GF54.65-P-0005LE	Reversing camera (RFK), function	22.6.10

MODEL 216.3, 221.0 /1
with CODE (218) Backup camera
except CODE (498) Japan version
as of model year 2009
/YoM 08

Function requirements, general

- Circuit 15 ON
- Reversing camera system activated over the instrument cluster (A1)
- Reverse gear engaged

Reversing camera, general

The reversing camera system assists the driver when reverse parking and when backing up.

i When first put into operation, during work on the reversing camera (B84/3) or work on the trunk lid, the reversing camera must be recalibrated using the diagnostic tester.

The rear SAM control unit with fuse and relay module (N10/2) then activates the reversing camera power supply module (N66/10) which supplies power to the reversing camera. The camera images captured by the reversing camera are transmitted to the COMAND controller unit (A40/3) via the reversing camera power supply module.

i The guide lines have the following meaning:

- Blue guide line:
  Extended lateral line of vehicle
- Yellow guide line:
  Distance from vehicle s = 1 m
- Red guide line:
  Distance from vehicle s = 0.25 m

Reversing camera function sequence

The "reverse gear engaged" signal is sent by the EGS control unit (N15/3) (with transmission 722.6) or the fully integrated transmission control unit (VGS) (Y3/8n4) (with transmission 722.9) via the drive train CAN (CAN C) to the CDI control unit (N3/9) (with diesel engine) or to the ME-SFI [ME] control unit (N3/10) (with gasoline engine). The CDI control unit or the ME-SFI [ME] control unit forwards the signal via the chassis CAN (CAN E) to the central gateway control unit (N93) which routes the signal to the interior CAN (CAN B).

The COMAND controller unit then activates the COMAND display (A40/8) (without code (867) SPLITVIEW) or the SPLITVIEW display (A40/10) (with code (867) SPLITVIEW) via the telematics CAN (CAN A). The image data is transmitted directly by the COMAND controller unit via the CVBS interface to the COMAND display where it is displayed.

i If the trunk lid is open, the message "Trunk lid open" appears in the COMAND display or the SPLITVIEW display.

	Reversing camera (RFK), location of components	Model 216 Model 221	GF54.65-P-0005-01LA GF54.65-P-0005-01LE
PE	Electrical function schematic, reversing camera	Model 216 Model 221	PE54.65-P-2051-97CAD PE54.65-P-2051-97SAD
	Reversing camera (RFK), block diagram		GF54.65-P-0005-02LE
	Component description for COMAND controller unit	A40/3 With code (526) COMAND with single DVD drive (without navigation) With code (527) COMAND APS with single DVD drive (with navigation system) With code (530) COMAND APS USA (with navigation system)	GF82.85-P-3136LE GF82.85-P-3136LEU
	COMAND display, component description	A40/8 Without code (867) SPLITVIEW	GF54.30-P-6110LE
	SPLITVIEW display, component description	A40/10 With code (867) SPLITVIEW	GF54.30-P-6120LE
	Component description for CDI control unit	N3/9 On model 221 with engine 629.9 On model 221 with engine 642.8 On model 221 with engine 642.9	GF07.16-P-6000OA GF07.16-P-6000OHS GF07.16-P-6000OHL
	Component description for ME-SFI [ME] control unit	N3/10 With engine 156 On model 221 with engine 272 (except 272.974) On model 221 with engine 272.974 With engine 273 With engine 275 On model 221 with engine 276 On engine 157, 278	GF07.61-P-6000MAS GF07.61-P-6000MIS GF07.61-P-6000MEH GF07.61-P-6000MLS GF07.61-P-6000MOS GF07.61-P-6000MMB GF07.61-P-6000MMC
	Component description for rear SAM control unit with fuse and relay module	N10/2	GF54.21-P-6030LE
	Component description for electronic transmission control control unit	N15/3 With transmission 722.6	GF27.60-P-5164ACS

	Component description for central gateway control unit	N93	GF54.21-P-4170LE
	Component description for fully integrated transmission control unit	Y3/8n4 With transmission 722.9 (except 722.931/950)	GF27.60-P-5165AHS
		With transmission 722.931	GF27.60-P-5165AHT
		With transmission 722.950	GF27.60-P-5165LEH