

P/N ASI-140	Heading Synchro Kit
P/N ASI-141	Heading Control Transformer Kit
P/N ASI-145	To-From Meter Kit
P/N ASI-146	Flag Meter Kit
P/N ASI-147	Deviation Meter Kit
P/N ASI-150	Track Selector Kit

This unit is manufactured to replace the OEM model and/or part number listed below in form, fit, and function.

Description of Operation

P/N ASI-140	Heading Synchro Kit (Bowmar dual speed drive coupled to a synchro)
P/N ASI-141	Heading Control Transformer Kit (Bowmar dual speed drive coupled to a control transformer)
P/N ASI-145	To-From Meter (500-0-500 μ a meter wired for single meter loading)
P/N ASI-146	Flag Meter (0-500 μ a meter wired for single meter loading)
P/N ASI-147	Deviation Meter (100-0-100 μ a meter wired for single meter loading)
P/N ASI-150	Track Selector Kit (Bowmar dual speed drive coupled to a resolver)

These kits provide a quick and efficient means of upgrading existing test panels for greater service capability. All of the above listed kits come prewired and calibrated for easy installation.

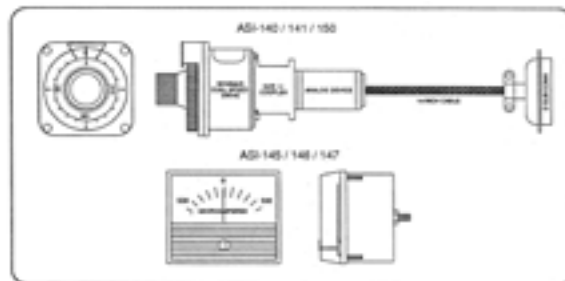
Optional Equipment

ASI MN	Equivalent P/N	Description
ASI-166	522-0167-001	Resolver Zeroing Panel (479X-2)
ASI-215		Synchro/Resolver/Control Transformer Test Panel

Specifications

ASI-140/141/150	
Height	2.250"
Weight	2.250"
Depth:	5.500"

ASI-145/146/147	
Height	2.375"
Weight	2.750"
Depth	2.250"



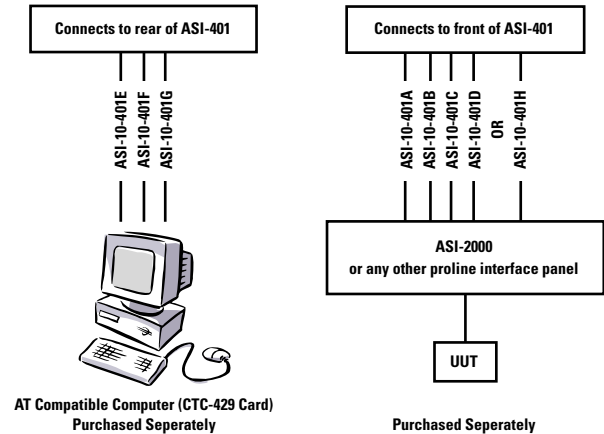
ASI401 Interface w/ Pro Line Test Panels

The ASI401 connects any pro-line interface fixture to a PC (AT compatible computer). This panel will allow the user to convert the pro-line interface from the Apple IIe to the newer computer, which is required to run the PC compatible test software available from Collins.

The ASI401 simply plugs into the pro-line interface fixture, facilitating a quick conversion from the Apple IIe to the PC. No modification of the pro-line fixture is required for installation of the ASI401, thus allowing the user to switch from one computer to the other in a matter of minutes. The ASI401 will work with any pro-line fixture (ASI2000) and includes cables required for installation.

ASI401-1: Includes interface panel and seven cables required for operation and general installation.

P/N ASI 401



ASI-401 Interface Panel Cables

ASI-10-401A	CABLE
ASI-10-401B	CABLE
ASI-10-401C	CABLE
ASI-10-401D	CABLE
ASI-10-401E	CABLE
ASI-10-401F	CABLE
ASI-10-401G	CABLE

ASI203 Altimeter Test Set

This unit is manufactured to replace the OEM model and/or part number listed below in form fit and function.

Equivalent OEM: Collins

Equivalent Model Number: 980N-1

Equivalent **P/N 522-4610-004**

Units Tested

AL101 Radio Altimeter System

AL101A Radio Altimeter System

Description of Operation

The ASI203 Altimeter Test Set is designed to isolate faults and perform routine flight-line maintenance tests on the AL101 and AL101A Radio Altimeter Systems. The Test Set requires a user supplied 339H-1 () for proper operation. The ASI 203 can be used for functional bench checks of the Collins 860F-1 Receiver transmitter and the 339H-() Indicator; it also provides the capability to test the ground proximity warning systems (GPWS).



ASI83C Audio Watt Meter

The ASI83C Audio Watt Meter is a precision instrument capable of power measurements from 100 microwatts to 200 watts. The unit features 12 common impedance loads, and additional non-inductive external loading may be coupled for an extended range of impedance matches. The ASI83C has a frequency response from 20 Hz to 20 KHz with no more than a ± 0.5 dB error. The nearly flat power curve across this range is due to the use of non-reactive components within the load bank.

Meter scale readings are shown as watts or as decibels referenced to 1 milliwatt, 0 dB being the equivalent of 1 milliwatt of power. The power range switch is incremented in 10 dB steps from 0 dB (2 milliwatts full scale meter reading) to 50 dB (200 watts full scale meter reading).

P/N ASI83C



ASI110-1 Solid State Digital Synchro

The ASI110 provides precise control over systems requiring ARINC standard synchro sources. The Digital Synchro is available with an accuracy of ± 0.067 degrees (± 4 minutes) and 0.1 degree resolution; the output can be set in either 0.1 or 10 degree increments. An autorotation feature allows cycling at rates of 99, 150, and 300 degrees per second. The ASI110 has the drive capability for multiple control transformer and control differential transmitter loads (up to 7 VA) and torque receiver loads (up to 7 VA). The ASI110 is housed in a standard ARINC AT1 style case and is protected against short circuits, overloads and transient voltages.

P/N ASI110-1



ASI502 Control Wizard

The ASI-502 Control Wizard emulates many major avionics control functions for testing requirements. The Control Wizard is capable of controlling ADF, HF/VHF COM, DME, NAV, Transponder, or any other system that requires ARINC 429 serial, CSDB serial, or Parallel tuning methods including BCD and 2x5 (8.33/25 kHz).

The Control Wizard can also read and display ARINC 429 Control Data, Collins CSDB Control Data, and ARINC 579 VOR Bearing Data, which may eliminate the need for more expensive data bus readers or numerous test control heads.

The Control Wizard comes preprogrammed with control functions required for general testing of avionics equipment. Optional custom control programming available upon request.

Optional rear connector adapters are available which allow existing cables to plug directly to the ASI-502 Control Wizard. This is useful in existing bench test harness and flight line use. The ASI-502 with the ASI-50-2B adapters will directly replace the ASI-500-1/2 control Head Simulator.

P/N ASI502



ASI-160B Deluxe Universal Heading and Track Selector

The ASI-160B facilitates calibration of both “manual” and “automatic” VOR converters, the VOR section of RNAV units, and when used in conjunction with a control/interface panel will allow monitoring of the deviation and flag current outputs. A To-From meter is built into the unit. The OBS resolver is capable of both EZ (400 Hz) and ORZ (30Hz) output.

The ASI-160B requires a user supplied RMI (332C-10/KNI-581) for operation.

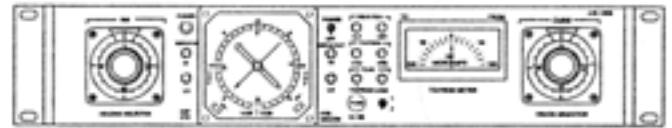
P/N ASI160B

Equipment Supplied

ASI MN	OEM P/N	Description
	DA-15S	Mating Connector
	DB-25S	Mating Connector

Optional Equipment

ASI MN	OEM P/N	Description
ASI-16-B1	NPN	Cable, ASI-160B/C to KNI-582
ASI-16-B2	NPN	Cable, ASI-160B/C to RMI-36
ASI-16-B3	NPN	Cable, ASI-160B/C to Linaire LV-5
ASI-16-B4	NPN	Cable, 479V-3 Mating Adapter
ASI-16-B5	NPN	Cable, ASI-160B/C to 977A-1 TB-2
ASI-16-B6	NPN	Cable, ASI-160B/C to Linaire LV-6
ASI-215	NPN	Synchro/Resolver/Control Trans. Test Panel



Specifications

Size	H 3.50" x W 19.00" x D 13.00"
Power	UUT
UU	Various Avionics

ASI-160C Universal Heading and Track Selector with Meters

The ASI-160C facilitates calibration of both “manual” and “automatic” VOR converters and the VOR section of RNAV units. The test panel has built in meters to monitor the Deviation, Flag, and To-From outputs. The OBS resolver is capable of both EZ (400 Hz) and ORZ (30Hz) output. The ASI-160C combines all of the features of both the ASI-160B and ASI-190B into one test panel.

P/N ASI160C

Equipment Supplied

ASI MN	OEM P/N	Description
	DA-15S	Mating Connector
	DB-25S	Mating Connector

Optional Equipment

ASI MN	OEM P/N	Description
ASI-16-B1	NPN	Cable, ASI-160B/C to KNI-582
ASI-16-B2	NPN	Cable, ASI-160B/C to RMI-36
ASI-16-B3	NPN	Cable, ASI-160B/C to Linaire LV-5
ASI-16-B4	NPN	Cable, 479V-3 Mating Adapter
ASI-16-B5	NPN	Cable, ASI-160B/C to 977A-1 TB-2
ASI-16-B6	NPN	Cable, ASI-160B/C to Linaire LV-6
ASI-215	NPN	Synchro/Resolver/Control Trans. Test Panel



Specifications

Size	H 3.50" x W 19.00" x D 13.00"
Power	From UUT
UUT	Various Avionics

ASI190B

Universal Precision Track Selector & Indicator

The ASI-190B is designed to facilitate calibration of "manual" VOR converters, the VOR section of R-NAV units, and monitor the deviation and flag current outputs. To-From meter is built into the unit.

P/N ASI190B



ASI-2000 Test System

Design of the ASI-2000 Test System revolves around the Collins Proline Series of digital avionics equipment, and requires the Apple IIe computer for control of the unit and to display test instructions.



Design considerations were based on knowledge of past, understanding of the present and anticipation of the future. The mainframe with plug-in method was chosen due to its flexibility and expandability.

P/N ASI2000

ASI-2000 System Matrix

Verify which plug-in to use with ASI-2000 Mainframe

	VHF-20	VHF-21	VHF-22	VHF-422	VIR-30	VIR-31	VIR-32	VIR-432	CTL-22	CTL-32	CTL-62	CTL-92	CAD-62	CAD-92	DME-40	DME-42	DME-442	TDR-30	ADF-60A,B	ADF-462	CTL-230	CAD-870G	CAD-870	DDA-42	RTU-870	RAC-870	KFS-564A	KFS-576-A	KFS-586-A	KFS-588-A	KFS-579	COM/ARINC	NAV/ARINC	KDM-706A	BIA-32	ALT-50/55B			
ASI-200-1								X	X	X	X																												
ASI-200-2()					X	X	X																																
ASI-200-3	X	X	X																																				
ASI-200-4												X	X																										
ASI-200-5													X	X																									
ASI-200-6															X	X																							
ASI-200-7																											X	X	X	X	X								
ASI-200-8																											X	X	X	X	X								
ASI-200-9																																	X						
ASI-200-10																			X	X														X					
ASI-200-11				X																																			
ASI-200-12								X																															
ASI-200-13																X																							
ASI-200-14																	X					X																	
ASI-200-15																		X						X															
ASI-200-16																																					X		
ASI-200-17																										X													
ASI-200-18																							X			X													
ASI-200-19																																						X	
ASI-200-20																																							X
ASI-500-1	X	X	X		X	X	X							X	X		X	X														X	X	X					
ASI-600-1				X	X	X												X	X														X			X			

Note: One ASI-2000 mainframe will accommodate any plug-in; however, to overcome the single operation limitation, multiple mainframes co-located with separate Apple IIe computers are commonplace in large shops, especially airlines and MOD centers.