude mode 5-3, 5-4
 Altitude reference box 3-14
 Altitude reference bug 3-14
 Altitude reporting 5-7
 Altitude trend vector 3-14
 ALT indication 5-4
 ALT mode 3-25
 ALT softkey 5-3, 5-4
 Ammeter 7-2
 Annunciation window 3-49
 Annunciator lights 4-9, 6A-5
 Approach C-1, C-2, C-3, C-4
 Approaches 8-72
 Approach activation 4-13, 4-14, 4-20
 Approach Information Page 8-103
 Approach markers 6A-9
 Inner 6A-9, 6A-15, 6A-16
 Lamp color 6A-10
 Middle 6A-9
 Outer 6A-9, 6A-15, 6A-16
 Signal augmentation 6A-9
 Approach Page menu 8-107
 APR softkey 4-15, 8-106
 ARC HSI 3-18
 ARINC 429 2-2
 ARINC leg types 8-72
 Arrivals and departures 8-71
 Arrival alerts 8-146, 8-147
 Arrival Information Page 8-103
 Arrival Page menu 8-104
 ARTCC 4-19, 8-165
 ARTCC softkey 4-19
 ASSIST 7-4
 ATC 5-5, 5-7
 ATC vectors 8-81
 Attitude 2-1, 2-2
 Attitude indicator 3-12
 Audio alerts 8-147, 9-3
 Audio panel 4-3, 4-6, 4-9

Audio panel controls:

ADF 6A-7, 6A-8, 6A-11
 AUX 6A-7, 6A-8, 6A-11
 COM1 6A-4, 6A-5, 6A-6, 6A-7, 6A-8
 COM1 MIC 6A-2, 6A-4
 COM2 6A-4, 6A-5, 6A-6, 6A-7, 6A-8
 COM2 MIC 6A-2, 6A-4
 COM3 6A-4, 6A-6, 6A-7, 6A-8
 COM3 MIC 6A-2, 6A-4
 COM 1/2 6A-4, 6A-6, 6A-7, 6A-8
 COPLT 6A-12
 DME 6A-7, 6A-8, 6A-11
 NAV1 6A-5, 6A-7, 6A-8, 6A-11
 NAV2 6A-5, 6A-7, 6A-8, 6A-11
 SPKR 6A-5, 6A-8, 6A-11
 SQ 6A-5, 6A-15, 6A-16
 TEL 6A-6
 VOL 6A-15, 6A-16
 Auto-tuning 4-13, 4-14, 4-20
 Automated airborne determination 3-25
 Automatic 5-3, 5-4
 Automatic sequencing C-2, C-3
 Automatic squelch 4-4, 4-5
 Auto zoom 8-9, 8-18
 AUX 6B-1
 Auxiliary Page group 8-125
 Auxiliary windows 3-32
 AUX Page group 4-5
 Aviation database updates A-1
 Aviation Group options 8-28
 Aviation map data 8-10
 Avionics master switch 6A-5

B

Backlighting 3-5
 Backup 6A-18
 BACK softkey 5-1
 Barometric setting box 3-14
 Bearing pointers 3-21
 BKSP softkey 5-4
 BRG1 3-21
 BRG2 3-21

C

Caution xiv, xv, 3-49
 CDI scale 8-148, C-3
 CDI scaling 8-74
 CDI softkey 4-11
 Change fields 3-42, 8-62
 Changing the map scale 8-36
 Channel status indications 4-1
 City 3-35
 Closest point of flight plan 3-41, 8-61
 Cockpit voice recorder 6A-18, 6B-1
 Code field 5-1, 5-4, 5-5
 Code selection 5-4
 Code selection softkeys 5-1, 5-4
 CODE softkey 5-1, 5-4
 Color 4-1, 4-3, 4-5, 4-9
 Cyan 4-3
 Gray 4-3
 Green 4-3, 4-6, 4-11
 Magenta 4-11
 White 4-3, 4-7, 4-11
 Color code 4-1, 4-9
 COM1 4-2, 4-5, 4-6
 COM1 MIC 4-2, 4-6
 COM2 4-2, 4-5, 4-6
 COM2 MIC 4-2, 4-6
 COM3 6B-1
 COM3 MIC 6B-1
 Communication frequency
 window 3-23, 4-1
 COM channel spacing 8-149
 COM configuration 8-148
 COM knob 4-3, 4-4, 4-5, 4-6, 4-10
 COM swap 6A-7
 Configuration mode 6A-8, 6A-9, 6A-11, 6A-16, 6A-17
 Controls 2-5, 4-1, 4-4
 Copyright i
 Copy a flight plan 8-65
 Course from fix to an altitude 8-86
 Course from fix to distance 8-86
 Course from fix to DME distance 8-86

Course from fix to manual
 termination 8-86
 Course pointer 3-18
 Create a new flight plan 3-37, 8-65
 Create a new waypoint 8-123
 Creating a profile 8-140
 Creating user waypoints 8-118
 CVR 6A-18
 Cylinder head temperature 7-2
 CYL SLCT 7-4

D

Database 2-9, A-1
 Date/Time box 8-142
 Decluttering 8-10
 Declutter level 3-29
 Default power-on settings 6A-5
 Delete 3-38
 Delete all user waypoints 8-121
 Delete a flight plan 8-66, 8-67
 Delete a user waypoint 8-123
 Delete a waypoint 8-57
 Deleting a profile 8-141
 Density altitude 8-129
 Departure Information Page 8-108
 Departure procedures 8-103
 Departure timer 8-131
 Description 5-1
 Deviation band 3-15
 Digital clearance recorder 6A-7, 6A-17
 Digit softkeys 5-4, 5-5
 Dilution of precision 8-135
 Direct-to 3-34
 Direct-to navigation 8-47
 Direct-to Page 8-47
 Direct-to waypoint 8-48
 Display backup 3-47, 6A-5, 6A-18
 Display units 8-142
 DME 6B-1
 DP softkey 8-103
 Dual audio panel 6B-1
 Dual CDU failure 4-7
 Dual digital shared installations 6A-18

E

Edit a flight plan 8-55
 Elevator trim 7-8
 Emergency code 5-5
 Emergency frequency 4-7
 Engine indication system 7-1
 ENGINE softkey 7-1, 8-3
 Entering a code 5-4
 Entertainment inputs 6A-11
 Estimated position error 8-135
 Exhaust gas temperature 7-2

F

Facility 3-35
 Fail-safe mode 6A-5
 FCC xv
 Figure numbering format 1-3
 Flap position indicator 7-8
 Flight ID reporting 5-7
 Flight planning 8-53
 Flight plans 3-36
 Flight Plan Catalog Page 8-63
 Flight Plan Catalog Page
 operations 8-63
 Flight Plan Catalog Page options 8-63
 Flight plan window 3-36
 Flight timer 8-131
 Flying the DME ARC 8-81
 Flying the ILS approach 8-92
 Flying the procedure turn 8-79
 Flying the vectors approach 8-95
 Frequency list 8-101
 Frequency Toggle Arrow 4-1, 4-3, 4-7
 Frequency Toggle key 4-3, 4-4, 4-5,
 4-6, 4-7, 4-9, 4-10, 4-13
 FREQ softkey 4-17, 4-18
 Front matter 1-1, 1-2
 FSS 4-19
 FSS information 8-165
 FSS softkey 4-19
 Fuel calculation 7-6
 Fuel flow indicator 7-2

Fuel planning 8-128
 Fuel pressure indicator 7-2
 Fuel quantity 7-1
 Fuel range ring 8-22
 Fuel reserve rings 3-28

G

G1000 Pilot's Guide binder 1-1
 Gallons per hour 7-2
 GAL USED 7-6
 Generic timer 3-32, 8-131
 GND indication 5-3
 GND mode 3-25
 GPS xiv, C-1
 GPS CDI 8-148
 GPS mode 4-11
 GPS receiver 8-138
 GPS signal strength 8-137
 GPS Status Page 8-133
 Ground mode 5-3
 GTX 33 5-1, 5-7

H

Headset(s) 6A-4, 6A-5, 6A-11, 6A-17,
 6A-18
 Mono 6A-4
 Stereo 6A-4
 Headset jacks 6B-1
 Hijack code 5-5
 HI SENS 6A-5, 6A-9
 Horizontal situation indicator 3-18
 Hottest cylinder 7-2
 HSI 4-2, 4-3, 4-11

I

ICAO 5-5
 ID 4-3, 4-4, 4-9
 IDENT 3-25
 Identification codes 5-4
 IDENT function 5-5
 IDENT softkey 5-3, 5-5
 IDNT indication 5-5

Important codes 5-5
 Index I-1
 INFO softkey 4-14
 Inset map 3-28
 INTEG 3-22
 Intercom system (ICS) 6A-1, 6A-8,
 6A-11, 6A-12, 6A-15, 6A-16,
 6A-18
 Interface description 4-1
 Interrogations 3-25, 5-3, 5-4, 5-7
 Intersection Information Page 8-108
 Intersection Information Page
 operations 8-109
 Invert 3-38
 Invert and activate a flight plan 8-65
 Invert flight plan 8-57

J

Jeppesen xiv, A-1

K

Key 2-5, 2-6, 2-7
 Keyed ICS operation 6B-1
 kHz 4-4, 4-5, 4-6, 4-9, 4-10

L

Land data 8-18
 Land Group options 8-30
 LD APR softkey 8-155
 Lean Page 7-4
 LED 6A-5
 Level-2 5-7
 Lightning 8-23, 8-39
 Liquid crystal displays 8-1
 List of figures ix, 1-1, 1-3
 List of tables xii, 1-1, 1-3
 Loading Departure options 8-58
 Load an approach 3-40, 8-60
 Load an arrival 3-40, 8-59
 Load a departure 3-39, 8-58
 LOC1 4-2, 4-11
 LOC2 4-2, 4-11

Loss of communication code 5-5
 LTNG 8-16
 Fying the missed approach 8-77

M

Magnetic variation 8-113
 Magnetometer 2-1, 2-2
 Manifold pressure 7-1
 Manual 5-3, 5-4
 Manual sequencing C-2
 Manual squelch (MAN SQ) 6A-5, 6A-
 15, 6A-16
 Override 6A-1, 6A-16
 Manual tuning 4-6, 4-10
 MAP 8-16
 Map datums 8-143, D-1
 Map Group options 8-17
 Map orientation 3-28, 8-9
 Map panning 8-12
 Map scale 8-9
 Map symbols F-1
 Marker beacon 6A-9
 Marker beacon annunciations 3-16
 MASQ 6A-11, 6A-17
 Measuring bearing/distance 8-32
 Menus 8-6
 MENU key 4-16, 4-21
 Message advisories 9-9, 9-10, 9-12,
 9-13, 9-14, 9-15, 9-16
 Metric display 3-16
 MFD 4-1, 4-2, 4-3, 4-5, 4-6, 4-10,
 4-13, 4-14
 MFD data bar fields 8-147
 MFD Navigation Status window 8-16
 MFD Page group 4-14
 MFD softkeys 8-3
 MHz 4-4, 4-5, 4-6, 4-9, 4-10
 Military interceptor
 operations code 5-5
 Minimum runway length 8-149
 Missed approach C-2, C-3
 MKR/MUTE 6A-9
 Mode A 3-25, 5-1, 5-3

Mode C 3-25, 5-1, 5-3
 Mode field 5-1, 5-3, 5-4, 5-5
 Mode S 5-1, 5-3, 5-7, E-1, E-2
 Mode select 5-7
 Mode selection 5-3
 Mode selection softkeys 5-1, 5-3, 5-4
 Mode S transponder 3-25
 Morse code identifier 4-3, 4-4, 4-9
 Multi-site long reply 5-7
 MUSIC #1 6A-4, 6A-11, 6A-12
 MUSIC #2 6A-4, 6A-11, 6A-12
 Muting
 COM 6A-7, 6A-17
 MUSIC #1 6A-11

N

NAV1 4-2, 4-6, 4-9, 4-10, 4-11, 6A-5,
 6A-7, 6A-8, 6A-11
 NAV2 4-2, 4-9, 4-10, 4-11, 6A-5, 6A-
 7, 6A-8, 6A-11
 NAVAID xiv
 NAVAIDS xv
 Navigation Frequency window 3-23
 Navigation Map Page 8-7
 Navigation Map Page options
 menu 8-17
 Navigation modes 4-11
 Navigation source 3-22
 Navigation Status bar 3-24, 4-2, 4-5
 NAV Frequency window 4-1
 NAV knob 4-3, 4-4, 4-10
 Nav range ring 8-20
 NDB Information Page 8-110
 NDB Information Page
 operations 8-111
 NDB Information Page options 8-112
 NDB Page Menu 8-112
 Nearest airport 3-33, 4-13, 4-17, 8-50,
 8-149
 Nearest Airports Page 8-154
 Nearest Airspaces Page 8-167
 Nearest frequencies 4-19
 Nearest Frequencies Page 8-165

Nearest Intersections Page 8-157
 Nearest NDB Page 8-159
 Nearest Page group 8-151
 Nearest User Waypoint Page 8-163
 Nearest VOR Page 8-161
 No procedure turn 8-75

O

OAT 2-2
 OBS 3-22
 OBS mode C-2
 Oil pressure indicator 7-2
 Oil temperature indicator 7-2
 ON indication 5-3
 ON mode 5-3
 Operation 5-1, 6A-5, 6A-18
 Operational xiv
 Outside air temperature 3-27

P

PA 6A-4, 6A-8
 Page groups 8-5
 Page numbering format 1-2
 Pan map 3-30
 part numbers 1-1
 Part number content 1-2
 Performance G-1, G-2
 PFD 4-1, 4-2, 4-3, 4-6, 4-7, 4-10,
 4-13, 5-1, 6A-6, 6A-9, 6A-15,
 6A-17, 6B-1
 PILOT 6A-12
 Pilot profiles 8-140
 Pitch indication 3-12
 PLAY 6A-5, 6A-17
 Point-n-Shoot flight plan creation
 feature 8-68, 8-70
 Pounds per square inch 7-2
 Power 8-36, 8-131
 Power-up 2-8
 Power-up test 8-36
 Pressure altitude 5-4
 Previous identification code 5-5
 Primary flight display 3-1

Primary NAV frequency 4-13, 4-15,
 4-20, 4-21
 Procedures 8-71
 Procedures Page 8-71
 Procedures window 3-42
 PROC key 4-20, 4-21
 PTT 6A-8

Q

Quickly tuning 121.500 MHz 4-7

R

Radio selection 4-1, 4-2
 RAIM C-1
 RAIM prediction 8-136
 Range 8-39
 Recently used VORs 4-16
 Recorded COM signals 6A-17
 Registered trademark i
 Remove departure, arrival, or
 approach 3-41, 8-61
 Rename a user waypoint 8-123
 Renaming a profile 8-141
 Replies 5-3, 5-4, 5-7
 Restore defaults 3-42, 8-62
 Reversionary mode 3-47, 6A-2, 6A-18
 Revision levels 1-1
 Revolutions per minute 7-1
 Roll indication 3-13
 RST USED 7-6
 Rudder trim 7-8
 Runway PCL frequency 4-15
 RX 4-3, 4-5, 4-7, 6A-6
 R indication 5-4

S

Satellites C-1
 Satellite Status Page 8-134
 Scheduler 8-132
 SD card 2-7, A-1
 Section numbering format 1-2
 Secure Digital 2-7

Selected NAV radio 4-14, 4-20, 4-21
 Selecting approaches 3-43, 8-60, 8-73
 Selecting a COM radio 4-6
 Selecting a NAV radio 4-11
 Select arrival 3-44
 Select a departure 3-45, 8-58
 Short squitter 5-7
 Single magenta arrow 4-11
 Slip/Skid indicator 3-13
 Softkey
 ENGINE 8-3
 LTNG 8-16
 SYSTEM softkey 8-3
 Softkeys 3-7
 Sort by comment/number 8-67
 Speaker 6A-8, 6A-18
 Special position identification 3-25
 Specifications G-1, G-2
 Specifying a course to a waypoint 8-51
 Speed indication 3-11
 Speed ranges 3-11
 Spell N Find 8-48
 SPKR 6A-5, 6A-8, 6A-11
 Split COM 6A-4, 6A-7
 Standard instrument departures 8-58
 Standby field 4-2, 4-3, 4-4, 4-14, 4-20, 4-21
 Standby frequency 4-2, 4-3, 4-6, 4-10, 4-13, 4-19
 Standby mode 3-25, 5-1, 5-3, 5-5
 STAR softkey 8-104
 STBY indication 5-3
 STBY softkey 5-3
 Stop navigating a flight plan 8-64
 Storing a flight plan 3-37, 8-56
 Storing the binder 1-3
 Stuck COM microphone 4-7
 Stuck COM microphone alert 4-7
 Surveillance identifier 5-7
 SUSP 3-22
 Symbols F-1
 System annunciations 9-1, 9-5
 System Page 7-6

System Setup Page 8-139
 System Status Page 8-150
 System time box 3-27, 5-1
 System time format 8-142

T

Table numbering format 1-3
 Table of contents ii, 1-1, 1-3
 Tab numbers 1-1
 Tachometer 7-1
 TCAS 5-7, E-1
 TCAS-equipped aircraft 5-7
 TCAS symbology 8-36
 TEL 6A-6, 6A-8, 6B-1
 Terrain xiv, 3-29, A-1, F-4
 Terrain data 8-21, 8-39
 Terrain data scale 8-21, 8-22
 Terrain information 8-15
 Terrain Proximity Page 8-39, 8-43
 Terrain Proximity Page operations 8-44
 Terrain separation xiv
 Timer/References 3-32
 Time offset 8-142
 TIS 5-7, 8-15, E-1
 TIS information 8-35, E-1
 TIS symbology 8-36
 TIS traffic advisory 8-37
 TIS traffic status 8-38
 TO/FROM arrow 3-18
 Toggling COM frequencies 4-6
 Toggling NAV frequencies 4-10
 Top-level softkeys 5-1
 TOPO 3-29
 Topographic information 8-14
 Topo data 8-20
 Topo scale box 8-21
 Totalizer 7-6
 Track vector 8-19
 Trademark i
 TRAFFIC 3-29
 Traffic 8-15, 8-16, E-1
 Traffic advisories 8-35
 Traffic annunciation 3-27

Traffic Banner 8-38
 Traffic Group options 8-23
 Traffic information 5-7
 Traffic label 8-27
 Traffic Map Page 8-35
 Traffic Map Page operations 8-36
 Traffic mode 8-26
 Traffic symbol 8-26
 Transceiver 4-5
 Transponder-equipped aircraft 5-7
 Transponder Status bar 5-1, 5-3, 5-4, 5-5
 Transponder status bar 3-25
 Trip planning operations 8-127
 Trip Planning Page 8-126
 Trip Statistics 8-132
 Tuning box 4-1
 Turbine inlet temperature 7-2
 Ture airspeed box 3-11
 Turn rate indicator 3-20
 TX 4-3, 4-7, 6A-6

U

User Waypoint Information
 Page 8-116, 8-120
 User Waypoint Information
 Page options 8-121
 Using the binder 1-2
 Utility Page 8-130

V

Vectors to final 8-95
 Vectors to the DME ARC 8-83
 Vertical deviation/glideslope indicator 3-16
 Vertical Navigation (VNAV) Page 8-69
 Vertical navigation profile 8-69
 Vertical speed indicator 3-17
 Vertical speed pointer 3-17
 VFR 3-25
 VFR code 5-5
 VHF 4-1, 4-5, 4-1
 View recent user WPT list 8-121

VLOC receiver 8-74
VOL/PUSH ID 4-4, 4-9
VOL/PUSH SQ 4-4, 4-5
Voltmeter 7-2
Volume 6A-6, 6A-8, 6A-15
Volume/squelch 6A-15
Volume level 4-4, 4-5, 4-9
VOR 4-14, 4-16, 4-18
VOR/ILS approach 4-14, 4-21
VOR1 4-2, 4-11
VOR2 4-2, 4-11
VOR information 4-16
VOR Information Page 8-113
VOR Information Page operations
8-114
VOR Information Page options 8-115
VOR list 8-115
VOR Page menu 8-115
Vspeeds 3-33
Vspeed bugs 3-32
Vspeed references 3-11

W

WARN 3-22
Warning xiv, xv, 3-49, 6A-4
Warranty xvi
Waypoint facility or city location 8-99
Waypoint identifier 8-98
Waypoint Page group 8-97
Wind vector 8-19
WX 4-19
WX softkey 4-19

X

XPDR softkey 5-1, 5-3, 5-4, 5-5

Z

Zoom range 3-29



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