

A2A C182 Skylane

variables list and notes for simpit builders

Gauges:

(L:AirspeedIndicatedNeedle,number)	- airspeed needle
(L:AirspeedTAS,number)	- IAS/TAS conversion chart (range: 0 – 110)
(A:ATTITUDE INDICATOR PITCH DEGREES:1,degrees)	- artificial horizon, attitude
(A:ATTITUDE INDICATOR BANK DEGREES:1,grad)	- artificial horizon, bank
(L:AttitudeIndicatorFlag,bool)	- artificial horizon, flag
(A:INDICATED ALTITUDE:1,feet) 1000 % 10 / 100 +	- altimeter needle (hundreds feet) (range: 0 –200)
(A:INDICATED ALTITUDE:1,feet) 10000 % 100 / 100 +	- altimeter needle (thousands feet) (range: 0 –200)
(A:INDICATED ALTITUDE:1,feet) 100000 % 1000 / 100 +	- altimeter needle (ten thousands feet) (range: 0 –200)
(A:KOHLSMAN SETTING HG:1,inHg) 27.99 - 24.87562 *	- Kohlsman knob in inHg (range: 0 – 100)
(A:KOHLSMAN SETTING HG:1,hectopascals) 950 -	- Kohlsman knob in hPa (range: 0 – 100)
(L:Nav1ObsNeedle,number)	- nav1 obs (range: 0 -180) – read only – inc/dec by default events (&K:VOR1_OBI_INC) and (&K:VOR1_OBI_DEC)
(L:Gsi1Needle,keyframe)	- glideslope indicator (range: 0 – 100)
(L:Gsi1Flag,enum)	- glideslope indicator flag (0 – off, 1 – on)
(L:Cdi1Needle,keyframe)	- course deviation indicator (range: 0 – 100)
(L:ToFrom1Needle,enum)	- to/from flag (0 – off, 1 – to, 2 – from)
(L:FuelLeftWingTank,gallons)	- left fuel tank
(L:FuelRightWingTank,gallons)	- right fuel tank
(L:Eng1_EGTGauge,number)	- exhaust gas temp in F
(L:EGTGauge_ref,percent)	- egt ref needle (range: 0 – 100)
(L:Eng1_CHT,fahrenheit)	- cylinder head temperature in F
(L:Eng1_OilTemp,fahrenheit)	- oil temp in F
(L:Eng1_OilPressure,psi)	- oil pressure in psi
(L:SuctionPressure,inHg)	- suction
(L:Ammeter1,amps)	- ammeter
(A:DELTA HEADING RATE,degrees per second) 1.1 * -10 max 10 min 10 + 5 *	- turn indicator (range: 0 – 100)
(A:TURN COORDINATOR BALL,position) -1 max 1 min 1 + 25 *	- ball (range: 0 – 50)
(L:TurnCoordinatorFlag,bool)	- turn indicator flag

HSI:

(A:NAV1 OBS,degrees)	- course – read only only – inc/dec by default events (&K:VOR1_OBI_INC) and (&K:VOR1_OBI_DEC)
(L:AutopilotHeadingBug,number)	- heading bug – read only – inc/dec by default events (&K:HEADING_BUG_INC) and (&K:HEADING_BUG_DEC)
(L:HsiHeading,degrees)	- heading
(L:GsiNeedle,keyframe)	- glideslope indicator (range: 0 – 100)
(L:CdiNeedle,keyframe)	- course deviation indicator (range: 0 – 100)
(L: ToFromNeedle,enum)	- to/from flag (0 – off, 1 – to, 2 – from)
(L:FlagNAV,bool)	- nav flag
Heading indicator:	
(L:HiAdjust,number)	- heading indicator knob
(L:AutopilotHeadingBug,number)	- heading bug – read only – inc/dec by default events (&K:HEADING_BUG_INC) and (&K:HEADING_BUG_DEC)
(L:HeadingGyro,degrees)	- heading gyro
(L:VerticalSpeed,feet per minute)	- vertical speed indicator
(L:Cdi2Needle,keyframe)	- course deviation indicator (range: 0 – 100)
(L:ToFrom2Needle,enum)	- to/from flag (0 – off, 1 – to, 2 – from)
(L:Cdi2Flag,bool)	- course deviation indicator flag (0 – off, 1 – on)
(L:Nav2ObsNeedle,number)	- nav2 obs (range: 0 -180) – read only – inc/dec by default events (&K:VOR2_OBI_INC) and (&K:VOR2_OBI_DEC)
(L:Eng1_ManifoldPressure,inHg)	- manifold pressure
(L:Eng1_GPH,gallons)	- fuel flow
(L:Eng1_RPM,RPM)	- engine rpm
(L:e1Hour4,number)	- engine hours, thousands
(L:e1Hour3,number)	- engine hours, hundreds
(L:e1Hour2,number)	- engine hours, tens
(L:e1Hour1,number)	- engine hours, ones
(L: e1HourFract1,number)	- engine hours, tenths
(L:AdfHdgNeedle,number)	- adf heading – read only – inc/dec by default events (&K:ADF_CARD_INC) and (&K: ADF_CARD_DEC)
(L:AdfCdiNeedle,keyframe)	- ADF course deviation needle
(A:WISKEY COMPASS INDICATION DEGREES,degrees)	- Whiskey compass

Switches:

(L:Eng1_GeneratorSwitch,bool)	- generator switch
(L:Battery1Switch,bool)	- battery switch
(&K:TOGGLE_ELECT_FUEL_PUMP1)	- fuel pump
(&K:TOGGLE_BEACON_LIGHTS)	- default beacon light toggle event
(&K:LANDING_LIGHTS_TOGGLE)	- default landing light toggle event
(&K:TOGGLE_TAXI_LIGHTS)	- default taxi light toggle event
(&K:TOGGLE_NAV_LIGHTS)	- default nav light toggle event
(&K:STROBES_TOGGLE)	- default strobe light toggle event
(&K:PITOT_HEAT_TOGGLE)	- default pitot heat toggle event
1 (&K:AVIONICS_MASTER_SET) (on)	
0 (&K:AVIONICS_MASTER_SET) (off)	- default avionics master set event

Center pedestal/lower main dash:

(L:Magnetos1Pct,percent)	- starter key (range: 0 – 15: off; 16 – 37: R magneto; 38 – 63: L magneto; 64 – 85: both magnetos; 86 – 100: starter)
	Read only
(L:Magnetos1,enum)	- starter key (0 – Off; 1 – Right; 2 – Left; 3 – Both; 4 – Start)
	Settable
(L: FSelC182State,enum)	- fuel selector (0 – off; 1 – left; 2 – both, 3 – right)
(L:TrimtabPosition,percent)	- elevator trim position– read only – inc/dec by default events (&K:ELEV_TRIM_DN) and (&K:ELEV_TRIM_UP)
(L:RudderTrimPosition,percent)	- rudder trim position– read only – inc/dec by default events (&K:RUDDER_TRIM_RIGHT) and (&K:RUDDER_TRIM_LEFT)
(L:Eng1_CowlFlapsLever,percent)	- cowl flaps (range: 0 – 100)
(L:GlareshieldLightKnob,number)	- illumination of the main dash (range: 0 – 32)
(L:PedestallLightKnob,number)	- illumination of the fuel selector (range: 0 – 32)
(L:RadioLightKnob,number)	- illumination of the radiostack (range: 0 – 32)
(L:PanelLightKnob,number)	- illumination of the gauges (range: 0 – 32)
(L:StaticAir,bool)	- static air lever (on/off)
(L:Throttle1Position,percent)	- throttle lever (range: 0 – 100)
(L:RPMLever1Position,percent)	- propeller lever (range: 0 – 100)
(L:Eng1_MixtureManualLever,percent)	- mixture lever (range: 0 – 100)
(L:LandFlapsPos,enum)	- flaps position lever (0 – up, 1 – 2/4, 2 – 3/4, 3 – down)
(A:TRAILING EDGE FLAPS LEFT PERCENT,percent)	- flaps position indicator (range: 0 – 100)
(L:CabinTempControl,percent)	- cockpit heat (range: 0 – 100)
(L:CabinVent,percent)	- cockpit ventilation (range: 0 – 100)
(L:WindowDefrosterControlKnob,percent)	- windshield defroster (range: 0 – 100)
(&K:PARKING_BRAKES)	- default parking brakes event

Radiostack:

KMA 26 Audioselector:

(L:kma26SelectorKnob_pos,enum)	- Audio selector knob (0 – inop/com1, 1 – com1, 2 – com2, 3 – inop/com2, 4 – inop/com2)
Com1 button	- if com2 transmit selected use default (&K:COM_RECEIVE_ALL_TOGGLE)
Com2 button	- if com1 transmit selected use default (&K:COM_RECEIVE_ALL_TOGGLE)
Com3 button	- inop (FSX supports just two com channels)
Nav1 button	- if (L:kma26Nav1Switch,bool) is zero, toggle default (&K:RADIO_VOR1_IDENT_DISABLE) event
Nav2 button	- if (L:kma26Nav2Switch,bool) is zero, toggle default (&K:RADIO_VOR2_IDENT_DISABLE) event
Mkr button	- if (L:kma26MkrSwitch,bool) is 1 and (A:MARKER_SOUND,bool) is 0 toggle default (&K:MARKER_SOUND_TOGGLE) if (L:kma26MkrSwitch,bool) is 0 and (A:MARKER_SOUND,bool) is 1 toggle default (&K:MARKER_SOUND_TOGGLE)
DME button	- if (L:kma26DmeSwitch,bool) is 1 toggle default (&K:RADIO_DME1_IDENT_ENABLE) if (L:kma26DmeSwitch,bool) is 0 toggle default (&K:RADIO_DME1_IDENT_DISABLE)
ADF button	- if (L:kma26AdfSwitch,bool) is 1 toggle default (&K:RADIO_ADF_IDENT_ENABLE) if (L:kma26AdfSwitch,bool) is 0 toggle default (&K:RADIO_ADF_IDENT_DISABLE)
Aux button	- inop
Moni button	- inop
Marker lights	- (L:kma26OMarker,bool) – outer marker; (L:kma26MMarker,bool) – middle marker; (L:kma26IMarker,bool) – inner marker

KX 155A Com1/Nav1 unit:

Com1 on/off knob	- (L:Com1OnOff,bool)
Com1 STBY button	- (L:Com1StbySwitch,bool)
Com1 CHAN button	- (L:Com1ChanSwitch,bool)
Com1 outer knob	- (L:Com1FreqOuterKnob,percent) (range: 0 – 100)
Com1 inner knob	- (L:Com1FreqInnerKnob,percent) (range: 0 -100)
Com1 inner knob pull	- (L:Com1InnerKnobPull,bool)
Nav1 ident knob	- (L:Nav1Ident,bool) If (L:Nav1Ident,bool) is equal to zero, toggle the (&K:RADIO_VOR1_IDENT_DISABLE) event
Nav1 STBY button	- (L:Nav1StbySwitch,bool)
Nav1 MODE button	- (L:Com1NavSwitch,bool)
Nav1 outer knob	- (L:Nav1FreqOuterKnob,percent) (range: 0 – 100)
Nav1 inner knob	- (L:Nav1FreqInnerKnob,percent) (range: 0 – 100)
Nav1 inner knob pull	- (L:Nav1InnerKnobPull,bool)

KX 155A Com2/Nav2 unit:

Com2 on/off knob	- (L:Com2OnOff,bool)
Com2 STBY button	- (L:Com2StbySwitch,bool)
Com2 CHAN button	- (L:Com2ChanSwitch,bool)
Com2 outer knob	- (L:Com2FreqOuterKnob,percent) (range: 0 – 100)
Com2 inner knob	- (L:Com2FreqInnerKnob,percent) (range: 0 -100)
Com2 inner knob pull	- (L:Com2InnerKnobPull,bool)
Nav2 ident knob	- (L:Nav2Ident,bool) If (L:Nav2Ident,bool) is equal to zero, toggle the (>K:RADIO_VOR2_IDENT_DISABLE) event
Nav2 STBY button	- (L:Nav2StbySwitch,bool)
Nav2 MODE button	- (L:Com2NavSwitch,bool)
Nav2 outer knob	- (L:Nav2FreqOuterKnob,percent) (range: 0 – 100)
Nav2 inner knob	- (L:Nav2FreqInnerKnob,percent) (range: 0 – 100)
Nav2 inner knob pull	- (L:Nav2InnerKnobPull,bool)

ADF unit:

ADF on/off knob	- (L:AdfOnOffKnob,bool)
ADF button	- (L:AdfAdfButton,bool)
BFO button	- (L:AdfBfoButton,bool)
FRQ/Arrows button	- (L:AdfFrqButton,bool) , also set (L:FrqButton,bool) to 1, don't change to 0 on button release
FLT/ET button	- (L:AdfFrqEtButton,bool) , also set (L:FrqEtButton,bool) to 1, don't change to 0 on button release
SET/RST button	- (L:AdfFrqRstButton,bool) , also set (L:FrqRstButton,bool) to 1, don't change to 0 on button release
ADF outer knob	- (L:AdfFreqOuterKnob,percent) (range: 0 – 100)
ADF inner knob	- (L:AdfFreqInnerKnob,percent) (range: 0 – 100)
ADF inner knob pull	- (L:AdfFreqInnerKnobPull,bool)

KT76C transponder unit:

0 button	- (L:xpdr_0_button,bool) , also set (L:xpdr_digit0,bool) to 1, don't change to 0 on button release
1 button	- (L:xpdr_1_button,bool) , also set (L:xpdr_digit1,bool) to 1, don't change to 0 on button release
2 button	- (L:xpdr_2_button,bool) , also set (L:xpdr_digit2,bool) to 1, don't change to 0 on button release
3 button	- (L:xpdr_3_button,bool) , also set (L:xpdr_digit3,bool) to 1, don't change to 0 on button release
4 button	- (L:xpdr_4_button,bool) , also set (L:xpdr_digit4,bool) to 1, don't change to 0 on button release
5 button	- (L:xpdr_5_button,bool) , also set (L:xpdr_digit5,bool) to 1, don't change to 0 on button release
6 button	- (L:xpdr_6_button,bool) , also set (L:xpdr_digit6,bool) to 1, don't change to 0 on button release
7 button	- (L:xpdr_7_button,bool) , also set (L:xpdr_digit7,bool) to 1, don't change to 0 on button release
IDT button	- (L:xpdr_ident_button,bool)
CLR button	- (L:xpdr_clr_button,bool) , also set (L:xpdr_clr,bool) to 1, don't change to 0 on button release
VFR button	- (L:xpdr_vfr_button,bool) , also set (L:xpdr_vfr,bool) to 1, don't change to 0 on button release
On/off knob	- (L:xpdr_onoff_knob_pos,enum) (0 – off, 1 – Standby, 2 – Test, 3 – On, 4 – Alt)

KAP 140 Autopilot unit:

AP button - (L:kap140_ap_button,bool), also set (L:kap140_ap,bool) to 1, don't change to 0 on button release
 HDG button - (L:kap140_hdg_button,bool) , also set (L:kap140_hdg,bool) to 1, don't change to 0 on button release
 NAV button - (L:kap140_nav_button,bool) , also set (L:kap140_nav,bool) to 1, don't change to 0 on button release
 APR button - (L:kap140_apr_button,bool) , also set (L:kap140_apr,bool) to 1, don't change to 0 on button release
 REV button - (L:kap140_rev_button,bool) , also set (L:kap140_rev,bool) to 1, don't change to 0 on button release
 ALT button - (L:kap140_alt_button,bool) , also set (L:kap140_alt,bool) to 1, don't change to 0 on button release
 UP button - (L:kap140_up_button,bool) , also set (L:kap140_up,bool) to 1, don't change to 0 on button release
 DN button - (L:kap140_dn_button,bool) , also set (L:kap140_dn,bool) to 1, don't change to 0 on button release
 ARM button - (L:kap140_arm_button,bool) , also set (L:kap140_arm,bool) to 1, don't change to 0 on button release
 BARO button - (L:kap140_baro_button,bool) , also set (L:kap140_baro,bool) to 1, don't change to 0 on button release
 AP inner knob - (L:kap140_InnerKnob,percent) (range: 0 – 100)
 AP outer knob - (L:kap140_OuterKnob,percent) (range: 0 – 100)

KN62 DME unit:

On/off switch - (L:kn62OnOff,bool)
 Function switch - (L:kn62Function,enum) (0 – Remote; 1 – Frequency; 2 – Groundspeed/Time to station)
 DME outer knob - (L:Kn62OuterKnob,percent) (range: 0 – 100)
 DME inner knob - (L:Kn62InnerKnob,percent) (range: 0 – 100)
 DME inner knobPull - (L:Kn62InnerKnobPull,bool)

Annunciator panel:

Test switch - (L:AnnunciatorPanelTestSwitch,enum) (0 – Test; 1 – Dim; 2 – Bright), Test is spring loaded
 VAC L - (L:VacLLight,bool) and (L:AdditionalDamage,number) 18.1 ==
 VAC R - (L:VacRLight,bool) and (L:AdditionalDamage,number) 18.2 ==
 VAC - (L:VacLight,bool) and (L:AdditionalDamage,number) 18.3 ==
 Fuel L - (L:FuelLLight,bool) and (L:AdditionalDamage,number) 18.4 ==
 Fuel R - (L:FuelRLight,bool) and (L:AdditionalDamage,number) 18.5 ==
 Fuel - (L:FuelLight,bool) and (L:AdditionalDamage,number) 18.6 ==
 Oil pressure - (L:OilPressLight,bool) and (L:AdditionalDamage,number) 18.7 ==
 Pitch trim - (L:PitchTrimLight,bool) and (L:AdditionalDamage,number) 18.8 ==
 Volts - (L:VoltsLight,bool) and (L:AdditionalDamage,number) 18.9 ==

 Nav mode - (L:NavModeLight,bool)
 GPS mode - (L:GpsModeLight,bool)

FSX GNS400 GPS:

- gps_on_switch - toggle (L:GpsOnSwitch,bool), (&K:GPS_POWER_BUTTON) and (&K:GPS_CLEAR_ALL_BUTTON)
- NRST button - (&K:GPS_NEAREST_BUTTON)
- OBS button - (&K:GPS_OBS_BUTTON)
- MSG button - (&K:GPS_MSG_BUTTON)
- FPL button - (&K:GPS_FLIGHTPLAN_BUTTON)
- TERR button - (&K:GPS_TERRAIN_BUTTON)
- PROC button - (&K:GPS_PROCEDURE_BUTTON)
- RNG plus button - (&K:GPS_ZOOMOUT_BUTTON)
- RNG minus button - (&K:GPS_ZOOMIN_BUTTON)
- D button - (&K:GPS_DIRECTTO_BUTTON)
- MENU button - (&K:GPS_MENU_BUTTON)
- CLR button - toggle (&K:GPS_CLEAR_BUTTON) event and increase (L:GpsClrSwitchCounter,enum) by one.
If (L:GpsClrSwitchCounter,enum) is equal 90 toggle (&K:GPS_CLEAR_ALL_BUTTON) event and reset the counter.
- ENT button - (&K:GPS_ENTER_BUTTON)
- GPS outer knob - (L:GpsOuterKnob,percent) for knob rotation in VC, use (&K:GPS_GROUP_KNOB_DEC) and (&K:GPS_GROUP_KNOB_INC) events for GPS function.
- GPS inner knob - (L:GpsInnerKnob,percent) for knob rotation in VC, use (&K:GPS_PAGE_KNOB_DEC) and (&K:GPS_PAGE_KNOB_INC) events for GPS function.
- GPS inner knob push - toggle (L:GpsInnerKnobPush,bool) for VC animation, use (&K:GPS_CURSOR_BUTTON) event for GPS function.

Misc:

ELT switch (L:EltSwitch,enum) (0 – On; 1 – Auto; 2 – Reset)

Headphones simulation:

To set the headphones on three things are needed in this sequence:

(L:Headphones,bool) set to 1; (L:SystemCondSelectFSX,number) set to 57; (L:SystemCondValueFSX,number) set to 1

To set the headphones off these three variables has to be set in this sequence:

(L:Headphones,bool) set to 0; (L:SystemCondSelectFSX,number) set to 57; (L:SystemCondValueFSX,number) set to 0

Airframe hours counter:

(L:a1Hour4,number)	- airframe hours, thousands
(L:a1Hour3,number)	- airframe hours, hundreds
(L:a1Hour2,number)	- airframe hours, tens
(L:a1Hour1,number)	- airframe hours, ones
(L: a1HourFract1,number)	- airframe hours, tenths

Doors:

(>K:TOGGLE_AIRCRAFT_EXIT) (>K:SELECT_1)	- left doors (toggle)
(>K:TOGGLE_AIRCRAFT_EXIT) (>K:SELECT_2)	- right doors (toggle)
(L:WindowLeft,bool)	- left window (toggle)
(L:WindowRight,bool)	- right window (toggle)