

service information

TO:

OUR MERCEDES-BENZ PASSENGER CAR DEALERS

DATE:

September 1994

REF. NO.

MBNA 82/78

SUBJECT:

ALL MODELS WITH BECKER RADIO (P/N 003 820 36 86)

AS OF M.Y. 1994

RADIO DIAGNOSTIC INFORMATION

The Becker radio introduced on model year 1994 vehicles has a two-level diagnostic mode. This allows technicians to verify the following information.

Level One Diagnostic Mode

LCD display	Test function/Information				
MODEL	Becker model number				
PR V	Software version [for radio microprocessor (R) & faceplate microprocessor (F)]				
S NO	Radio serial number				
RESET	Reset volume, tone, balance and fader				
FMAMR	Tuning steps				
CON	Sound system type				
END	Exit test mode				

Level Two Diagnostic Mode

LCD display	Test function/Information				
GAL	Speed-dependent volume control setting				
LCD	LCD segment test				
SOUND	Volume level				
ADC	Analog-to-digital converter values				
FMSP	Comparator voltage adjustment 1)				
AFSO	Audio level adjustment for AM/FM/WB/CC/CD 1)				
END	Exit test mode				

¹⁾ Not accessible for field measurement or adjustment, specific test equipment required.

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Radio must be turned ON and coded to enter diagnostic mode.

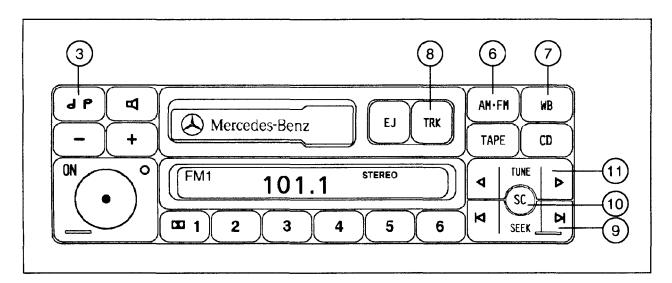
Each step in the entry process must be completed within four seconds.

To enter Level One Diagnostic Mode

- Press the Bass/Treble selector button (3) on the faceplate. The LCD display should read BASS.
- Simultaneously press the AM/FM (6) and WB (7) buttons on the faceplate. The LCD display should read TEST.

To enter Level Two Diagnostic Mode

- Follow procedure to enter Level One Diagnostic Mode.
- 2. Press the Track selector button (8, TRK). The LCD display should read TEST.
- Simultaneously press the AM/FM (6) and WB (7) buttons on the faceplate. The LCD display should read BAW2.



To select the different **Test Functions/Information** (see charts on page 1) press the seek tuning (SEEK) button (9).

The actual level, numerical value or visual indication for each test function can be accessed by pressing the manual tuning (TUNE) button (11).

Note: The values for GAL in Level Two Diagnostic Mode change according to vehicle speed.

Example of Level One data

LCD display	Test Function/Information					
MODEL	1492 (for U.S.A. vehicles)					
PR – – V	RWW/YY FWW/YY (R = radio microprocessor, W = week, F = faceplate microprocessor, Y = year)					
S NO	First four digits. Press TUNE button (11) to display next four digits.					
RESET	Press scan tuning (SC) button (10) for three seconds to reset volume, tone, fader and balance to preset levels. "" will appear on the display to verify that the reset is complete.					
FMAMR	100:9, 200:10, (U.S.A. specification)					
CON	<u>Display</u> 0 1 2 3 4 5 6	Pin 8 ground open ground open ground open ground open	Pin 9 ground ground open open ground ground open open	Pin 10 ground ground ground ground open open open	Type 140/202 Bose 4-channel 124/202 sound system 129 sound system (non-U.S.) 202 standard system 129 Bose 2-channel 124 standard system (non-U.S.) 140 standard system (non-U.S.) linear output	
END .	Will automatically exit after three seconds.					

Example of Level Two data

LCD display	Test function/Information					
GAL	Display Acceleration cut-in		Deceleration cut-in			
	0		15 mph			
	2	25 mph	20 mph			
	4	45 mph	30 mph			
	6	65 mph	55 mph			
LCD	Press the TUNE button (11) each time to see: all segments on, all segments off, all segments even, all segment odd					
SOUND	Press the TUNE button (11) each time to see the db level of the audio processor.					
	The value of each item is dependent upon volume, tone, balance and fader setting					
	Display	Function	Range (min./max.)			
		Volume	75.00/0.0			
· ·	В	Bass	B 14/+14			
	T	Treble	T 14/+14			
	LF	Left front	38.75/2.50			
	RF	Right front	38.75/2.50			
	LR	Left rear	38.75/2.50			
	RR	Right rear	38.75/2.50			
ADC	indicating to Display ADC1 ADC2 ADC3 ADC4 ADC5 ADC6 ADC7 ADC8 Note: Th	the relative strength of Signal FM field stre not used AM field stre Not used Not used Stereo pilot Audio output Power supple ese values are not con INE button (11) to toggethe	ngth stage temperature y voltage ntinuously updated. To update values, press the gle between two ADC positions. When returning the current value will be displayed.			
	Not accessible for field measurement.					
AFSO	of the tune Display FM AM WB TAPE CD Note: Th	or, cassette and CD se <u>Source</u> 2222 5555 5555 4444 3333	which are determined during final alignment. Not			
END	Will automatically exit after three seconds.					