



2010 43QGP Allegro Bus

8/21/2011

24 – FYI - MAGNUM 2812 INVERTER PROGRAMMING. Current project put on paper the basic programming of the Magnum 2812 inverter with the ME-RC50 Remote Control. After initial basic programming only a few programming changes are required for the two different types of camping we normally do. Those changes are based on the type of camping or shore power connection the coach will be using or stored under. The programming is setup for three different types of use, GARAGED OR SHORE POWER, DRY CAMPING (football) and QUIET TIME CAMPING (FMCA or similar rallies).

The following are the FIVE BUTTONS located on the face of the Magnum remote control our coach was built with, that is the ME-RC50 remote control with revision 2.5 installed during production. The five buttons on the remote control are; SHORE POWER, AGS (Automatic Generator Start) METER, SETUP and TECH.

The following COLORS were chosen to denote how the coach was being used GARAGED/SHORE POWER, DRY CAMPING or QUIET TIME CAMPING, and a fourth color was chosen to denote those settings COMMON to all three uses of camping or storage/shore power.

The SHORE POWER button allows the operator to set the MAXIMUM value of available current for the inverter when plugged into shore power. Our coach is GARAGED when we are home allowing the coach to be plugged into a dedicated 50 amp RV circuit. When camping with SHORE POWER available, the SHORE POWER button is set to what ever the maximum available current happens to be.

The AGS button is used to set the parameters for using the automatic generator start function. There are eight sub-menu functions which may be programmed. After initially setting the function's the AGS button requires only two or three function changes, these are based on the type of camping, Dry Camping or Quiet Time Camping. When the 01 AGS CONTROL setting is changed the 02 AGS STATUS setting will automatically change/update. When QUIET TIME CAMPING a third function 07 QUIET TIME is programmed based on what the Quiet Time hours are. Tiffin does not install a ME-BMK (Battery Monitoring Kit) as part of the production of its RVs. Unless the ME-BMK was installed as an after market device your coach probably does not have the monitor installed. If the ME-BMK was not installed most programming settings under the METER button will not be available to program. The next button is the SETUP button which has eight sub-menu functions which can be programmed depending on your camping needs or the actual equipment (batteries) installed in the coach. The TECH button is basically information which may be useful in troubleshooting Inverter, AGS or Remote Control related problems. The following six pages show the programming of our Magnum 2812 inverter remote control or how it will be programmed depending on the type of camping or if connected to shore power.

Magnum 2812 Inverter Programming

ME-RC50 Remote, GARAGED/SHORE POWER

**SHORE
POWER**

5A 10A 15A 20A 25A 30A 35A 40A **50A** 60A

AGS

STANDARD SETTINGS

01 AGS Control

OFF > ENABLE > TEST > AGS = ENABLE w/QT

02 AGS Status

OFF > AC In > Manual Run > Ready > Fault Temp
No Comm > Start Temp > Fault Test > Start Test
Fault VDC > Quiet Time > Start VDC

03 Run Time Hr.

.5 > 1.0 > 1.5 > **2.0** > 2.5 > 3.0 > 3.5 > 4.0 > 4.5 > 5.0 > 5.5 > 6.0

04 Start Temp F

OFF > **Ext Input** > 65F > 70F > 75F > 80F > 85F > 90F

05 Start Volts

OFF > 10.0v > 10.1v > 10.2v > 10.3v >>>> 12.1v > **12.2v**

06 Set Time

Hours > Minutes > AM/PM

07 Quiet Time

OFF > 9pm-7am > 9pm-8am > 9pm-9am > 10pm-8am > 11pm-8am

08 AGS Tech

Gen Run 0.0 AGS VDC: Temp:
AGS Rev: 4.2 AGS Mode: RV or Other

Magnum 2812 Inverter Programming

ME-RC50 Remote, **DRY CAMPING**

**SHORE
POWER**

5A

10A

15A

20A

25A

30A

35A

40A

50A

60A

AGS

STANDARD SETTINGS

01 AGS Control

OFF > **ENABLE** > TEST > AGS = ENABLE w/QT

02 AGS Status

OFF > AC In > Manual Run > **Ready** > Fault Temp
No Comm > Start Temp > Fault Test > Start Test
Fault VDC > Quiet Time > Start VDC

03 Run Time Hr.

.5 > 1.0 > 1.5 > **2.0** > 2.5 > 3.0 > 3.5 > 4.0 > 4.5 > 5.0 > 5.5 > 6.0

04 Start Temp F

OFF > **Ext Input** > 65F > 70F > 75F > 80F > 85F > 90F

05 Start Volts

OFF > 10.0v > 10.1v > 10.2v > 10.3v >>>> 12.1v > **12.2v**

06 Set Time

Hours > Minutes > AM/PM

07 Quiet Time

OFF > 9pm-7am > 9pm-8am > 9pm-9am > 10pm-8am > 11pm-8am

08 AGS Tech

Gen Run 0.0

AGS VDC:

Temp:

AGS Rev: 4.2

AGS Mode: RV or Other

Magnum 2812 Inverter Programming

ME-RC50 Remote, **QUIET TIME CAMPING**

**SHORE
POWER**

5A 10A 15A 20A 25A 30A 35A 40A 50A 60A

AGS

STANDARD SETTINGS

01 AGS Control

OFF > ENABLE > TEST > **AGS = ENABLE w/QT**

02 AGS Status

OFF > AC In > Manual Run > **Ready** > Fault Temp
No Comm > Start Temp > Fault Test > Start Test
Fault VDC > Quiet Time > Start VDC

03 Run Time Hr.

.5 > 1.0 > 1.5 > **2.0** > 2.5 > 3.0 > 3.5 > 4.0 > 4.5 > 5.0 > 5.5 > 6.0

04 Start Temp F

OFF > **Ext Input** > 65F > 70F > 75F > 80F > 85F > 90F

05 Start Volts

OFF > 10.0v > 10.1v > 10.2v > 10.3v >>>> 12.1v > **12.2v**

06 Set Time

Hours > Minutes > AM/PM

07 Quiet Time

OFF > 9pm-7am > 9pm-8am > 9pm-9am > 10pm-8am > **11pm-8am**

08 AGS Tech

Gen Run 0.0

AGS VDC:

Temp:

AGS Rev: 4.2

AGS Mode: RV or Other

METER

01 Inv/Chg Meter	DC: 12.8v 0A
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02 Bat SOC	100%
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03 Meters	DC Volts: 12.85 DC Amps: 2.8 AH I/O: + 6 rAH Out: 863.9 tAH Out: 0.9K
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04 BM: Status	BM: READY > Power - up Fault > No Comm
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05 BM: Setup	Chg Eff = AUTO 50% > 60% > 70% > 80% > 82% > 84% > 86% 88% > 90% > 91% > 92% > 93% > 94% > 95% > 96% > 97%
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06 BM: Tech	BM Rev: 1.0 Min DC: 11.94 Max DC: 14.84
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SETUP

01 Search Watts

OFF > 5 > 10 > 15 > 20 > 25 > 30 > 35 > 40 > 45 > 50W

02 Low Battery
Cut Out (LBCO)

9.0 > 9.1 > 9.2 > 9.3 >>> **10.8** >>> 12.0 > 12.1 > 12.2VDC

03 Batt Amp Hrs

200 > 210 > 220 > 230 > 240 > 250 >>> **1300** >>> 2490 > 2500

04 Battery Type

GEL > **FLOODED** > AGM1 > AGM2 > CUSTOM

05 Charge Rate

0% > 10% > 20% > 30% > 40% > 50% >>> 90% > **100%**

06 VAC Drop Out

60 > 65 > 70 > 75 > 80 > 85 > 90 > 95 > **100VAC** > UPS MODE

07 Power Save

OFF > 1m > 5min > 10min > **15min** > 30min > 45min > 60min

08 Screen Setup

Contrast: 10% > 20% > 30% > 40% > **50%** > 60% >>> 100%
Brightness: 10% > 20% > 30% > 40% > **50%** > 60% >>> 100%

TECH

01 Temperatures

BTS: 32C/89F
Trmer: 55C/131F
FETs: 47C/116F
AGS: 1C/33F

02 Revisions

Inverter: 3.7
Remote: 2.5
AGS: 4.2
BMK: 1.0

03 Inv Model

Model: MS2812

04 Load Defaults

05 VAC Dropout:	INT
Charge Rate:	INT
Shore Power:	INT

OTHER OWNERS MAY OR MAY NOT AGREE WITH THE SETTINGS I HAVE PROGRAMMED OR WILL PROGRAM DEPENDING ON TYPE OF CAMPING.

THE ABOVE PROGRAMMING IS WHAT WORKS BEST BASED ON OUR CAMPING LIFESTYLE.