

Beech Aircraft Corporation

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# OVERHAUL SPECIFICATION

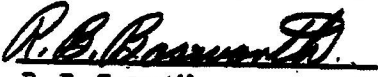
INSTRUMENTS - MODEL C-45G AND C-45H

OVERHAUL SPECIFICATION 3201

ISSUED April 28, 1953

REVISED September 28, 1953

  
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Rockwell Corporation

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TITLE INSTRUMENTS - MODEL C-45G AND C-45H

ISSUED April 28, 1953

WRITTEN BY J.M. Taylor REVISED September 28, 1953

1. SCOPE

1.1 Purpose.-- The purpose of this specification is to authorize the use of reconditioned parts and provide reconditioning instructions for component parts of the complete instruments system as installed in T-7, T-7C, UC-45B, C-45F and T-11 aircraft and instructions for modifications required to adapt them for installation in Model C-45G and C-45H aircraft in accordance with Drawings 694-183801, 694-183802, 694-183850 and 694-183851.

1.2 Application.-- All reconditioning operations and repairs covered by this specification may be accomplished where required without further authorization. Repairs not authorized by this specification cannot be performed without further authorization.

1.3 List of Pages and Revisions.-- This specification consists of the pages listed below. An asterisk (\*) denotes the pages revised by the current revision.

<u>Page</u>	<u>Date</u>	<u>Description of Revision</u>	<u>Serial Effectivity</u>
* 1	9-28-53	Correct Drawing No. Para. 1.1	Record Change
2	4-28-53		
3	4-28-53		
4	4-28-53		
5	4-28-53		
* 6	9-28-53	List alternate instruments	Record Change
* 7	9-28-53	List alternate instruments	Record Change
* 8	9-28-53	List alternate instruments	Record Change
* 9	9-28-53	List alternate instruments	Record Change
*10	9-28-53	List alternate instruments	Record Change
*11	9-28-53	List alternate instruments	Record Change
*12	9-28-53	List alternate instruments	Record Change
*13	9-28-53	List alternate instruments	Record Change
*14	9-28-53	List alternate instruments	Record Change
*15	9-28-53	List alternate instruments	Record Change
*16	9-28-53	List alternate instruments	Record Change
*17	9-28-53	List alternate instruments	Record Change
*18	9-28-53	List alternate instruments	Record Change

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**2. APPLICABLE PUBLICATIONS****2.1 Specifications:****2.1.1 Beech.-**

OS 7002      Cleaning Procedures for Reconditioned Aircraft  
OS 7008      General Acceptable Quality Standards  
OS 7010      Removing Corrosion from Aluminum Parts  
OS 7012      Instrument Cleaning

**2.2 Technical Orders.-** The technical orders listed below become a part of this specification by reference and a copy of each is maintained in the area where the overhaul work is to be accomplished.

**2.2.1 Clocks.-**

05-35A-4      Navigation Clock (Bulova), dated July 5, 1944  
05-35A-6      Aircraft Clocks (Elgin), dated September 1, 1952  
05-35A-7      Aircraft Clocks (Waltham), dated May 15, 1952

**2.2.2 Gyro Horizon Indicators.-**

05-20-9      Type AN5736 Gyro Horizon Indicator, dated December 26, 1951  
05-20GD-2      Gyro Horizon Indicators, dated March 10, 1952  
05-20GD-3      Gyro Horizon Indicators' (Parts Catalog), dated February 1, 1946

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2.2.3 Directional Gyro Indicators.-

- 05-20H-2 Directional Gyro Indicators, dated March 10, 1952
- 05-20HC-1 Directional Gyro Indicator, dated August 1, 1951
- 05-20-10 Directional Gyro Indicators, Type AN5735, dated May 4, 1948

2.2.4 Cylinder Head Temperature Indicators.-

- 05-40D-1 Thermocouple Thermometers (DeJur Ansco), dated August 5, 1943
- 05-40D-2 Thermocouple Thermometers (Lewis), dated June 17, 1949
- 05-40D-6 Thermocouple Thermometers (Weston), dated April 1, 1952
- 05-40D-7 Thermocouple Thermometer Indicators (Weston), dated January 3, 1952

2.2.5 Carburetor Air Temperature Indicators.-

- 05-40B-5 Thermometer Indicators, dated November 19, 1945
- 05-40B-6 Thermometer Indicators (Hickok), dated April 28, 1952
- 05-40B-12 Thermometer Indicators (Weston), dated August 24, 1949
- 05-40BA-1 Temperature Indicators (Edison), dated March 28, 1952

2.2.6 Engine Gages.-

- 05-75-1 Engine Gage Units, dated August 5, 1943
- 05-75AA-2 Engine Gage Unit, dated August 25, 1945
- 05-75AB-1 Engine Gage Units, dated September 15, 1952

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- 2.2.7 Fuel Gage.-
  - 05-65A-6 Fuel Gage Systems, dated September 4, 1951
- 2.2.8 De-icer Pressure Gage and Auto Pilot Pressure Gage.-
  - 05-70-2 Pressure Gages, dated June 15, 1951
- 2.2.9 Manifold Pressure Gage.-
  - 05-70C-2 Dual Manifold Pressure Gages, dated August 25, 1943
  - 05-70E-1 Manifold Pressure Gages, dated April 18, 1949
- 2.2.10 Ammeter.-
  - 05-60D-1 Direct Current Ammeter, dated October 17, 1949
  - 05-60D-2 Direct Current Ammeter (Parts Catalog), dated March 29, 1951
  - 05-60C-2 Direct Current Ammeter, dated April 1, 1949
  - 05-60C-3 Direct Current Ammeter (Parts Catalog), dated March 9, 1949
  - 05-60-3 Ammeter (Roller-Smith), dated October 1, 1945
- 2.2.11 Altimeter.-
  - 05-30-16 Sensitive Altimeters (Kollsman), dated August 23, 1949
  - 05-30-17 Sensitive Altimeters; dated March 15, 1952
  - 05-30-18 Sensitive Altimeters (Parts Catalog), dated April 4, 1951
  - 05-30-26 Sensitive Altimeters, dated January 15, 1952
  - 05-30-27 Sensitive Altimeters, dated January 15, 1952

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2.2.12 Suction Gage.-

05-80-1 Suction Gages, dated September 6, 1949

2.2.13 Bank and Turn Indicator (Vacuum).-

05-20-2 Bank and Turn Indicators, dated June 9, 1952

05-20-41 Turn and Bank Indicators, dated July 15, 1950

2.2.14 Electric Tachometer Indicator.-

05-5-5 Electric Tachometers (General Electric), dated February 29, 1952

05-5-6 Electric Tachometers (Parts Catalog), dated September 30, 1952

2.2.15 Air Speed Indicator.-

05-10-1 Air Speed Indicators, dated May 14, 1952

05-10-21 Air Speed Indicators, dated November 6, 1951

2.2.16 Rate of Climb Indicators.-

05-20-17 Rate of Climb Indicators, dated April 17, 1946

05-20-27 Rate of Climb Indicator, dated May 1, 1952

05-20-42 Rate of Climb Indicators, dated October 1, 1952

2.2.17 Magnetic Compass.-

05-15-46 Magnetic Compass, dated August 31, 1951

05-15-96 Standby Compass AN5766T3, dated December 1, 1952

05-15-97 Standby Compass - Illustrated Parts Breakdown, dated December 1, 1952

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2.2.17 Magnetic Compass.- (Continued)

05-15-102 Pilots' Standby Type AN5766T3 Compass, dated November 15, 1952

05-15-103 Pilots' Standby Compass - Illustrated Parts Breakdown, dated November 15, 1952

2.2.18 General.-

05-1-83B Use of Instrument Mounting Nut, dated January 16, 1952

05-1-86 Refinishing of Instrument Dials, dated March 21, 1950

05-1-88 Elimination of Matte Green Material on Instrument Dials, dated April 10, 1951

05-1-1A Inspection, Maintenance, Shipment and Storage of all Instruments, dated September 20, 1949

## 3. REQUIREMENTS

3.1 Parts Involved:

3.1.1 Parts Not Used.- All parts of the instrument system removed from aircraft received for overhaul except those parts listed in Paragraph 3.1.2 of this specification will be disposed of at the direction of the customer.

3.1.2 Parts to be Reconditioned.- The following parts are to be reconditioned in accordance with instructions contained herein. "Reconditioned" means the disassembly, cleaning, inspection and correction of discrepancies, repair and/or replacement of components, and modifications to incorporate changes in accordance with applicable engineering drawings to assure an operationally safe and serviceable aircraft.

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3.1.2 Parts to be Reconditioned.- (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Airspeed indicator		94-27952B	AW2-3/4-16U	U.S. Gauge
			1426-1Z-A1	Eclipse-Pioneer
			1426-1AE-A1	Eclipse-Pioneer
			32450	King-Seeley
			586BK-0110	Kollman
			586BU-0110	Kollman
Altimeter	AN5760-14B	MI-A-6863		
	AN5760-1	94-27386	371K-010	Kollman
	AN5760-2	94-27386	544KN-05	Kollman
	AN5760-T2A	94-27957A	671CK-010	Kollman
	AN5760-L2	94-27457	544KN-04	Kollman
	AN5760-4	94-27957	671CP-190-17	Kollman
	AN5760-4	94-27958	671CFU-190-15	Kollman
	AN5760-4A	94-27958A	671CFU-015	Kollman
	AN5760-4B	94-27386	671CU-015	Kollman
			709K-01	Kollman
			94OU-03	Kollman
			94OU-03C	Kollman
			671CP-190-16	Kollman
			671CKL-015	Kollman
			671CKL-010	Kollman
			94OL-02	Kollman
			671CK-010-4	Kollman
			671CK-018	Kollman
			671CP-8-25	Kollman
			671CP-8-016	Kollman
			671BK-07	Kollman
			671BK-07C	Kollman
			671BK-011	Kollman
			671CP-8-017	Kollman
			671CFU-8-030	Kollman
			671CFX-4-037	Kollman
			1845X-4-03	Kollman
		671BK-03	Kollman	
		671BK-010	Kollman	



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3.1.2 Parts to be Reconditioned.- (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Altimeter			671BK-900C	Kollsman
			671K-01	Kollsman
			371K-05,	Kollsman
			371K-03	Kollsman
			371BK-03	Kollsman
			134BK-01	Kollsman
			134BK-046	Kollsman
			940U-03	C.G. Conn
			671BK-900C	C.G. Conn
			671BK-010	C.G. Conn
			8000	C.G. Conn
Carb. Temp.	AN5795-6 AN5795-T6A	AN-GG-I-522	60015	Hickok Elec.
			60015A	Hickok Elec.
			33205	T. A. Edison
			33724	T. A. Edison
			33704	T. A. Edison
			10284A	Elec. Auto-Lite
			10499A	Elec. Auto-Lite
			10736A	Elec. Auto-Lite
			8DJ24AAB	General Electric
			2213-9	Sutton-Horsley
110612	Weston Elec.			
Climb Indicator	AN5825-7 AN5825-T6 AN5825-T3 AN5825-T5 AN5825-3 AN5825-1 AN5825-2	MIL-I-7721 94-27967 AN-I-33 94-27408	716BK-8-036	Kollsman
			716BU-4-052	Kollsman
			637K-03	Kollsman
			716U-03	Kollsman
			716BK-5-046	Kollsman
			716K-03	Kollsman
			639K-03	Kollsman
			731KN-02	Kollsman
			731KN-04	Kollsman
			731KN-08	Kollsman
			1636-6A-A1	Eclipse-Pioneer

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3.1.2 Parts to be Reconditioned. - (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Climb indicator			1636-6A-B1	Eclipse-Pioneer
			1636-6H-B1	Eclipse-Pioneer
			1636-6M-B1	Eclipse-Pioneer
			1636-6M-A1	Eclipse-Pioneer
			1636-6G-B1	Eclipse-Pioneer
			1636-6K-B1	Eclipse-Pioneer
			1636-6M-B2	Eclipse-Pioneer
			1636-6N-B1	Eclipse-Pioneer
			1644-6N-A1	Eclipse-Pioneer
			1645-6M-A1	Eclipse-Pioneer
			716BU-8-036	Ryan
		716BU-8-036	Blackstone	
Clock	AN5743-2 AN5743-T1A AN5743-1A	AN-C-99A 94-27970A	21AE	Bulova
			1776	Elgin
			1792	Elgin
			2113A	Elgin
			2113	Elgin
			63EAF	Longines
			19-41	Longines
			A-11-63F	Longines
			3315-2B-A	Eclipse-Pioneer
			22809A	Waltham
			22809B-12	Waltham
22809-T1A	Waltham			
Compass (Magnetic)	AN5766-T2 AN5766-1 AN5766-T3 AN5766-T4	MIL-C-5604 AN-C-146 27471A	1630U-4-03	Kollsman
			CB-2100-3	Airpath
			CB-2100	Airpath
			B-520	Livingston
Compass (Radio)			814B	Kollsman
			I-81-A	Bendix
		ADF-14	Lear	

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3.1.2 Parts to be Reconditioned. - (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Cyl. Hd. Temp.	AN5536-2A	AN-I-6A	222-22	DeJur Anasco
	AN5536-2	94-27971	222-22A	DeJur Anasco
	AN5536-T2A		76AT3	Lewis Eng.
			76AT3B	Lewis Eng.
			76AT3C	Lewis Eng.
			76B15	Lewis Eng.
			102319	Weston Elec.
			110507	Weston Elec.
			110586	Weston Elec.
			114657	Weston Elec.
			117662	Weston Elec.
		138325	Weston Elec.	
Deicer Gage	AN5771-3A	NIL-G-7734	10269A	Elec. Auto-Lite
	AN5771-3	94-27924	10648A	Elec. Auto-Lite
		94-27841	6753-109	Manning, Maxwell, Moore
			N-948	Manning, Maxwell, Moore
			AW1-7/8-16AC	U.S. Gauge
			AW1-7/8-16N	U.S. Gauge
			AW1-7/8-16AC2	U.S. Gauge
			AW2-43	U.S. Gauge
			117	Northern Engraving
Directional Gyro	AN5735-1A	AN-I-28	646050	Sperry
	AN5735-2		649742	Sperry
	AN5735-2A		647910	Sperry
	AN5735-1		JH5500	Jack & Heintz
			JH5500A	Jack & Heintz
			T95090	Ternstedt
		T95310	Ternstedt	
		646050	Elec. Auto-Lite	

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3.1.2 Parts to be Reconditioned. (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Engine Gage	AN5773-T1A	AN-G-18A	33351	T. A. Edison
	AN5773-1A		34000	T. A. Edison
	AN5772-2A		34200	T. A. Edison
	AN5773-T2A		35500	T. A. Edison
	AN5773-2		195-75N112	T. A. Edison
			10322A	Elec. Auto-Lite
			10735A	Elec. Auto-Lite
			10638A	Elec. Auto-Lite
			8GALAA	General Electric
			AW2-3/4-28F	U.S. Gauge
Elev. Tab indicator			106335	Stewart-Warner
			106336	Stewart-Warner
			441001	Stewart-Warner
			441139	Stewart-Warner
Flap Indicator (See elevator tab indicator)				
Fuel Gage			EA-102-10	Liquidometer Co.
			EA-102-10L3	Liquidometer Co.
			EA-102-AN10	Liquidometer Co.
Gyro Horizon	AN5736-1	AN-I-29	JH6500-A	Jack & Heintz
	AN5736-1A		646040	Sperry
	AN5736-2A		656768	Sperry
			647900	Sperry
			T95100	Ternstedt
			T95450	Ternstedt
			T95590	Ternstedt
	T95640	Ternstedt		
Man. Press.	AN5770-T2A-12	AN-G-9	M18201-12	American Meters
	AN5770-2A-12		M18312-12	American Meters
	AN5770-2		M18313-34	American Meters
	AN5770-2-34		728-04	Kollman
			31854-12A	Ranco

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3.1.2 Parts to be Reconditioned. (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>	
Man. Press.			32010-12	Ranco	
			31854-12	Ranco	
			31832	Ranco	
			31854	Ranco	
			6770-161	Manning, Maxwell, Moore	
Suction Gage	AN5771-5A	MIL-G-7734	6704-152	Manning, Maxwell, Moore	
			6704-185	Manning, Maxwell, Moore	
	AN5771-T5A	94-27336	6704A-244	Manning, Maxwell, Moore	
			18610	Manning, Maxwell, Moore	
				6704TA-316	Manning, Maxwell, Moore
				AW1-7/8-21AK	U.S. Gauge
				AW1-7/8-21Q	U.S. Gauge
				AW1-7/8-21AK2	U.S. Gauge
				200	Collins
				200A 200B	Collins Collins
Tachometer	AN5530-2A AN5530-2 AN5530-T2A	AN-I-3B	8DJ19AAB	General Electric	
			8DJ19ACA	General Electric	
			8DJ19ACE	General Electric	
			8DJ19AFP	General Electric	
			8DJ19AAW	General Electric	
			8DJ19AAX	General Electric	
			8DJ19AAT	General Electric	
			8DJ19ACB	General Electric	
			8DJ19AAW-56	General Electric	
			8DJ19ABD	General Electric	
			8DJ19ADZ	General Electric	
			8DJ19AAD	General Electric	

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3.1.2 Parts to be Reconditioned.

(Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification No.</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Tachometer			8DJ19AAH	General Electric
			8DJ19AAV	Friden Calculating
			8DJ19ABS	Friden Calculating
			8DJ19ACA	Friden Calculating
			8DJ19AAW	Friden Calculating
			8DJ19AAX	Friden Calculating
			8DJ19AVT	Friden Calculating
			8DJ19AAX-2	Friden Calculating
			8DJ19AAW-2	Friden Calculating
			8DJ19ABS-2	Friden Calculating
			8DJ19ACA-3	Friden Calculating
			8DJ19ACA	Friden Calculating
			8DJ19AAB	Friden Calculating
			8DJ19AAV	Chicago Flex.
			8DJ19ABC	Chicago Flex.
			8DJ19AAW	Chicago Flex.
			8DJ19ABS	Chicago Flex.
			8DJ19ACA	Chicago Flex.
			8DJ19ABC-3	Chicago Flex.
			8DJ19AAW-2	Chicago Flex.
			8DJ19AAB-2	Chicago Flex.
Turn & Bank	AN5820-1	94-27348	1946	Longines
(Vacuum)	AN5820-2	AN-GG-I-526	1721-2U-A2	Eclipse-Pioneer
	AN5820-T2		1721-2U-A2B	Eclipse-Pioneer
			1722-2AD-B2	Eclipse-Pioneer
			1722-2AK-B2	Eclipse-Pioneer
			1722-2U-A2T	Eclipse-Pioneer
			1722-2V-2	Eclipse-Pioneer
			1722-2AD-A2	Eclipse-Pioneer
			1722-2AG-B2	Eclipse-Pioneer
			1722-2AY-B2	Eclipse-Pioneer
			1722-AG-A2	Eclipse-Pioneer
			1722-2Y-A2	Eclipse-Pioneer
			1722-2AL-B2	Eclipse-Pioneer
			1721-2U-A2B	Burton

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3.1.2 Parts to be Reconditioned. (Continued)

<u>Name</u>	<u>AN No.</u>	<u>Specification</u>	<u>Manufacturers Parts No.</u>	<u>Manufacturer</u>
Turn & Bank (Electric)	AN5819-T4 AN5819-3	MIL-I-5488 AN-I-15 94-27337	3904-1B-A1 21500 23500 21500A	Schwizer Eng. Co. Eclipse-Pioneer Allen Calc. Co. L. N. Schwein L. N. Schwein

ALL

Type AN Fittings

3.1.3 Parts to be Supplies New. All parts called out on Drawings 694-183801, 694-183802, 694-183850; 694-183851, 694-183853 and 694-183862 will be supplied new except those parts listed in Paragraph 3.1.2 of this specification.

3.2 Cause for Rejection. The following specific conditions as well as damage or wear which cannot be corrected by one or more of the methods authorized herein or authorized in applicable technical orders is cause for rejection.

- (a) When a component part (or parts) of an instrument is found to be defective, and when that part (or parts) or its equivalent cannot be procured or this specification does not authorize a Beech fabricated substitute, the instrument shall be rejected and replaced.

3.3 Reconditioning Operations:

3.3.1 General.

- (a) Equipment and procedures specified in OS 7012 may be used in the cleaning of instruments in lieu of that specified in the applicable technical orders listed in Paragraph 2.2 of this specification.
- (b) Use procedures specified in OS 7010, where applicable, to remove corrosion.
- (c) Modify parts to conform to Technical Orders 05-1-83B, 05-1-86 and 05-1-88 where applicable.

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3.3.1 General.- (Continued)

- (d) Repair as necessary as authorized herein.
- (e) If necessary to store instruments after overhaul, use information contained in Technical Order 05-1-1A.

3.3.2 AN Fittings.-

- (a) Inspect for nonrepairable conditions.
- (b) Clean in accordance with OS 7002.
- (c) Chase threads if necessary to clean.

3.3.3 Flap Indicator and Elevator Tab Indicator.-

- (a) Inspect for nonrepairable conditions
- (b) Recondition the flap indicator and modify to conform to Drawing 734-183802.
- (c) Recondition the elevator tab indicator and modify to conform to Drawing 894-183797.

3.3.4 Air Speed Indicator.-

- (a) Modify to conform to Drawing 694-183725.
- (b) Recondition and functional test in accordance with the applicable information contained in Technical Orders 05-10-1 and 05-10-21.

3.3.5 Aircraft Clock; Gyro Horizon Indicator; Directional Gyro Indicator; Cylinder Head Temperature Indicator; Carburetor Air Temperature Indicator; Engine Gage; Fuel Gage; De-Icer Pressure Gage; Manifold Pressure Gage; Ammeter; Altimeter; Auto Pilot Pressure Gage; Suction Gage; Bank and Turn Indicator (Vacuum); Electric Tachometer; Rate of Climb Indicator; Magnetic Compass.-

- (a) Recondition and functional test in accordance with the applicable portions of the technical order



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3.3.5 Aircraft Clock; Gyro Horizon Indicator; Directional Gyro Indicator; Cylinder Head Temperature Indicator; Carburetor Air Temperature Indicator; Engine Gage; Fuel Gage; De-Icer Pressure Gage; Manifold Pressure Gage; Ammeter; Altimeter; Auto Pilot Pressure Gage; Suction Gage; Bank and Turn Indicator (Vacuum); Electric Tachometer; Rate of Climb Indicator; Magnetic Compass.- (Continued)

listed in Paragraph 2.2 of this specification that is applicable to the particular instrument being overhauled. When no technical orders have been published covering overhaul of some vendor instruments, use general overhaul information in technical orders covering similar instruments.

- (b) When electric tachometer indicators and manifold pressure gages other than -12 are used, pointer must be reworked to AND10404-11-12.

3.4 Authorized Repairs:

3.4.1 General.-

- (a) Touch up rough spots and scratches on instrument cases with paint. Use a brush and match color as near as possible.
- (b) When new gaskets are unavailable, the following replacement gaskets may be fabricated and used as required in the reconditioning of instruments.

<u>OS Part No.</u>	<u>Vendors Gasket Number</u>	<u>Used On.</u>	<u>Material</u>
OS 3201-1	13744	AN5735 Directional Gyro Indicator (Sperry)	1/32 sheet 4-1/2 by 4-3/8 vellumoid HH-P-96
OS 3201-3	187670	"	1/64 sheet 1-7/8 dia. vellumoid HH-P-96
OS 3201-5	194857	"	1/16 sheet 2-1/4 dia. vellumoid HH-P-96
OS 3201-7	148890	AN5736 Gyro Horizon Indicator (Sperry)	1/64 sheet 4-1/2 by 4-1/2 vellumoid HH-P-96
OS 3201-9	187664	"	1/64 sheet 2-7/8 dia. vellumoid HH-P-96

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3.4.1 General.			
<u>OS Part No.</u>	<u>Vendors Gasket Number</u>	<u>Used On</u>	<u>Material</u>
OS 3201-11	148891	AN5736 Gyro Horizon Indicator (Sperry)	1/32 sheet 4-7/8 dia. vellumoid HH-P-96
OS 3201-13	JH 5143	AN5735 Directional Gyro Indicator (Jack and Heintz)	1/32 sheet 1-3/4 dia. gasket fibre MIL-G-7021
OS 3201-15	JH 5522	"	1/32 by 2-7/8 by 2-7/8 synthetic rubber. AN-S-3208
OS 3201-17	JH 6514	AN5736 Gyro Horizon Indicator (Jack and Heintz)	1/32 by 3-5/8 by 3-5/8 synthetic rubber AN-S-3208
OS 3201-19	----	Elevator Tab and Flap Indicator	1/64 sheet 2 by 2 vellumoid HH-P-96

TOOLING NOTE: Original gaskets are to be used as pattern in the fabrication of tooling.

OS 3201-1	same as	OBA 15704-2
OS 3201-3	same as	OBA 15704-4
OS 3201-5	same as	OBA 15704-6
OS 3201-7	same as	OBA 15704-8
OS 3201-9	same as	OBA 15704-10
OS 3201-11	same as	OBA 15704-18
OS 3201-13	same as	OBA 15704-22
OS 3201-15	same as	OBA 15704-32
OS 3201-17	same as	OBA 15704-30
OS 3201-19	same as	OBA 15704-26

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3.4.1 General.- (Continued)

- (c) When it is necessary to replace dial faces of reconditioned flap indicators, elevator tab indicators, suction gages, airspeed indicators, rate of climb indicators (Pioneer), electric tachometer indicators (General Electric), manifold pressure gages (Ranco), and de-icer gages (U.S. and Northern Engraving), Beech fabricated faces may be used. Use 24S-T4 aluminum anodized Specification QQ-A-362, Temper T4 of desired thickness. Trim and drill to match the original faces. All numerals and letters on dial face shall be round Gothic (Ref: AND10400) using yellow fluorescent paint in accordance with Specification AN-L-1A.

3.4.2 Altimeters.-

- (a) The 544KN-05 Kollman altimeters which require rework in accordance with Technical Order 05-1-83B for front mounting must have the following rework when instrument is received with mounting flange screw heads protruding on panel face of mounting rim: Remove the screws and counterbore screw holes  $\frac{.174}{.168}$  by 3/32-inch deep. Install F.FIL-311B Kollman screws or equivalent.

## 4. INSPECTION

4.1 General.- The parts will be inspected to the general acceptable quality standards of OS 7008. Substitution of equipment and tools required for testing of instruments and deviations from test procedures specified in the technical orders listed in Paragraph 2.2 of this specification is permitted provided the same end results are obtained.

