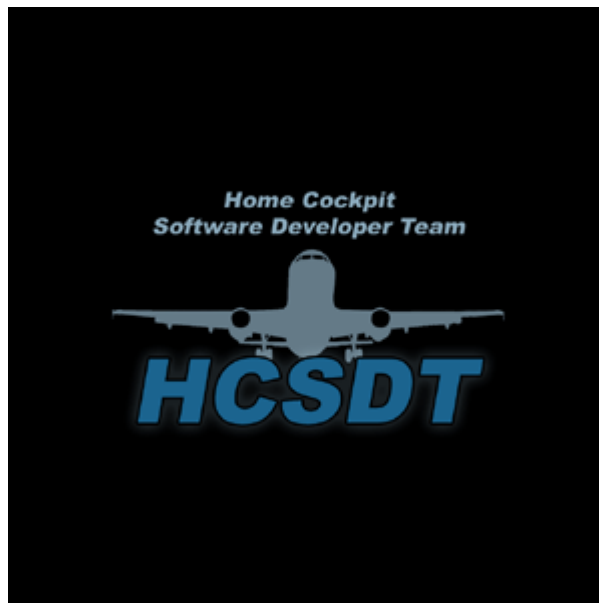


# A320 Systemware

## ELECTRIC

A320 Overhead and ECAM Software for Microsoft Flight simulator 2002

By

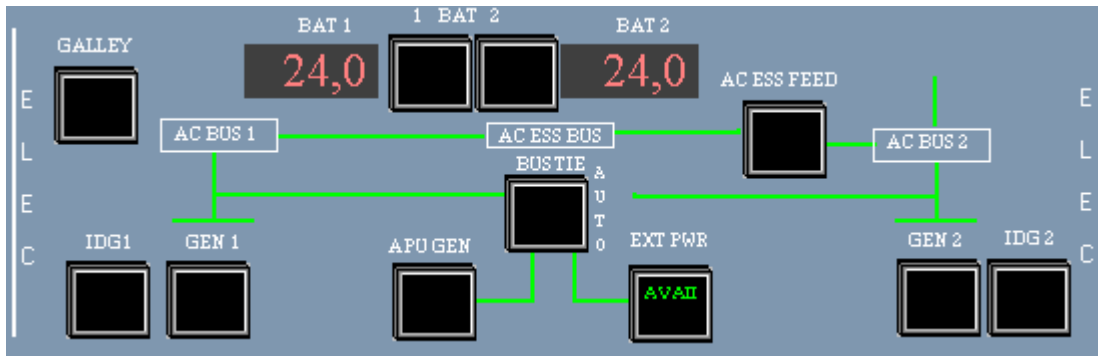


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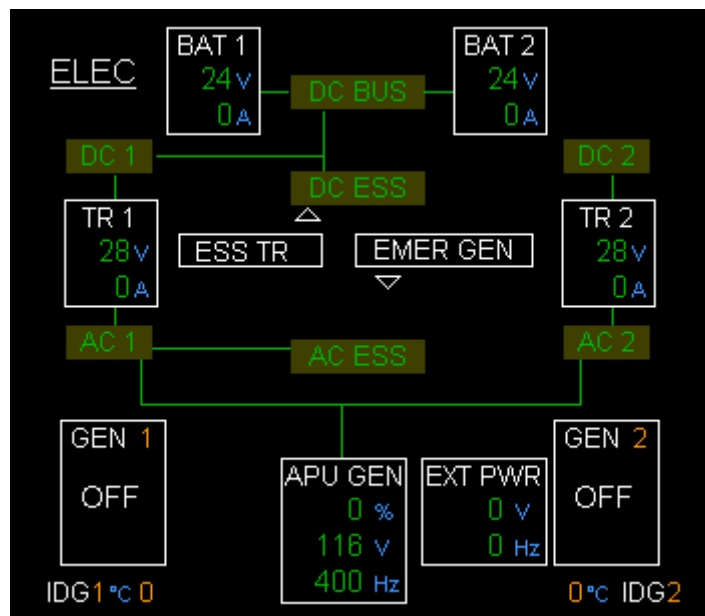
Holger Johannsen and Steffen Herberg

The main busses are the AC1, AC2, AC ESS, DC1, DC2, DC BATT and DC ESS BUS.

# A320 Panel guide electric

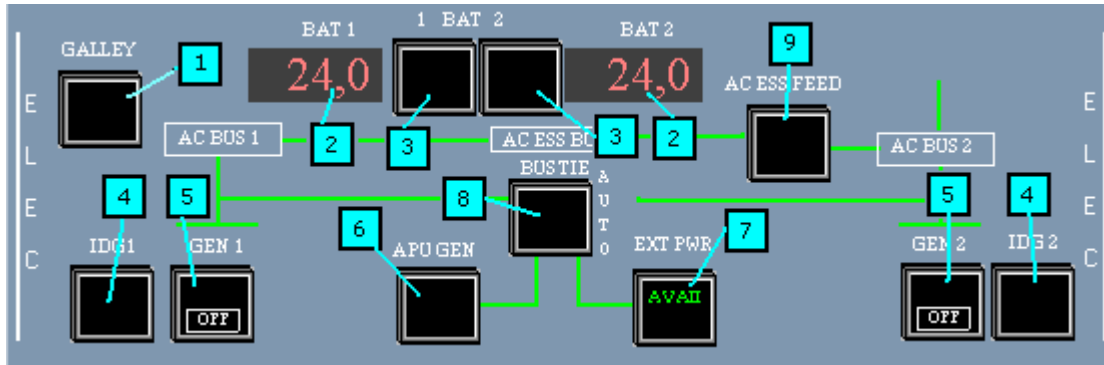


The BUS TIE is managed of a tie bus computer.



Electric page on the SYSTEM DISPLAY

# A320 Panel guide electric



## No 1. GALLEY

The Galley is the kitchen of an airplane. Here can you power the kitchen or not.

The Galley works only with AC Power.

## No 2. BATTERY VOLT INDICATOR

The battery volt indicator shows the state of the batteries. Minimum 17 Volt Maximum 28 Volt. Will always show the volts also when the battery switches are off.

## No 3. BATTERY SWITCHES

The battery switches are used to disconnect or connect the batteries to the DC battery bus. An off light will illuminate if the battery is off. Are all electric power off, then the off light in the button will go off too!

The fault light will illuminate if the volt will get lower then 19 Volt.

## No 4. IDG SWITCH

The IDG switch is only used in an emergency or fault situation. The generator shaft disconnects from the engine when pressing the IDG switch, and can only be connected again on the ground by maintenance. The **FAULT** light can illuminate in case of an IDG fault. Or in the engine start and shutdown phase!

## No 5. GEN SWITCH

The GEN switch can be used to disconnect or connect the electric generator 1 and 2 source to the aircraft AC network. In case of a fault and amber **FAULT** light will illuminate in the button!

You will maybe notice a fault light in the switch in the engine startup or shutdown phase. These are OK! Only if the fault is shown on the upper engine display, you have to manage a problem!

# A320 Panel guide electric

## No 6. APU SWITCH

The APU GEN switch can be used to disconnect or connect the electric APU generator source to the aircraft AC network. In case of a fault and amber **FAULT** light will illuminate in the button!

## No 7. EXTERNAL POWER SWITCH

The external power switch is used to disconnect and connect GPU electricity from/to the aircraft. A green AVAIL light shows that the GPU is connected. A Blue ON light shows that the connector is closed to deliver power!

## No 8. BUS TIE SWITCH

The BUSTIE switch is normal in the auto position and controls the input sources to the AC busses. At the off state a white OFF light show that all connectors are open and the AC busses (AC1, AC2, APU, and GPU) are separated.

## No. 9 AC ESS BUS

The AC ESS BUS is the bus that feeds the most critical systems of the aircraft. In the normal position of the switch, will AC1 BUS feed the AC ESS BUS. If you press the switch you will a blue ALTN (ALTERNATE) light that indicates that the AC ESS BUS is feed by the AC 2 BUS. A fault light will illuminate in case of a fault!