2010 Sikorsky S76C++
Serial Number: 760750
N722JE

AIRCRAFT SERVICES GROUP INC

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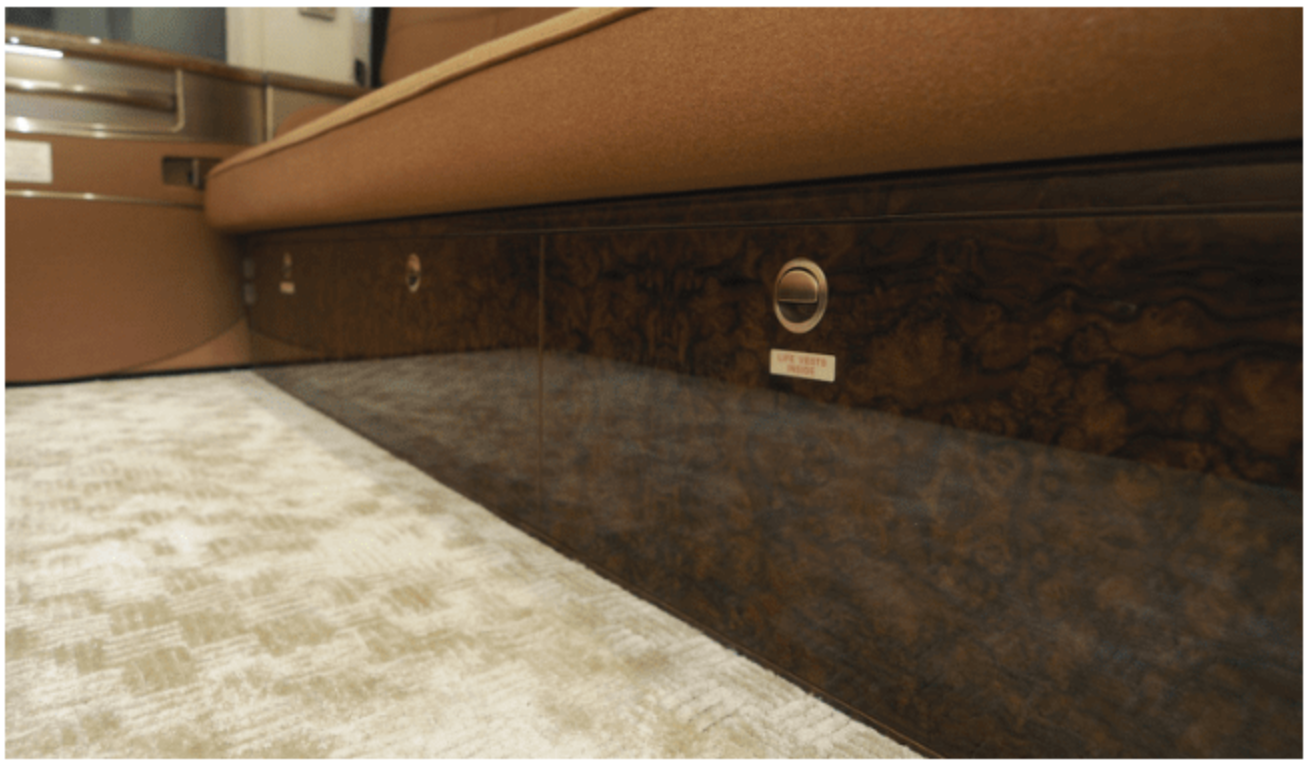

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SIKORSKY AIRCRAFT

SYSTEM SPECIFICATION

Air Ghislaine 2
S-76C++ Aircraft
DELUXE EXECUTIVE CONFIGURATION

SYS76-00121 Air Ghislaine Rev C
Customer: Air Ghislaine 2
Revision: C
August 3, 2009

Document Revision History

REV	CHANGED BY	REVIEWED BY	DESCRIPTION	DATE
-	TSL	MP	Original Release. Prepared IAW PWA	9/19/08
A	TSL		• Updated configuration based on adds and deletes from Contract Amendment 1 (as listed in CCD) • Reformatted and rearranged layouts and tables in second half of document. • Corrected several items in Standard Equipment section: ○ Engine oil, MGB oil, EFIS symbol generator, AHRS • Edited database matrix to specifically list all data transfer hardware • Edited description of 86054 • Added clarification to 90037 • Edited Database Matrix to specify ChartView region to be loaded prior to delivery	6/18/09
B	DK	TSL	• Edited option 90025 to specify that True North sat phone system is to be used • Edited options 90036, 37 to change audio source from Com1 to Com2 • Edited nomenclature on lighting switch panels (p. 19) • Corrected option 90039 by adding fourth audio source (VHF #2)	7/20/09
C	AMR		Deleted 90051, customer will supply carpet	8/3/09

GENERAL SPECIFICATIONS

PROPULSION

- Two Turbomeca Arriel 2S2 Engines
- Full Authority Digital Engine Control (FADEC) w/ Pilot and Copilot inop lights (two)
- Displayed on IIDS Performance Displays
  - T5 - Power Turbine Inlet Temperature
  - N1 - Gas Turbine w/ 30 sec. and 2 min. indication
  - TQ - Torquemeter
  - N_2/N_R - Triple Tachometer
  - O/S - Engine Overspeed, BV - Bleed Valve position, DECU readout
- Displayed on IIDS Engine Display
  - Fuel Flow - digital readout
  - Oil Temperature/Pressure
  - Hydraulic Pressure
- Engine water wash w/ connections in Baggage Compartment
- Engine fire detection system with flame detectors and one amplifier per engine
- Engine fire extinguishing, two shot system (two)
- Dual input main gearbox - 1605 shp for takeoff
- Intermediate and tail gearboxes with interconnecting drive shafts
- Magnetic chip detectors with fuzz burn-off capability (four)
- ~~Exxon 2380 Turbo Oil (MIL-L-23699)~~
- Mobil 254 Synthetic Jet Oil (MIL-PRF-23699)
- Engine inlet barrier filters with condition monitoring display in cockpit

MAIN ROTOR SYSTEM

- Four-blade articulated main rotor system w/ one piece aluminum hub and elastomeric bearings
- Main rotor blades w/ titanium spars, fiberglass skins, honeycomb cores, high visibility paint, leading edge abrasion protection, and lightning strike protection
- Manually actuated rotor brake system
- 3P Bifilar vibration suppression system
- Overhead lateral absorber provisions
- Four-blade flexbeam tail rotor w/ lightning strike and leading edge abrasion protection
- Oil Temperature/Pressure - display on IIDS
- Sight gauges for oil level in main, tail, and intermediate transmissions
- Provisions for track and balance w/ 5 accel., 2 mag. sensors (RADS/AT - Chadwick 8500 – Fastrak)
- Free wheel units on main transmission
- ~~Exxon 2380 Turbo Oil (MIL-L-23699)~~
- BP Turbo Oil 25 Gearbox Lubricant (DOD-L-85734)

FLIGHT INSTRUMENTS

- Airspeed - refer to Avionics Package
- Altimeter - refer to Avionics Package
- IVSI - refer to Avionics Package
- Pitot-Static system, dual
- Digital electric clock, Davtron 877 (two)
- Standby magnetic compass (illuminated)
- IIDS (Integrated Instrument Display System) - panel mounted Dual Engine Performance Display (two), Engine Display, Remote Data Acquisition Unit, Dual Temperature Probe, IIDS REV Switch/Annun. (two), Scroll Switch in Center Console, Static Port connection
- Master Warning/Caution Panel, mounted in low profile Glareshield, Pilot and Copilot
- Outside Air Temperature - mechanical, IIDS (two)
- Caution/Warning/Advisory - display on IIDS

COCKPIT, FLIGHT & GROUND CONTROLS

- Primary flight - longitudinal, lateral, and directional controls provided at Pilot and Copilot stations. Conventional collective and cyclic stick controls and tail rotor pedal type controls
- Overhead Throttle Quadrant w/ mixed mode lights (two)
- Cyclic and collective stick trim controls
- Stick trim control panel
- Dual independent flight control servo systems
- Dual independent 3,000 psi hydraulic systems with quick disconnects for ground servicing
- Landing gear - fully retractable tricycle type w/ pivoting nose gear, strut remote service line and main wheel brakes, position indicators, gear up warning indicator (two), Cockpit control
- Pneumatic emergency landing gear extension system w/ externally visible pressure gauge
- Adjustable rudder pedals - fore/aft, Pilot/Copilot
- Search light directional control on collective
- Overhead master switch panels - Pilot (two), Copilot (one)
- Cabin dome lights master control
- OEI (one engine inop) training switch and light
- Provisions for emergency flotation system with nose float bottle access cover

ELECTRICAL SYSTEM

- Battery - single 25.2 volt Marathon SuperPower nickel-cadmium, 44 amp-hour, located aft of Baggage Compartment
- Battery temperature warning system
- DC Generators - two 28 VDC, 200 amps each
- DC Generator Control Unit (GCU) - provides voltage regulation, reverse current and ground fault protection, and over-voltage protection (two)
- AC Generator – one 10KVA, 115VAC Three Phase
- AC Generator Control Unit – provides voltage regulation, load protective circuits for overvoltage, undervoltage, and overcurrent.
- External power supply receptacle - 28 VDC, AN type w/ reverse polarity and over-voltage protection
- Static Inverter - refer to Avionics Package
- Power Monitor, on IIDS (volts, amps, freq.)
- Emergency Power Supply - PS 855A (2.5 AH)
- Resettable type circuit breakers

FUEL SYSTEM

- Dual fuel tanks w/ gravity fuel fillers, 281 US gallons total capacity
- Dual independent suction fuel systems w/ cross-feed capability
- Fuel quantity - displayed on IIDS w/ test and digital total of left and right tanks
- Capacitance type gauging probes
- Low level fuel warning system (two)
- Hinged fuel filler cap with key lock (two)

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Wiring provisions for auxiliary fuel

ICE & RAIN PROTECTION

Heated Glass Windshields (two)
Heated pitot and static (two)
Engine anti-ice (two)
Windshield wipers, electric - two speed w/park (pilot and copilot), exposed fasteners

LIGHTING

Cockpit
- Instrument panel, pilot and copilot
- Non-flight instruments
- Glareshield
- Console
- Utility w/coil cord on controls closet (two)

Cabin
- Exit lights, self illuminated (two)
- No smoking/fasten seat belt signs - see interior
- Emergency lights (two) w/battery pack

Baggage
- Aft compartment (two)

External
- Position - three
- Anti-collision, white strobes - three
- Anti-collision, red beacon - tail
- Fixed landing (one) - right main gear
- Controllable landing (Search) - nose
- Inspection for IGB and TGB sight gauges

CABIN COMFORT SYSTEM

Cockpit and cabin bleed air heating (25000 BTU) w/windshield defogging system
Heater control panel
Ram air ventilation system, side mounted inlets (four), cabin exhaust and valves, aft (two)
Electric ventilation blower
Ceiling gasper - cockpit dual air (two), cabin (refer to interior group)

PAINT & CORROSION PROTECTION

Refer to Paints and Finishes section
Carbide black instrument panel paint finish

COCKPIT/CABIN APPOINTMENTS

Pilot/Copilot seats - vertically adjusting, 5 point restraint/harness, lumbar support cushion, life vest storage provisions, fabric upholstery
204 cubic foot cabin with 75 PSF floor and fittings for up to twelve (12) seats
Cabin hinged entrance door w/door locks and switch, key lock and hold open device (two)
Cockpit hinged entrance door w/key lock (two) and class “A” painted interior finish
Common key locks - cockpit, cabin, baggage, (six); fuel filler caps (two)
Door open warning panel/annunciators - CKPT (two), CABIN (two), BAGG (two) and EXT PWR
Fire extinguishers (two) - cockpit, on RH side of closet; cabin, based on final interior
First aid kit w/cover, on left side of controls closet
Flame blocking on cabin seat cushions
Flooring - 75 lb/ft²
Interior placard kit (English standard)
Life vest provisions for all passenger locations
Manual holder in lower aft cockpit door (two)

BAGGAGE/CARGO COMPARTMENTS

Separate 38 cubic foot baggage compartment with left/right doors painted inside to match
Smoke detector w/cockpit indicator
Lockable door w/thumb latches (two)
Flooring - 75 lb/ft²
Cargo tie down points
Aermat floor covering
Finish - textured white epoxy structure, interior of doors painted to match aircraft fuselage

AVIONICS

Nose mounted radome
Avionics compartments, nose and tail

LOOSE TOOLS & EQUIPMENT

Aircraft fly-away kit containing:
- HEADSET/MICROPHONE
- EXHAUST COVER, ENGINE, LEFT
- EXHAUST COVER, ENGINE, RIGHT
- WALK-AROUND CORD, ICS, 30 FEET
- WALK-AROUND CORD, ICS, 6 FEET
- ADAPTER, ENGINE WASH TANK
- JUMPER ASSY, IIDS MAINTENANCE, P2294
- PIN ASSY, MLG
- PIN ASSY, NLG
- SHIELD ASSY, ENGINE INLET, R/H
- SHIELD ASSY, ENGINE INLET, L/H
- SHIELD ASSY, IGB INLET, R/H
- SHIELD ASSY, IGB INLET, L/H
- SHIELD ASSY, AFT COWL INLET, R/H
- SHIELD ASSY, AFT COWL INLET, L/H
- COVER ASSY, PITOT TUBE
- TIE DOWN, MAIN ROTOR BLADE
- COVER ASSY, ACCEL
- BLEED VALVE TUBE
- MOUNT

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BASELINE AVIONICS PACKAGE

COMM 1	Collins VHF 22A (16w minimum) with CTL 22 (118.000 - 136.975 MHz, 4 channel preset digital display), bottom mounted VHF antenna
COMM 2	Collins VHF 22A (16w minimum) with CTL 22 (118.000 - 136.975 MHz, 4 channel preset digital display), top mounted VHF antenna
NAV 1	Collins VIR 32 with CTL 32 (108.00 - 117.95 MHz, 4 channel preset, digital display), DMN4-17/A - all weather blade antenna
GS 1	Included in No. 1 VIR 32 (40 channels), internal nose mounted antenna
MB 1	Included in No. 1 VIR 32 (75 MHz), with Hi-Lo Sense switch, volume control, displayed on EADI 1, bottom fuselage mounted antenna
EHSI 1	Honeywell EDZ 756 EFIS System, includes: ED 800 - Electronic 5″ x 6″ HSI with IVSI scale, SG 705 ~~708~~ - Symbol Generator, DC 811 - Display Control Panel, RI 206 - Heading/Course (dual) Panel, Annunciator/Switch - FD CMD BARS, E.T., SG REV, ADC REV, COMP MON RESET
EADI 1	Honeywell ED 800 - Electronic 5″ x 6″ ADI with airspeed and altimeter scales, Inclinometer, Baro Set Panel, Airspeed Bug Set Panel
AHRS 1	Litef LCR-100 ~~LCR 92S~~ - Attitude Heading Reference System. System includes: LCR 92S Fiber Optic Gyro with rate gyro output, Sikorsky Dual Compass Control Panel, Honeywell FX 220 - Flux Detector, Annunciators - AHRS/1/2, AHRS TEST
NAV 2	Collins VIR 32, 108.00 - 117.95 MHz, Nav Diplexer
GS 2	Included in No. 2 VIR 32 (40 channels), GS Diplexer
MB 2	Included in No. 2 VIR 32 (75 MHz), with Hi-Lo Sense switch, volume control, displayed on EADI 2, marker beacon Diplexer
EHSI 2	Honeywell EDZ 756 EFIS System, includes: ED 800 - Electronic 5″ x 6″ HSI with IVSI scale, SG 705 ~~708~~ - Symbol Generator, DC 811 - Display Control Panel, Hag and Cars control is included in EHSI 1 panel, Annunciator/Switch - FD CMD BARS, E.T., SG REV, ADC REV, COMP MON RESET
EADI 2	Honeywell ED 800 - Electronic 5″ x 6″ ADI with airspeed and altimeter scales, Inclinometer, Baron Set Panel
AHRS 2	Litef LCR 92S - Attitude Heading Reference System. System includes: LCR 92S Fiber Optic Gyro with rate gyro output, Honeywell FX 220 - Flux Detector, Annunciator/Switch - AHRS TEST
ADF	Collins ADF 462, 190 - 1799 KHz, and 2179 - 2185 KHz, ANT 462A - Combination Loop/Sense Antenna
TRANSPONDER	Collins TDR 90 - ATCRBS Transponder, - Digital Control Head, CAD 62 (-001) - Control Adapter, belly mounted L-band antenna
DME	Collins DME 42 (300 w minimum) with IND 42A, belly mounted L-band antenna. Tracks three stations simultaneously for instantaneous display selection, providing: distance and ground speed or time-to-go or station identifier (2,3, or 4 letters). DME Hold feature is incorporated in both the Nav 1 and Nav 2 controls heads, belly mounted L-band antenna
AIR DATA 1	Penny and Giles - Air Data Computer, w/encoding output to transponder(s)
AIR DATA 2	Penny and Giles - Air Data Computer, w/encoding output to transponder(s)
Dual Autopilot/FD	SPZ 7600 - Dual Digital Automatic Flight Control System, includes:FZ 706 - Digital Flight Guidance Computer, two MS 700 - Mode Selector, PC 700 - Autopilot Controller, AFCS Indicator Panel, Linear Pitch Actuator (two), Linear Roll Actuator (two), Linear Yaw Servo (two), Pitch Trim Actuator, Roll Trim Actuator, Collective Trim Actuator, Pedal Damper/Trim Actuator (hydraulic). Annunciator Lights: AP 1/AP 2/CLTV/DCPL, TRIM FAIL, FD Decouple with Chime
Backup Airspeed	Airspeed Indicator - 3″
Backup Altimeter	Sensitive Altimeter (in & Mb) - 3″
Altitude Alerter	Honeywell AL 300 - Air Data (Altitude Preselect) Display, Annunciator - single ALT ALERT
Radio Altimeter	Collins ALT 55B - Receiver/Transmitter, ALI 55 - 3 inch Indicator (0 - 2500 foot), bottom fuselage mounted Antennas (two)

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Weather Radar	Honeywell Primus 440, WU 440 - Transmitter/Receiver/Antenna Unit with 12 inch Antenna Radiator, Honeywell AMLCD Radar-Only Display (upgradable to display additional data)
Static Inverter	Two Marathon Model PC-251-123K 115 VAC, 250 VA lightweight Inverters (w/ integral 26 VAC transformers), Annunciators (in IIDS) - NO 1 INV FAIL, NO 2 INV FAIL
Standby ADI	BFGoodrich ADI 335D - 3-inch Stand-by Attitude Indicator providing Nav (VOR/LOC/Glideslope), DME, and FMS data. Unit is installed on the center instrument panel as a backup to the EFIS system. *Features include:* eight character LED display; CDI/VOR/Localizer and Glideslope crosspointers with appropriate validity flags; navigation modes of - en route VOR with manual OBS; OBS auto-centering and TO/FROM ambiguity indicator; precision approach ILS and back course; DME distance; groundspeed, and time-to-station; manual fast erection caging; and FMS display. Gyro is automatically tied to a dedicated power supply (30 minute minimum) during a total aircraft power loss. Upon depletion of the dedicated power supply, the ADI 335D provides approximately nine minutes of additional useful attitude information during its spin down. There is also a NAV 1/NAV 2 Annunciator/Switch that adds Nav 2 display capability into the ADI 335D indicator mounted next to the ADI 335D indicator.
Stby Power Supply	J.E.T. PS 855A - 2.5 AH lead acid standby power supply with Annunciator/Switch - GOOD/BATTERY TEST, EMER PWR/OFF/ARM
ELT	ARTEX ELT 406-NHM with remote switch and “on” indicator, beacon transmits on 121.5, 243.0 and 406.025 MHz, two year Alkaline Battery, tail boom mounted VHF antenna
CVR	Universal Navigation CVR 120: CVR Recorder with ultrasonic Underwater Locator Beacon; Control Panel with Headphone Jack, Signal Level LED Display, Pass and Fail LCD Indicators and an Erase Button.
Dual Audio	Two dB Systems 380 - Audio Selector/Amplifier/ICS Panels
ICS	ICS with volume control included in dB Systems 380 Audio Panels for Cockpit, plus Cabin and Baggage Compartment maintenance jacks
ICS VOX	Cockpit ICS VOX - Voice activated keying, included in dB Systems 380 Audio Panels
ICS Foot Switch	Sikorsky 45° pedestal mounted switch (two), permits foot keying of ICS or aircraft radios with selection on dB Systems 380 audio panels
Headsets	David Clark H10-26 (three) - high impedance headsets
ICS Jacks	Cockpit - TJT-120 type (two), Cabin - MS connector type (one), Baggage Compartment - MS connector type (two)
ICS Cords	Cabin Maintenance - 6'; Baggage Maintenance - 30' (two); all with MS connector and push-to-talk switch
Passenger Briefer	Heads Up Technologies, PBS 250 Passenger Briefer w/ Takeoff, Turbulence, and Landing Briefings
Cabin Paging	Page/Chime Amplifier, dB Systems 251w/ inteface to pilot and copilot audio
Collective Switches	Go Around, Trim Release, Servos 1/2 Off, Collective/Yaw Beep, Search Light Control, Engine Trim, OEI/MCP (30 sec-2 min)
Cyclic Switches	Push-to-talk, Trim Release, Cyclic Beep, Decouple, Floats (opt.), Cargo Hook (opt.)
Avionics Master	Sikorsky single Radio Master rocker switch in Overhead Switch Panel
EFIS Master	Sikorsky EFIS Master rocker switches in Overhead Switch Panel
Master By-Pass	Sikorsky Radio Master By-Pass, EFIS By-Pass (Pilot and Copilot)
Cooling Fans	CRT fans (two), Annunciator (in IIDS) - CRT FAN FAIL ½
TAWS	Honeywell Mk XXII Enhanced Ground Proximity Warning System (EGPWS). Features include: terrain display on EHSIs; Six Modes: Mode 1 Excessive Rate of Descent, Mode 2 Excessive Terrain Closure Rate, Mode 3 Inadvertent Descent After Takeoff, Mode 4 Unsafe Terrain Clearance, Mode 5 Below Glideslope, Mode 6 Altitude Call-outs.

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ADDITIONAL AVIONICS ITEMS

07025 Delete PBS 250 Passenger Briefing System, From Baseline

11002 Radio Tuning Units - RTU 4200

Dual Collins RTU 4200 radio tuning units, for use with VHF-22A Comms, VIR-32 Navs, ADF-462 and TDR 94D Transponders. System includes: two RTU 4200 - Radio Tuning Units. Features include: liquid crystal display, single control of all basic radios, Dzus mounted at the forward area of the center console.

11028 Dual - Mode S Transponders w/Diversity TDR 94D

Dual Collins TDR 94D Mode S Transponders with aircraft address memory, exchange for standard single transponder system. The TDR-94D transponders are controlled through the RTU 4200s in the instrument panel.
Includes: TDR 94 (two each) - Mode S Transponder, and three additional L-band antenna.

11037 DME, 2nd - DME 42

Second Collins DME 42 System.
System includes: DME 42 - Receiver/Transmitter, IND 42A - Digital DME Indicator, L-band Antenna - bottom fuselage mounted.
Features include: 252 UHF channels; 300 w minimum power; range - 0.0 - 999 nm, speed - 0 - 999 kts, time-to-go - 0 - 199 minutes, digital display with auto dimming, indicator provides simultaneous readout of distance and speed or time-to-go or station identifier (2, 3 or 4 letters); dual diagnostic code presented on indicator; built-in on/off power switch; simultaneous tracking of three (two stations with FMS) stations for instantaneous display selection.

30012 AUDIO JACKS - EMERGENCY (STD/BOSE)

Emergency ICS (COMM) Panel is installed in pilot's overhead that provides a direct headset connection to the No. 2 COMM radio in the event of an audio controller failure. Panel includes an "EMER/NORM" switch and both normal jack and Bose headset jack.

30020 Audio Jacks, Cockpit – Bose

Installation includes: two each aircraft mounted Bose audio jacks, complete aircraft integration. Jacks are for customer furnished Bose headset operation and are in addition to standard jacks.

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30061 ~~Cabin ICS~~ DELETED
(Custom cabin ICS option is listed under Option 90036)

30093 ~~Cabin Call System~~ DELETED
(Call function is part of ICS Option 90036)

31021 **Speakers - Door, Two**
One speaker installed in each hinged cabin door. To be used with Cabin Paging System

32001 **Cellular Phone Base and Charger (12 VDC outlet)**
Flush mounted in cockpit ceiling. Installation includes: flush mounting of outlet; 12 VDC voltage converter; circuit breaker; mounting hardware; aircraft wiring; and pouch to hold phone. Note: Cellular phones are not permitted to be used while airborne

32024 ~~Satellite Communications System, AirCell ST 3100~~ DELETED
(Replaced by option 90025)

34053 **NAV/LNAV Switch for ADI 335D**

NAV/LNAV switching adds long range navigation display capability into JET ADI 335D indicator. Includes annunciators/switch - NAV/LNAV. Features include: FMS display modes including - en route and approach, course deviation, distance to waypoint, desired track, selected course, bearing to waypoint, TO/FROM indication and waypoint passage alert.

34081 **Vertical Card Standby Compass**

Vertical Card Magnetic Compass consisting of a 2" vertical rotating dial that is similar to an HSI type presentation. Features include: self contained and requires no external power except for internal lighting; 2" diameter with extra large numerals every 30°, with 10° bars and 5° dots; miniature airplane on the glass and heading is read at the 12 o'clock position for natural flight indication; compass card rotates and presents all quadrants in their true relation to line of flight; unit is a dry compass and utilizes eddy current damping and as such has no overshoot; 5 vdc internal lighting. Exchange for standard float/liquid type standby compass indicator.

35053 ~~FMS - Universal UNS 1F w/Go Around Switch wired to the Collective~~

35055 **FMS, Universal UNS-1Fw (WAAS FMS) with LPV Monitor** ADDED
Universal Avionics UNS 1Fw - Flight Management System. System Includes: Super FPCDU – Flat Panel Control Display Unit (6.375"h x 5.75"w x 3.617"d); Navigation Computer Unit (NCU) with internal WAAS GPS; LPV Monitor with internal WAAS GPS receiver; Configuration Module; Portable SSDTU – Solid State Data Transfer Unit; omnidirectional flat micro-strip antenna with internal pre-amp; Mode/Warning Annunciators - GPS INTEG/FMS HDG/MSG, LPV/NO LPV, LNAV/VNAV, and LOS CHG on the instrument panel; data loader jack installed on right side of cockpit console. Features Include: 5" diagonal active matrix liquid crystal color display (uses 2 character sizes for ease of data recognition) which is pilot dimmable; full alpha-numeric keyboard; holding pattern selection; ten line entry keys; multi-sensor input capable, plus uses combinations of DME/DME/DME, VOR/DME; pilot selectable Nav Auto-tune; 12 channel internal (in NCU) GPS receiver - continuously tracks up to eight satellites; map display presented on pilot and copilot EHSI's; "Direct To" key; trip planning, airport services and fuel management pages; fuel flow input from aircraft system; flight calculator; full three dimensional positioning - latitude/longitude and altitude; advisory VNAV; 3-D Approach Mode; stores – 200 flight plans of up to 98 waypoints

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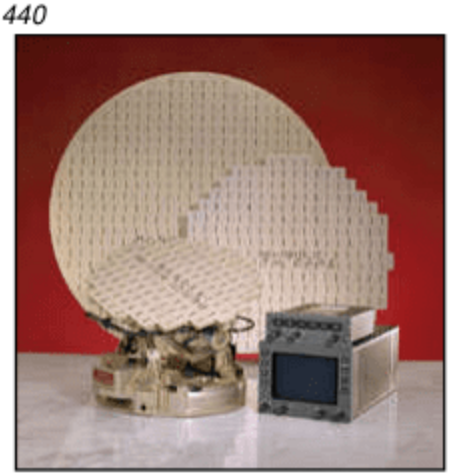
each (3000 total), 2000 company protected routes, 100 arrivals/departures, 100 stored approaches; 100 airports, 100 runways, 100 alignment points, 25 radar waypoints, up to 200 user-created waypoints; Airwatch™ restricted airspace warning system; two pages of direct to nearest airports; displays - ground speed, range, distance, bearing, desired track, drift angle, track angle, cross-track distance, vertical deviation, estimated time enroute, true airspeed, density altitude, pressure altitude and winds aloft when interfaced with standard Penny & Giles air data computer; 32 MB storage for Jeppesen worldwide or regional Data Base with updates from portable Data Transfer Unit (included) - provides plain language airport and Nav names, off-line flight planning capability (optional), clearance language format, information on all VHF Navaids, all high and low altitude intersections, all on and off-airway NDB's, all outer markers, runway thresholds, high-altitude jet routes and low altitude airways by name, SID and STAR waypoints, approach patterns, and intersections. FAA approved for GPS LPV (Localizer Performance with Vertical Guidance) approaches within the United States.

36044 LIGHTNING STRIKE SENSOR - LSZ 860

Honeywell LSZ 860 Lightning Strike Sensor System provides supplementary weather avoidance information. System includes: LP 860 - Receiver/Processor and AT 850 - Teardrop Antenna. The system is controlled through the Honeywell Multi-Function Radar Display on the instrument panel. Features include: 200 nautical mile radius detection area; three Lightning Rate Occurrence Symbols - each symbol (rate one, two and three) represents the center of an 18-mile diameter area of lightning activity for the last two minutes; Lightning Alert - places a magenta 'rate one' symbol near the outer range mark of the display, at the proper bearing, for each lightning flash; computer can track up to fifty (50) individual lightning rate symbols; Geographic Stabilization - heading and velocity inputted to keep the rate symbol over the same geographic location; 360° viewing area when radar is in standby. Control functions: OFF - removes all power from system; STBY - data is not displayed, however the Receiver/Processor is active and lightning strikes are being counted and accumulated; LX - normal working mode, lightning strikes are collected, processed and displayed; CLR/TST - erases all memory of past strikes and symbols, after 3 seconds the equipment enters the test mode.

36065 Wx Avoidance Radar - Primus 880, *exchange for Primus 440*



Honeywell Primus 880, Digital 5-color, fully stabilized High Power Doppler Turbulence Detection Radar System. *System includes:* WU 880 -Transmitter/Receiver/Antenna Unit with 12 inch Antenna Radiator and interface cables to Honeywell Multi-Function Radar Display. *Features include:* 10.0 KW nominal power output; X-band (9375 ± 25 MHz); 12 inch flat plate antenna; antenna horizontal scan angle - 120 degrees or 60 degrees (pilot selectable); stabilization - ± 30 degrees combined pitch, roll and tilt; antenna tilt - ± 15 degrees with digital on screen annunciation; range display selection - 2.5, 5, 10, 25, 50, 100, 200 and 300 nautical miles; Target Alert; REACT - Rain Echo Attenuation Compensation Technique alerts the crew where storms may be hidden by intervening rainfall attenuation; Turbulence detection is provided using advanced Doppler pulse pair processing techniques to detect turbulence within any storm cell - regardless of rainfall rates; self test; red "dead zone" display shows where targets will not be displayed; Mode Selections: OFF - removes system power; SBY - system energized, but no transmitter output, no display and antenna scan is stopped; WX - turns system on and selects basic weather; GMAP - Ground Map selects high sensitivity terrain mapping; FP - Flight Plan mode for stand alone navigational display, lightning strike data, etc.; TST - self test with test pattern; RCT - activates the REACT function; BRT - single turn display brightness control that adjusts the brightness of the display; GCR - selects ground clutter reduction for ranges up to 50 miles; GAIN (pulled) - rotary gain control for both weather and ground map modes, normal in position provides a calibrated gain; TGT - advise crew when a red or magenta target appears beyond the selected range for the 5 to 200 nm ranges and 7.5 degrees on each side of the

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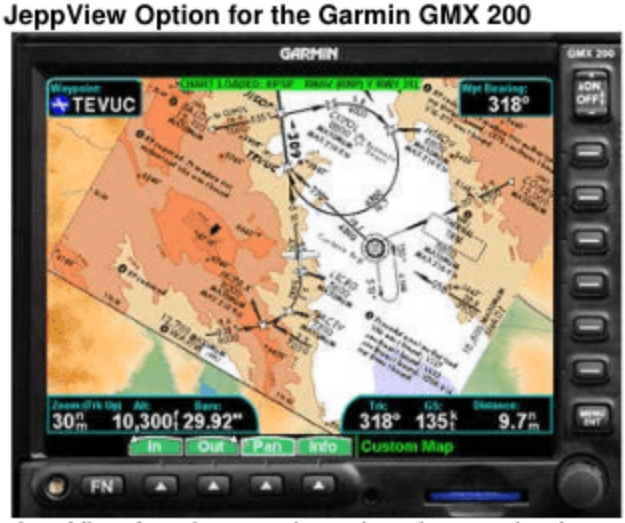
aircraft heading; TRB - turbulence detection of moderate, severe and extreme areas within reflective rainfall are displayed in soft white up to 50 nm; TILT - antenna tilt adjustment; PULL AUTO - enables the Auto Tilt mode for fine tuning the tilt by ± 2 degrees; Stabilization - is disabled by pressing the TGT switch four times within three seconds; RANGE ⇧ - slews radar range selection up; RANGE ⇩ - slews radar range selection down; AZ - selects and deselects the electronic azimuth lines for display on screen; SCT - selects either full azimuth scan (120°) or sector azimuth scan (60°).

36104 Multifunction / Moving Map Display, Garmin GMX 200

The Garmin GMX 200 is a fully integrated Multi-Function Display. The system consists of a large color AMLCD display that expands a full 6.5" diagonally, 640 x 480 pixels, 65,536 different color combinations, enhanced backlighting that dramatically improves color and contrast, resulting in chart depictions and images that are brighter and more vivid in all lighting conditions. At a glance, see your aircraft's position relative to terrain, obstructions, weather, airways, navaids, restricted airspace and more, select between several charting options and easily add or remove details with the simple press of a soft key, rotary knob allows for quicker map scale changes and entry of data, front loading SD card-slot allows for expanded memory and makes loading updated charts uncomplicated. Unit is faster with 650 MHz processing speed and 256 MB memory for higher map detail. A custom map function is available which allows the user to create a display for almost any configuration required, offering extensive overlay capabilities. The GMX 200 includes high resolution terrain and hydrography data for the entire world which is preloaded for an unmatched presentation even at the lower zoom scales. The Garmin Base Map with cities, roads, rivers, and lakes has been added to further improve situational awareness. An aviation database featuring Jeppesen® NavData™ is used to draw airports, airways, navaids, airspace, and more. Map scales range from one-fourth of a mile to 2500 miles. A unique split screen function allows you to simultaneously view two charting options along with the vertical profile for the elevation of the terrain along the route of flight. The GMX 200 utilizes position information from the aircraft's FMS system for moving map features. The GMX 200 also provides for the display of charts.

36105 JeppView Option for the Garmin GMX 200



JeppView functions are based on the popular Jeppesen Electronic Airway Manual Service. Familiar Jeppesen instrument approach charts and airport-surface diagrams are viewed with the aircraft position overlaid on the GMX 200 high-resolution color display. Additionally, JeppView

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displays Standard Instrument Departure and Arrival charts (SIDs and STARs). Charts are available through Jeppesen's JeppView for GMX 200 data subscription service. On departure, the GMX 200 with Chart View displays the airport surface map, including all runways and taxiways. After takeoff, the GMX 200 automatically transitions to the en-route chart, which depicts airways, airspace, terrain, navaids, rivers, lakes and highways. Within the terminal area of the destination airport, the GMX 200 transitions to the selected instrument approach plate -- complete with procedure turns and holding patterns. Once the aircraft has approached the runway and ground speed has slowed to 50 knots, the aircraft symbol is displayed on a moving map of the airport surface.

36120 Honeywell Multi Function Radar Display (MFRD) displays Radar, Flight Plan, & Checklists Exchange for: WI-880 Weather Radar Indicator (part of Option Code 36065) and LU-860 Lightning Sensor Control Panel (part of Option Code 36044)

System Includes: Honeywell Multi-Function Radar Display (MFRD).

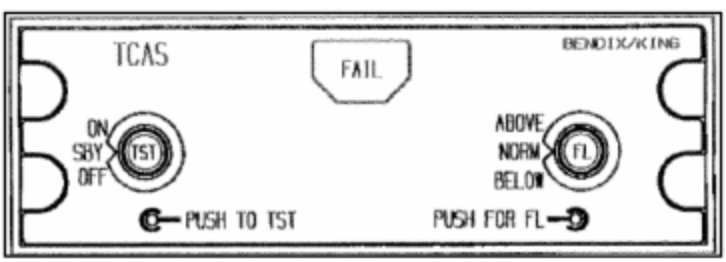
Features include: The Honeywell MFRD is a multi-function display that replaces the standard radar display and has the capability to interface with various other sensor systems. The MFRD is used as a display and control for the Primus 880 Weather Radar, the LSZ-860 Lightning Strike Sensor. It will can display CAS-66A TCAS information. Flight plan information from the aircraft FMS System (UNS-1F) can also be displayed.

37011 TCAS I System - CAS 66A

Bendix-King CAS 66A - TCAS I System. System includes: TPU 66A - Processor Unit; 2 each ANT 67A - Directional Antenna, one top fuselage mounted and one bottom fuselage mounted; 2 each, antenna-to-fuselage adapter plates; installation kits; 2 each, matched sets of four custom coaxial cables for connection to the directional antennas; small access doors on left and right sides of race car. Features include: active system - which means the processor unit interrogates surrounding aircraft transponders without the need of ground based radar; displays up to 30 intruder aircraft (strapped for 12 targets with 3 ATI display and 20 targets when on a radar display); Traffic callouts: Non-Threat Traffic (relative altitude greater than ± 1200 feet or distance beyond 6 nm), Proximity Intruder Traffic u (traffic within ± 1200 feet and 5 nm), Traffic Advisory I (will display a TA when time to Closest Point of Approach is 15 to 30 seconds); crew selectable ranges of 3, 5, 10, 15, 20 and 40 nm; intruders altitudes may be displayed as absolute or relative to the aircraft; crew-selectable relative altitude; three selectable altitude display modes - normal (± 2700 ft), above (- 2700 ft to + 8700 ft), below (+ 2700 ft to - 8700 ft); fault isolation and diagnostics can be performed via RS 232 port; top and bottom directional antennas prevent blind spots caused by airframe blanking; antenna calibration performed by the Processor Unit.

37017 TCAS Control Panel - CP 66B

Bendix-King CP 66B - TCAS Control Panel. Panel provides control functions of OFF-STBY-ON; flight level of ABOVE-NORM-BELOW, FAIL annunciator and "push-to-test" and "push-for-flight level".



37025 TCAS I TA/VSI Display, Dual IVA 81D

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Two Honeywell IVA-81D - independent 3-ATI Traffic Advisory Indicator. Features include: color flat-panel display; UP/DN - range up/down select switches; BRT - manual display brightness control; photo cell dimming. One indicator installed on each pilot's panel. Maximum of 12 targets are displayed at any one time.

PAINTS & FINISHES

See Exterior Paint Rendering and Paint Scheme Drawing for Details on Paints & Finishes

50002 VIP Interior Paint Prep & Finish
50012 VIP Exterior Paint Preparation & Finish

INTERIORS

See Interior Specification for Details on Interior arrangement and configuration

63000 Deluxe VIP Interior Group.
~~63013 Aft Facing Bench – 3 to 4 Place~~ DELETED
63038 Fwd Facing Divan, Three/Four Passenger w/ Fold Down Armrests ADDED
63071 Bulkhead Storage Compartment - Crew *(Aft Facing Bench)*
~~63085 Cabin Coat Hooks, Two~~ DELETED
63098 Acoustic Noise Reduction - Bay Blanket Kit, Lightweight
70016 Sheepskin Seating - Crew Seats
70052 Seat Belt Extension
72063 Flight Manual Storage, LH Controls Closet
76017 Cabin Door Vents, Remove
77034 Single Action Door Release

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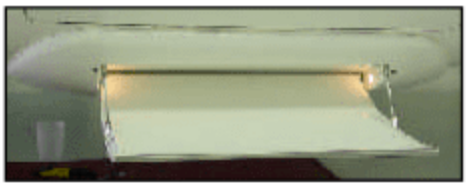
AIRCRAFT ITEMS

80001 Boarding Step, Retractable - LH

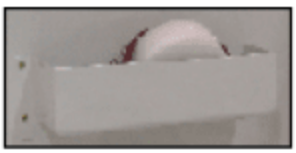


Electrically operated (extend & retract) boarding step is installed on the left side of the aircraft to facilitate passenger boarding. The step reduces the vertical distance from the ramp to the cabin of the aircraft into smaller steps. The crew can retract the step or they can place the switch in the Auto position, so that when the aircraft lifts off the step(s) retract and when it touches down the step(s) extend. Installation includes: Boarding Step three position (RET-AUTO-TEST) switch, installed in the Cabin Door Lock/Boarding Step lighted panel located in the console; retractable boarding step with built-in retraction motor and accessories installed on left side of aircraft below cabin door; step position indicator lights show when the step is either fully retracted (RET - green) or fully extended (XTND - amber) - the indicator is off during transition; micro switches in the step mechanism sense the extended and retracted positions; green BD STEP annunciator in the pilot and copilot Performance Displays of the IIDS to alert crew when the step is not fully retracted.

80002 Boarding Step, Retractable - RH

Electrically operated (extend & retract) boarding step is installed on the right side of the aircraft to facilitate passenger boarding. The step reduces the vertical distance from the ramp to the cabin of the aircraft into smaller steps. The crew can retract the step or they can place the switch in the Auto position, so that when the aircraft lifts off the step(s) retract and when it touches down the step(s) extend. Installation includes: Boarding Step three position (RET-AUTO-TEST) switch, installed in the Cabin Door Lock/Boarding Step lighted panel located in the console; retractable boarding step with built-in retraction motor and accessories installed on right side of aircraft below cabin door; step position indicator lights show when the step is either fully retracted (RET - green) or fully extended (XTND - amber) - the indicator is off during transition; micro switches in the step mechanism sense the extended and retracted positions; green BD STEP annunciator in the pilot and copilot Performance Displays of the IIDS to alert crew when the step is not fully retracted.

80082 Engine Inlet Covers Storage *(S-76C++)*



ABS type material holders attached to the inside of left and right baggage compartment doors that provide storage of the engine inlet covers.

80086 Maintenance Covers – Exterior

Set of six red vinyl maintenance covers. The covers are padded and provide protection for the following areas during aircraft maintenance or storage: top of left and right main gear doors; left and right fuselage covers for area directly above main gear doors; and left and right horizontal stabilizer (slip-on type).

80090 ~~Vertical Pylon Access Panels, CSN 76-207~~ DELETED
(This item is now part of baseline aircraft)

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80092 Enhanced Door Pins, Cockpit ADDED

Replaces the existing upper door pins on the pilot and copilot doors with an enhanced pin that provides a better grip.

83001 Annunciator - "FUEL X-FEED" ON

FUEL X-FEED annunciator installed on center instrument panel. Annunciator is sunlight readable (blue legend color) and advises the crew that either cross-feed selector handle is locked in the cross-feed position.

83051 Hydraulic Quick Disconnect Relocation

Relocate Hydraulic Quick Disconnects to baggage compartment from side of race car. Installation includes: mounting of the four fittings into the baggage compartment ceiling on each side of the aircraft; additional plumbing, clamps; and other installation hardware.

83055 ~~Remove LH Accessory Drive - CSN 76-205~~ DELETED

(This item is now part of baseline aircraft)

83065 Pulsed Electric Engine Chip Detector System, Eaton 1K7707

This system allows the pilot two attempts to electrically discharge accumulated fuzz on the engine chip detectors. System includes: Chip Detector test switch, Chip Pulse switch, and a Zapper box.

84051 C^4 Environmental System

Cabin Cockpit Climate Control, C4 System, exchange for standard bleed air heating system, provides one button set-and-forget control of the cabin temperature. System includes: Master Control Panel - Sikorsky switch panel with temperature indicator, located in copilot's upper overhead switch panel; Cockpit Heat Control Panel - Sikorsky switch panel with copilot two speed fan switch and both cockpit heat and windshield defroster temperature control rheostats installed in overhead above inboard copilot's seat; Fan Switch Panel - Sikorsky switch panel with pilot's two speed fan switch installed in overhead above inboard pilot's seat; System Controller (computer); Primary and Secondary Distribution Ducts; Bleed-Air Heat Outlets - Cockpit Footwarmer (pilot and copilot bleed-air floods located between rudder pedals), Cabin Waterfall (left and right overhead waterfall panels) and Cabin Floor Floods (two forward cabin, aft facing warm air flood outlets); Variable Speed Fans (three) - pilot (two overhead Wemacs, defroster), copilot (two overhead Wemacs, defroster), cabin (eight overhead Wemacs); Cabin Temperature Sensor - one; Rosemount A9506-01-A - Outside Air Temperature Probe; Duct Temperature Sensor (two) - one in overhead duct and one in floor duct; Duct Over-temperature Sensors - seven; Bleed Air Injectors - cockpit (four), cabin (one); Outside Air Inlet - one inlet located near no 1 engine, which routes air thru air conditioner evaporator unit; NACA Exhaust Vent - two each, motor controlled vents located just forward of aft cabin bulkhead. Master Control Panel includes the following: Indicators - LCD type for cabin/set temperature (°F); LED's - AUTO (green, automatic mode is operating), AUTO FAIL (amber, controller failure or loss of power), HEAT (green, any time floor heat is being supplied), A/C (blue, anytime the air conditioning compressor is operating), BV CLOSED (amber, main bleed valves are closed and bleed air is required by the automatic system), OVER TEMP (amber, over-temperature condition detected anywhere in the

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system); Switches - VENT (HI-AUTO-LO), BLEED AIR (ON-AUTO-OFF), CABIN HEAT (HI-AUTO-LO), A/C (ON-AUTO), AUTO TEMP (UP-TEMP-DN & ON-OFF). Features include: One button set-and-forget cabin temperature control; independent cockpit temperature controls; auto and manual modes; 50,000+ BTU engine bleed-air heating system; 21,000+ BTU vapor cycle air conditioning system; cabin temperature control range from 65°F to 85°F; temperature control from cabin available (optional). the system can be operated on the ground using a 28VDC power cart to precool the aircraft. Exchange for vent blower and controls.

85001 **Annunciator - "Land LT ON"**
LAND LT ON annunciator (green) is activated in the pilot and copilot Performance Displays of the IIDS, in addition to wiring from the Landing Light circuit. Annunciator advises (green color legend) crew when the Landing Light switch is in the ON position.

85002 **Annunciator - "Search LT ON"**
SEARCH LT ON annunciator (green) is activated in the pilot and copilot Performance Displays of the IIDS, in addition to wiring from the Search Light circuit. Annunciator advises (green color legend) crew when the Search Light switch is in the ON position.

85012 **Gooseneck Map Lights**
Two Grimes flexible arm hooded floodlights with rheostat control, mounted on forward frames of pilot and copilot door frames. Features include: long flexible arm (approximately 16", 41 cm length) for direct placement of steady light, rotatable lamp hood for directional control of beam, rheostat control with positive off position, easily relampable, lusterless dull black wrinkle paint finish.

~~85036 **Anti-Collision Light, Red – Bottom**~~ **DELETED**
~~85051 **Landing Light - LH Main Gear**~~ **DELETED**
~~85061 **Recognition Lights - Forward Facing**~~ **DELETED**
~~85063 **Logo Lights**~~ **DELETED**
~~85071 **Pulselight System**~~ **DELETED**
~~85072 **Pulse Landing Lights**~~ **DELETED**
~~85073 **Pulse Recognition Lights**~~ **DELETED**

(All incandescent external lighting replaced by LED. Anti-collision and position lights are listed below; landing, recognition and logo lights are options 90029, 90030, and 90050)

85037 **Anti-Collision LED Light, Red, Top ADDED**
Whelen vertical tail mounted red LED anti-collision light system. Replaces standard Grimes anti-collision light.

85039 **Anti-Collision LED Light, Red, Bottom ADDED**
A red LED anti-collision light will be installed on the belly of the aircraft.

85040 **LED Position Lights ADDED**
The baseline combination position/strobe lights will be replaced with Whelen combination lights in which the position lights are LEDs.

86001 **Approach Plate Holder, Lighted - Pilot**
Red/white lighted Plexiglas approach plate/chart holder mounted on a fold-away bracket on the right side of instrument panel. Holder is mounted with the pivot side down so as to better retain the maps and charts.

86002 **Approach Plate Holder, Lighted - Copilot**
Red/white lighted Plexiglas approach plate/chart holder mounted on a fold-away bracket on left side of instrument panel. Holder is mounted with the pivot side down so as to better retain the maps and charts.

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86016 Pencil Holder
Dzus width pencil holder with narrow slot for storage of pencils, pens, and other narrow items, mounted in center console with Dzus fasteners.

86017 Console Storage Bin - Small
Dzus width storage bin, for storage of miscellaneous light weight items, mounted in center console with Dzus fasteners.

86026 Sun Tint - Windshield
Deep tint 3M™ window film installed at the top edge of the pilot and copilot glass windshields inside the aircraft.

86050 Overhead Lateral Absorber
Overhead Lateral Absorber is mounted overhead in the cabin of the aircraft, which is below the main gearbox. This system absorbs lateral vibrations, making for a smoother ride.

86052 Bifilar 5P
The 5P Bifilar vibration absorber consists of a four armed, cross-shaped aluminum forging. Each arm has an independent weight assembly attached through two pendulum-type pivot points. The weights are secured to the pivot pints by bolts which clamp spacers against two tapered washers. The tapered washers center the weights against the contact surfaces during rotor operation and give vertical support under static conditions. It is secured above the 3-P Bifilar on the rotor mast and is used to suppress 4/Rev in level flight and during translation. The Bifilar vibration absorber uses the concept of in-plane pendular dynamics weights which generates internal forces in opposition to the blade forces. Use of the rotating system centrifugal force field as the restoring force on the pendulum provides constant tuning throughout the rotor operating range. The 4P airframe vertical and roll vibrations are, in large part caused by the rotor 5P in-plane vibratory loads in the rotating system. The 5P Bifilar is turned to counteract and cancel the vibratory forces at their source, the main rotor, before they can reach the airframe. The 5P Bifilar also reduces the 4P airframe vibrations generated during translational lift.

86054 Track and Balance Accelerometers Installed in Fuel Cell Extension
Installs cabin RH vertical and cabin LH vertical track and balance accelerometers in the fuel cell extension for measurements by the operator. Baseline aircraft has 5 accelerometers: Pilot heel vertical, pilot seat vertical, pilot seat lateral, copilot seat vertical, and tailcone 'radial'.

86060 Rotor Pedals Lube Kit
Adds grease fittings to the pilot and copilot Tail Rotor Pedals providing ease of maintenance.

87001 Annunciator - "Pitot Heat" On
A PITOT HEAT on annunciator (green color legend) is activated in the pilot and copilot Performance Displays of the IIDS that is tied to the No. 1 and No. 2 pitot heat current sensors. The light will illuminate when both the No. 1 and No. 2 Pitot Heat switches in the pilot's overhead switch panel are On, and electrical current is flowing to the respective pitot tubes. PLT PITOT and CPLT HEAT fail lights (amber) are standard in the Engine Display of the IIDS.

87002 Annunciator – "W/S Heat On"
A W/S HEAT ON annunciator (green color legend) is activated in the pilot and copilot Performance Displays of the IIDS that is tied to the pilot and copilot windshield heat current sensors. The light will illuminate when the Pilot and/or Copilot Windshield Heat switches in the pilot's overhead

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switch panel are On, and electrical current is flowing to the respective windshields. W/S HEAT HOT light (amber) is in the Engine Display of the IIDS.

88051 Floats Completion

Sikorsky Emergency Floats system for air operations over and around water. System includes: urethane coated nylon bags (four), helium (or nitrogen) filled 300 psi float bottles (four), float bottle covers (two in cockpit) with Velcro attached access doors which contain a clear plastic sight gage window, indicator/test switch panel, OFF/ARMED switch (overhead switch panel), FLOATS firing switch on cyclic (two), annunciator - FLOATS ARMED; aircraft plumbing, and wiring. Features include: floatation bags are packed inside left and right compartments within the nose of the aircraft and on the main landing gear doors - protected from external damage; bags do not affect flight performance or cruising speed; redundant inflation and compartmentation - two spheres supply the front bags; the other two supply the rear bags; electrical power is supplied by both the DC ESS BUS and NO 2 DC PRI BUS. Upon inflation each bag reaches an operating pressure of 0.75 to 3.5 psi.

88061 Single Pilot IFR

Weight and Balance for a single pilot is addressed in the design with the placement of remote boxes to eliminate or minimize ballast requirements. Cockpit instruments are laid out to ensure pilot can reach copilot's instrument adjustment knobs.

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CUSTOMER SPECIFIC ITEMS

90001 **Cabin reading light master ON/OFF switch in the cockpit**
90002 **Clear Coat Exterior Paint (over metallic)**
90003 **Replace exterior fairing/access panel hardware with stainless steel hardware**
90007 **GMX-200 display to be installed on the right and the MFRD on the left**
90010 **Audio input jack in cockpit for iPod type device. Entertainment audio to be heard in both cockpit Bose and David Clark headsets only. No other controls, volume controlled via iPod device**
90019 **Do not install the 63000 magazine storage in lower cabin doors**
90020 **Custom upholstery/cushion fabrication requiring customer approval via pre-production prototype.**

Rev. A Here to end of list ↓

The following options are ADDED:

90022 **Customize ceiling reading lights. Relocate one reading light from each group to the outboard area of the ceiling, to be centered on outboard passenger seats.**
90024 **Relocate the reading light switches to the overhead area, adjacent to the reading lights. Relocate the dome light switches on the same panel as the relocated outboard lights, in the outboard position.**

Rev. B

90025 **Truenorth Satellite phone system with WiFi Server to support Blackberry email. Includes cabin handset and cockpit dialer.**
This system provides satellite phone capability through the Iridium network, as well as connectivity for Blackberry and other WiFi-enabled devices at data speeds sufficient to support email. Since the satellite phone system has two channels, one will be available for phone calls even while the other is being used for WiFi.
Iridium calls can be placed and received from the cabin handset and the cockpit headsets, through use of the dialer panel mounted in the center console. The system also provides an intercom function between the cabin and the cockpit.
(Note: there is significant technical and certification risk with the WiFi portion of this installation. If WiFi function has to be abandoned, only the satellite phone portion will be installed)

90029 **LED Landing Lights, left and right, with pulse capability**
The baseline landing light on the right main landing gear is replaced with an LED landing light, and a second one is added on the left main landing gear. These are connected to a flasher box, allowing them to operate in PULSE mode. An overhead switch in the cockpit is used to select ON-OFF-PULSE.

90030 **LED Recognition Lights, with pulse capability**
Forward facing high powered recognition lights, one on each side. Lights are located in the left and right forward E-bays, just forward of tail rotor pedals. Includes: two LED lamp units with integrated lenses, blockout bulkheads to minimize light leakage into cockpit, integration with flasher unit for pulse function, overhead switch with ON-OFF-PULSE selections.

90031 **Garmin GDL-69A XM weather receiver with XM radio receive capability. XM radio audio output will be connected to cabin headsets only (Ref. Option 90039).**
In addition to normal XM weather function, the XM radio audio output will be connected to the cabin headsets. Two Garmin GRC-10 radio frequency remote controls are provided to control the XM radio.

90032 **Four 110 Volt AC outlets in cabin, powered by 1000 VA converter hooked to AC generator. Outlets to include flip covers.**
90033 **Four 12 Volt DC automotive-type jacks in cabin, with covers**
90034 **Modify cabin interior door handle lighting per customer preference. Remove the standard strip of LED lights and replace with single, concealed light source to provide a uniform illumination of the handle area**

Rev. B

90036 **Cabin ICS system with 8 Bose headset jacks, with Call function. Headsets not connectable to satellite phone.**
Eight headset jacks are provided in the cabin for Bose noise-cancelling headsets. These headsets can be used to communicate with other cabin passengers, communicate with the cockpit crew, and to listen to the iPod, XM Radio, or aux audio (these audio sources are part of the cabin entertainment system, Option 90039). Audio from the #2 Communications radio

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(COM2) will also be routed to the cabin headsets (ref. Option 90037). This function is switched on and off by an annunciator-switch on the instrument panel.
The ICS Private button in the cockpit selects whether the cabin headsets are connected to (ICS PRVT OFF) or isolated from (ICS PRVT ON) the cockpit headsets.
A switch panel for the headsets is provided in each corner of the cabin. Each switch panel controls the functions for the two headsets adjacent to it. An audio source button is provided to switch between iPod, XM, and aux audio. A call button is provided to alert the cockpit crew that communication is desired, in case the ICS PRVT function is on.

Rev. B **90037 Connection of audio from the #2 VHF radio (COM 2) to the cabin ICS circuit, with on/off switch in cockpit**
Designed to enable passengers to listen to pilot communication. No transmit capability for passengers.

Rev. B **90039 Cabin Entertainment System with:**
- **4 Audio sources: VHF #2, iPod dock, auxiliary stereo audio input, and XM Radio from Garmin GDL-69A (with two GRC-10 remote controls)**
- **Switch panels (qty 4) with Source Select and Call button**
- **Audio plays over headsets only, not speakers**

90040 Redesign Forward cabin Bulkhead to extend lower the bottom of the standard narrow windows
~~90041 New Custom cabin upholstery style~~ DELETED
90042 Custom Cabin Interior Materials
~~90043 Custom Ferrari color exterior metallic paint~~ DELETED
90044 Custom Cabin Headset Hooks (Quantity 8)
90045 Shoe-cleaning Mat on Boarding Steps LH/RH
90046 HEEDS Bottle Mounts on Cockpit Side Posts (similar to a/c 698 & 700)
90047 Umbrella Holders on Inside of Baggage Compartment Doors (similar to a/c 698)
90048 Custom Aft-Facing Bench Seat, Three to Four Place, with Shortened Single Center Fold-Down Padded Arm Rest
90049 Custom Forward-Facing Bench Seat, Three to Four Place, with Shortened Single Center Fold-Down Padded Arm Rest
90050 LED Logo Lights

The following options have been DELETED:
~~90004 Relocate reading lights from center cabin ceiling to above outboard passengers~~
~~90005 Eight Bose headset jacks for use with the cabin ICS in the cabin (custom locations)~~
~~90006 Satcom System to be installed without the cockpit intercom capability~~ ~~(ref. code 32024)~~
~~90009 Audio input jack in cabin for iPod type device. Entertainment audio to be heard in all cabin Bose headsets. No other controls, volume controlled via iPod device~~
~~90012 Boarding steps to be surfaced with coarse non-skid~~
~~90013 Fwd facing bench seat, 3-4 passenger, W/ wide single fold down armrest for right hand passenger. Armrest shall be shortened from the standard length and provide storage inside under lid for iPod/Cell phone jacks and holders for customer furnished iPod/Cell phone.~~
~~90015 Sheep skin throw carpet for cabin floor~~
~~90016 Headset hangers located at ceiling level above all 8 cabin seats against forward/aft bulkheads~~
~~90017 Customer cabin interior materials.~~
~~Customer Furnished Materials~~
~~(Leather, Carpet, Sheepskin, Panel Covering)~~
~~Custom Upholstery Work~~
~~90021 Cell phone interface into the cabin ICS system. Connection to be in the fold down armrest of the 90013 fwd facing bench seat with ability to select the cell phone connection for any occupant on the fwd facing bench seat (4) positions. Tied to Weight-on-Wheels switch to disable in-flight use.~~

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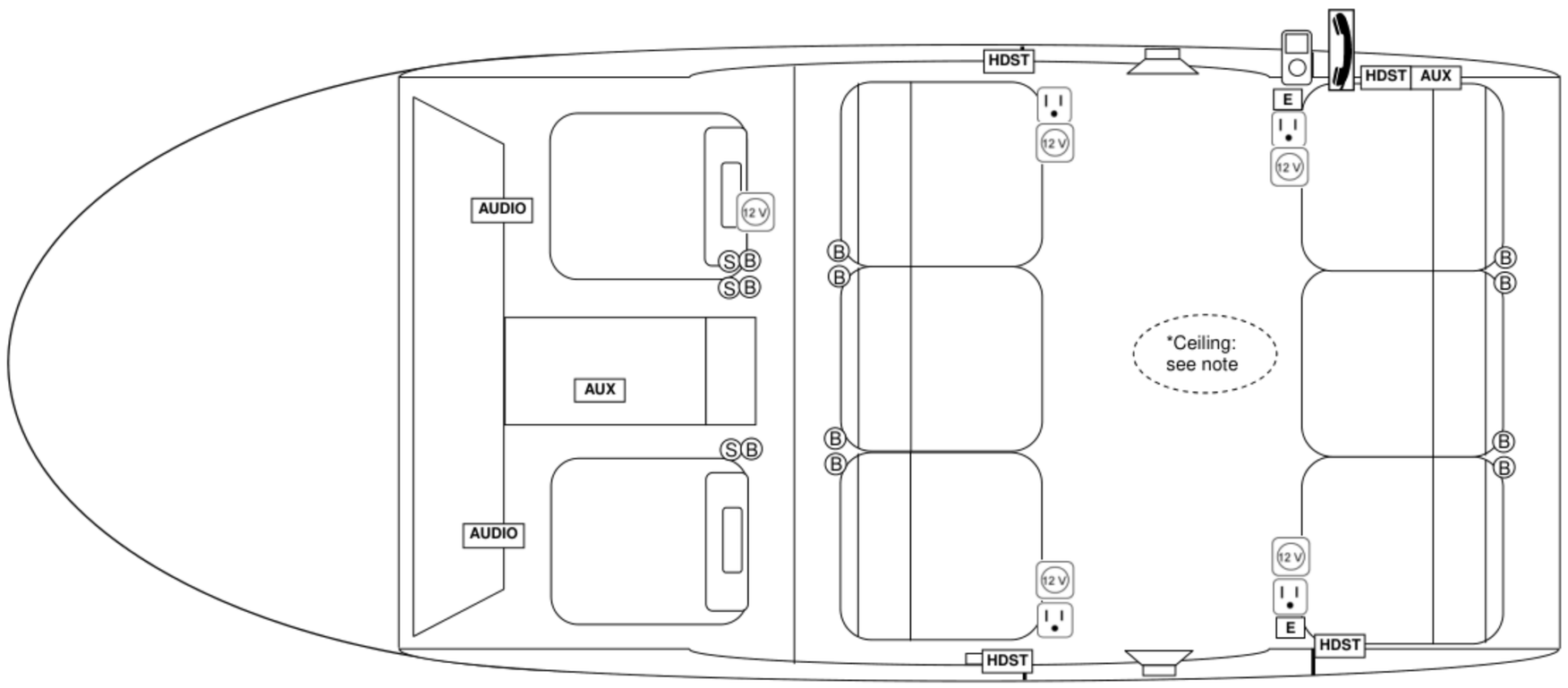
AUDIO/ELECTRICAL COMPONENT LOCATIONS & FUNCTIONS

Rev. A



LEGEND

- Bose Aviation Headset Jack
- Standard Helicopter Headset Jack
- Speaker
- HDST — Headset Switch Panel
- AUX — Auxiliary Audio Input
- E — Entry Lights Switch
- iPod Dock
- Satellite Phone Handset
- 110 VAC Outlet
- 12 VDC Outlet
- AUDIO — Audio Control Panel (Cockpit)

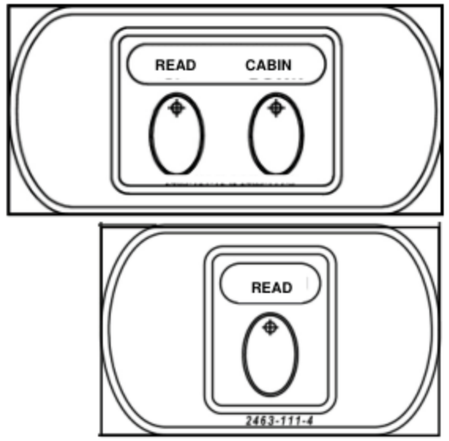
(SEE DESCRIPTIONS OF THESE COMPONENTS ON NEXT PAGE)

*Ceiling: per Option 90024, reading and cabin light switches are relocated from side walls to ceiling. Descriptions of switch panesl asre shown on the next page, and renderings showing their location are shown in the Interior Configuration Document.

AUDIO FUNCTIONS BY STATION

Capability / *Station*	Audio Control Panel *	ICS Talk	ICS Listen	COM1 & COM2 Talk	COM1 & COM2 Listen	Page/Chime Talk	Page/Chime Listen	NAV,MB, DME,ADF Audio Listen	Warning Tones Listen	Satellite Phone Talk	Satellite Phone Listen	Cockpit iPod Listen	Cabin iPod Listen	XM Radio Listen	Cabin Aux Audio Listen	Cockpit Aux Audio Listen
Pilot Headset	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
Copilot Headset	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
Cabin Sat Phone Handset										✓	✓					
Cabin Bose Headsets (8)		✓	✓		Com 2		✓						✓	✓	✓	
Cabin ICS Maintenance Jack		✓	✓		✓		✓	✓	✓		✓					
Baggage Compartment ICS Maint. Jacks		✓	✓		✓		✓	✓	✓		✓					

* See audio control panel layout and description later in this document



Lights Switch Panels (in ceiling)

CABIN LIGHTS: Adjusts cabin ceiling lighting up/down.
READ LIGHT: Toggles reading light on and off. One button for each passenger position.

E

Entry Lights Switch

ENTRY: Turns the cabin ceiling lights on for about two minutes.

HDST

Headset Switch Panel

SOURCE: Cycles audio source for the two adjacent headsets between iPod, XM Radio, and Aux Audio
CALL: Activates a chime and flashing annunciator in cockpit, indicating to the crew that the passengers would like to communicate with them through the headsets.

AUX

Auxiliary Audio Input (Cabin)

Standard 3.5mm stereo jack for audio input from a portable source. The aux input in the cockpit is the same type of jack, but integrated into the center console instead of this plated metal panel.

CABIN COMPONENT DETAILS

Rev. A

XM Radio Remote Control (qty 2)

Used to control the XM Radio receiver that is part of the Garmin GDL-69A satellite weather receiver. Audio plays over cabin headsets.

iPod Dock

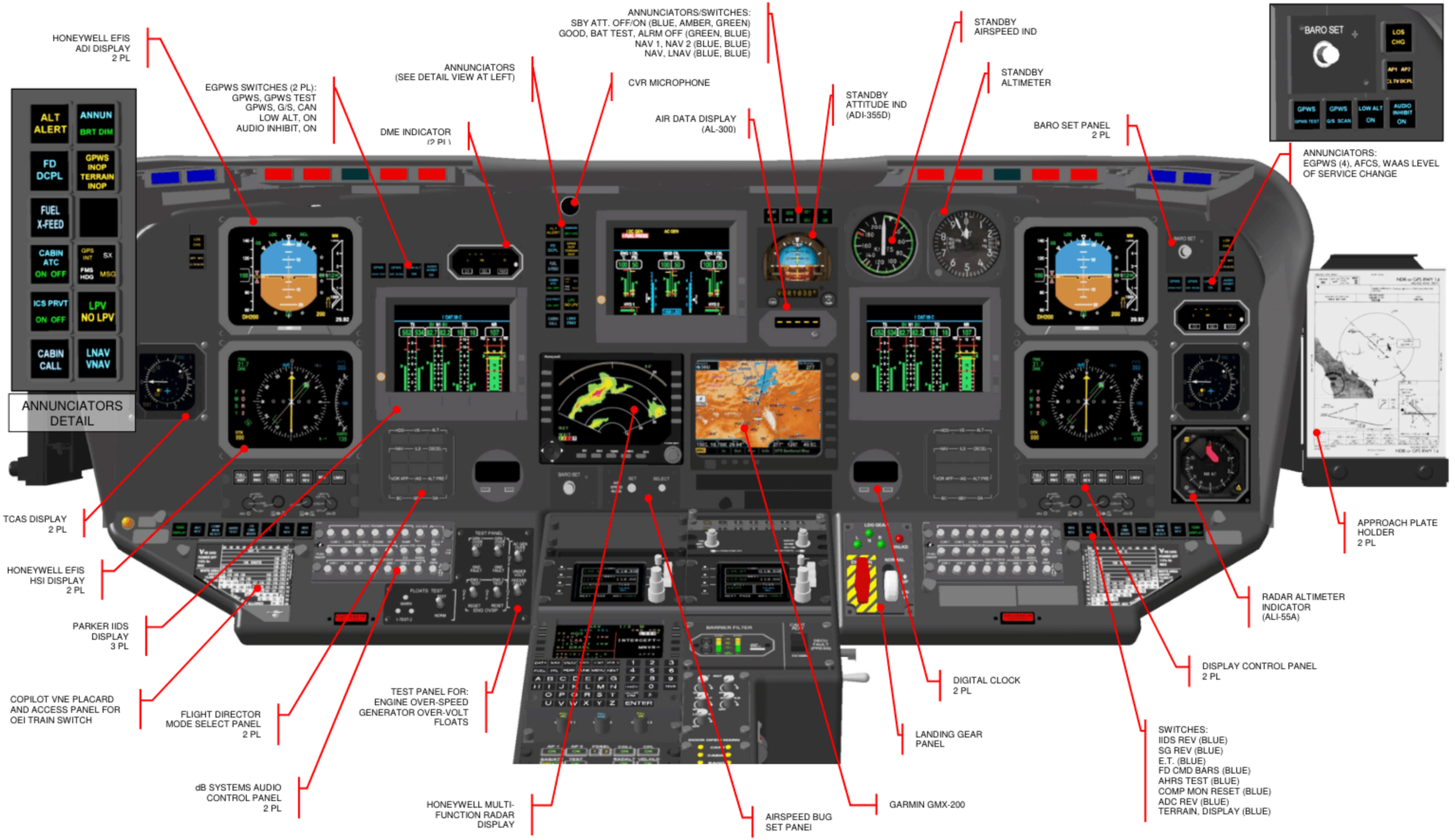
Holds iPod while feeding audio to headsets. Also charges iPod. (Image is a preliminary rendering.)

Satellite Phone Handset

Used to place and receive calls on Iridium satellite network.
Also functions as an intercom between cabin and cockpit.

INSTRUMENT PANEL LAYOUT

Rev. A



FUNCTIONS OF PRIMARY INSTRUMENT PANEL DISPLAYS

Rev. A

Information Type	Displays				Type
	Honeywell MFRD	Garmin GMX-200	TCAS Displays (IVA-81D)	EFIS EHSI	
TERRAIN				✓	Honeywell EGPWS Mk XXII
OBSTACLES				✓	Honeywell EGPWS Mk XXII
NAV DATA		✓			Jeppesen: Airports, Airspace, etc.
VFR/IFR CHARTS		✓			Jeppesen
APPROACH PLATES		✓			Jeppesen: JeppView
WX RADAR	✓			✓	Honeywell P880
LIGHTNING	✓			✓	Honeywell LSZ 860
FMS FLIGHT PLAN	✓	✓		✓	Universal UNS-1Fw Flight Plan Data
TCAS I	✓		✓		Honeywell CAS 66A
CHECKLIST	**Available**				Order through Onboard Data Systems

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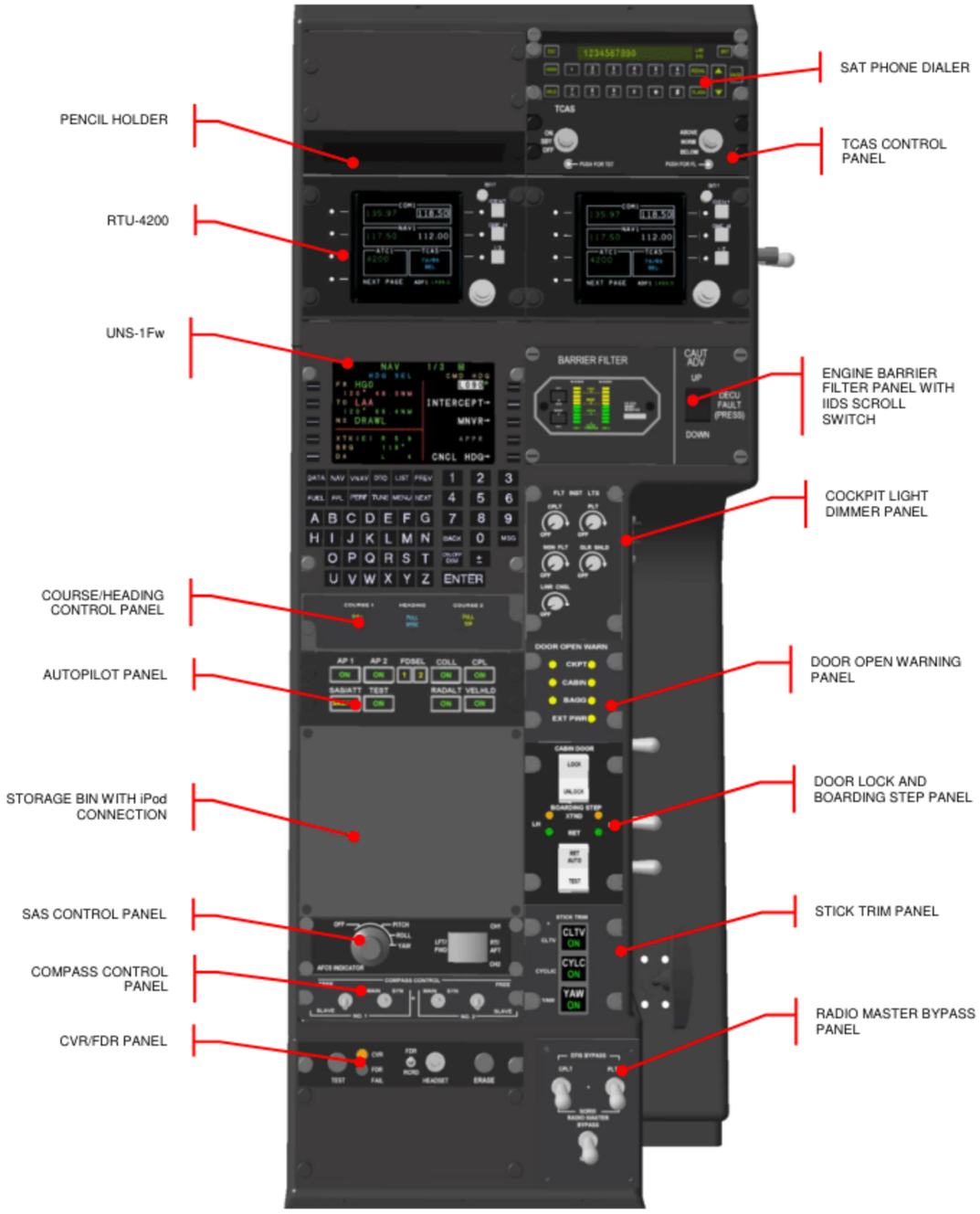
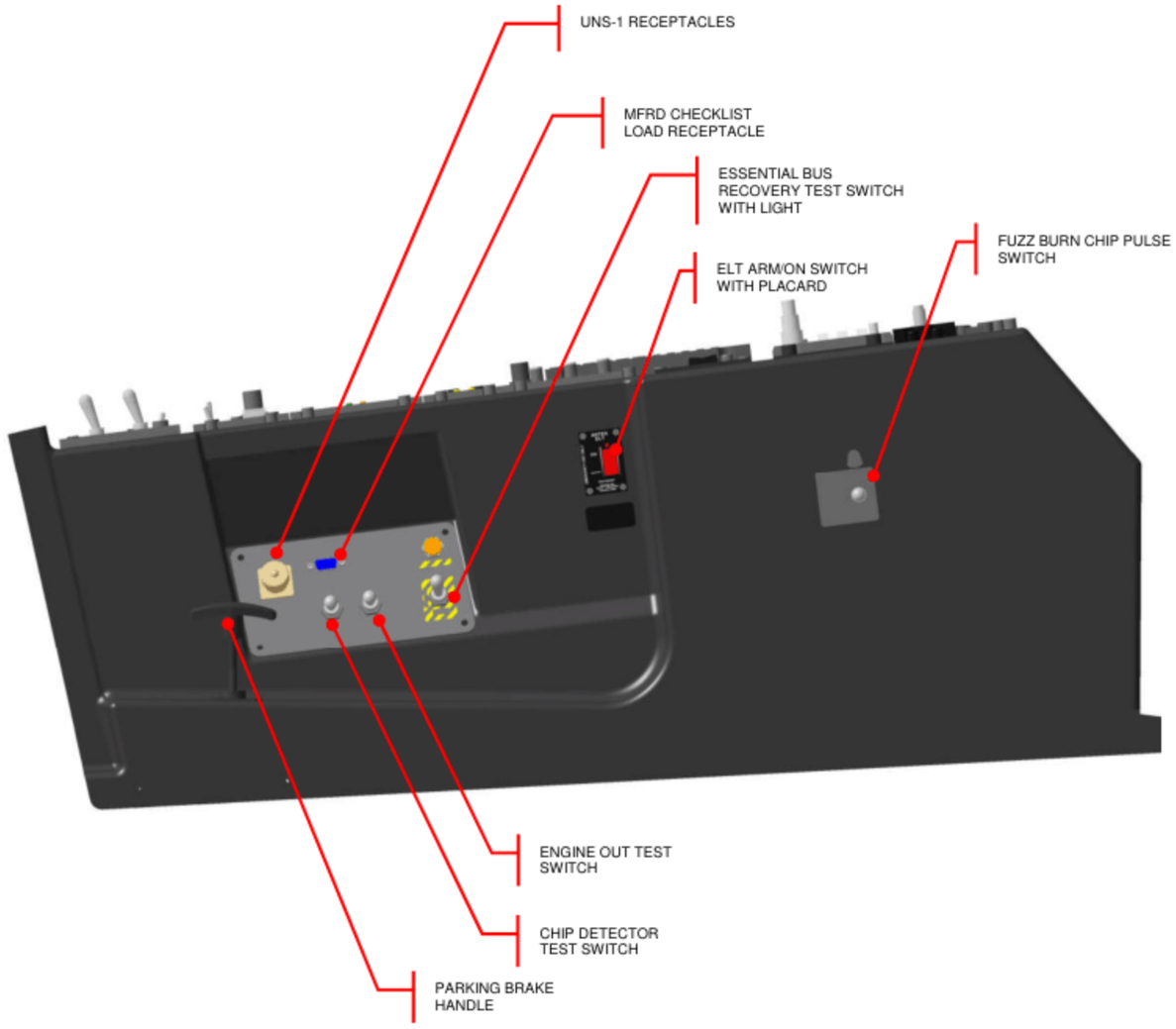
CENTER CONSOLE LAYOUT

Rev. A



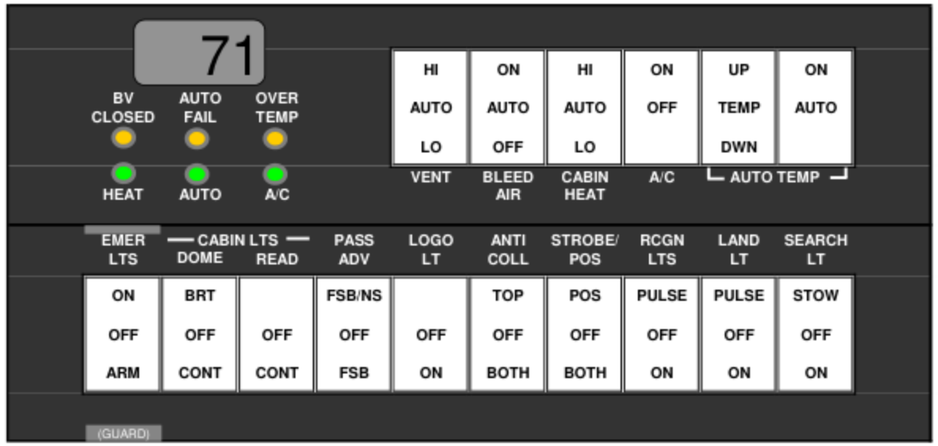
TOP VIEW



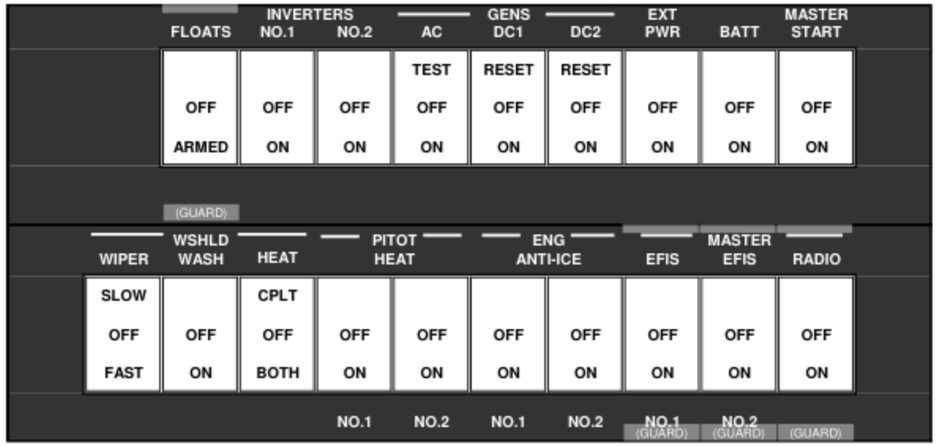
RIGHT SIDE VIEW

OVERHEAD SWITCH PANELS

Copilot Side



Pilot Side



COCKPIT AUDIO CONTROL PANELS

RADIO TRANSMIT
- -**COM1**: Enables VHF 1 radio transmit
- -**COM2**: Enables VHF 2 radio transmit
- -**COM3**: Not Used
- -**PHONE**: Enables transmit on the satellite phone
- -**PAGE**: Enables crew to talk over the cabin speakers using cabin paging system
- -**RAMP**: Not Used

ICS VOX Enables "hands-free" ICS communication and adjusts sensitivity (HOT = "Hot Mic")

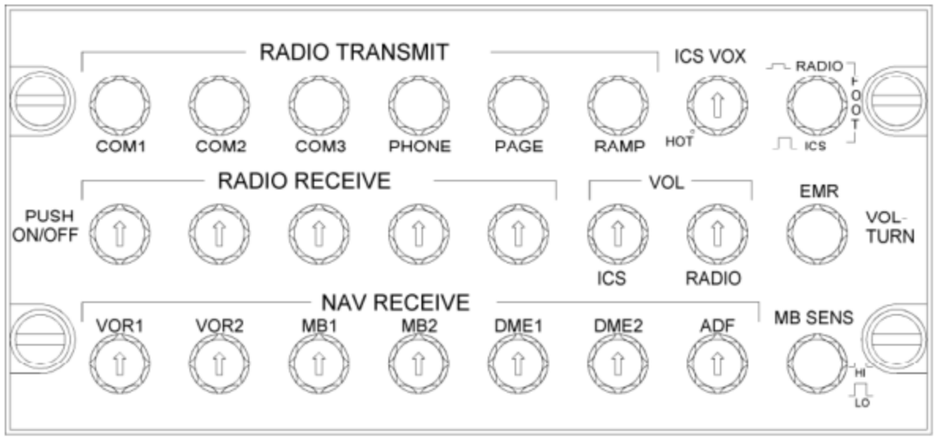
FOOT
- -In **RADIO**: Enables the floor foot switch to key any source selected by the RADIO TRANSMIT buttons.
- -Out **ICS**: Enables the floor foot switch to key the ICS system.

RADIO RECEIVE
- -**COM1**: Enables VHF 1 radio receive audio controls volume.
- -**COM2**: Enables VHF 2 radio receive audio controls volume.
- -**COM3**: Not Used
- -**PHONE**: Enables satellite phone receive audio and controls volume
- -**PAGE**: Enables crew to hear sidetone audio for cabin paging.

VOL
- -**ICS**: Receive audio volume control for the ICS system.
- -**RADIO**: Receive audio volume control for any source selected by the RADIO

EMER Emergency switch which connects the headset corresponding to the audio controller to the "on-side" Comm radio.

NAV RECEIVE
- -**VOR1** and **VOR2**: Enables VOR 1 and VOR 2 receive audio.
- -**MB1** and **MB2**: Enables MB 1 and MB 2 receive audio.
- -**DME1** and **DME2**: Enables DME 1 and DME 2 receive audio.
- -**ADF**: Enables ADF receive audio.



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SOFTWARE/DATABASE MATRIX

System	EGPWS	Honeywell Multi-Function Radar Display (MFRD)	Garmin GMX-200			Universal UNS-1Fw
Title	Mk XXII Enhanced Ground Proximity Warning System (EGPWS)	Custom checklist	Garmin Base Map	Jeppesen NavData	Jeppview / Chartview	Nav Database
Type of Database or Service Available	TAWS	Custom checklist	Cities, roads, rivers, and lakes	Airports, airways, navaids, and airspace	Airport surface maps, standard approach, departure, and instrument procedures charting	Airports, navaids, enroute waypoints, terminal waypoints, SIDS, STARS, Airways, Holding Patterns, Approaches, Runways, Communication Frequencies
Source of Database/Service	Honeywell	On-Board Data Systems (www.obds.com)	Garmin	Jeppesen	Jeppesen	Universal
Region Included at Delivery	North America (NAM)	N/A	Worldwide	Worldwide	**Full USA** **(Rev. A)**	Worldwide
Data Transfer Hardware Included	- PC Card - Smart Cable PC Card Reader/Writer.	None	None, database built into unit	- SD data card - SD card reader/writer	Uses same SD card and reader/writer as NavData	- USB flash drive (min 1 GB) - Solid State Data Transfer Unit
Update or Download Procedure	Download required regions database to laptop and transfer database to Mk XXII unit via Smart Cable Loader to update.	Contact OBDS	None	Download required updates using Jeppesen Services Update Manager Application and transfer to SD data card.	Download required updates using Jeppesen Services Update Manager Application and transfer to SD data card.	Download required updates to flash drive and insert into the Data Transfer Unit. The Data Transfer Unit is connected to a data port located on the right side of the center console for transfer of data to unit.
Update Period	Approximately every four months or per service bulletin	None	No updates available	Every 28 days	Every 14 days	Every 28 days
Subscription Duration Included	None. Data is free	None, contact OBDS for more information	N/A	One Year	One year	One year

EFTA01117598

SIKORSKY AIRCRAFT

INTERIOR CONFIGURATION DOCUMENT

S76 Deluxe VIP Aircraft, SILENCER Interior
8-PASSENGER CONFIGURATION

Document Number: SK337-00592
Customer: Air Ghislaine II
Date: January 27, 2009
Rev.-A, February 5, 2009
Rev.-B, March 5, 2009
Rev.-C, June 8, 2009
Rev.-D, August 3, 2009

Revision Log:

Original release: January 27, 2009 (PRELIMINARY)

Revision –A: February 5, 2009 (PRELIMINARY)

1. Deleted Code 90017, Customer Furnished Custom Cabin Interior Materials
2. Deleted Code 90023, Forward-Facing Bench Seat, 3-4 Passengers With Single, Standard-Width Fold-Down Arm Rest
3. Deleted Code 63013, Aft-Facing Bench Seat, 3-4 Passenger
4. Deleted Code 41030, Entertainment Package 2, Audio Moving Map
5. Added Code 63014, Aft-Facing Bench Seat, 3-4 Passenger, With Fold-Down Table And Arm Rests
6. Added Code 63036, Forward-Facing Bench Seat With Fold-Down Arm Rests And Fold-Down Table
7. Added Code 90040, Redesign Forward Cabin Bulkhead To Extend Lower, The Bottom Of The Standard Narrow Windows
8. Added Code 90041, New Custom Cabin Upholstery Style Variation Of Standard Style #2
9. Added Code 90038, IPod Dock In Aft RH Window Reveal
10. Added Code 90042, Custom Cabin Interior Materials, (Leather, Carpet, Panel Covering)
11. Added Code 90043, Custom Ferrari Color Exterior Metallic Paint
12. Added Code 90044, Custom Cabin Headset Hooks (Quantity 8)
13. Added Code 90045, Shoe-Cleaning Mat On Boarding Steps LH/RH
14. Changed Location Of ICG Handset From LH To RH On Code 90025.
15. Deleted code 90012, Boarding Steps to Be Surfaced With Coarse Non-Skid
16. Deleted code 90016, Headset Hangars Located at ceiling Level Above All 8 Cabin Seats

Revision –B: March 5, 2009 (PRELIMINARY)

1. Deleted code 63014, Aft Facing Bench, Three/Four Passenger w/ Fold-Down Center Table, and Armrests
2. Deleted code 90005, Eight Bose Headset Jacks
3. Deleted code 63036, Forward-Facing Divan, Three/Four Passenger w/Fold-Down Center Table and Armrests
4. Re-added code 63013, Aft-Facing Bench Seat, 3-4 Passenger with Fold-Down Arm Rests
5. Added code 63038, Forward-Facing Divan, Three/Four Passenger w/Fold-Down Armrests
6. Added code 90036, Cabin ICS System with 8 BOSE Headset Jacks
7. Added code 90039, Entertainment System

Revision –C: June 8, 2009 (PRELIMINARY)

1. Added reference to shoe-cleaning mat to boarding step codes 80001, and 80002
2. Noted computer renderings as "Reference Only", and added customer-provided upholstery style photo.
3. Changed the location of the ICG SATPHONE back to the aft RH window in code 90025.
4. Deleted Code 30061, Cabin ICS
5. Deleted Code 30093, Cabin Call System
6. Deleted Code 63013, Aft-Facing Bench Seat
7. Deleted Code 90041, New Custom Upholstery Style, as this is contained within code 90042
8. Delete Code 90043, Custom Ferrari Paint Color, as this is standard material and application
9. Added Code 90046, HEEDS Bottles Mounts on Cockpit Side Posts (Similar to AC 698 and 700)
10. Added Code 90047, Umbrella Holders on Inside of Baggage Compartment Doors (Similar to AC 698)
11. Added Code 90048, Custom Aft-Facing Bench Seat
12. Added Code 90049, Custom Forward-Facing Bench Seat
13. Added Code 90051, Custom Carpet, Patterned Throughout
14. Revised Code 90042 Material Descriptions
15. Removed Irrelevant Codes

Revision –D: August 3, 2009

1. Removed the word "Pending" in Contract Amendment references
2. Deleted code 90051, Custom Carpet, Patterned Throughout

BASELINE AIRCRAFT

The following is the interior equipment that is standard with the S76

Aft Bulkhead, Upholstered	An upholstered bulkhead is provided in the aft cabin behind the aft cabin seat grouping. (See unique configuration for exact bulkhead configuration).
Air Outlets, Cockpit	Dual air outlets for the pilot and copilot are provided in the cockpit overhead. Air outlets furnish ventilated air and conditioned air if the air conditioning option is selected.
Assist Straps, Cockpit	Ridged entry assist straps are provided on the pilot and copilot doorframes.
Deck Liner, Baggage	A one-piece molded liner is provided on the baggage compartment deck.
Exit Signs, Self-Illuminating	FAA-approved self-illuminating signs marking the approved emergency exits are located in the cabin (See unique configuration for location).
Fire Extinguisher, Cabin	A fire extinguisher is located in the cabin. (See unique configuration for location).
Fire Extinguisher, Cockpit	A cockpit fire extinguisher is located on the right hand side of the controls closet available to both the pilot and copilot.
First Aid Kit	A first aid kit is provided in the cockpit on the left hand side of the controls closet (See unique configuration for location).
Flame Block, Seat Cushions	Cockpit and cabin seat cushions are manufactured from foam qualified as a flame block material.
Flashlights, Cockpit	MAG Light "C" cell flashlights are located in the chin window area individually accessible by the pilot and copilot, (1) left hand and (1) right hand.
Hangar, Cockpit Headsets	Pilot and copilot headset hangars are located on the controls closet.
Interior Surfaces, Baggage	The interior baggage compartment structure and lining is painted with textured polyurethane paint (white).
Life Vest, Provisions	All cockpit and cabin seats are furnished with life vest provisions (Storage space and placards).
Light, Cockpit Utility	Cockpit utility lights located on the controls closet individually accessible to the pilot and copilot, (1) left hand and (1) right hand. **(Replaced by Gooseneck Lights per option code 85012)**
Lighted Signs, Cabin	A lighted "no smoking/fasten seat belt" sign is located in the forward and aft cabin according to appropriate FAA regulations. These signs are controlled from the cockpit. (See Systems Specification for functional details)
Lights, Cockpit Overhead	Dual cockpit overhead dome lights and dual cockpit overhead adjustable lights, each with individual on/off switch and dimmer. Final positions of the overhead lights are dependent upon other overhead equipment installed.
Manual Holder, Cockpit	Storage is provided for manual holders in a compartment located on the lower left hand and right hand cockpit doors.
Placards, Interior	Emergency and informational interior placards (English) are provided in the cockpit and cabin (See unique configuration for type and style).
Scuff Plates, Cockpit	Dual brushed stainless steel scuff plates are located on the cockpit floor beneath each set of yaw control pedals.
Seats, Cockpit	Pilot and copilot seats with the following features: 5-point restraint harness, vertical height adjustment, fixed headrests, life vest storage provisions and fabric upholstery. **(Fabric upholstery replaced by Sheepskin per option code 70016)**

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63000 DELUXE VIP INTERIOR GROUP

Deluxe VIP interior package includes all those items listed as Standard Equipment plus the following:

Acoustic Treatment	"Silencer" interior wall panel system with secondary airframe acoustic blanket kit. Includes all decorative coverings. Standard ceiling and wall covering can be either Ultrasuede or Ultraleather.
Air Outlets, Cabin	Dual air outlets located in the in cabin headliner to deliver conditioned or vent air, four (4) places.
Armrest Ledges	Wood finished armrest ledges run along the full length of the cabin including sidewalls and cabin doors. The cabin doors include an integral magazine rack. **(Magazine rack deleted per Option Code 90019)** Decorative coverings include a combination of leather, plated metal trim and wood ledge tops.
Bulkhead, Cabin to Cockpit	A bulkhead dividing the cockpit and cabin is provided in the forward cabin. This bulkhead is integral with the "Silencer" wall panel system and cannot be removed. **(Bulkhead storage added per option Code 63071)**
Carpet, Cabin/Cockpit	90-ounce machine-made wool carpet is provided as standard for the cabin floor, cockpit floor, and trim. Carpet is provided in both standard and custom colors. Custom carpet weaves/patterns, including hand-made, can be provided at additional expense.
Carpet, Spare	A spare set of carpeting is provided for the cockpit and cabin (floors only).
Coat Hooks	Pilot and copilot coat hooks are located on the outboard sides of the divider bulkhead.
Color Selections	Colors are per approved customer selections.
Curtains, Bulkhead Widows	Snap-mounted night-flight curtains are installed over the bulkhead windows on the cockpit side. **(Provide tie up straps on bulkhead window curtains to create a single action curtain roll down feature for the pilot and copilot.)**
Door Pulls, Cabin	Fixed, machined metal cabin door pulls, with decorative plating, are provided on the cabin doors.
Drink Holders, Cabin	Drink holders are provided in the cabin (See unique seat plan for locations).
Drink Holders, Cockpit	Drink holders are installed on the cockpit door frames (two).
Ducting, Heat/Vent	The cabin and cockpit ECS ducting can accommodate the C4 system auto climate system or the individually controlled heat/ventilation/air conditioning systems.
Extension, Cushion Support	The structure beneath the seat cushions in the rear cabin is extended to provide both support for the seat bottom cushions and storage. Storage consists of three (3) storage compartments behind hinge down doors.
Floor Runners	A Set of vinyl maintenance covers provided for both cockpit and cabin floors. Snaps are provided on the cabin entry doorsills as a hold down feature.
Gear Pin Storage, Baggage	A vinyl pouch is provided on the inside of the left and right hand baggage doors to store the landing gear lock pins.
Glare Shield, Cockpit	Painted (low-glare, textured black) glare shield with leather-covered leading edge.
Leather Trim, Cockpit	Leather trim is basic on the cockpit seat trim, cockpit fire extinguisher cover, overhead panels in cockpit, wrapped cyclic and collective sticks, manual holders on cockpit doors, glare shield leading edge, console storage pouch, and miscellaneous trim.
Lights, Cabin	A General Cabin Lighting system is installed consisting of rows of wash lights in the cabin headliner and dimmable from up to four (4) positions. A cabin Emergency Lighting System in the cabin ceiling is activated automatically with loss of power, or manually by the crew. A Reading Light System consisting of dual overhead reading lights is located in the cabin headliner, four (4) places, and switched from remote switch panel positions. **(Reading lights relocated per Option Code 90022, ADDED per Contract Amendment.)** A switch inside the doorway illuminates a timed Entry Light System for a timed interval off the aircraft battery. Dual cabin

	switches are provided, on the outboard area of the fuel cell extension. (See Systems Specification for functional details).
Lights, Threshold	Boarding lights are installed on the bottom of each cabin door (See Systems Specification for functional details).
Manual Holders, Cockpit	Expanded Manual Holders installed in lower fwd and aft cockpit doors. The enlarged manual holders replace the standard manual holders.
Switches	Switch panels (up to four (4) panels) are provided to control of “Entry, Reading, and General Cabin Wash” lighting systems. **(Reading lights relocated per Option Code 90022, ADDED per Contract Amendment.)** (See Systems Specification for functional details).
Metal Finishes, Cabin	Decorative metal plating is provided in the cabin per customer approved selections.
Nut Plates, Cabin Windows	Cabin opera windows are installed with nut plates, in lieu of screws and nuts, to allow removal of windows without removing the interior.
Placards	Color coordinated, reverse printed, emergency/informational (English)
Seat Covers	Seat maintenance slipcovers are provided for all cockpit and cabin seats.
Seating, Cabin	Select seating style from the following pages to customize the floor plan. A choice of various upholstery styles is available.
Seat Fitting Removal	All unused cabin floor fittings are removed as a weight savings.
Stain Guard Protection	All cabin and cockpit textile materials are treated with stain guard protection.
Storage Pouch, Cockpit	Storage pouch located on the left hand side of the center console.
Windows, Cabin	Gray inner panel window tint is provided for the cabin and bulkhead windows.
Windows, Fwd Bulkhead	Left and right tinted sliding windows (small) located above the aft facing bench seat in the bulkhead dividing the cabin from the cockpit. Windows may be opened or closed from either side. **(See code 90040 which extends lower the narrow forward bulkhead windows, ADDED per Contract Amendment.)**
Wood Veneer, Cabin	Wood veneer finish is basic on the cockpit/cabin divider bulkhead, cabin sidewall/door ledge tops and divan storage extension. **(Wood finishes on cabin side of forward and aft bulkheads are replaced with upholstery as per code 90042, ADDED per Contract Amendment.)**

ADDITIONAL AVIONICS ITEMS

The following are interior related options that are part of the contracted Additional Avionics Items

30012. Audio jacks – emergency (Standard and Bose)
Emergency audio jack panel is located in the pilots' ceiling. See Systems Specification for panel layouts, positions and system function.

30020. Audio Jacks, Cockpit – Bose
Audio jack panel is located in the pilots and copilots ceiling. Pilots' panel is integrated with option code 30012. See Systems Specification for panel layouts, positions and system function.

Rev-C ~~**30061. Cabin ICS**~~ **DELETED per Contract Amendment**

Rev-C ~~**30093. Cabin Call System**~~ **DELETED per Contract Amendment**

31021. Speakers – Door, Two
Speakers located in the cabin door trim, (1) left hand and (1) right hand, to support the cabin audio functions. See Systems Specification for panel layouts, positions and system function.

32001. Cellular Phone Base and Charger.
Mounting provisions and power for customer furnished cellular phone base in the cockpit. See Systems Specification for panel layouts, positions and system function.

~~**32024. Satellite Communications System, Aircell ST 3100**~~ **– DELETED per Contract Amendment**

PAINTS AND FINISHES

50002. VIP interior paint preparation and finish

50012. VIP exterior paint preparation and finish

Executive / VIP exterior paint preparation and finish details include a single base color and three trim stripe colors. Additional colors are available at extra charge. DuPont polyurethane paint is included with a choice of colors from their selection charts.

Airframe placards and straight aircraft registration numbers are standard. Also included is a single (per side), single-color customer logo if requested, provided timely availability of camera-ready art from the customer. All other screws, camlocks and fasteners of routinely-removed fairings and covers are left unpainted. Other paint manufacturers and custom colors, as well as seals, additional logos, flags and emblems, are available at additional charge. Gloss and flat paint finish choices are available with this option.

Note 1)
Sikorsky helicopters are painted with high quality, “high-solid”, environmentally compliant paint. Paint texturing is inherent in the final paint finish.

Note 2)
The aircraft will have two paint quality zones. Areas that are normally viewed at eye level will have an improved paint finish quality than areas that are viewed primarily by aircraft maintenance personnel, such as the top deck, underside of aircraft and tail section.

INTERIORS

The following are interior related options that are part of the contracted Additional Interior Items:

Rev-C **~~63013. Aft-Facing Bench Seat, 3-4 Passenger, with 3 Under-Seat Drawers~~ DELETED per Contract Amendment**
Three/four passenger aft facing divan located in forward cabin. Features Include: leather upholstery with color coordinated lap belts and inertia reel equipped shoulder harness for each passenger; retractable headrests; two fold down armrests; three under-seat storage cabinets with pull-out drawers.

63071. Bulkhead storage compartment - crew (Aft-Facing Bench Seat)
The cockpit/cabin divider is modified to allow for pilot and copilot storage behind the crew seats. This modification uses the unused cabin space located behind the aft facing bench seat.

~~63085. Cabin Coat Hooks, Two~~ DELETED per Contract Amendment

63098. Acoustic Noise Reduction, Bay Blanket Acoustic Kit
Acoustic blanket kit is installed in the cabin overhead against the main transmission beams and surrounding primary structure to reduce cabin noise.

70016. Sheepskin Seating - crew seats
The standard fabric crew seat upholstery covers are replaced with customer-furnished sheepskin with customer-furnished leather trim.

70052. Seat Belt Extension
A 12-inch seat belt section that can be used to extend any one of the cabin lap belt harnesses.

72063. Flight Manual Storage, LH Controls Closet
A storage compartment installed on the left hand side of the controls closet in the cockpit to hold a 2.0-inch thick flight book.

76017. Cabin Door Vents, Remove
Removal of the baseline cabin door ventilation NACA scoops and valves. The outer cabin door skin is repaired and valve mechanism removed.

77034. Single Action Doors Release, Cabin/Cockpit
One link is added to the emergency door release pull lever that simultaneously raises the door lock, thus permitting a single release of the cabin and cockpit door locks in an emergency.

AIRCRAFT ITEMS

The following are interior related options that are part of the contracted Aircraft Items

Rev-C **80001. Boarding step, retractable - LH**
Retractable left hand cabin door entry step. **(Reference Option Code 90045 for shoe-cleaning mat per Contract Amendment)** See Systems Specification for functional details.

Rev-C **80002. Boarding step, retractable - RH**
Retractable right hand cabin door entry step. **(Reference Option Code 90045 for shoe-cleaning mat per Contract Amendment)** See Systems Specification for functional details.

80082. Engine Inlet Cover Storage
A storage compartment is provided on the inside of the left and right hand baggage doors to hold an engine inlet ground plug.

80086. Maintenance covers – Exterior
Padded vinyl covers to cover and protect external work surfaces during maintenance.

80092. Enhanced Door Pins, Cockpit ADDED per Contract Amendment
Replaces the existing upper door pins on the pilot and copilot doors with an enhanced pin that provides a better grip.

84051. C4 Environmental System
Automatically controlled cabin environmental system maintains cabin temperature to a pre-set temperature. See System Specification for complete functional details.

85012. Gooseneck map lights *(ex.)*
Dual gooseneck map lights replacing the standard utility lights in the cockpit. The light fixtures will be located on the cockpit windshield posts, (1) for the pilot and (1) for the copilot. See system Specification for other functional details.

86026. Sun Tint – Windshield
The top 6-8 inches of the windshield shall be tinted with 3M-tinted film.

86054. Track and Balance Accelerometers Installed in Fuel Cell Extension
Track and balance accelerometers are preinstalled and wired inside of the fuel cell cabinets below the leading edge of the aft seats.

CUSTOMER UNIQUE OPTIONS

90002. Clear Coat Exterior Paint Over Metallic
A clear coat protective finish is applied over any metallic paint.

90003. Stainless Hardware
Exterior fairing/access panel hardware is replaced with stainless steel hardware.

~~**90004. Relocate Reading Lights**~~ **DELETED per Contract Amendment**

Rev-B ~~**90005. Eight Bose Headset Jacks**~~ **DELETED per Contract Amendment**

~~**90009. Cabin iPod Jack**~~ **DELETED per Contract Amendment**

90010. Cockpit iPod Jack
Audio input jack in cockpit for iPod type device. Entertainment audio to be heard in both cockpit BOSE headsets only. See Systems Specification for panel layouts, positions and system function.

Rev-A ~~**90012. Boarding Steps to Be Surfaced With Coarse Non-Skid**~~ **DELETED per Contract Amendment**

~~**90013. Forward Facing 3-4 Passenger Bench Seat W/ Wide, Single, Fold Down Armrest**~~ **DELETED per Contract Amendment**

~~**90015. Sheepskin Throw Carpet for Cabin Floor**~~ **DELETED per Contract Amendment**

Rev-A ~~**90016. Headset Hangars Located at ceiling Level Above All 8 Cabin Seats**~~

Rev-A ~~**90017. Custom Cabin Interior Materials, Customer-Furnished Materials (Leather, Carpet, Panel Covering)**~~ **DELETED per Contract Amendment**

90019. Do Not Install the Code 63000 Magazine Storage in the Lower cabin Doors

90020. Custom Upholstery/Cushion Fabrication Requiring Customer Approval Via Pre-Production Prototype

~~**90021. Cell phone Interface into the Cabin ICS System**~~ **DELETED per Contract Amendment**

90022. Relocate Single Forward/Aft LH/RH Reading Lights Outboard, to be Centered on the Outboard Passenger Seats ADDED per Contract Amendment
A single forward/aft LH/RH reading light will be relocated in the outboard upper ceiling. These are centered on the aft outboard passenger seat locations. The corresponding reading light switch, combined with a cabin dome light switch, is relocated alongside, and outboard of the light. See code 90024.

90024. Relocate The Reading Light Switches To The Overhead Area, Adjacent To The Reading Lights. Relocate the Dome Light Switches on the Same Panel as the Relocated Outboard Reading Light Switches, in the Outboard Position ADDED per Contract Amendment
Refer to code 90022. Refer to the System Specification for further information.

Rev-C **90025. ICG Satellite Phone System with Support of Blackberry E-mail ADDED per Contract Amendment**
An ICG satellite phone is installed flush-mounted within the aft ~~LH~~ **RH** window reveal. Refer to the System Specification for further information.

90032. Four 110 Volt AC Outlets in Cabin ADDED per Contract Amendment
Four 110 volt AC power outlets, with lift-up covers, are installed as follows: one each at the outboard corners of the fuel cell extension cabinet and the aft-facing bench seat base. These are installed above the 12 volt DC outlets in code 90033. Refer to the System Specification for further information.

90033. Four 12 Volt DC Automotive-type Jacks in Cabin ADDED per Contract Amendment
Four 12 volt DC outlets, with lift-up covers, are installed as follows: one installed below each of the 110 volt AC outlets in code 90032. Refer to the System Specification for further information.

90034. Modify Cabin Interior Door Handle Lighting per Customer Preference ADDED per Contract Amendment
The recessed light within the cabin door recesses are replaced with single recessed lights that illuminate the door handle. These are similar to current credenza lights, and provide a single source reflectance. Refer to the System Specification for further information.

Rev-B **90036. Cabin ICS System with 8 BOSE Headset Jacks ADDED per Contract Amendment**
Eight (8) BOSE headset jacks are installed for use with the cabin ICS system in the cabin (custom locations). See Systems Specification for panel layouts, positions and system function.

Rev-C **90039. Entertainment System with:**
- 3 Audio sources: iPod dock, auxiliary stereo audio input, and XM Radio from Garmin GDL-69A
- Switch panels (qty 4) with Source Select and Call button
- Audio plays over headsets only, not speakers

Rev-A **90040. Redesign Forward Cabin Bulkhead To Extend Lower The Bottom Of The Standard Narrow Windows ADDED per Contract Amendment**

Rev-C ~~**90041. New Custom Cabin Upholstery Style**~~ **DELETED**

Rev-C **90042. Custom Cabin Interior ADDED per Contract Amendment**
The customer will specify, in a timely manner, the custom interior materials and finishes and ~~leather and~~ carpet of their choice. The Completion Center will furnish all the interior materials and finishes for the aircraft. The Completion Center will furnish SAC and the customer, samples for color approval. The customer-selected materials ~~leather~~ will be used to upholster the cabin seat upholstery, interior headliners, sidewall panels, aft and forward bulkheads and other incidental trim. In some areas, some exposed stitching seams ~~will~~ may be evident.

Rev-C ~~**90043. Custom Ferrari Color Exterior Metallic Paint**~~ **DELETED**

Rev-A **90044. Custom Cabin Headset Hooks (Quantity 8) ADDED per Contract Amendment**
Eight custom cabin headset hangars will be installed against the bulkheads at ceiling level, (4) forward and (4) aft.

Rev-A **90045. Shoe-Cleaning Mat On Boarding Steps LH/RH ADDED per Contract Amendment**

Rev-C **90046. HEEDS Bottle Mounts on Cockpit Side Posts (Similar to AC 698 and 700) ADDED per Contract Amendment**

Rev-C **90047. Umbrella Holders on Inside of Baggage Compartment Doors (Similar to AC 698)** **ADDED per Contract Amendment**

Rev-C **90048. Custom Aft-Facing Bench Seat, 3-4 Place, with Single Shortened Fold-Down Padded Arm Rest** **ADDED per Contract Amendment**

Three/four passenger aft-facing divan located in forward cabin. Features Include: Custom upholstery design as per customer-furnished photo references; customer-selected materials upholstery with color coordinated lap belts and inertia reel equipped shoulder harness for each passenger; retractable headrests; single shortened fold-down padded arm rest; three under-seat storage cabinets with pull-out drawers.

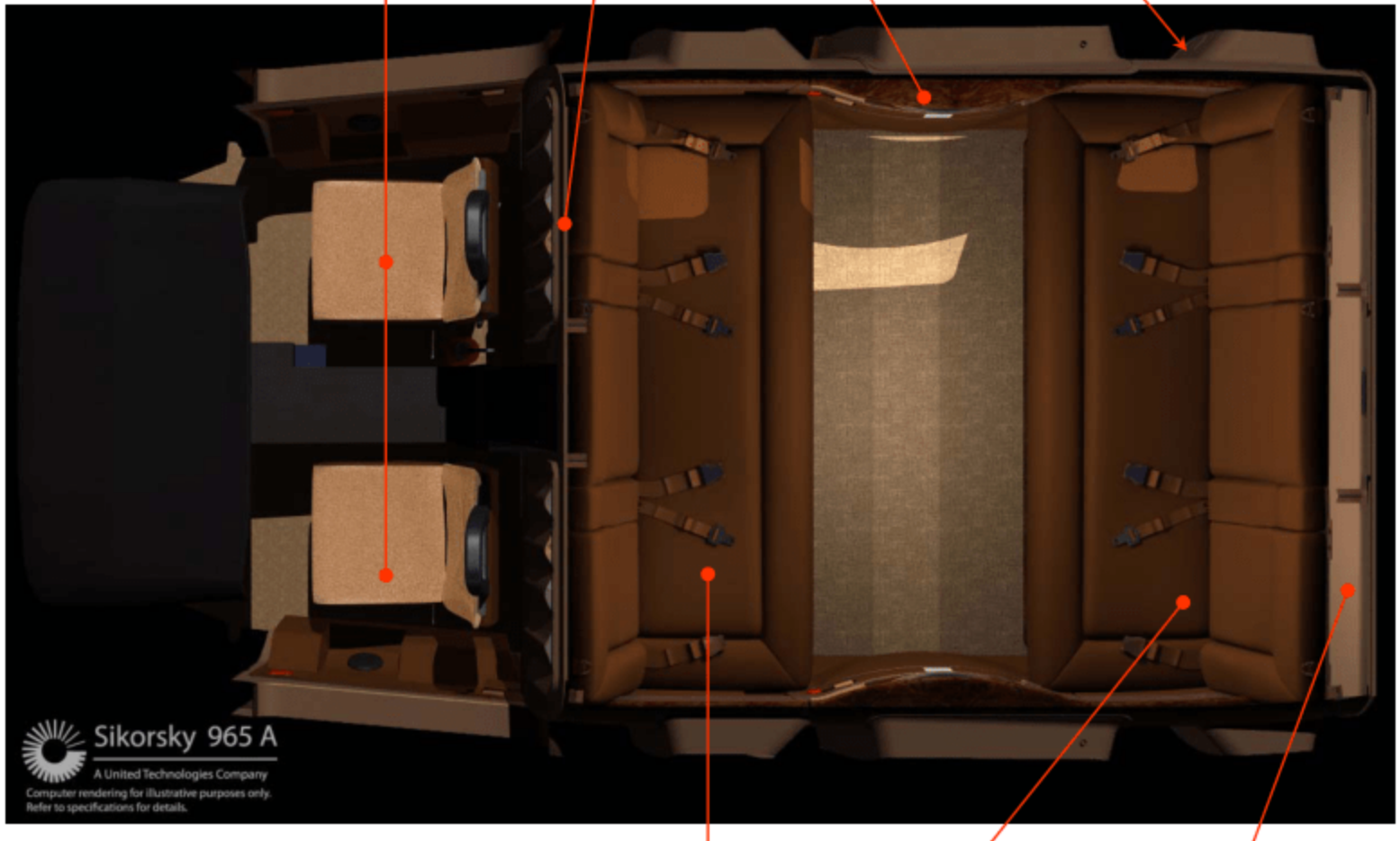
Rev-C **90049. Custom Fwd-Facing Bench Seat, 3-4 Place, with Single Shortened Fold-Down Padded Arm Rest** **ADDED per Contract Amendment**

Three/four passenger fwd-facing divan located in aft cabin. Features Include: Custom upholstery design as per customer-furnished photo references; customer-selected materials upholstery with color coordinated lap belts and inertia reel equipped shoulder harness for each passenger; single shortened fold-down padded arm rest; three under-seat storage compartments with fold-down doors.

Rev-D ~~**90051. Custom Carpet, Patterned Throughout**~~ **DELETED**

BASELINE AIRCRAFT
ADDITIONAL AVIONICS ITEMS
INTERIORS
AIRCRAFT ITEMS

The computer Illustration below approximates the color of customer-specified materials. However, the upholstery styling is for reference only. Refer to the customer-furnished photos and layout diagram below for the customer-approved upholstery style.



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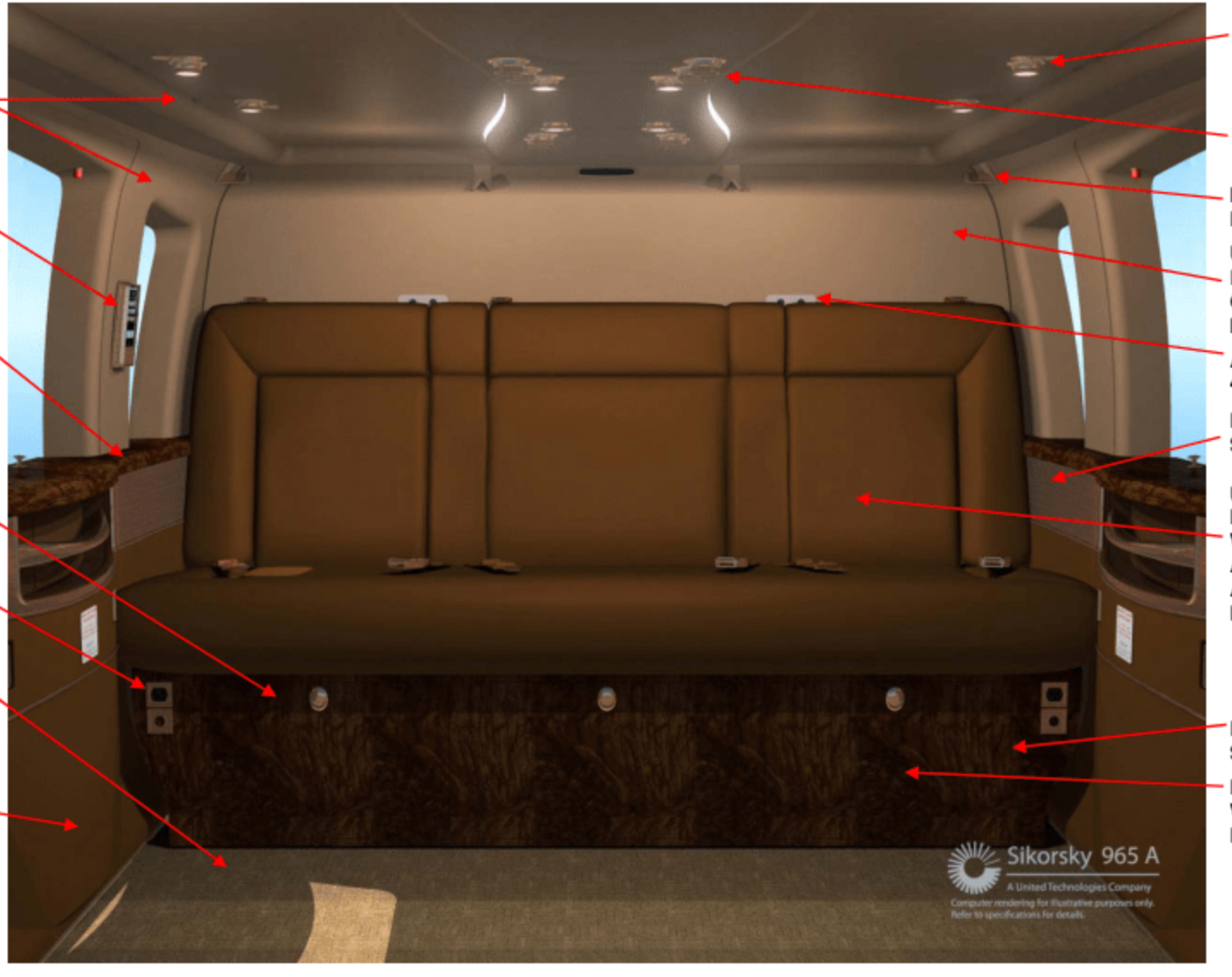

UPHOLSTERED INTERIOR PANELS WITH CUSTOMER-SPECIFIED MATERIAL

IPOD DOCK

WOOD OUTBOARD DRINK RAILS AND METAL TRIM BELOW

FIRE EXTINGUISHER STORAGE

110 VOLT AC AND 12 VOLT DC OUTLETS WITH FLIP-UP COVERS LH/RH

CUSTOM CUSTOMER-SUPPLIED CARPETING

REMOVED MAGAZINE COMPARTMENTS-BOTH CABIN DOORS

RELOCATED SINGLE READING LIGHT WITH SWITCH AND DOME LIGHT SWITCH

READING LIGHT WITH SWITCH AND AIR VENTS

HEADSET HOOKS- 8 PLACES

UPHOLSTERED AFT-BULKHEAD WITH CUSTOMER-SPECIFIED MATERIAL

AFT HEADSET JACKS 4-PLACES

DECORATIVELY PLATED SIDEWALL TRIM

UPHOLSTERED 3-4 PLACE FORWARD-FACING DIVAN WITH CUSTOM MATERIAL AND UPHOLSTERY STYLE, AND CENTER SHORTENED FOLD-DOWN ARM REST

LIFE VEST STORAGE

FUEL EXTENSION CABINET WITH THREE FOLD-DOWN DOORS AND WOOD FINISH

VIEW AFT

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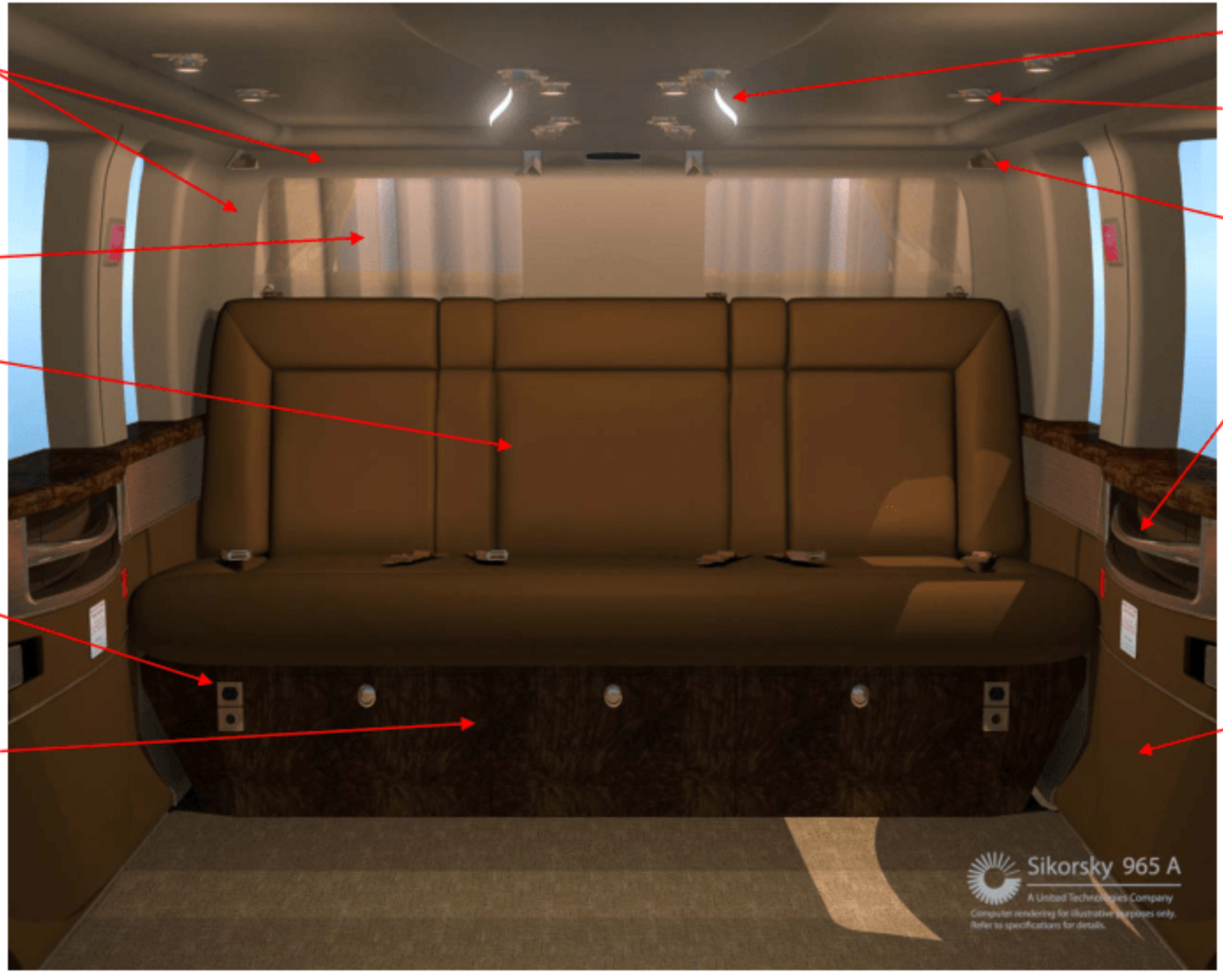
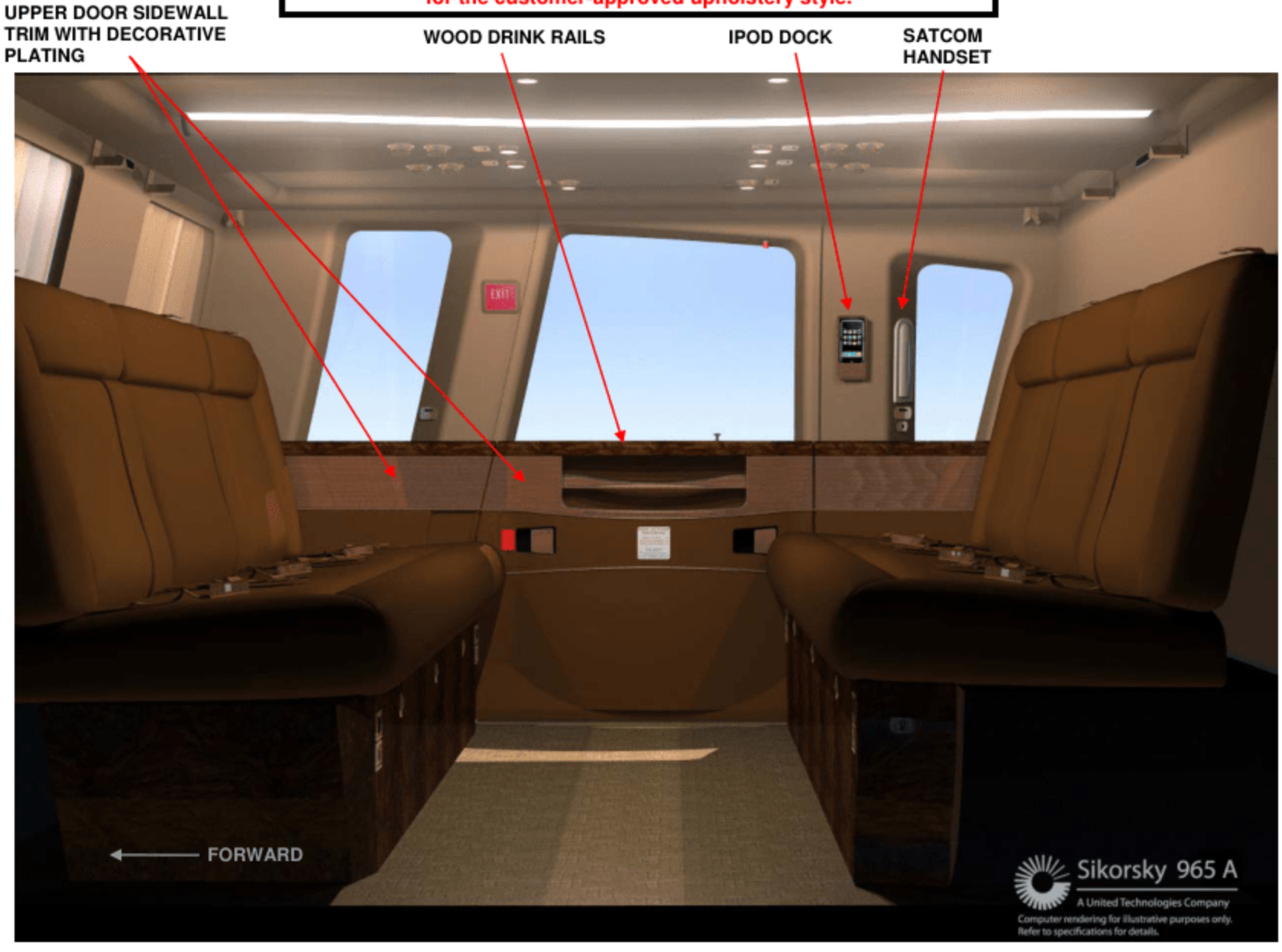


VIEW FORWARD

The computer Illustration below approximates the color of customer-specified materials. However, the upholstery styling is for reference only. Refer to the customer-furnished photos and layout diagram below for the customer-approved upholstery style.



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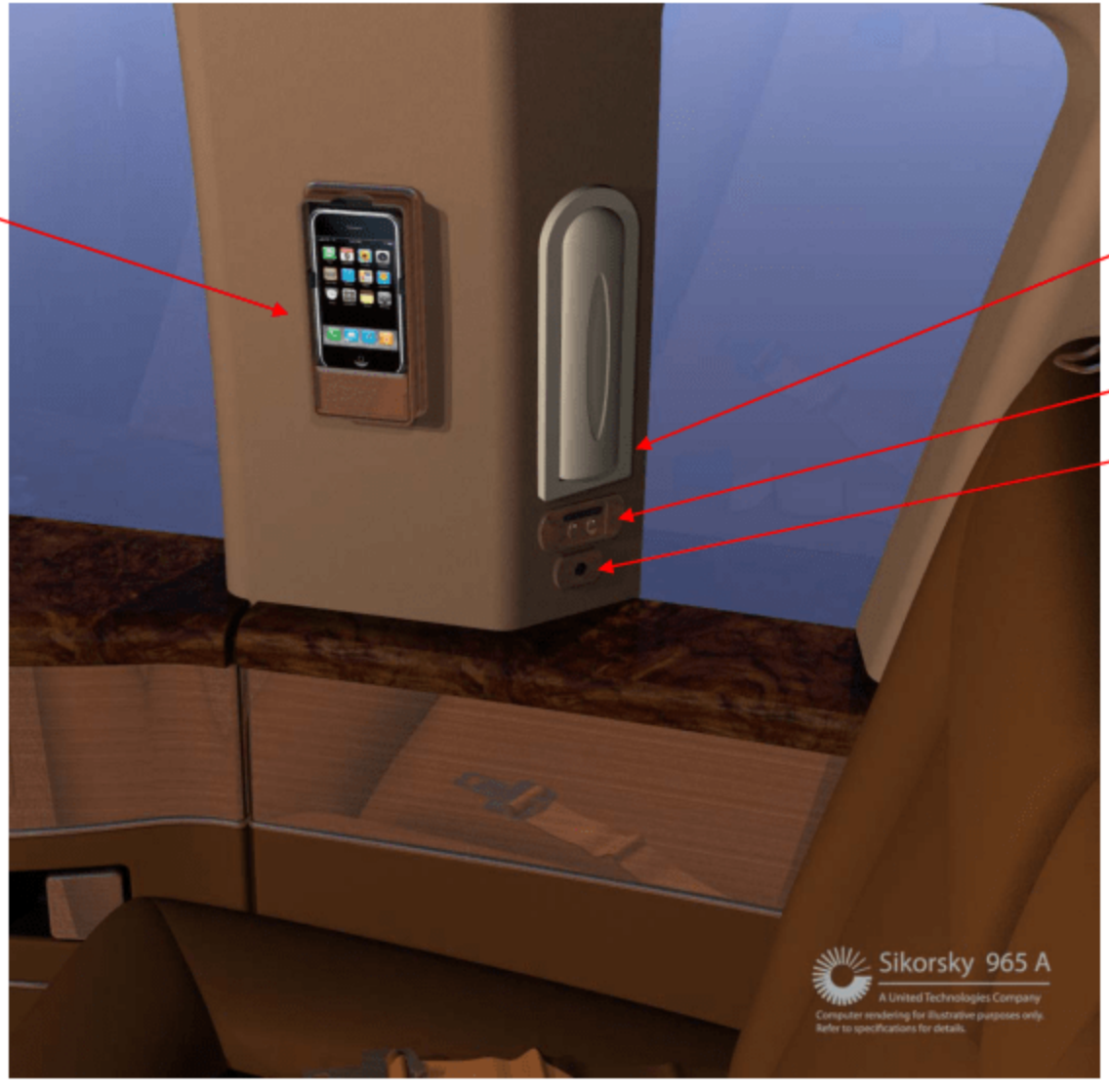

ENTERTAINEMENT AND COMMUNICATION CENTER

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CEILING VIEW

The computer Illustration below approximates the color of customer-specified materials. However, the upholstery styling is for reference only. Refer to the customer-furnished photos and layout diagram below for the customer-approved upholstery style.

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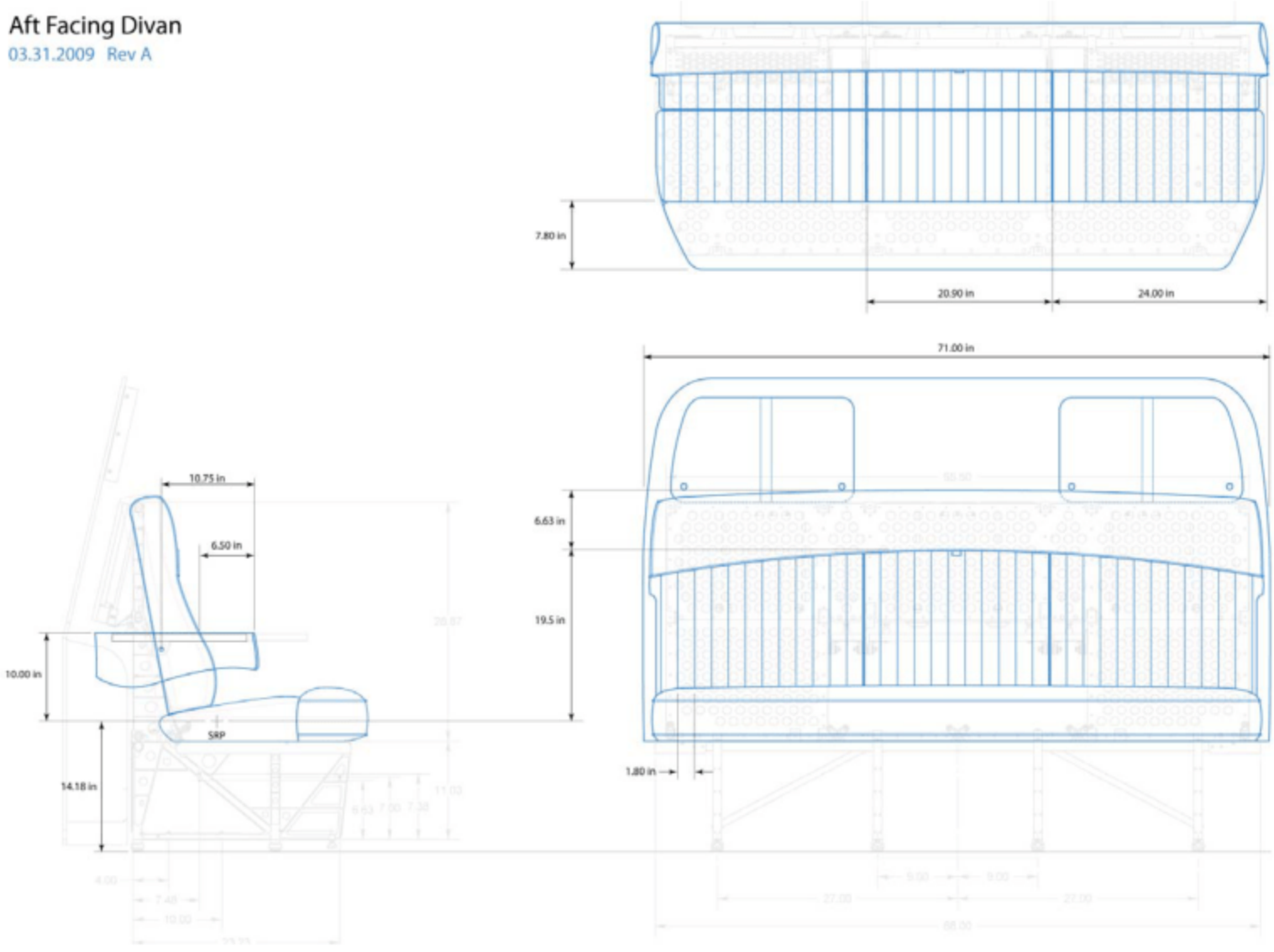
CUSTOMER-FURNISHED PHOTOS OF APPROVED UPHOLSTERY STYLE

UPHOLSTERY LAYOUT DIAGRAM

Dimensions Approximate

Aft Facing Divan

03.31.2009 Rev A