

**PIB-PIB-35LG\_PA258B PIB-PIB-35LG\_PA258B - A258 Body Domain Controller - V.13, VIN: WX12720**

ISTA system version	<b>4.39.20.24455</b>	Data version	<b>R4.39.20</b>	Programming data	-
VIN	<b>WX12720</b>	Vehicle	<b>5'/G30/SEDAN/530i xDrive/B46,-/AUTO/US/LL/ - / -</b>		
Int.lev.works	-	Int.lev.(cur.)	-	Int.lev.(tar.)	-
Mileage	-				

## Connector location views

Number	X-pin, colour	Description
A258*1B	1-pin, black	Component connector Body Domain Controller
A258*2B	42-pin, black	Component connector Body Domain Controller
A258*3B	54-pin, black	Component connector Body Domain Controller
A258*4B	54-pin, natural	Component connector Body Domain Controller
A258*5B	42-pin, grey	Component connector Body Domain Controller
A258*6B	54-pin, violet	Component connector Body Domain Controller
A258*7B	54-pin, natural	Component connector Body Domain Controller
A258*8B	54-pin, black	Component connector Body Domain Controller
A258*9B	54-pin, blue	Component connector Body Domain Controller
A258*10B	12-pin, natural	Component connector Body Domain Controller

## Pin assignments at plug connector A258\*1B

Pin	Type	Description /Signal type	Connection /Measuring information
1	E	Supply, terminal 30	Fuse F504

## Pin assignments at plug connector A258\*2B

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Activation, starter	Starter
2	A	Activation fanfares	fanfares
3	--	not used	
4	A	Actuation, magnetic clutch	A/C compressor
5	--	not used	
6	A	Actuation, control valve	A/C compressor
7	A	Manual headlight beam throw adjustment activation Ground without vertical dynamic platform	Rear left level sensor
8	A	Manual headlight beam throw adjustment activation Positive without vertical dynamic platform	Rear left level sensor
9	A	Manual headlight beam throw adjustment activation Switch signal without vertical dynamic platform	Rear left level sensor
10	E	Sensor signal	Coolant level sensor
11	E/A	LIN bus signal	Bus connection
12	--	not used	
13	--	not used	
14	--	not used	
15	A	Manual headlight beam throw adjustment activation Ground without vertical dynamic platform	Front left level sensor
16	A	Manual headlight beam throw	Front left level sensor

		adjustment activation Positive without vertical dynamic platform	
17	A	Manual headlight beam throw adjustment activation Switch signal without vertical dynamic platform	Front left level sensor
18	--	not used	
19	--	not used	
20	--	not used	
21	--	not used	
22	--	not used	
23	--	not used	
24	A	Activation Washer pump for headlight washer system	Washer pump for headlight washer system
25	--	not used	
26	--	not used	
27	--	not used	
28	E	Switch signal	Driver's door central locking button
29	E	Switch signal	Front passenger door central locking button
30	E	Door contact signal	Driver's door lock
31	E	Door contact signal	Front passenger-door lock
32	A	Activation, brake light	Tail light, outer left
33	E	Signal Outside temperature sensor	Outside temperature sensor
33	E	Signal Outside temperature sensor	Radiator blind drive, top
34	E	Signal Outside temperature sensor	Outside temperature sensor
34	E	Signal Outside temperature sensor	Radiator blind drive, top
35	A	Activation Auxiliary water pump	Auxiliary water pump
36	--	not used	
37	A	Switch signal	Rear lid button, interior
38	E	Door contact signal	Door lock, rear driver's side
39	E	Door contact signal	Door lock, rear passenger's side
40	E	Switch signal	Bonnet contact switch
41	A	Locator light and ambient light	Connector, locator light and ambient light
42	A	Activation, interior light	Roof function centre

## Pin assignments at plug connector A258\*3B

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Supply, terminal 15	Power distribution box, rear
2	A	Supply, terminal 15	Digital Motor Electronics or Digital diesel electronics
3	--	not used	
4	--	not used	
5	--	not used	
6	M	Ground	Ground point
7	A	Activation, fog lights	Left fog light
8	A	Activation, fog lights	Right fog light
9	E	Switch signal	Interior light, rear
10	--	not used	
11	E	Sensor signal	Washer fluid level sensor
12	M	Ground	Rear compartment ventilation grille
13	A	Supply Mixing air control	Rear compartment ventilation grille
14	E	Signal Mixing air control	Rear compartment ventilation grille
15	E/A	LIN bus signal	Blower motor
16	--	not used	
17	--	not used	
18	--	not used	
19	--	not used	

20	--	not used	
21	E	Switch signal, interior lighting	Interior light, front
22	E	Brake light switch signal	Brake light switch
23	E	Switch signal	Clutch module
24	M	Sensor ground	Refrigerant pressure sensor
25	A	Supply Refrigerant pressure sensor	Refrigerant pressure sensor
26	E	Signal, pressure sensor	Refrigerant pressure sensor
27	E	Signal AUC sensor	AUC sensor
28	--	not used	
29	--	not used	
30	A	Power supply, terminal 30F	Comfort access
31	A	Power supply, terminal 30F	Rain-light-solar-condensation sensor
32	A	Power supply, terminal 30F	Diagnosis socket
33	E	Supply, terminal 30	Fuse F41
34	--	not used	
35	--	not used	
36	A	Activation, flashing indicator lamp	Right headlight
37	A	Actuation, turn signal light, right	Exterior mirror, right
38	--	not used	
39	--	not used	
40	--	not used	
41	--	not used	
42	A	Activation, tail light	Tail light, outer right
43	--	not used	
44	A	Power supply, terminal 30F	Power Control Unit
45	A	Power supply, terminal 30F	Telematic Communication Box
46	A	Power supply, terminal 30F	Tailgate function module
47	A	Power supply, terminal 30F	Vertical dynamics platform
48	A	Activation, flashing indicator lamp	Left headlight
49	A	Activation, flashing indicator lamp	Exterior mirror, left
50	--	not used	
51	--	not used	
52	--	not used	
53	--	not used	
54	A	Activation, tail light	Tail light, inner left
54	A	Activation, tail light 6-Series USA	Interference suppressor filter 2

## Pin assignments at plug connector A258\*4B

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Actuation, mirror heater, basic mirror	Exterior mirror, front passenger
2	A	Actuation, mirror heater, basic mirror	Exterior mirror, driver
3	A	Actuation, water jet heater	Connector, heated washer jets
4	--	not used	
5	--	not used	
6	--	not used	
7	--	not used	
8	--	not used	
9	M	Ground	Ground connector
10	--	not used	
11	--	not used	
12	--	not used	
13	E	Aerial signal	Interior aerial, centre console, front
14	E	Aerial signal	Interior aerial, centre console, front
15	--	not used	
16	A	Actuation, central locking drive	Central locking drive, fuel filler flap
17	A	Actuation, central locking drive	Door lock, rear passenger's side
18	A	Actuation, central locking drive	Door lock, rear driver's side
19	A	Actuation, central locking drive	Front passenger-door lock

20	A	Actuation, central locking drive	Driver's door lock
21	M	Ground	Ground connector
22	--	not used	
23	--	not used	
24	E/A	LIN bus signal	Bus connection
25	E	Aerial signal	Interior aerial, centre console, rear
26	E	Aerial signal	Interior aerial, centre console, rear
27	E/A	LIN bus signal	Bus connection
28	A	Actuation, central locking drive	Front passenger-door lock
29	A	Actuation, central locking drive	Driver's door lock
30	A	Actuation, central locking drive	Driver's door lock
31	A	Actuation, central locking drive	Front passenger-door lock
32	--	not used	
33	M	Ground	Ground point
34	--	not used	
35	--	not used	
36	A	Activation Windscreen washer pump	Windscreen washer pump
37	--	not used	
38	--	not used	
39	--	not used	
40	--	not used	
41	E/A	LIN bus signal	Bus connection
42	E/A	LIN bus signal	Bus connection
43	A	Actuation, central locking drive	Door lock, rear passenger's side
44	A	Actuation, central locking drive	Door lock, rear driver's side
45	A	Actuation, central locking drive	Central locking drive, fuel filler flap
46	A	Actuation, central locking drive	Door lock, rear passenger's side
47	A	Actuation, central locking drive	Door lock, rear driver's side
48	A	Activation Windscreen washer pump	Windscreen washer pump
49	--	not used	
50	--	not used	
51	--	not used	
52	--	not used	
53	--	not used	
54	--	not used	

## Pin assignments at plug connector A258\*5B

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	5-Series Touring Activation	Rear wiper
2	--	not used	
3	--	not used	
4	--	not used	
5	--	not used	
6	M	Ground	Ground connector
7	--	not used	
8	--	not used	
9	--	not used	
10	A	Activation, brake light	Tail light, outer right
11	A	Activation, flashing indicator lamp	Tail light, outer right
12	A	Dynamic brake light 6-Series USA	Interference suppressor filter 2
12	A	Activation, rear fog light	Tail light, inner right
13	A	Activation, reversing light	Tail light, inner right
13	A	Activation, reversing light 6-Series USA	Interference suppressor filter 2
14	M	Ground	Ground connector
15	--	not used	
16	--	not used	
17	--	not used	

18	--	not used	
19	A	Activation, flashing indicator lamp	Tail light, outer left
20	A	Dynamic brake light 6-Series USA	Interference suppressor filter 2
20	A	Activation, rear fog light	Tail light, inner left
21	A	Activation, reversing light 6-Series USA	Interference suppressor filter 2
21	A	Activation, reversing light	Tail light, inner left
22	--	not used	
23	--	not used	
24	--	not used	
25	--	not used	
26	--	not used	
27	E	Sensor signal	Fuel level sensors
28	E	Signal, reset contact 5-Series Touring	Rear wiper
29	--	not used	
30	A	Activation Illuminated carpet, left	Illuminated carpet, left
31	A	Activation Illuminated carpet, right	Illuminated carpet, right
32	A	Activation, brake light 6-Series USA	Noise suppressor filter
32	A	Activation, brake light	Auxiliary brake light
33	A	Activation, brake light	Tail light, inner right
33	A	Activation, brake light 6-Series USA	Interference suppressor filter 2
34	A	Activation, tail light 6-Series USA	Interference suppressor filter 2
34	A	Activation, tail light	Tail light, inner right
35	E	Sensor signal	Fuel level sensor
36	E	Sensor signal	Fuel level sensor 2
37	--	not used	
38	--	not used	
39	--	not used	
40	A	Activation, licence plate light	Licence plate light, left Licence-plate lamp, right
40	A	Activation, licence plate light 6-Series USA	Noise suppressor filter
41	A	Activation, flashing indicator lamp	Tail light, inner left
41	A	Activation, flashing indicator lamp 6-Series USA	Interference suppressor filter 2
42	A	Activation, tail light	Tail light, outer left

## Pin assignments at plug connector A258\*6B

Pin	Type	Description /Signal type	Connection /Measuring information
1	E/A	K-CAN bus signal	Bus connection
2	E/A	K-CAN bus signal	Bus connection
3	A	Drive actuation for roller sunblind 5-Series Saloon	Drive for roller sunblind, rear window
4	A	Drive actuation for roller sunblind 5-Series Saloon	Drive for roller sunblind, rear window
5	--	not used	
6	A	Actuation, central locking drive	Boot lid/tailgate lock
7	E	Switch signal 6-Series USA	Noise suppressor filter
7	E	Switch signal	Licence plate light with rear lid button
8	E	Signal, boot lid contact 6-Series USA	Noise suppressor filter
8	E	Signal, boot lid contact	Boot lid/tailgate lock
9	--	not used	
10	--	not used	
11	E	Switch signal	Rear lid button on inside of rear lid
12	--	not used	
13	E/A	LIN bus signal	Bus connection

14	E/A	LIN bus signal	Bus connection
15	E/A	LIN bus signal	Bus connection
16	E/A	LIN bus signal	Bus connection
17	E/A	LIN bus signal	Door pocket lighting, passenger's door
18	E/A	LIN bus signal	Bus connection
19	--	not used	
20	--	not used	
21	E	Switch signal 5 Touring and 6 Touring	Electric motor, backrest remote unlocking, right
22	--	not used	
23	E	Contact lock signal	Boot lid/tailgate lock
24	--	not used	
25	--	not used	
26	--	not used	
27	--	not used	
28	--	not used	
29	--	not used	
30	--	not used	
31	--	not used	
32	--	not used	
33	--	not used	
34	--	not used	
35	--	not used	
36	--	not used	
37	--	not used	
38	--	not used	
39	--	not used	
40	--	not used	
41	--	not used	
42	--	not used	
43	--	not used	
44	--	not used	
45	--	not used	
46	--	not used	
47	--	not used	
48	--	not used	
49	--	not used	
50	--	not used	
51	--	not used	
52	--	not used	
53	--	not used	
54	E/A	LIN bus signal	Power distribution box, rear

## Pin assignments at plug connector A258\*7B

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Power supply, terminal 30F	Heating/air conditioning system
2	A	Locator light and ambient light	Heating/air conditioning system
3	--	not used	
4	M	Ground	Heating/air conditioning system
5	E	Switch signal Shift paddles	Steering column switch cluster
6	M	Ground	Steering column switch cluster
7	A	Power supply, terminal 30F	Steering column switch cluster
8	E/A	LIN bus signal	Steering column switch cluster
9	--	not used	
10	M	Ground	Ground connector
11	--	not used	
12	--	not used	
13	--	not used	

14	--	not used	
15	M	Ground	Glove compartment light
16	--	not used	
17	--	not used	
18	--	not used	
19	--	not used	
20	--	not used	
21	E/A	LIN bus signal	Heating/air conditioning system
22	A	Signal Outside temperature sensor	Instrument cluster control unit
23	A	Signal Outside temperature sensor	Instrument cluster control unit
24	M	Ground	Instrument cluster control unit
25	M	Ground	Instrument cluster control unit
26	--	not used	
27	--	not used	
28	--	not used	
29	M	Ground	Control panel for audio mode/heating and air conditioning system
30	A	LED activation	Driver assistance system operating facility with hazard warning switch
31	E	Switch signal, hazard warning light switch	Driver assistance system operating facility with hazard warning switch
32	--	not used	
33	E/A	K-CAN bus signal	Heating/air conditioning system
34	E/A	K-CAN bus signal	Heating/air conditioning system
35	E/A	PT-CAN bus signal	Instrument cluster control unit
36	E/A	PT-CAN bus signal	Instrument cluster control unit
37	A	Power supply, terminal 30F	Control panel for audio mode/heating and air conditioning system
38	E/A	LIN bus signal	Control panel for audio mode/heating and air conditioning system
39	M	Ground	NFC reader
40	A	Power supply, terminal 30F	Light operating unit
41	E/A	LIN bus signal	Light operating unit
42	M	Ground	Light operating unit
43	E	Switch signal	START-STOP button
44	A	LED activation	START-STOP button
45	E	Switch signal	START-STOP button
46	M	Ground	START-STOP button
47	A	LED activation	START-STOP button
48	--	not used	
49	E	Switch signal	START-STOP button
50	M	Ground	START-STOP button
51	E	Switch signal	Hotel position switch
52	M	Ground	Hotel position switch
53	E	Aerial signal	Ring aerial
54	E	Aerial signal	Ring aerial

## Pin assignments at plug connector A258\*8B

Pin	Type	Description /Signal type	Connection /Measuring information
1	E/A	FlexRay bus signal	Rear electric active roll stabilisation
2	E/A	FlexRay bus signal	Rear electric active roll stabilisation
3	E/A	FlexRay bus signal	Front electric active roll stabilisation
4	E/A	FlexRay bus signal	Front electric active roll stabilisation
5	E/A	FlexRay bus signal	Digital Motor Electronics 2
6	E/A	FlexRay bus signal	Digital Motor Electronics 2
7	E/A	FlexRay bus signal	Rear axle king pin inclination control
8	E/A	FlexRay bus signal	Rear axle king pin inclination control
9	E/A	with optional equipment system	Optional extra system

		FlexRay bus signal	
9	E/A	Hybrid engine without optional equipment system FlexRay termination	Body Domain Controller
10	E/A	with optional equipment system FlexRay bus signal	Optional extra system
10	E/A	Hybrid engine without optional equipment system FlexRay termination	Body Domain Controller
11	E/A	FlexRay bus signal without vertical dynamic platform	Body Domain Controller
11	E/A	FlexRay bus signal	Vertical dynamics platform
12	E/A	FlexRay bus signal	Vertical dynamics platform
12	E/A	FlexRay bus signal without vertical dynamic platform	Body Domain Controller
13	E/A	FlexRay bus signal	Electromechanical power steering
14	E/A	FlexRay bus signal	Electromechanical power steering
15	--	not used	
16	--	not used	
17	E/A	Ethernet data line	Diagnosis socket
18	E/A	Ethernet data line	Diagnosis socket
19	E/A	PT-CAN bus signal	Bus connection
20	E/A	PT-CAN bus signal	Bus connection
21	--	not used	
22	--	not used	
23	E/A	FlexRay termination	Body Domain Controller
24	E/A	FlexRay termination	Body Domain Controller
25	E/A	FlexRay termination	Body Domain Controller
26	E/A	FlexRay termination	Body Domain Controller
27	E/A	FlexRay bus signal	Electric-machine electronics
27	E/A	not Hybrid engine with optional equipment system FlexRay termination	Body Domain Controller
27	E/A	FlexRay bus signal	Regulated rear axle differential lock
28	E/A	not Hybrid engine with optional equipment system FlexRay termination	Body Domain Controller
28	E/A	FlexRay bus signal	Electric-machine electronics
28	E/A	FlexRay bus signal	Regulated rear axle differential lock
29	E/A	not all-wheel drive FlexRay termination	Body Domain Controller
29	E/A	FlexRay bus signal	Transfer box
30	E/A	not all-wheel drive FlexRay termination	Body Domain Controller
30	E/A	FlexRay bus signal	Transfer box
31	E/A	FlexRay bus signal	Digital Motor Electronics or Digital diesel electronics
32	E/A	FlexRay bus signal	Digital Motor Electronics or Digital diesel electronics
33	E/A	FlexRay bus signal	Crash safety module
34	E/A	FlexRay bus signal	Crash safety module
35	E/A	Ethernet data line	Diagnosis socket
36	E/A	Ethernet data line	Diagnosis socket
37	--	not used	
38	A	Wake-up signal, terminal 15	Connector, terminal 15 wake-up signal
39	E/A	K-CAN bus signal	Remote control receiver
40	E/A	K-CAN bus signal	Remote control receiver
41	--	not used	
42	--	not used	
43	E/A	K-CAN bus signal	CAN terminator 3

44	E/A	K-CAN bus signal	CAN terminator 3
45	E/A	Bus signal diagnosis	Diagnosis socket
46	E/A	Bus signal diagnosis	Diagnosis socket
47	E/A	PT-CAN bus signal	Bus connection
48	E/A	PT-CAN bus signal	Bus connection
49	E/A	K-CAN bus signal	CAN terminator 2
50	E/A	K-CAN bus signal	CAN terminator 2
51	E/A	K-CAN bus signal	Roof function centre
52	E/A	K-CAN bus signal	Roof function centre
53	E/A	Ethernet data line	Diagnosis socket
54	A	Wake-up signal Ethernet data line	Ethernet switch Reversing camera All-round vision camera

## Pin assignments at plug connector A258\*9B

Pin	Type	Description /Signal type	Connection /Measuring information
1	E/A	Ethernet data line Headunit High	Camera-based driver assistance systems
1	E/A	Ethernet data line Headunit Basis	Instrument cluster control unit
2	E/A	Ethernet data line Headunit Basis	Instrument cluster control unit
2	E/A	Ethernet data line Headunit High	Camera-based driver assistance systems
3	--	not used	
4	--	not used	
5	--	not used	
6	--	not used	
7	--	not used	
8	--	not used	
9	E	Aerial signal	Left exterior aerial
10	E	Aerial signal	Right exterior aerial
11	E	with remote-controlled parking Aerial signal	Bumper aerial, rear
11	E	without remote parking Aerial signal	Luggage compartment aerial
12	E	with remote-controlled parking Aerial signal	Luggage compartment aerial
13	--	not used	
14	--	not used	
15	--	not used	
16	--	not used	
17	--	not used	
18	--	not used	
19	E/A	Ethernet data line Headunit Basis	Telematic Communication Box
19	E/A	Ethernet data line Headunit High	Optional extra system
20	E/A	Ethernet data line Headunit High	Optional extra system
20	E/A	Ethernet data line Headunit Basis	Telematic Communication Box
21	--	not used	
22	E/A	Shield	Telematic Communication Box
23	--	not used	
24	--	not used	
25	--	not used	
26	--	not used	
27	E	Aerial signal	Left exterior aerial
28	E	Aerial signal	Right exterior aerial
29	E	without remote parking Aerial signal	Luggage compartment aerial
29	E	with remote-controlled parking Aerial signal	Bumper aerial, rear
30	E	with remote-controlled parking Aerial signal	Luggage compartment aerial
31	--	not used	

32	--	not used	
33	E	Data line	Electronic outer door handle module, driver
34	E	Data line	Electronic outer door handle module, passenger
35	E	Data line	Outer door handle electronic module, rear driver's side
36	E	Data line	Outer door handle electronic module, rear passenger's side
37	E/A	Ethernet data line without Ethernet switch	All-round vision camera
37	E/A	Ethernet data line Headunit Basis	Camera-based driver assistance systems
37	E/A	Ethernet data line with Ethernet switch	Ethernet switch
37	E/A	without omnidirectional camera Ethernet data line	Reversing camera
38	E/A	Ethernet data line without Ethernet switch	All-round vision camera
38	E/A	without omnidirectional camera Ethernet data line	Reversing camera
38	E/A	Ethernet data line with Ethernet switch	Ethernet switch
38	E/A	Ethernet data line Headunit Basis	Camera-based driver assistance systems
39	--	not used	
40	E/A	Shield	Reversing camera
41	--	not used	
42	--	not used	
43	--	not used	
44	--	not used	
45	--	not used	
46	--	not used	
47	--	not used	
48	--	not used	
49	--	not used	
50	--	not used	
51	A	Activation, interior light	Connector, interior light
52	A	Activation, courtesy lighting	Connector, ground lights
53	A	Activation, interior light	Connector, interior light
54	A	Activation, interior light	Connector, interior light

## Pin assignments at plug connector A258\*10B

Pin	Type	Description /Signal type	Connection /Measuring information
1	E/A	Ethernet data line	Headunit
2	--	not used	
3	--	not used	
4	E/A	K-CAN bus signal	Bus connection
5	E/A	K-CAN bus signal	Bus connection
6	--	not used	
7	E/A	Ethernet data line	Headunit
8	--	not used	
9	--	not used	
10	--	not used	
11	--	not used	
12	--	not used	