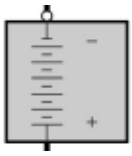
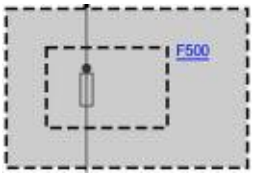
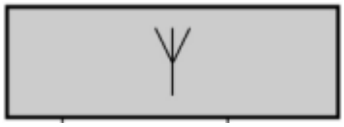
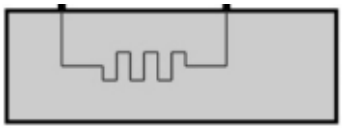
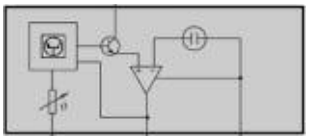
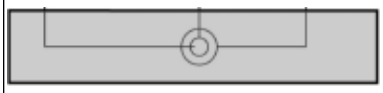
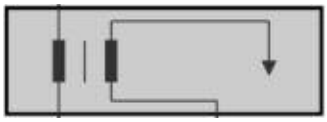
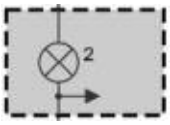
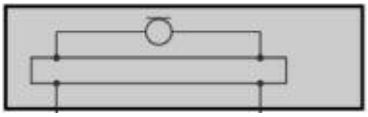
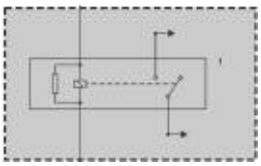
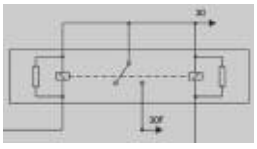
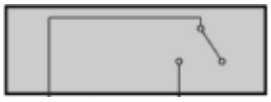
Wiring Diagram Symbols

Battery	Fuse	Antenna
		

Heating Element	Hot Film Air Mass Meter	Aux-In Connector
		

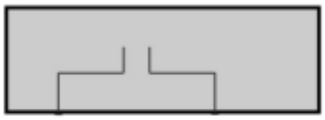
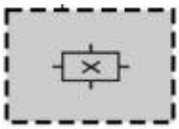
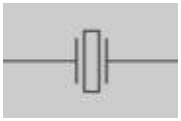
Ignition Coil	Inflator Assembly	USB Connector
		

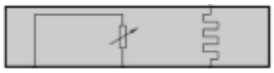
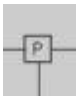
Light Bulb	LED	Microphone
		

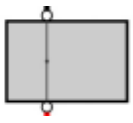
Relay	Bistable Relay	Switch
		

Wiring Diagram Symbols (cont.)

Permanent Magnet Motor	Permanent Magnet Motor	PMM (3 Phase)
		

Brake Pad Sensor	Hall Sensor	Knock Sensor
		

O_2 Sensor (before CAT)	O_2 Sensor (after CAT)	Pressure Sensor
		

Wheel Speed Sensor	Terminal Point	Safety Battery Terminal
		

Solenoid	Solenoid Control Valve	Solenoid Magnetic Clutch
		

Wiring Diagram Symbols (cont.)

Control Unit	Transistor (NPN)	Variable Resistor
		

Var Resistor (temp sensor)	Variable Resistor	Speaker
		

NOTES

Wire Color Abbreviations

Abbreviation	English	*German*
TR	Transparent	*Transparent*
WS	White	*Weiß*
VI	Purple	*Violett*
BL	Blue	*Blau*
BR	Brown	*Braun*
GE	Yellow	*Gelb*
GR	Gray	*Grau*
GN	Green	*Grün*
OR	Orange	*Orange*
RS	Pink	*Rosa*
RT	Red	*Rot*
SW	Black	*Schwarz*

Wiring Diagrams in Color

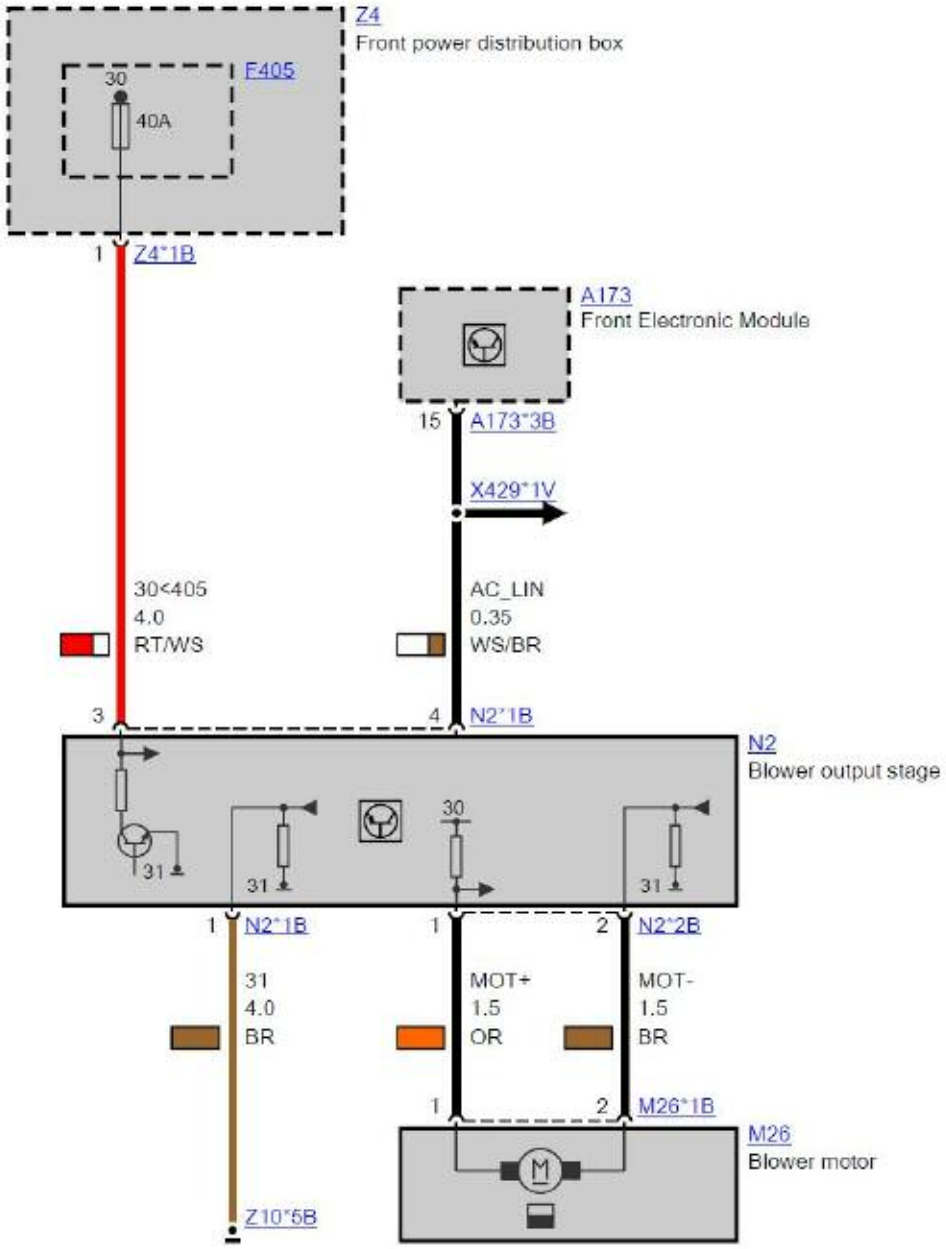
As of ISTA version 2.25 the wiring diagrams are color coded.

The following color characteristics were selected:

Red = Wiring for voltage supply

Brown = Wiring for ground

SSP-SP0000054291_Blower (F30)



All other wiring have a color label in a rectangle next to the wiring color. The distribution of color labels in the rectangular represent the actual color of the wiring. The wiring diagrams for further series will be displayed in color as well.

Two new symbols are optionally available on the top left of the wiring diagram:

 Hotspot for the wiring diagram legend explaining the symbols and wiring colors.

 Hotspot for colored Functional Wiring Diagrams that show the complete system.

Click on the Eye symbol and a message appears stating that no continuing documents can be displayed on the right. Click OK to acknowledge this message. Then click the Documents button. Matching overviews of functions are then displayed.

Component Descriptions

On the basis of electrical component codes (e.g. B11: ride height sensor, rear left) the system started to create standardized “Brief component descriptions” (FUB, FTD).

When the user selects the hotspot for a component on the wiring diagram, the brief component description will be shown with its own tab.

Information search with text search!
Beginning with version ISTA 2.23, procedures and service functions can no longer be found via the text search. The search for procedures therefore needs to be performed via the function network. Service functions can only be searched for via the service functions selection feature.

Terminal Designations

TERMINAL	CIRCUIT
B+	Battery Positive
B-	Battery Negative
KL*	Standardized Abbreviation for Terminal Number
KL_0	Ignition Switch Off
KL_R	Voltage Ignition Switch in ACC
KL_15	Voltage Ignition Switch ON
KL_15N	BN2020, Voltage Ignition Switch ON
KL_15U/15i	Voltage Ignition Switch ON
KL_15WUP	Wake-up
KL_30	12V at All Times (Relay Work Power), Hot
KL_30g	12V with Time Disconnection
KL_30B	BN2020. 12V with Time Disconnection
KL_30g-f	12V with Fault Disconnection
KL_30F	BN2020. 12V with Fault Disconnection
KL_30H	Starter Signal
KL_31	Ground
KL_31E	Electronic Ground
KL_31L	Load Ground
KL_50	Voltage Ignition Switch Start (Crank)
KL_58	Interior Lighting Dimmer Signal
KL_61	Ground with Alternator Output, 12V
KL_85	Relay Coil Ground (Signal) Control Side
KL_86	Relay Coil B+ Control Side
KL_87	Relay Output Work Side
KL_87a	Relay Output Work Side at Rest

*KL = ***KL***emme* (German for Terminal)