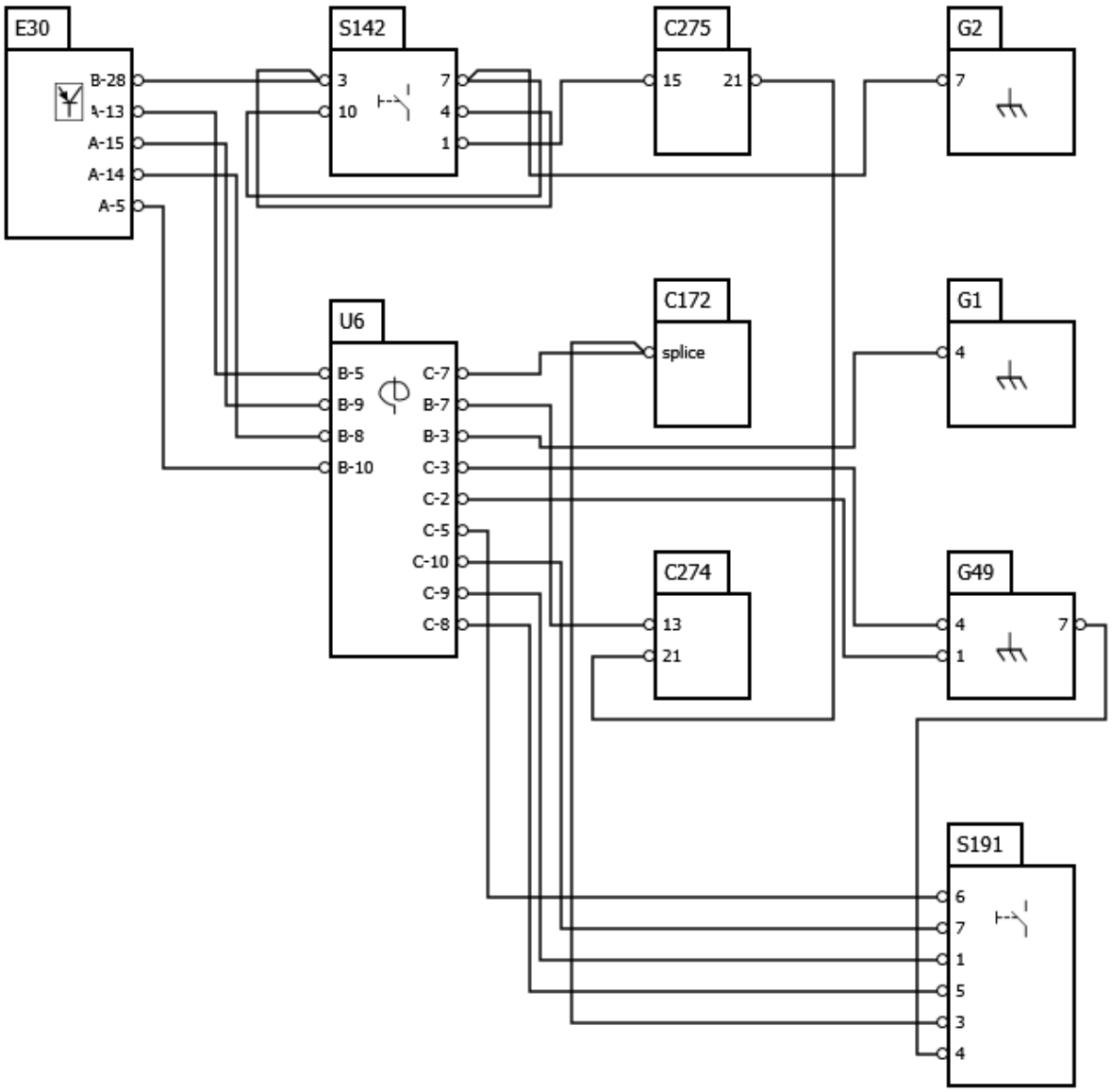
YS2R6X400E9183544 / COO, Coordinator / E 30, COO control unit / COO7 / S, Switches / S191, Switch for cruise control functions



S191, Switch for cruise control functions

S191, Switch for cruise control functions

The circuit covers the functions controlled by the S191 switch module on the steering wheel and the S142 or S160 switch on the instrument panel. The circuit also includes clock spring U6 between the steering column and steering wheel.

S191, Switch module for cruise control functions The module consists of a maximum of three different switches. The number of switches is dependent on the vehicle's configuration.**S142, Main switch for the cruise control**The switch activates the cruise control

- To the left is the switch for the cruise control's different functions. It has four spring-loaded positions and is always combined with the cruise control's main switch S142 or S160 in the instrument panel. A unique voltage value is sent to the coordinator for each position.
- The adaptive cruise control switch is located in the middle. It has two spring-loaded positions and is always combined with the cruise control's main switch S160 in the instrument panel. A unique voltage value is sent to the coordinator for each position.
- The switch for downhill speed control is on the right. It has four spring-loaded positions, with a unique voltage value sent to the coordinator for each position.

for vehicles on which the other cruise control functions are controlled via switches on the steering wheel.The switch has two fixed positions - activated and deactivated cruise control. When the cruise control is activated, the switch sends a grounding signal to the coordinator.**S160, Main switch for cruise control and adaptive cruise control**The switch activates the cruise control or the adaptive cruise control for vehicles on which the other cruise control functions are controlled via switches on the steering wheel.**U6, Clock spring**The clock spring comprises a number of wires which are rolled up on a coil. Its function is to transmit signals between the vehicle and the steering wheel. The transmitted signals are:

- signals to switches
- symbol lighting to switches.
- signals to the horn
- signals to the airbag

Activation of cruise control

Status of coordinator pin B28. Active at closed circuit and 0 V. When this function is active, other cruise control functions remain inactive.

Cruise control operation, voltage value

Voltage on coordinator pin A14. When short circuited to ground: 0 V. When short circuited to a current carrying circuit: 24 V.

Cruise control operation, increasing speed

Status is calculated with respect to the voltage level on coordinator pin A14. Active when the speed increase button (+) on the cruise control switch is depressed. Note that as long as the cruise control deactivation function is active, this function will remain inactive.

Cruise control operation, reducing speed

Status is calculated with respect to the voltage level on coordinator pin A14. Active when the speed reduction button (-) on the cruise control switch is depressed. Note that as long as the cruise control deactivation function is active, this function will remain inactive.

Cruise control operation, RES position

Status is calculated with respect to the voltage level on coordinator pin A14. Active when the RES button on the cruise control switch is depressed. Note that as long as the cruise control deactivation function is active, this function will remain inactive.

Cruise control operation, temporary disengagement

Status is calculated with respect to the voltage level on coordinator pin A14. Active when the OFF button on the cruise control switch on the steering wheel is depressed.

Switch for downhill speed control, voltage value

Voltage on coordinator pin A15.When short circuited to ground: 0 V.When short circuited to a current carrying circuit: 24 V.When there is an interruption: 5 V.

Downhill speed control, increasing brake offset

The status is calculated with respect to the voltage level on coordinator pin A15. Active when the increase button on the downhill speed control switch is depressed.

Downhill speed control, decreasing brake offset

The status is calculated with respect to the voltage level on coordinator pin A15. Active when the decrease button on the downhill speed control switch is depressed.

Downhill speed control, reactivation

The status is calculated with respect to the voltage level on coordinator pin A15. Active when the "Res" button on the downhill speed control switch is depressed.

Deactivation of downhill speed control

The status is calculated with respect to the voltage level on coordinator pin A15. Active when the OFF button on the downhill speed control switch is depressed.