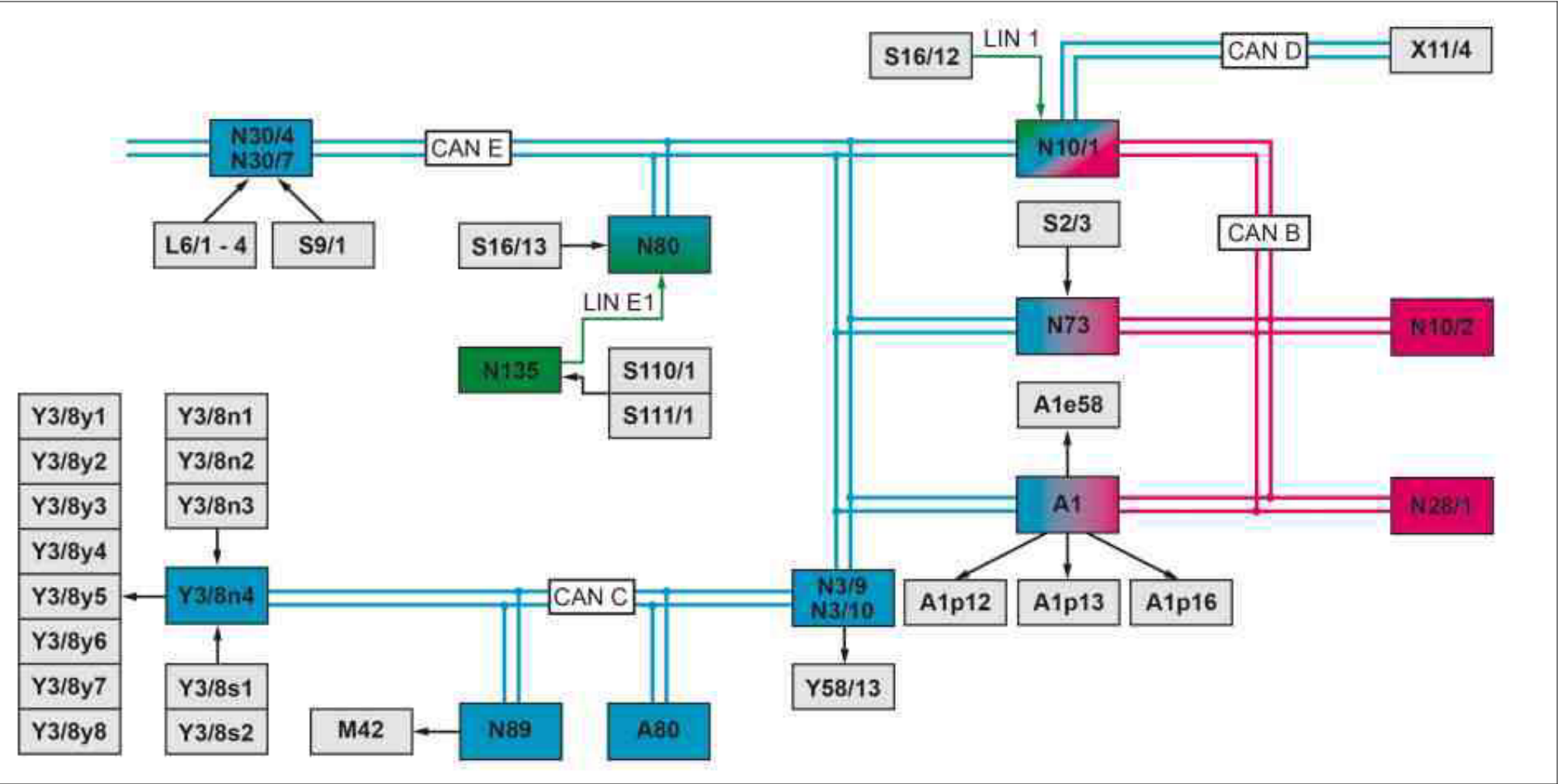


Document title Automatic transmission (AT), block diagram

Document number gf2710p000120ahl

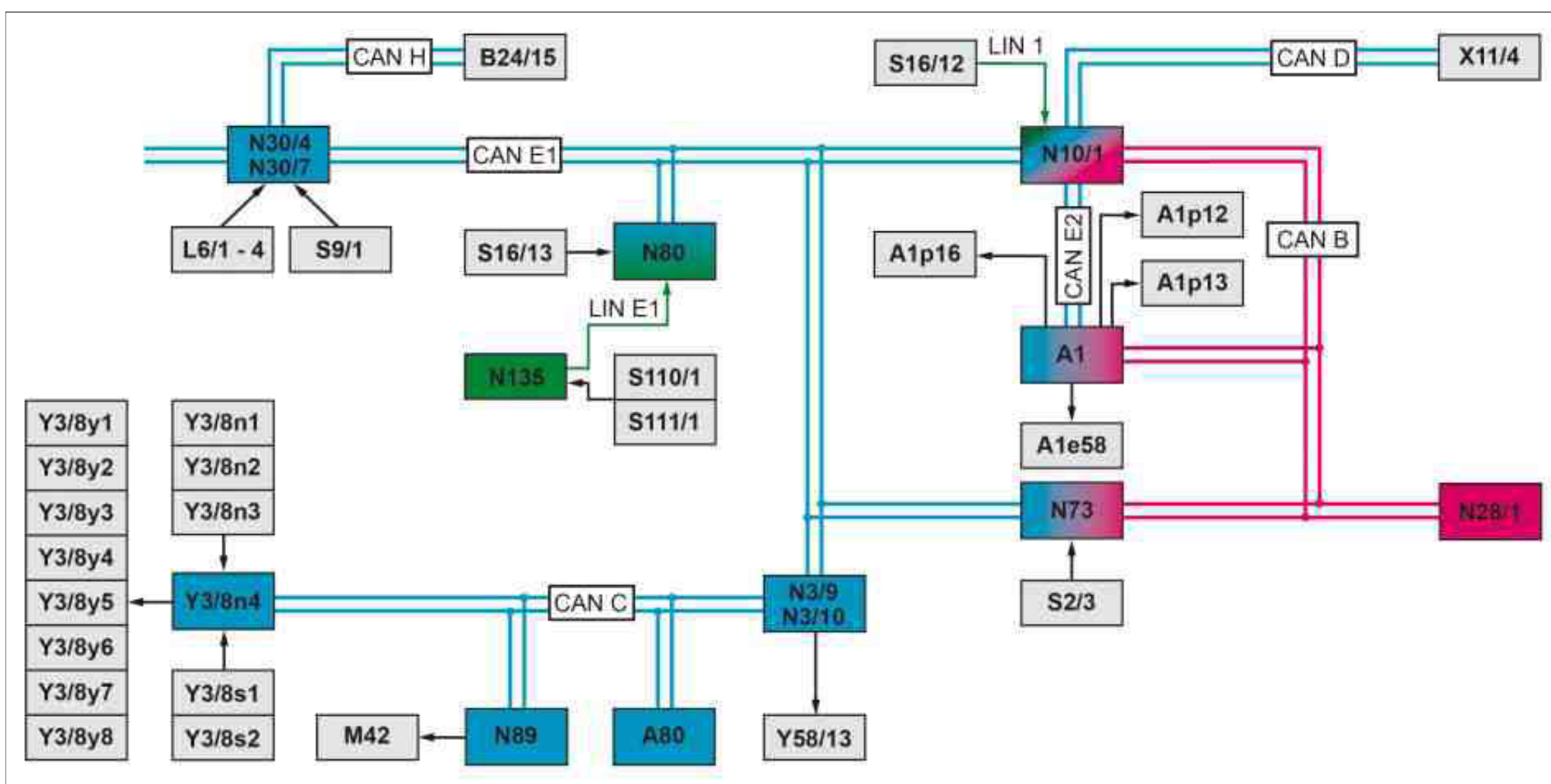
Transmission722.9 (except 722.930/931) in model 212



P27.19-2479-79

Block diagram, up to facelift 13

A1	Instrument cluster	N3/9	CDI control unit (with diesel engines)	X11/4	Diagnostic connector
A1e58	Engine diagnosis indicator lamp	N3/10	ME-SFI control unit (with gasoline engines)	Y3/8n1	Turbine wheel rpm sensor
A1p12	Gear indicator	N10/1	Front SAM control unit with fuse and relay module	Y3/8n2	Internal transmission speed rpm sensor
A1p13	Multifunction display	N10/2	Rear SAM control unit with fuse and relay module	Y3/8n3	Output shaft rpm sensor
A1p16	Transmission mode display	N28/1	Trailer recognition control unit (with code (550) Trailer hitch)	Y3/8n4	Fully integrated transmission control control unit
A80	Intelligent servo module for DIRECT SELECT	N30/4	Electronic Stability Program control unit (except code (233) DISTRONIC PLUS)	Y3/8s1	Selection range sensor
CAN B	Interior CAN	N30/7	Premium Electronic Stability Program control unit (vehicles with code (233) DISTRONIC PLUS)	Y3/8s2	Transmission oil temperature sensor
CAN C	Drive train CAN	N73	Electronic ignition switch control unit	Y3/8y1	Working pressure control solenoid valve
CAN D	Diagnostic CAN	N80	Steering column module control unit	Y3/8y2	Clutch control solenoid valve K1
CAN E	Chassis CAN	N89	Transmission oil auxiliary pump control unit (with code (B03) ECO start/stop function)	Y3/8y3	Clutch control solenoid valve K2
L6/1	Left front axle rpm sensor	N135	Steering wheel electronics	Y3/8y4	Clutch control solenoid valve K3
L6/2	Right front axle rpm sensor	S2/3	KEYLESS-GO stop/start button (with code (889) Keyless Go)	Y3/8y5	Multidisk brake control solenoid valve B1
L6/3	Left rear axle rpm sensor	S9/1	Stop lamp switch	Y3/8y6	Multidisk brake control solenoid valve B2
L6/4	Right rear axle rpm sensor	S16/12	A/T transmission mode button	Y3/8y7	Multidisk brake control solenoid valve B3
LIN 1	Instrument panel LIN	S16/13	DIRECT SELECT lever	Y3/8y8	Torque converter lockup clutch control solenoid valve
LIN E1	Steering LIN	S110/1	Downshift steering wheel gearshift button (with code (428) Steering wheel shift paddles)	Y58/13	Heat exchanger shutoff valve (with engine 651.9 as of model year 2011 /AEJ 10)
M42	Electrical transmission oil pump (with code (B03) ECO start/stop function)	S111/1	Upshift steering wheel gearshift button (with code (428) Steering wheel shift paddles)		



Block diagram, as of facelift 13

A1	Instrument cluster	LIN E1	Steering LIN	X11/4	Diagnostic connector
A1e58	Engine diagnosis indicator lamp	M42	Electrical transmission oil pump (with code (B03) ECO start/stop function)	Y3/8n1	Turbine wheel rpm sensor
A1p12	Gear indicator	N3/9	CDI control unit (with diesel engines)	Y3/8n2	Internal transmission speed rpm sensor
A1p13	Multifunction display	N3/10	ME-SFI control unit (with gasoline engines)	Y3/8n3	Output shaft rpm sensor
A1p16	Transmission mode display	N10/1	Front SAM control unit with fuse and relay module	Y3/8n4	Fully integrated transmission control control unit
A80	Intelligent servo module for DIRECT SELECT	N28/1	Trailer recognition control unit (with code (550) Trailer hitch)	Y3/8s1	Selection range sensor
B24/15	Yaw rate, lateral and longitudinal acceleration sensor	N30/4	Electronic Stability Program control unit (except code (233) DISTRONIC PLUS)	Y3/8s2	Transmission oil temperature sensor
CAN B	Interior CAN	N30/7	Premium Electronic Stability Program control unit (vehicles with code (233) DISTRONIC PLUS)	Y3/8y1	Working pressure control solenoid valve
CAN C	Drive train CAN	N73	Electronic ignition switch control unit	Y3/8y2	Clutch control solenoid valve K1
CAN D	Diagnostic CAN	N80	Steering column module control unit	Y3/8y3	Clutch control solenoid valve K2
CAN E1	Chassis CAN 1	N89	Transmission oil auxiliary pump control unit (with code (B03) ECO start/stop function)	Y3/8y4	Clutch control solenoid valve K3
CAN E2	Chassis CAN 2	N135	Steering wheel electronics	Y3/8y5	Multidisk brake control solenoid valve B1
CAN H	Vehicle dynamics CAN	S2/3	KEYLESS-GO stop/start button (with code (889) Keyless Go)	Y3/8y6	Multidisk brake control solenoid valve B2
L6/1	Left front axle rpm sensor	S9/1	Stop lamp switch	Y3/8y7	Multidisk brake control solenoid valve B3
L6/2	Right front axle rpm sensor	S16/12	A/T transmission mode button	Y3/8y8	Torque converter lockup clutch control solenoid valve
L6/3	Left rear axle rpm sensor	S16/13	DIRECT SELECT lever	Y58/13	Heat exchanger shutoff valve (with engine 651.9 as of model year 2011 /AEJ 10)
L6/4	Right rear axle rpm sensor	S110/1	Downshift steering wheel gearshift button (with code (428) Steering wheel shift paddles)		
LIN 1	Instrument panel LIN	S111/1	Upshift steering wheel gearshift button (with code (428) Steering wheel shift paddles)		