AIRPLANE CONFIGURATION - IN FLIGHT
BATTERY SWITCH - ON
STANDBY POWER SWITCH - AUTO
BUS TRANSFER SWITCH - AUTO
ENGINE GENERATOR CONNECTED TO RELATED BUS
### 115 VAC TRANSFER BUS 1

Normal power – IDG 1. Alternate power – XFR bus 2 via BTB's.

- **28 VAC XFR BUS**
- APU START CONVERTER
- B SYS ELEC HYDR PUMP
- BOOST PUMP TANK 1 FWD
- BOOST PUMP TANK 2 AFT
- EQUIP COOL SUPPLY FAN ALT
- GALLEY BUS C & D
- GROUND SERVICE BUS 1
- MAIN BUS 1
- MIDU
- TEMP CONT 35 DEG L
- TEMP CONTL
- TEMP CONT MAN
- TRU 1
- TRU 3 ALT
- VACUUM WASTE BLOWER
- XFR BUS 1 SEC 1
- XFR BUS 1 SEC 2

### YAW DAMPER INDICATION

---

### 115 VAC TRANSFER BUS 1 - Sect 2

Power – XFR bus 1

- **AC STBY BUS**
- ACARS MU AC
- AIRCO PACK CONT LEFT AC
- BLEED AIR ISLN VALVE
- CMU 1 AC
- PRINTER
- RAM AIR MOD LEFT
- TEMP CONT VALVE CLOSE L
- TEMP VALVE/FAN CONT AFT CABIN
- WINDOW HEAT POWER L1, L3, L4 & L5
- WINDOW HEAT POWER R SIDE

---

### 115 VAC TRANSFER BUS 1 - Sect 1

Power – XFR bus 1

- **28 VAC XFR BUS 1 SEC 1**
- AFCS A SNSR EXC AC
- ALPHA VANE HEATER LEFT
- ANTI COLLISION LIGHT RED
- ANTI COLLISION LIGHT WHITE
- BOOST PUMP CTR TANK LEFT
- CAPT PITOT HEATER
- DATA LOADER
- ELEVATOR PITOT LEFT
- ENG 1 LEFT IGNITION
- ENG 1 ALT POWER CHN B
- ENG 1 ALT PWR CHN A
- FLIGHT REC AC
- GROUND PROX WARNING
- HF 1
- L FIXED LANDING LIGHT
- MACH TRIM A AC
- R RETRACTABLE LANDING LIGHT
- RADIO ALT 1
- STAB TRIM AFCS
- TCAS
- TEMP PROBE HEATER
- WINDOW HEAT CONTROL L FRONT AC
- WINDOW HEAT CONTROL L SIDE AC
- WING ANTI ICE VALVE

---

### 115 VAC TRANSFER BUS 2

Normal power – IDG 2. Alternate power – XFR bus 1 via BTB’s

- **28 VAC XFR BUS 2**
- A SYS ELEC HYDR PUMP
- AIRCO PACK CONT RIGHT AC
- BOOST PUMP CTR TANK RIGHT
- BOOST PUMP TANK 1 AFT
- BOOST PUMP TANK 2 FWD
- EQUIP COOL EXH FAN ALT
- EQUIPCOOL SPLF FAN NORM
- GALLEY BUS A & B
- GROUND SERVICE BUS 2
- MAIN BUS2
- STBY HYDR PUMP
- TEMP CONT VALVE CLOSE R
- TEMP VALVE/FAN CONT FLT DECK
- TEMP VALVE/FAN CONT FWD CABIN
- TRU 2
- TRU 3
- XFR BUS 2 SEC 1
- XFR BUS 2 SEC 2
<table>
<thead>
<tr>
<th>B737NG POWER SOURCES</th>
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### 115 VAC TRANSFER BUS 2 - Sect 1

- Power – XFR bus 2
  - ALPHA VANE HEATER RIGHT
  - AUX PITOT HEATER
  - ELEVATOR PITOT RIGHT
  - FO’S PITOT HEATER
  - HEAD UP GUIDANCE DEU ALTN AC
  - L RETRACTABLE LANDING LIGHT
  - R FIXED LANDING LIGHT
  - VOICE RECORDER
  - WINDOW HEAT CONTROL L SIDE AC
  - WINDOW HEAT CONTROL R FRONT AC
  - RUNWAY TURN OFF LIGHT LEFT
  - TAXI LIGHT
  - YAW DAMPER AC

### 115 VAC MAIN BUS 1

- Power – XFR bus 1
  - DOOR AREA HTR AFT
  - DOOR AREA HTR FWD
  - DRAIN HEATERS
  - DRAIN MAST HEATER AIR
  - HOSE HEATERS
  - LAV A, D & E WATER HEATER
  - LOGO LIGHT
  - RECIRC FAN LEFT
  - WATER COMPRESSOR

### 115 VAC TRANSFER BUS 2 - Sect 2

- Power – XFR bus 2
  - 115 VAC XFR BUS 2 INDICATION
  - 28 VAC XFR BUS 2 SEC 2
  - ADF 2
  - ADIRU R AC
  - AFCS B SNSR EXC AC
  - AIL TRIM CONTROL
  - ATC 2
  - BLEED AIR PRESS INDICATION
  - DME 2
  - ENG 2 LEFT IGNITION
  - ENG 2 ALT POWER CHAN B
  - ENG 2 ALT PWR CHAN A
  - ENG VIB MON
  - FLOOD LIGHT CONTROL

### 28 VAC TRANSFER BUS 2

- Power – XFR bus 2 (stepdown XFR)
  - ADIRU R EXC
  - CAPT AFT ELEX PNL LIGHT
  - CONTROL STAND LIGHT
  - ELEX PANEL LIGHT FWD
  - ELEX PANEL LT
  - FO’S AFT ELEX PNL LIGHT
  - FO’S INSTRUMENT LIGHTS 28V PRI
  - FUEL TEMP INDICATOR
  - INSTR & CB PNL LIGHTS
  - MAP& KIT LIGHT
  - OBSERVERS READING LIGHT
  - O’HEAD PNL LIGHT 5V SECONDARY
  - O’HEAD PNL LIGHT 28V PRIMARY
  - O’HEAD PNL LIGHT 28V SECONDARY
  - POS/SKIEW SENSOR & IND RIGHT
  - PRESS CONTROL LCD LIGHTING
  - READING LIGHTS RH
  - RUDDER TRIM INDICATOR
  - RUNWAY TURN OFF LIGHT RIGHT
  - SMYD 2 SNSR EXC AC
  - TE FLAP POS/SKIEW SENSOR & IND L

### 28 VAC TRANSFER BUS 1

- Power – XFR bus 1 (stepdown XFR)
  - CAPT INSTRUMENT LIGHTS 28V PRI
  - DRAIN MAST HEATERS GND
  - FASTEN SEAT BELT SIGN LEFT
  - FASTEN SEAT BELT SIGN RIGHT
  - FLIGHT REC POS SENSORS
  - LAV OCCUPIED SIGN
  - NO SMOKING SIGN LEFT
  - NO SMOKING SIGN RIGHT
  - READING LIGHTS LH

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**FOR TRAINING PURPOSES ONLY**

**UNCONTROLLED DATA**
### B737NG POWER SOURCES

#### 115 VAC MAIN BUS 2
Power – XFR bus 2

- EXT AUDIO
- MUX
- RECIRC FAN R
- VIDEO 1, 2, 3 & 4
- VIDEO CONT CENTER AC
- ZONAL DRYER

#### 115 VAC STANDBY BUS
Normal power – XFR bus 1
Alternate power – Hot Bat bus

- 115V AC STBY BUS INDICATION
- **28 VAC STBY BUS**
  - ADF 1
  - ADIRU LAC
  - ATC 1
  - DME 1
  - ENG 1 IGNITION RIGHT
  - ENG 2 IGNITION RIGHT
  - FLOOD LIGHT STBY
  - FMC 1
  - MCDU 1
  - MMR 1
  - NAV CONTR PANEL
  - RMI
  - SCU FAN POWER
  - VOR/MKR BCN 1
  - FMC COMP 2
  - FWD AIRSTAIR ACTUATOR
  - HF 2
  - MACH TRIM B AC
  - MCDU 2
  - MMR 2
  - NAV CONTR PANEL 2
  - NOSE GEAR STEERING
  - RADIO ALT 2
  - RAM AIR MOD RIGHT
  - RUDDER TRIM CONTROL
  - STAB TRIM ACTUATOR
  - TAPE REC AC
  - TE FLAP ALT DRIVE
  - TEMP CONT 35 DEG L
  - TEMP CONT AUTO RIGHT
  - VOR 2
  - WEATHER RADAR RT
  - WHEEL WELL & WING BODY O'HEAT
  - WINDOW HEAT POWER L SIDE
  - WINDOW HEAT POWER R1, R3, R4 & R5

#### 28 VDC - BAT BUS - Sect 3
Power – Bat bus

- AIR/GND SYS 2
- ALT GEAR EXTEND SOLENOID
- ANTI SKID INBOARD
- AURAL WARNING
- CLOCK DISPLAY
- CROSS FEED VALVE
- DOME LIGHT WHITE
- ENG 1 HPSOV CON
- ENG 1 HPSOV IND
- ENG 2 HPSOV CON
- ENG 2 HPSOV MD
- FUEL QUANTITY TANK 2
- LANDING GEAR LATCH & PRESS WNG
- MASTER CAUTION ANN BAT
- MASTER CAUTION ANNUN CONT 1, 2, 3 & 4
- MASTER DIM &TEST CONTROL
- MASTER DIM BAT
- STBY COMPASS LIGHTING

#### 28 VDC - SW HOT BAT BUS
Power – Battery (switch ON)

- ADIRU L DC
- ADIRU R DC
- AFCS A WARN LT (BAT)
- AFCS WARN LT (BAT)
- APU CONTROL
- APU GENERATOR CONTROL UNIT
- FWD AIRSTAIR CONTROL STANDBY
- FWD AIRSTAIR STANDBY DOOR ACTUATOR
- GENERATOR BUS PWR CONTROL UNIT
- PSEU ALTN
- SPAR VALVE INDICATION
- SWITCHED HOT BATTERY BUS INDICATION
B737NG POWER SOURCES

### 28 VDC - HOT BAT BUS
Power – Battery or Battery charger
- BAT/STBY SW POS IND
- CARGO FIRE EXT 1
- CARGO FIRE EXT 2
- CLOCK
- DC HOT BAT BUS INDICATION
- DEU 1 HOLDUP
- DEU2HOLDUP
- DUAL BATTERY REMOTE CONTROL
- ENTRY LIGHTS DIM
- EVAC SIGNAL
- FIRE EXTINGUISHER APU
- FIRE EXTINGUISHER L ALT
- FIRE EXTINGUISHER LEFT
- FIRE EXTINGUISHER R ALT
- FIRE EXTINGUISHER RIGHT
- FUEL SHUTOFF VALVES BUS
- FUELING CONTROL
- FUELING INDICATORS
- GND SERVICE CONTROL
- GND SERVICE DC HOT BATTERY
- PARKING BRAKE
- SPCU STBY
- TR 3 XFR RELAY CONT

### 28 VAC GROUND SERVICE BUS 1
Power – 115 VAC Ground service bus 1
- COMPARTMENT ACCESS LIGHT
- LIGHTS FWD ELECTRONIC RACK
- NIGHT LIGHT CONTROL
- THRESHOLD LIGHT
- WORK & THRESHOLD LIGHT

### 28 VDC GROUND SERVICE BUS
Normal power – DC bus 1
Alternate power – Hot BB
- AFT CARGO LOADER CONT
- CABIN UTIL RLY PWR
- ENTRY LIGHTS AUTO PWR
- EXHAUST FAN CONT NORMAL
- FWD CARGO LOADER CONT
- PSEU PRIMARY
- VACUUM CARGO
- WASTE WATER LINE HEATERS

### 28 VAC STANDBY BUS
Normal power – XFR bus 1
Alternate power – Hot BB via inverter
- ADIRU L EXC
- EMERGENCY PANEL LIGHT (via 5 VAC stepdown XFR)
- SMYD 1 SNSR EXC AC

### 115 VAC GROUND SERVICE BUS 1
Normal power – XFR bus 1 or external power when available
- 28V AC GND SERVICE BUS 1
- AFT CARGO LOADER DRIVE
- AUX BATTERY CHARGER
- CEILING LIGHT LEFT
- CEILING LIGHT RIGHT
- ENTRY LIGHT BRIGHT
- EQUIP COOL EXH FAN NORM
- FWD CARGO LOADER DRIVE
- GND SERVICE BUS 1 SEC 1

### 28 VDC BUS 1
Normal power – TR1
Alternate power – TR2 or TR3
- AFCS A RUDDER DC
- APU FIRE SWITCH
- B SYS ELEC HYDR PUMP CONT
- BUS PWR CONTROL UNIT
- DC BUS 1 SEC 1
- DC BUS 1 SEC 2
- DC BUS 1 XFR
- DC STBY BUS SEC 1
- DC STBY BUS SEC 2
- ELEX PNL AFT CENTER
- GENERATOR 1 LOAD SHED
- MASTER DIM SEC 7
- MASER DIM SECTION 1, 2, 3 & 4
- PACK CONT VALVE L ALT
- RAM AIR MOD CONT L
- SPCU NORMAL
- VACUUM WASTE CONT
# B737NG Power Sources

## 115 Vac Ground Service Bus 2
- Normal power – XFR bus 2 or external power when available
- **WATER DRAIN VALVE**
- **WATER QTY INDICATION**

## 28 Vac Ground Service Bus 2
- Power – 115V AC Ground service bus 2
- **28 VAC GND SERVICE BUS 2**
  - BATTERY CHARGER
  - GALLEY LIGHT
  - SERVICE OUTLET
  - VAC OUTLET AFT
  - VAC OUTLET FWD
  - WINDOW LIGHT LEFT
  - WINDOW LIGHT RIGHT

## 28 VDC Bus 1 - Sect 1
- Normal power – DC bus 1
- **28 VDC BUS 1 - Sect 1**
  - AFCS A ENGAGE INTLK
  - AFCS A RUDDER DC (Cat IIIb)
  - AUTO THROTTLE DC 1
  - CABIN CREW CALL
  - CARGO FIRE DETECTOR AFT A
  - CARGO FIRE DETECTOR FWD A
  - CHARGER L AFT
  - CHARGER R AFT
  - DOOR AREA HEAT CONT
  - EMER EXIT LT CHARGER FWD
  - ENG 1 COWL ANTI ICE VALVE
  - ENG 1 RUN/PWR
  - ENG 1 THRUST REVERSER IND
  - FCC A DC
  - FLIGHT RECORDER DC
  - FMC BITE DC
  - HEAD UP GUIDANCE CMPTR DC
  - HEAD UP GUIDANCE CONT PNL DC
  - LAV SMOKE
  - LIGHT CONT
  - LOW FLOW DETECT EXHAUST
  - MACH TRIM A DC
  - MCP DC 1
  - PASSENGER SIGN CONTROL
  - PAX CALL LEFT
  - RECIRC FAN L CONT
  - SELCAL
  - TERRAIN DISPLAY
  - WINDSHIELD WIPER LEFT
  - YAW DAMPER 1 & 2 DC

## 28 VDC Bus 2
- Normally power – TR2
- Alternate power – TR3 or TR1
- **28 VDC BUS 2**
  - A SYS ELEC HYDR PUMP CONT
  - AFCS B RUDDER DC
  - AFCS INTLK 2
  - APU GENERATOR CONTROL UNIT
  - CAPT AUDIO
  - CARGO LIGHT CONTROL
  - DC BUS 2 SEC 1
  - DC BUS 2 SEC 2
  - DC BUS 2 XFR
  - ENG 1 SPAR VALVE
  - ENG 2 SPAR VALVE
  - ENT AUDIO DC
  - F/O'S AUDIO
  - FORCE FIGHT MONITOR
  - GENERATOR 2 LOAD SHED
  - INTERPHONE AND WARNING
  - MASTER DIM SECTION 5, 6, 7 & 8
  - MIX VALVE POS IND
  - OBERSERVERS AUDIO

## 28 VDC Bus 1 - Sect 2
- Normal power – DC bus 1
- **28 VDC BUS 1 - Sect 2**
  - **28 VDC GND SVCE BUS 1**
  - 28 VDC SERVICE OUTLETS
  - AIR/GND SYS 1
  - AIRCO PACK CONT LEFT DC
  - ANTI SKID OUTBOARD
  - AUTOBRAKE BITE CONT 1
  - AUTOSLAT DC 1
  - BLEED AIR VALVE LEFT
### B737NG POWER SOURCES

- BLEED AIR XDCR LEFT
- CAPT PROBE IND
- CMU / ACARS DC
- DC BUS 1 INDICATION
- ELT
- ENG 2 HYDR PUMP DEPRESS VALVE
- EQUIP COOL SPLY FAN COW ALT
- FLAP LOAD RELIEF
- FLAP SHUT OFF VALVE
- FLIGHT CONT SHUT OFF VALVE CONT
- FSEU DC 1
- FUEL CTR TKR L AUTO SHUTOFF VLVS
- FUEL QUANTITY TANK 1
- LDG XFR VALVE PRIMARY
- LDG XFR VALVE SECONDARY
- MASTER CAUTION ANN BUS 1
- MASTER DIM BUS 1
- O'WING EXIT FLIGHT LOCK LEFT
- PRESS CONTROL AUTO 1
- PSEU PRIMARY
- PTU VALVE CONT 1
- PTU VALVE CONT 2
- RAM AIR CONT LEFT

### 28 VDC BUS 2 - Sect 1

**Normal power – DC bus 2**

- AUTOTHRUSTLE DC 2
- CARGO FIRE DETECTOR AFT B
- CARGO FIRE DETECTOR FWD B
- EMERG FLASHLIGHT CHARGER
- ENG 2 ANTI ICE CONTROL
- ENG 2 COWL ANTI ICE VALVE
- LOW FLOW DETECT SUPPLY
- PAX CALL RIGHT
- VHF COMM 3
- VOICE REC RELAY
- WINDSHIELD WIPER RIGHT

### 28 VDC BUS 2 - Sect 2

**Normal power – DC bus 2**

- AFCS B ENGAGE INTERLOCK
- AFCS B Rudder DC (Cat 1llb)
- AIR/GND RELAY

### 28 VDC - STANDBY BUS - Sect 1

**Normal power – TR1**
Alternate power – Hot BB

- CAPT EFIS CONT PANEL
- CAPT INBOARD DISPLAY
- CAPT OUTBOARD DISPLAY

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*FOR TRAINING PURPOSES ONLY*
### B737NG POWER SOURCES

#### 28 VDC - BAT BUS - Sect 1

Power – Battery bus

- ENG 1 AND WING ANTI ICE CONTROL
- ENG 1 START LEVER CHAN A
- ENG 1 START LEVER CHAN B
- ENG 1 START VALVE
- OXYGEN INDICATION
- OXYGEN MANUAL CONTROL
- PAX OXYGEN LEFT
- PAX OXYGEN RIGHT
- STBY ATT IND

#### 28 VDC - STANDBY BUS - Sect 2

Normal power – TR1
Alternate power – Hot BB

- DC INDICATION STBY BUS
- GENERATOR CONTROL UNIT 2

#### 28 VDC - BAT BUS

Normal power – TR3
Alternate power – Battery

- AIR CONDITION O'HEAT
- BATT BUS SEC 1
- BATT BUS SEC 2
- BATT BUS SEC 3
- ENT PA SYS BAT
- EXHAUSTVALVE RECONFIG CONT
- ISFD

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