

RESTRICTED

ARMY

INDEX OF  
AERONAUTICAL  
EQUIPMENT

NAVY

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INSTRUMENTS

VOLUME 6

RESTRICTED





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**INDEX  
OF  
ARMY  
AERONAUTICAL  
EQUIPMENT  
WITH NAVY AND BRITISH  
EQUIVALENTS**



**Volume 6**

**Instruments**



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## INDEX OF ARMY AERONAUTICAL EQUIPMENT

WITH NAVY AND BRITISH EQUIVALENTS

CONSISTS OF:

Volume 1 Turbosuperchargers, Pumps and Accessories . . . . .	AERDEXONE
Volume 2 Landing Gear . . . . .	AERDEXTWO
Volume 3 Oxygen and Miscellaneous . . . . .	AERDEXTHREE
Volume 4 Electrical Equipment . . . . .	AERDEXFOUR
Volume 5 Armament . . . . .	AERDEXFIVE
Volume 6 Instruments . . . . .	AERDEXSIX

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**GUIDE**  
to  
**Volume Six**  
**Instruments**

	<b>Page Numbers</b>
Alphabetical Index . . . . .	V to XXIV
Numerical Index . . . . .	XXV to XCIV
Instrument Lighting—Dial Markings—Fittings— Electrical Remote Indicating Instruments . . . . .	1-4
Engine Gage Units . . . . .	5-9
Fuel Mixture Indicators . . . . .	10-20
Pressure Gages . . . . .	21-40
Manifold Pressure Gages . . . . .	41-55
Fuel Pressure Warning Signals . . . . .	56-59
Wheel and Flap Position Indicators . . . . .	61-67
Tachometers . . . . .	68-86
Thermometers . . . . .	87-118
Ammeters and Voltmeters . . . . .	119-125
Airpseed Indicators . . . . .	126-136
Airspeed Tubes . . . . .	137-146
Altimeters . . . . .	147-155
Rate of Climb Indicators . . . . .	156-162
Power Venturi Tubes . . . . .	163-165
Automatic Pilots and Components . . . . .	166-207
Servos and Accessories . . . . .	208-227
Air Filters . . . . .	228-230
Directional Gyro Indicators . . . . .	231-239
Gyro Horizon Indicators . . . . .	240-246
Turn and Bank Indicators . . . . .	247-252
Astrograph—Clocks—Astro Compass . . . . .	253-261
Direct Reading Magnetic Compasses . . . . .	262-265
Gyro Flux Gate Compasses . . . . .	266-273
Remote Indicating Magnetic Compasses . . . . .	274-277
Miscellaneous Instruments . . . . .	278-286





**INSTRUMENTS**  
**ENGINE — FLIGHT — NAVIGATION**

---



## ALPHABETICAL INDEX

Name	Type, Drawing or Designation	Page
Accelerometer—aircraft	AN5745-2	126
Adapter—engine tachometer outlet	AN4041	84
Adapter—turbosupercharger tachometer drive		85
Adapter assembly—tachometer drive		85
“ “ —type I to type II engine tachometer	AN4041	84
Aerial dead reckoning computer	AN5835-1	278
Aileron control assembly		216
Aileron or rudder servo		193, 209, 210, 211
Aileron servo		216
Aileron servo 0.2 H. P. motor 6 inch drum		193
Aileron servo amplifier		193, 205
Aileron surface control amplifier		205
Air eliminator	A-6	285
“ filter	AN5821-1	230
Air filter	AN5822-1	159, 188, 228
Air mileage unit 1		Not catalogued
Air vapor control valve	32100	286
Aircraft accelerometer	AN5745-2	126
Aircraft navigational drafting machine	AN5750-1	279
Aircraft protractor	AN5750-1	279
Aircraft sextants		280
Aircraft voltmeter	B-1	124
Aircraft voltmeter	C-1	125
Airplane clock	A-9	255
“ “	A-10	256
“ “	A-11	258
“ “	AN5741-1	257
Airspeed indicator	B-8	128
Airspeed indicator	C-7	129
Airspeed indicator	C-14	130
Airspeed indicator	D-4	131
Airspeed indicator	D-6	132
Airspeed indicator	D-7	133
Airspeed indicator	F-1	134
Airspeed indicator	F-2	135
Airspeed indicator	F-3	136
Airspeed indicators		127
Airspeed tube	AN5815-1	139
“ “	AN5816-1	140
“ “	AN5816-2	141
“ “	B-6	138
“ “	D-2	142
“ “ (pitot-static)	D-3	143
“ “	G-1	144
Airspeed tube	G-2	145
Airspeed tube assembly	B-5	Not catalogued
Airspeed tubes		137
Air vapor control valve		286
Altimeter—pressure	AN5760-1	152
Altimeter—pressure	AN5760-2	151
Altimeter—pressure	AN5760-4	155
Altimeter—pressure	AN5761-1	153
Altimeter—pressure	B-11	148
Altimeter—pressure	B-12	149
Altimeter—pressure	C-11	150
Altimeter assembly	AN5760-1	152
“ “	AN5760-2	151
“ “	AN5760-4	155
“ “	AN5761-1	153





# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Altimeter assembly	B-11	148
“ “	B-12	149
“ “	C-11	150
“ “	C-15	Not catalogued
Altimeters		147
Altitude control		202
“ “ follow-up amplifier		207
“ type control unit remote		202
“ warning signal	H-2	60
“ “ switch assembly	H-2	60
Ammeter	D-2	119
Ammeter	E-1	120
Ammeter	F-1	122
Ammeter shunt	E-1	121
Ammeter shunt	F-1	123
Ammeter with shunt	D-2	119
Ammeter with shunt	F-1	122
Amplifier—aileron servo		205
Amplifier—compass—gyro flux gate (Navy)	AN5753-1	267
Amplifier—constant altitude control		207
Amplifier—directional gyro follow-up		203, 220
Amplifier—elevator servo		206
Amplifier—gyro flux gate compass	AN5753-1	267
Amplifier—rudder servo		204
Amplifier—unit gyro flux gate compass	AN5753-1	267
“ 1		Not catalogued
Amplifier rack		193, 201
Amplifier type rack		201
Analyzer—exhaust gas	A-7	12
“ “ “	A-7A	13
“ “ “	B-5A	14
“ “ “	B-6	15
“ “ “	B-6A	17
Aperiodic compass	O-2	Not catalogued
Artificial horizon	AN5736-1	242
“ “	C-5	241
“ “	E-1	244
“ “ indicator	AN5736-2	247
Assembly—altimeter	C-15	Not catalogued
Astro—compass	A-1	Not catalogued
Astro compass	Mark II	260
Astro compass standard	O-5	261
Astrograph	A-1	253
Astrograph—navigator	A-1	253
“ assembly	A-1	253
Astrograph mounting ring		254
Automatic pilot	T-502-3B	222
Automatic pilot	A-3, A-3A	169
Automatic pilot gage	AN5771-6	23
“ “ mounting unit		172, 181
“ “ oil filter		178
Automatic pilot oil pressure gage	AN5771-6	23
Automatic pilot servo	A-5	208
Automatic pilots		166
Autosyn dual indicator	E-10	79
“ “ thermometer indicator	F-7	109
“ fuel pressure indicator	C-14	29
“ “ “	C-14A	31
“ “ “ transmitter	C-14	30
“ “ “	C-14A	32
“ instruments		4
“ manifold pressure indicator	D-8, D-8A	46, 48



Name	Type, Drawing or Designation	Page
Autosyn manifold pressure transmitter	D-8, D-8A	47, 49
“ oil pressure indicator	B-9A, B-9	39
“ “ transmitter	B-9A, B-9	40
“ tachometer	E-10	79
“ “ transmitter	E-10	80
“ thermometer	A-22	92
“ “	F-7	109, 110
“ “ transmitter	A-22	93
“ “	F-7	110
“ transmitter	A-22	93
“ “	E-10	80
Azimuth follow-up amplifier		203, 220
“ “ type amplifier		203, 220
“ gyro		189, 194, 219
“ “ control		170, 184
“ “ mount		195
Bank-turn controller		187
“ and climb control (Navy)		171
“ “ “ unit		190
“ “ “ gyro control		190, 196
“ “ “ “ unit		171
“ “ “ mount		197
“ “ turn controller		187
“ “ “ indicator	A-5	248
“ “ “ “	A-8	249
“ “ “ “	AN5820-1	250
“ “ “ “	AN5820-2	251
“ “ “ “	C-1	252
“ “ “ “ air filter	AN5821-1	230
Banked turn control		200
Banked turn controller		187
Barometric pressure index altimeter	AN5761-1	153
Base assembly—astro compass standard	0-5	261
Bimetal direct reading thermometer	C-13, C-13A	104
Bimetal thermometer	C-13, C-13A	104
Block—manifold		173
Box—gyro flux gate switch	AN5756-1	272
Bubble type sextant		280
Bulb—resistance—thermometer	C-15	Not catalogued
Bulb—resistance—thermometer (long)	AN5525-2	118
Bulb—resistance—thermometer (short)	AN5525-1	117
Caging control—gyro flux gate compass—electrical	AN5754-1	268
“ “ “ “ “ —manual	AN5755-1	273
Calculator—dead reckoning	AN5835-1	278
Capillary thermometer	A-20	91
Capillary thermometer indicator	A-20	91
Carburetor thermometer	F-7	109
“ “	F-8	111
“ “	F-9	113
“ “	F-10	115
Central system air filter	AN5822-1	228
Chromalox type G-1 airspeed tube	G-1	144
“ “ G-2 “ “	G-2	145
Chronoflite (fluorescent) clock	A-10	256
Chronometric tachometer	C-7	69
Chronometric tachometer	C-9A	70
Chronometric tachometer	C-11	71
Civil date elapsed time clock	AN5741-1	257
Clock—aircraft (1 7/8 inch round dial)	A-11	258
“ “ —8-day elapsed time	A-10	256
“ “ “ “ “	AN5741-1	257
“ —type A-9 (aircraft 1 7/8 inch round dial)		255





# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Clock—type A-10 (aircraft)	A-10	256
“ “ A-11	A-11	258
Clock—7 jewel lighted	A-9	255
Clock—7 jewel unlighted	A-11	258
Clock—8 day	A-9	255
“ “	A-11	258
Clock—8-day elapsed time civil date	AN5741-1	257
Clock—13 jewel	A-10	256
“ assembly—13 jewel	A-10	256
Compass	P-8	Not catalogued
“ —aperiodic	O-2	Not catalogued
“ —astro	A-1	Not catalogued
Compass—astro	Mark II	260
Compass—astro A-1	Mark II	260
“ —gyro flux gate—amplifier unit	AN5753-1	267
“ “ “ —electrical caging control	AN5754-1	268
“ “ “ —manual caging control	AN5755-1	273
“ “ “ —master indicator	AN5752-1	269
“ “ “ —switch box	AN5756-1	272
“ “ “ —repeater indicator	AN5730	270, 275
“ “ “ —transmitter	AN5751-1	271
“ —indicator—remote magnetic	AN5730	270, 275
“ —inverter—remote indicating magnetic	12117-6-A	277
“ —navigation (aircraft) long-period	D-12	265
Compass—navigator's	D-12	265
Compass—pilot's	AN5733-1	263
Compass—pilot's	B-17	264
Compass—pilot's card type	AN5733-1	263
“ —standard		Not catalogued
“ —top reading	D-12	265
“ —transmitter—remote reading magnetic	AN5730-3	276
“ —vertical dial	AN5733-1	263
“ “ “	B-17	264
“ assembly—navigation	D-12	265
“ —astro—for use with O5A standard (Navy)	Mark II	260
Compass system—gyro flux gate		266
Computer—airial dead reckoning	AN5835-1	278
Computer—navigational dead reckoning	AN5835-1	278
“ assembly—airial dead reckoning	AN5835-1	278
“ unit 1		Not catalogued
Constant altitude control		193, 202
Constant altitude control amplifier		193, 207
Control—caging—compass gyro flux gate—manual (Navy)	AN5755-1	273
“ “ “ “ “ —motor driven (Navy)	AN5754-1	268
Control—constant altitude		202
Control—directional gyro		189, 194, 219, 170
Control—gyro flux gate compass	AN5754-1	268
“ “ “ “ “	AN5755-1	273
Control—gyro flux gate compass electrical caging	AN5754-1	268
Control—gyro flux gate manual caging	AN5755-1	273
Control—remote control directional gyro		184
Control—turn (remote indicator)	B-4	238
Control—vertical gyro		171, 190, 196
Control assembly	644180	192
Control panel		193, 198
Control unit		198
“ “	B-4	238
“ “	D-1	221
“ “ —three axis stabilized	T-502-3B	222
Controller—banked turn		187
Controller—navigator's turn		218
Controller—turn		200



Name	Type, Drawing or Designation	Page
Controller assembly	B-4	238
"    1		Not catalogued
Coolant thermometer	A-20	91
"    "	A-22	92
"    "	A-23	95
"    "	A-25	94
Corrector No. 3		Not catalogued
Cylinder head temperature indicator	B-7	103
"    "    "	B-11	101
Dead reckoning computer	AN5835-1	278
De-icing pressure gage	AN5771-3	25
De-icing pressure gage	G-1	24
Dial thermometer	A-20	91
"    "	A-22	92
"    "	A-23	95
"    "	A-24	97
"    "	A-25	94
"    "	AN5790-6	89
"    "	AN5795-6	90
"    "	C-10	105
"    "	C-11	106
"    "	C-12	107
"    "	C-13, C-13A	104
"    "	F-7	109
"    "	F-8	111
"    "	F-9	113
"    "	F-10	115
Direct current ammeter	D-2	119
Direct reading magnetic compasses		262
Direct reading thermometer	C-13, C-13A	104
Directional—air		189
Directional control unit		170
Directional gyro		188, 231
Directional gyro control		169, 170, 184, 189, 193, 194, 219
Directional gyro control mount		192
Directional gyro follow-up amplifier		193, 203, 220
Directional gyro indicator	A-3	232
Directional gyro indicator	AN5735-1	234
Directional gyro indicator	AN5735-2	233
Directional gyro indicator	B-3	236
Directional gyro indicator	B-4	237
Directional gyro indicator	C-1	239
Directional gyro turn indicator	B-4	237
"    type control unit		194
"    unit		189
Director—pilot		199
Double-end type three bank servo		179, 180
Double mounting frame	43D7014	225
Double throat power venturi tube	AN5807-1	165
Drafting table protractor	AN5750-1	279
Drain oil trap		169, 175, 188
Drift meter	B-3	282
Drift meter	B-5	284
Drive—remote electrically operated caging	AN5754-1	268
"    "    manual operated caging	AN5755-1	273
Dual electric thermometer indicator	A-24	97
Dual electric thermometer indicator	A-25	94
Dual electric thermometer indicator	F-10	115
Dual fuel pressure gage	AN5772-1	28
Dual manifold pressure gage	AN5770-2	45
Dual oil pressure gage	AN5772-2	36
Dual tachometer indicator	AN5530-2	78
Dual tachometer indicator	E-10	79





# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Dual thermocouple thermometer indicator	B-11	101
Dual thermometer	A-25	94
“ “ autosyn indicator	A-22	92
“ “ indicator	A-24	97
Dual thermometer indicator	AN5795-6	90
Dual thermometer indicator	F-7	109
Dual thermometer indicator	F-10	115
Dynamotor—remote reading compass		276
Eight-day clock	A-9	255
“ “	A-10	256
“ “	A-11	258
“ “	AN5741-1	257
Elapsed time clock (8-day)	A-10	256
“ “ civil date clock (8-day)	AN5741-1	257
“ “ clock	AN5741-1	257
Electric hydraulic type servo unit	209, 210, 211, 212, 213, 214, 216	216
Electric servo	D-1	221
Electric tachometer	AN5530-1	77
“ “	E-4	73
“ “	E-9A	76
“ “	E-12	81
“ “	AN5530-2	78
“ thermometer	A-23	95
“ “	A-24	97
“ “	A-25	94
“ “	AN5790-6	89
“ “	AN5795-6	90
“ “	C-10	105
“ “	C-11	106
“ “	C-12	107
“ “	F-8	111
“ “	F-9	113
“ indicator	C-10	105
Electric thermometer indicator	C-12	107
Electric thermometer indicator	F-8	111
Electric type servo unit		215
“ resistance bulb	AN5525-1	117
Electrical remote indicating instruments		4
Electrical resistance bulb		118
“ “ type thermometer indicator	AN5790-6	89
“ “ “ “ “ “	AN5795-6	90
“ thermometer indicator	F-9	113
Electrical wheel and flap position indicator	A-2	62, 63
Electrical wheel and flap position indicator	AN5780-1	66
Electrical wheel and flap position indicator	AN5780-2	65
Electrical wheel and flap position transmitter	A-2	64
Electrical wheel and flap position transmitter	AN5785-1	67
Elevator control assembly		212, 213, 214
Elevator servo		193, 212, 213, 214
Elevator servo amplifier		193, 206
Elevator surface control amplifier		206
“ trim tab control assembly		215
“ “ servo		215
Eliminator	A-6	285
Eliminator—fuel system air vapor	A-6	285
Engine (electrical thermometer) gage unit	AN5773-1	9
Engine gage unit	AN5773-1	9
Engine gage unit	AN5774	7
Engine gage unit, 8 foot capillary	B-2	6
Engine gage units		5
Engine speed indicator	AN5530-1	77
“ “ “	C-7	69



Name	Type, Drawing or Designation	Page
Engine speed indicator	C-9A	70
“ “ “	C-11	71
“ “ “	E-4	73
“ “ “	E-9A	76
“ “ “	E-10	79
“ “ “	E-12	83
Engine tachometer outlet adapter	AN4041	84
Exhaust gas analyzer	A-7	12
“ “ “	A-7A	13
“ “ “	B-5A	14
“ “ “	B-6	15
External shunt (British)	E-1	121
“ “ “	F-1	123
“ “ ammeter (British)	D-2	119
“ “ “ “	E-1	120
“ “ “ “	F-1	122
Filter—air	AN5822-1	228
Filter—air—vacuum operated instruments	AN5822-1	228
Filter—oil		178
Filter—oil—for aircraft automatic pilot		178
Filter—turn and bank indicator air	AN5821-1	230
Filter, air, 10 c.f.m. (vacuum operated instruments)	AN5822-1	228
“ “ directional gyro	AN5822-1	228
Fittings—instrument		214
Flange—mounting		11
Flexible shaft angle gear		169, 186
Flight indicator	AN5736-1	242
“ “	AN5736-2	247
“ “	B-4	237
“ “	C-5	241
“ “	E-1	244
Flush-mounted static tube	42A13995	146
“ static pressure tube	42A13995	146
Follow-up amplifier		203
Follow-up pulley	60-8213	182
Four inch stroke servo	D-1	221
Frame—double mounting	43D7014	225
Frame—single mounting	43B7625	224
Free air thermometer	C-10	105
“ “ “	C-11	106
“ “ “	C-12	107
“ “ “	C-13, C-13A	104
Front mounting plate	43B7015	227
Front mounting plate	43D7016	226
Fuel mixture indicator assembly	A-7	12
Fuel mixture indicator assembly	A-7A	13
Fuel mixture indicator assembly	B-5A	14
Fuel mixture indicator assembly	B-6	15
Fuel mixture indicator assembly	B-6A	17
Fuel mixture indicators		10
Fuel or oil pressure transmitter assembly	AN5765-1	19
Fuel pressure autosyn indicator	A-14A	31
“ “ “ “	C-14	29
Fuel pressure gage	AN5771-1	27
Fuel pressure gage (dual)	AN5772-1	28
Fuel pressure gage	C-10	26
Fuel pressure gage	C-14	29
Fuel pressure indicator	C-14A	31
Fuel pressure signal	C-2	57
Fuel pressure signal	C-3	59
Fuel pressure signal switch	C-2	57
“ “ “ “	C-3	59



# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Fuel pressure warning signals		56
Fuel pressure transmitter	C-14	30
Fuel pressure transmitter	C-14A	32
Fuel pressure transmitter—electrical	C-14	30
“ “ “ “	C-14A	32
Fuel pressure warning signals		83
Fuel system air vapor eliminator	A-6	285
Gage—automatic pilot oil pressure	AN5771-6	23
Gage—de-icing pressure	AN5771-3	25
Gage—de-icing pressure	G-1	24
Gage—engine unit	AN5773-1	9
“ “ “	AN5774	7
“ “ “ , 8 foot capillary	B-2	6
Gage—fuel pressure	AN5771-1	27
Gage—fuel pressure (dual)	AN5772-1	28
Gage—fuel pressure	C-10	26
Gage—hydraulic pressure—alighting gear	AN5771-4	35
“ “ “ “ “	E-3	33
“ “ “ “ “	E-4	34
Gage—hydraulic pressure—landing gear	AN5771-4	35
Gage—hydraulic pressure—landing gear	E-3	33
Gage—hydraulic pressure—landing gear	E-4	34
Gage—manifold pressure	AN5770-1	44
Gage—manifold pressure (dual)	AN5770-2	45
Gage—manifold pressure	D-2	42
Gage—manifold pressure	D-9	43
Gage—oil pressure	AN5771-2	38
Gage—oil pressure (dual)	AN5772-2	36
Gage—oil pressure	B-5	37
Gage—pressure—fuel	AN5771-1	27
“ “ “	AN5772-1	28
“ “ “	C-10	26
“ “ —landing gear	AN5771-4	35
“ “ “ “	E-3	33
“ “ “ “	E-4	34
“ “ —oil (Navy)	AN5772-2	36
“ “ “ “	B-5	37
“ “ “ “	AN5771-2	38
Gage—suction	AN5771-5	55
Gage—suction	F-2	51
Gage—suction	F-3	53
Gages—manifold pressure		41
Gages—pressure		21, 22
Gages—suction		78
Gage assembly—de-icing pressure	AN5771-3	25
“ “ “ “	G-1	24
“ “ —fuel pressure (single)		27
“ “ “ “	C-10	26
“ “ —hydraulic pressure—landing gear	AN5771-4	35
“ “ “ “ “ “	E-3	33
“ “ “ “ “ “	E-4	34
“ “ —manifold pressure (dual)	AN5770-2	45
“ “ “ “ (single)	AN5770-1	44
“ “ “ “ “	D-2	42
“ “ “ “ “	D-9	43
“ “ —oil pressure	AN5771-6	23
“ “ “ “ (single)	AN5771-2	38
“ “ “ “ “	B-5	37
“ “ —suction	AN5771-5	55
“ “ “	F-2	51
“ “ “	F-3	53
Gage unit—engine	AN5774	7



Name	Type, Drawing or Designation	Page
Gage unit—engine (electrical thermometer)	AN5773-1	9
Gage unit—engine, 8 foot capillary	B-2	6
Gang—servo—8 inch stroke		179
Gang—servo—11 inch stroke		180
Gear—flexible shaft angle		186
Gear box adapter		85
“ “ assembly		186
Generator	AN5531-1	74
“	E-12	80
“ —electric tachometer	AN5531-1	74
“ “ “	E-12	82
Generator—pad mount tachometer	AN5531-1	74
Generator—screw mount tachometer	AN5531-2	75
Generator—screw mount tachometer	E-4	72
Generator—screw mount tachometer	E-12	81, 82
Generator—stud mount	AN5531-1	74
“ —tachometer	AN5531-1	74
“ “ right angle	E-12	82
“ assembly	E-4	72
“ “ —tachometer	AN5531-1	74
“ “ “	E-4	72
“ “ “	E-12	81
“ “ “ axial	E-12	81
“ “ “ pad	AN5531-1	74
“ “ “ screw	AN5531-2	75
“ “ “ (right angle)	E-12	82
“ “ “ (single)	E-4	72
Gyro—directional		231
Gyro control mount		169, 172, 181
Gyro directional indicator	A-3	232
“ “ “	AN5735-1	234
“ “ “	AN5735-2	233
“ “ “	B-3	236
“ “ “	B-4	237
“ “ “	C-1	239
Gyro flux gate compass amplifier	AN5753-1	267
Gyro flux gate compass electrical caging control	AN5754-1	268
Gyro flux gate compass master indicator	AN5752-1	269
Gyro flux gate compass repeater indicator	AN5730	270, 275
Gyro flux gate compass switch box	AN5756-1	272
Gyro flux gate compass system		266
Gyro flux gate compass transmitter	AN5751-1	271
Gyro flux gate manual caging control	AN5755-1	273
Gyro horizon indicator		240
Gyro horizon indicator	AN5736-1	242
Gyro horizon indicator	AN5736-2	247
Gyro horizon indicator	C-5	241
Gyro horizon indicator	E-1	244
Gyro pilot mounting unit		172, 181
Horizon—air		190
“ control		171
Hydraulic pressure gage—landing gear	AN5771-4	35
“ “ “ “ “	E-3	33
“ “ “ “ “	E-4	34
“ servo	A-3	222
“ “ —three axis stabilized control	T-502-3B	222
“ surface control		179, 180
“ “ “	644180	192
“ type servo unit		180
Inclinometer	B-2	156
Indicator—airspeed	B-8	128
Indicator—airspeed	C-7	129





# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Indicator—airspeed	C-14	130
Indicator—airspeed	D-4	131
Indicator—airspeed	D-6	132
Indicator—airspeed	D-7	133
Indicator—airspeed	F-1	134
Indicator—airspeed	F-2	135
Indicator—airspeed	F-3	136
Indicator—airspeed (aircraft) pitot-static	B-8	128
“ “ “ “ “	C-7	129
“ “ “ “ “	C-14	130
“ “ “ “ “	D-4	131
“ “ “ “ “	D-6	132
“ “ “ “ “	D-7	133
“ “ “ “ “	F-1	134
“ “ “ “ “	F-2	135
“ “ “ “ “	F-3	136
“ —autosyn dual thermometer	F-7	109
“ “ fuel pressure	C-14	29
“ “ “ “	C-14A	31
“ “ manifold pressure	D-8	46
“ “ “ “	D-8A	48
“ “ oil pressure	B-9A, B-9	39
Indicator—capillary thermometer	A-20	91
Indicator—climb	A-6	158
“ “	A-7	159
“ “	AN5825-1	161
“ “	AN5825-2	160
“ —compass remote indicating—magnetic (Navy)	AN5730	270, 275
Indicator—directional gyro	A-3	232
Indicator—directional gyro	AN5735-1	234
Indicator—directional gyro	AN5735-2	233
Indicator—directional gyro	B-3	236
Indicator—directional gyro	B-4	237
Indicator—directional gyro	C-1	238
Indicator—dual electric thermometer	A-24	97
Indicator—dual electric thermometer	A-25	94
Indicator—dual electric thermometer	F-10	115
Indicator—dual tachometer	AN5530-2	78
Indicator—dual tachometer	E-10	79
Indicator—dual thermocouple thermometer	B-11	101
Indicator—dual thermometer	AN5795-6	90
Indicator—dual thermometer	F-7	109
Indicator—dual thermometer autosyn	A-22	92
Indicator—dual thermometer	A-22	92
Indicator—electric tachometer	AN5530-1	77
“ “ “	AN5530-2	78
“ “ “	E-9A	76
Indicator—electric thermometer	C-10	105
Indicator—electric thermometer	C-12	107
Indicator—electric thermometer	F-8	111
Indicator—electrical thermometer	F-9	113
Indicator—electrical wheel and flap position	A-2	62, 63
Indicator—electrical wheel and flap position	AN5780-1	66
Indicator—electrical wheel and flap position	AN5780-2	65
Indicator—flap and wheel—position (British)	A-2	62, 63
“ “ “ “ “ (British)	AN5780-1	66
“ “ “ “ “ (British)	AN5780-2	65
Indicator—fuel pressure	C-14	29
Indicator—fuel pressure	C-14A	31
Indicator—fuel pressure—electric—dual type (Navy)	C-14	29
“ “ “ “ “ “ “	C-14A	31
Indicator—gyro flux gate compass master	AN5752-1	269



Name	Type, Drawing or Designation	Page
Indicator—gyro flux gate compass repeater	AN5730	270, 275
Indicator—gyro horizon		240
Indicator—gyro horizon	AN5736-1	242
Indicator—gyro horizon	AN5736-2	247
Indicator—gyro horizon	C-5	241
Indicator—gyro horizon	E-1	244
Indicator—manifold pressure	D-8	46
Indicator—manifold pressure	D-8A	48
Indicator—manifold pressure electric dual type (Navy)	D-8	46
“ “ “ “ “ “ “ “	D-8A	48
“ —master compass, gyro flux gate (Navy)	AN5752-1	268
Indicator—oil pressure	B-9A, B-9	39
Indicator—oil pressure—electric type (dual)	B-9A, B-9	39
Indicator—pilot director		198
Indicator—pilot director	(Bombsight) . . . . . See Armament, Volume V	
Indicator—position—wheel and flap	A-2	62, 63
“ “ “ “ “ “ “ “	AN5780-1	66
“ “ “ “ “ “ “ “	AN5780-2	65
Indicator—rate of climb	A-6	158
Indicator—rate of climb	A-7	159
Indicator—rate of climb	AN5825-1	161
Indicator—rate of climb	AN5825-2	160
Indicator—remote indicating magnetic compass	AN5730-2A	275
Indicator—remote indicating magnetic compass	AN5730-6	270
Indicator—repeater compass, gyro flux gate	AN5730-2A	275
“ “ “ “ “ “ “ “	AN5730-6	270
Indicator—single electric thermometer	A-23	95
Indicator—single electric thermometer	C-11	106
Indicator—single thermometer	AN5790-6	89
Indicator—tachometer	AN5530-1	77
Indicator—tachometer	E-4	73
Indicator—tachometer	E-9A	76
Indicator—tachometer	E-12	83
Indicator—thermocouple thermometer	B-7	103
Indicator—thermocouple thermometer	B-9	99
Indicator—thermometer	B-7	103
Indicator—thermometer	B-11	101
“ “ (8' cap and 15' cap)	C-6	Not catalogued
“ “ (thermocouple dual)	C-15	Not catalogued
“ “ “ “	B-9	99
“ “ “ “	B-11	101
“ “ electrical resistance type	AN5790-6	89
“ “ “ “	AN5795-6	90
“ “ thermocouple	B-8	Not catalogued
“ —turn	B-4	237
Indicator—turn and bank		247
Indicator—turn and bank	A-5	248
Indicator—turn and bank	A-8	249
Indicator—turn and bank	AN5820-1	250
Indicator—turn and bank	AN5820-2	251
Indicator—turn and bank	C-1	252
Indicator—undercarriage and flap retraction (British)	A-2	62, 63
“ “ “ “ “ “ “ “	AN5780-1	66
“ “ “ “ “ “ “ “	AN5780-2	65
“ assembly	E-4	73
“ “ —airspeed	B-8	128
“ “ “ “	C-7	129
“ “ “ “	C-14	130
“ “ “ “	D-4	131
“ “ “ “	D-6	132
“ “ “ “	D-7	133
“ “ “ “	F-1	134



ALPHABETICAL INDEX  
INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Indicator assembly—airspeed	F-2	135
“ “ “	F-3	136
“ “ —dual	AN5530-2	78
Indicator assembly—fuel mixture	A-7	12
Indicator assembly—fuel mixture	A-7A	13
Indicator assembly—fuel mixture	B-5A	14
Indicator assembly—fuel mixture	B-6	15
Indicator assembly—fuel mixture	B-6A	17
Indicator assembly—fuel pressure gage (dual)	AN5772-1	28
“ “ “ “ “ “	C-14	29
“ “ “ “ “ “	C-14A	31
“ “ —manifold pressure gage (dual)	D-8	46
“ “ “ “ “ “	D-8A	48
“ “ —master gyro flux gate compass	AN5752-1	269
“ “ —oil pressure gage (dual)	AN5772-2	36
“ “ “ “ “ “	B-9A, B-9	39
“ “ —rate of climb	RC1-L	Not catalogued
“ “ —remote indicating compass—magnetic	AN5730	270, 275
“ “ —repeater gyro flux gate compass	AN5730	270, 275
“ “ —stroboscopic engine synchronizer	C-1	Not catalogued
“ “ —tachometer	AN5530-2	78
“ “ “	E-4	73
“ “ “	E-10	79
“ “ “	E-12	83
“ “ “ (single)	AN5530-1	77
“ “ “ “	E-4	73
“ “ “ “	E-9A	76
Indicators—airspeed		127
Indicators—fuel mixture		10
Indicators—rate-of-climb		157
Indicators—wheel and flap position		61
Individual push-pull type servo, 6 inch	644180	191
Instrument fittings		2
Instrument lighting and dial markings		1
Instrument (aircraft) remote indicating self-synchronous	A-22	93
Instruments—autosyn		4
Instruments—electrical remote-indicating		4
Inverter—remote indicating compass	12117-6-A	276
“ “ magnetic compass	12117-6-A	277
“ —rotary		Not catalogued
Jewel clock	A-10	256
Landing gear—hydraulic pressure gage	AN5771-4	35
Landing gear—hydraulic pressure gage	E-3	33
Landing gear—hydraulic pressure gage	E-4	34
Lighted clock, 7 jewel	A-9	255
Machine—aircraft navigational drafting	AN5750-1	279
Magnetic compass—remote indicating		274
Magnetic compasses—direct reading		262
Magnetic fluorescent compass—vertical dial	AN5733-1	263
Magnesyn instruments		5
Magneto assembly	AN5531-2	75
“ “	E-4	72
“ “	E-12	81, 82
“ generator	AN5531-1	74
“ “	AN5531-2	75
“ “	E-4	72
“ “	E-12	81, 82
Manifold block		169, 173
Manifold pressure gage	AN5770-1	44
Manifold pressure gage	D-2	42
Manifold pressure gage	D-9	43
Manifold pressure gage		41
Manifold pressure indicator	D-8	46
Manifold pressure indicator	D-8A	48



Name	Type, Drawing or Designation	Page
Manifold pressure transmitter	D-8	47
Manifold pressure transmitter	D-8A	49
Markings—instrument lighting and dial		1
Maximum indicating accelerometer	AN5745-2	126
Mechanical by-pass hydraulic surface control		179, 180
Meter—drift	B-3	282
Meter—drift	B-5	284
Mount—directional gyro control		195
Mount—gyro control		172, 181
Mount—remote control gyro control		185
Mount—vertical gyro control		197
Mount assembly—directional gyro control		185
Mounting flange		11
Mounting unit—remote control		185
Navigation clock	A-9	255
“ “	A-10	256
“ “	A-11	258
“ “	AN5741-1	257
Navigator's compass	D-12	265
Navigator's turn controller		193, 218
Octant		280
Oil drain trap		175
Oil filter		169, 178, 188
Oil pressure gage		169
Oil pressure gage	AN5771-2	38
Oil pressure gage	B-5	37
“ “ indicator—autosyn	B-9A, B-9	39
Oil pressure regulator		169, 177, 188
Oil pressure indicator	B-9, B-9A	39
Oil pressure transmitter	B-9, B-9A	40
Oil pressure transmitter—autosyn	B-9A, B-9	40
Oil thermometer	A-20	91
“ “	A-22	92
“ “	A-24	97
“ type trap		175
P. D. I.		199
“	(Bombsight)	See Armament, Volume V
Pad mount tachometer generator	AN5531	74
Panel—control		198
Panel type control unit		198
Pilot director		193, 199
Pilot director indicator		199
Pilot director indicator	(Bombsight)	See Armament, Volume V
Pilot—automatic		166
Pilot—automatic	A-3, A-3A	169
Pilot—automatic	A-4	188
“ “	A-5	193
Pilot—automatic	C-1	See Armament, Volume V
Pilot's card type magnetic compass	AN5733-1	263
Pilot's compass	AN5733-1	263
Pilot's compass	B-17	264
Pitot airspeed tube	G-1	144
Pitot airspeed tube	G-2	145
Pitot-static airspeed tube	AN5815-1	139
Pitot-static airspeed tube	AN5816-1	140
Pitot-static airspeed tube	AN5816-2	141
Pitot-static airspeed tube	B-6	158
“ “	D-2	142
Pitot-static airspeed tube	D-3	143
Pitot-static tube	AN5815-1	139
“ “	AN5816-1	140
“ “	AN5816-2	141
“ “	B-6	138





Name	Type, Drawing or Designation	Page
Pitot-static tube.....	D-2.....	142
Pitot-static tube.....	D-3.....	143
Pitot tube (B-6).....	B-6.....	158
“ “.....	AN5815-1.....	139
“ “.....	AN5816-1.....	140
“ “.....	D-3.....	143
Plate—front mounting.....	43B7015.....	227
Plate—front mounting.....	43B7016.....	226
Power venturi tube.....	AN5805-1.....	164
“ “ “.....	AN5807-1.....	165
“ “ “ assy.....	AN5805-1.....	164
Power venturi tube.....		163
Pressure altimeter.....	AN5760-1, C-13.....	152
Pressure altimeter.....	AN5760-2, C-12.....	151
Pressure altimeter.....	AN5760-4, C-16.....	155
Pressure altimeter.....	AN5761-1, C-14A.....	153
Pressure altimeter.....	B-11.....	148
Pressure altimeter.....	B-12.....	149
Pressure altimeter.....	C-11.....	150
Pressure altimeter.....		147
Pressure control relief valve.....	32100.....	286
Pressure gages.....		22
Pressure reducer.....		177
Pressure signal, fuel.....	C-2.....	57
“ “ “.....	C-3.....	59
“ “ “ transmission system.....	AN5765-1.....	19
Protractor.....	AN5750-1.....	279
Pulley—follow-up.....		183
Push-pull servo—6 inch.....	644180.....	188, 192
“ “ —6 inch individual type.....	644180.....	192
Rack—amplifier.....		201
Rate-of-climb indicator.....	A-6.....	158
Rate-of-climb indicator.....	A-7.....	159
Rate-of-climb indicator.....	AN5825-1.....	161
Rate-of-climb indicator.....	AN5825-2.....	160
Rate-of-climb indicator assy.....	RC1-L.....	Not catalogued
Rate-of-climb indicators.....		157
Ratio meter thermometer.....	F-9.....	113
“ “ type indicator.....	A-24.....	97
“ “ “ “.....	A-25.....	94
“ “ “ thermometer.....	C-10.....	105
“ “ “ “.....	C-11.....	106
“ “ “ “.....	C-12.....	107
“ “ “ “.....	F-8.....	111
“ “ “ “.....	F-10.....	115
“ “ “ “ indicator.....	A-23.....	95
Recorder drift.....	B-3.....	282
“ “.....	B-5.....	284
Regulator—oil pressure.....		177
Relief valve assy.....		177
“ “ “ — $\frac{3}{8}$ inch.....		177
Remote control directional gyro control.....		184
Remote control gyro control mount.....		185
Remote controller.....	B-4.....	238
Remote indicating magnetic compass.....		274
Remote indicating magnetic compass indicator.....	AN5730.....	270, 275
Remote indicating magnetic compass inverter.....	12117-6-A.....	277
“ “ “ “ transmitter.....	AN5730-3.....	276
“ indicator control.....	B-4.....	238
“ turn controller.....		218
“ “ type control unit.....		200
Resistance thermometer.....	AN5525-1.....	117



Name	Type, Drawing or Designation	Page
Resistance thermometer	AN5525-2	118
“ “	C-10	105
“ “	C-11	106
“ “	C-12	107
“ “	F-8	111
“ “	F-9	113
“ “	F-10	115
Resistance thermometer (long) bulb	AN5525-2	118
Resistance thermometer (short) bulb	AN5525-1	117
Ring—astrograph mounting		254
Rotary inverter		Not catalogued
Rudder and aileron control assy.		209, 210, 211
Rudder servo amplifier		193, 204
Rudder surface control amplifier		204
Screw mount adapter	AN4041	84
Screw mount tachometer generator	AN5531-2	75
Screw mount tachometer	AN5531-2	75
Screw mount tachometer generator	E-4	72
Screw mount tachometer generator	E-12	81, 82
Self-synchronous indicator thermometer; carburetor, type F-7	F-7	109
Selsyn instruments		5
Sensitive altimeter	AN5760-1	152
“ “	AN5760-2	151
“ “	AN5760-4	155
“ “	AN5761-1	153
“ “	B-11	148
“ “	C-11	150
“ electric tachometer indicator	E-9A	76
Servo-A-5 automatic pilot		208
Servo-aileron		216
Servo-aileron or rudder		209, 210, 211
Servo-automatic pilot, push-pull type, individual (6 inch)	644180	192
Servo-electric	D-1	221
Servo-elevator		212, 213, 214
Servo-hydraulic	A-3	222
Servo-trim tab		215
Servo-6 inch stroke push-pull	644180	192
Servo-8 inch stroke gang		179
Servo-11 inch stroke gang		180
Servo amplifier		204, 205, 206
“ type amplifier		205, 206
“ unit	D-1	221
“ “		209, 210, 211, 212, 213, 214, 216
Sextant—aircraft—averaging bubble type		280
Shaft driven tachometer	C-7	69
“ “ “	C-9A	70
“ “ “	C-11	71
Shaft—tachometer generator drive	A-3	86
Shunt-ammeter	E-1	121
Shunt-ammeter	F-1	123
Sights, drift	B-3	282
“ “	B-5	284
Signal—altitude warning	H-2	60
Signal—fuel pressure	C-2	57
Signal—fuel pressure	C-3	59
Signal—altitude warning, type H-2 (aircraft—24 volts D.C.)	H-2	60
“ assembly—altitude warning	H-2	60
“ “ —stalling speed	D-3	Not catalogued
“ “ —fuel pressure type C-2 (aircraft)	C-2	57
“ “ “ “ “ C-3 “	C-3	59
Signals—fuel pressure warning		56
Single electric thermometer indicator	A-23	95



# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Single electric thermometer indicator	C-11	106
Single mounting frame	43B7625	224
Single thermometer indicator	AN5790-6	89
Single throat power venturi tube	AN5805-1	164
Speed control valve		169, 176
Speed control valve for aircraft automatic pilots		176
“ valve		176
Stalling speed signal assy.	D-3	Not catalogued
Standard	British 0.5	Not catalogued
Standard—astro compass	0-5, 05A	261
Standard—astro	0-5	261
“ for compass—astro A-1	0-5	261
“ “ use with Mark 2 astro compass	0-5	261
Static tube	42A13995	146
Stroboscopic engine synchronizer indicator assy.	C-1	Not catalogued
Stroke gang servo—8 inch		169
Stroke gang servo—11 inch		169
Suction gage	AN5771-5	55
Suction gage	F-2	51
Suction gage	F-3	53
Suction gages		50
Switch—caging control—remote compass gyro flux gate (Navy)	AN5756-1	272
Switch box—gyro flux gate compass	AN5756-1	272
Tachometer—engine speed indicator	C-7	69
“ “ “ “	C-9A	70
“ “ “ “	C-11	71
“ “ “ “	E-9A	76
“ “ “ “	C-7	69
“ “ “ “	C-9A	70
“ “ “ “	C-11	71
“ adapter		85
“ “	AN4041	84
“ assy.	C-9A	70
“ “	C-11	81
Tachometer chronometric	C-7	69
Tachometer chronometric	C-9A	70
Tachometer chronometric	C-11	71
Tachometer generator	E-4	72
“ “	E-12	81
“ “ drive shaft	A-3	86
“ “ —pad mount	AN5531-1	74
“ “ —screw mount	AN5531-2	75
“ indicator	AN5530-1	77
“ “	AN5530-2	78
Tachometer indicator	E-4	73
Tachometer indicator	E-9A	76
“ “	E-12	83
Thermometer indicator	F-9	113
Tachometer magneto	E-4	72
“ shaft	A-3	86
Tachometer transmitter	E-10	80
Tachometers		68
Telegon Instruments		5
Thermocouple-indicator thermometer	B-8	Not catalogued
“ thermometer	B-7	103
“ “	B-11	101
Thermocouple thermometer indicator	B-7	103
Thermocouple thermometer indicator	B-9	99
Thermometer-bimetal direct reading	C-13, C-13A	104
Thermometer-indicator	A-20	91
“ “	A-23	95



Name	Type, Drawing or Designation	Page
Thermometer-indicator.....	B-8.....	Not catalogued
“ “.....	F-8.....	111
“ “.....	F-9.....	113
Thermometer assy.—thermocouple.....	B-7.....	103
“ “ “.....	B-9.....	99
“ “ “.....	B-11.....	101
Thermometer bulb.....	AN5525-1.....	117
“ “.....	AN5525-2.....	118
“ indicator.....	AN5790-6.....	89
“ “.....	AN5795-6.....	90
“ “.....	B-11.....	101
“ “ (thermocouple dual).....	B-11.....	101
“ “ (8' cap and 15' cap).....	C-6.....	Not catalogued
“ “.....	C-10.....	105
“ “.....	C-11.....	106
“ “.....	C-12.....	107
“ “.....	C-13, C-13A.....	104
“ “.....	C-15.....	Not catalogued
Thermometer, oil or coolant type A-22.....	A-22.....	92
“ , resistance bulb.....	AN5525-1.....	117
“ “ “.....	AN5525-2.....	118
“ “ “.....	C-15.....	Not catalogued
Thermometer transmitter.....	A-22.....	93
Thermometer transmitter.....	F-7.....	110
Thermometers.....		87
Three axis stabilized control unit.....	T-502-3B.....	222
Transfer valve.....	644230.....	188, 191
Transformer—compass remote indicating (Navy).....	AN5730-3.....	276
Transmitter—autosyn fuel pressure.....	C-14.....	30
“ “ “ “.....	C-14A.....	32
“ “ manifold pressure.....	D-8.....	47
“ “ “ “.....	D-8A.....	49
“ “ oil pressure.....	B-9A, B-9.....	40
“ “ tachometer.....	E-10.....	80
“ “ thermometer.....	A-22.....	93
“ “ “.....	F-7.....	110
“ —compass—gyro flux gate (Navy).....	AN5751-1.....	271
Transmitter—electrical wheel and flap position.....	A-2.....	64
Transmitter—electrical wheel and flap position.....	AN5785-1.....	67
Transmitter—fuel or oil.....	AN5765-1.....	19
“ “ pressure.....	C-14.....	30
“ “ “ —electric type (Navy).....	C-14.....	30
“ “ “.....	C-14A.....	32
“ “ “ —electric type (Navy).....	C-14A.....	32
Transmitter—gyro flux gate compass.....	AN5751-1.....	271
Transmitter—manifold pressure.....	D-8.....	47
Transmitter—manifold pressure.....	D-8A.....	49
Transmitter—manifold pressure—electric type (Navy).....	D-8.....	47
“ “ “ “ “ “.....	D-8A.....	49
“ “ “ —gage (dual).....	D-8.....	47
“ “ “ “ “ “.....	D-8A.....	49
“ —oil pressure—electric type.....	B-9A, B-9.....	40
“ “ “ gage (dual).....	B-9A, B-9.....	40
Transmitter—oil pressure.....	B-9A, B-9.....	40
Transmitter—remote indicating compass.....	AN5730-3.....	276
Transmitter—remote indicating magnetic compass.....	AN5730-3.....	276
Transmitter—tachometer.....	E-12.....	81
“ “.....	E-10.....	80
“ —thermometer.....	A-22.....	93
“ “.....	F-7.....	110
Transmitter assy.—fuel or oil pressure.....	AN5765-1.....	19





Name	Type, Drawing or Designation	Page
Transmitter—fuel pressure gage	C-14	30
“ “ “ “ (dual)	C-14A	32
“ “ “ “ , position, wheel and flap	A-2	64
“ “ “ “ “ “ “ “	AN5785-1	67
Trap—drain oil	60-8328	175
Trim tab servo		193, 215
Triple double-end type hydraulic surface control		179, 180
Tube—airspeed (aircraft 24 volt system)	AN5816-2	141
“ “ “ “ , type G-2 (aircraft, pitot—24 volt system)	G-2	145
“ “ “ “ D-2 (aircraft—24 volt system)	D-2	142
“ “ “ “ D-3 “ “ “ “	D-3	143
“ “ “ “ G-1 “ “ “ “	G-1	144
Tube—double throat power venturi	AN5807-1	165
Tube, electrically heated pitot—static	AN5816-1	140
“ “ “ “ “ “	AN5816-2	141
“ “ “ “ “ “	D-2	142
“ “ “ “ “ “	D-3	143
Tube—flush static pressure	42A13995	146
Tube—pitot airspeed	G-1	144
Tube—pitot airspeed	G-2	145
Tube—pitot static airspeed	B-6	138
Tube—pitot static airspeed	D-2	142
Tube—pitot airspeed (heads pressure)	AN5816-2	141
“ “ “ “ “ “ heated type	AN5816-1	140
“ “ “ “ “ “	D-2	142
Tube—pitot static airspeed	AN5815-1	139
Tube—pitot static airspeed	AN5816-1	140
Tube—pitot static airspeed	AN5816-2	141
Tube—pitot static airspeed	D-3	143
Tube—pitot static unheated type	AN5815-1	139
Tube—power venturi, type A-3A (aircraft)	AN5805-1	164
Tube—single throat power venturi	AN5805-1	164
Tube assy.—airspeed	B-5	Not catalogued
“ “ “ “	G-1	144
“ “ “ “ type B-6	B-6	138
“ “ “ “ pitot static (heads pressure) (heated type)	AN5816-1	140
“ “ “ “ unheated, biplane	AN5815-1	139
Tubes—power venturi		163
Tubes—power venturi (aircraft—double-throat)	AN5807-1	165
“ “ “ “ turn and bank, single throat	AN5805-1	164
Turbosupercharger tachometer drive adapter		85
Turn (indicator control unit)	B-4	238
Turn and bank indicator		247
Turn and bank indicator	A-5	248
Turn and bank indicator	A-8	249
Turn and bank indicator	AN5820-1	250
Turn and bank indicator	AN5820-2	251
Turn and bank indicator	C-1	252
Turn and bank indicator air filter	AN5821-1	230
Turn control		170
“ “	B-4	238
“ “ controller		169, 187
Turn controller		193, 200
Turn controller	B-4	238
“ “ indicator	A-3	232
“ “	AN5735-1	234
“ “	AN5735-2	233
“ “	B-3	236
“ “	B-4	237
“ “	C-1	239
Turn remote indicator control	B-4	238
Unit—engine gage (Navy)	AN5773-1	9



# ALPHABETICAL INDEX INSTRUMENT SECTION

Name	Type, Drawing or Designation	Page
Unit—engine gage (Navy)	AN5774	7
“ “ “ “	B-2	6
Units—engine gage		5
Universal thermometer	AN5790-6	89
“ “	AN5795-6	90
Unlighted clock—7 jewel	A-11	258
Valve—air vapor control	32100	286
Valve—speed control		176
Valve—transfer	644230	191
Valve—transfer automatic pilot air hydraulic	644230	191
Vapor pressure thermometer	A-20	91
“ type thermometer transmitter	A-22	93
Venturi tube	AN5805-1	164
“ “	AN5807-1	165
Vertical gyro control		169, 170, 193, 196, 188, 190
Vertical gyro control mount		193, 197
Vertical speed indicator	A-6	158
“ “ “	A-7	159
“ “ “	AN5825-1	161
“ “ “	AN5825-2	160
“ type control unit		196
“ “ gyro mount		197
Voltmeter	B-1	124
“	C-1	125
Voltmeter—aircraft	B-1	124
Voltmeter—aircraft	C-1	125
Voltmeter—alternating current	C-1	125
Warning unit—fuel pressure	C-2	57
“ “ “ “	C-3	59
Wheel and flap position indicators		61



**ALPHABETICAL INDEX  
INSTRUMENT SECTION**







# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
A-4	Army Type	Trap—drain oil		175
A-4	" "	Tube—single throat power venturi	AN5805-1	164
A-4	" "	Valve—speed control		176
A-4	" "	" —transfer	644230	191
A-5	" "	Amplifier—aileron servo		205
A-5	" "	" —constant altitude control		207
A-5	" "	" —directional gyro follow-up		203, 220
A-5	" "	" —elevator servo		206
A-5	" "	" —rudder servo		204
A-5	" "	Automatic pilot	A-5	193
A-5	" "	Control—constant altitude		202
A-5	" "	Controller—navigator's turn		218
A-5	" "	" —turn		200
A-5	" "	Indicator—directional gyro	AN5735-1	234
A-5	" "	" —pilot director		199
A-5	" "	" —turn and bank	A-5	248
A-5	" "	Mount—directional gyro control		195
A-5	" "	" —vertical gyro control		197
A-5	" "	Panel—control		198
A-5	" "	Rack—amplifier		201
A-5	" "	Servo—aileron		217
A-5	" "	" —aileron or rudder		209, 210, 211
A-5	" "	" —elevator		212, 213, 214
A-5	" "	" —trim tab		215
A-6	" "	Eliminator—fuel system air vapor	A-6	285
A-6	" "	Indicator—rate-of-climb	A-6	158
A-6	" "	Valve—air vapor control	32100	286
A-7	" "	Aircraft sextants		281
A-7	" "	Indicator—rate-of-climb	A-6	158
A-7	" "	" " " "	A-7	159
A-7	" "	" " " " assembly—fuel mixture	A-7	12
A-7	" "	" " " " " "	A-7A	13
A-7A	" "	" " " " " "	A-7	12
A-7A	" "	" " " " " "	A-7A	13
A-8	" "	" —turn and bank	A-8	249
A-8A	" "	Aircraft sextants		281
A-9	" "	Clock—7 jewel lighted	A-9	255
A-10	" "	Aircraft sextants		281
A-10	" "	Clock—civil date elapsed time	AN5741-1	257
A-10	" "	" —13 jewel	A-10	256
A-11	" "	" —7 jewel unlighted	A-11	258
A-11	" "	Indicator—turn and bank	AN5820-1	250
A-12	" "	Aircraft sextants		281
A-12	" "	Astrograph	A-1	253
A-12	" "	Indicator—turn and bank	AN5820-2	251
A-14	" "	" —remote indicating magnetic compass	AN5730-2A	275
A-20	" "	" —capillary thermometer	A-20	91
A-21	" "	Bulb—resistance thermometer (long)	AN5525-2	118
A-22	" "	Indicator—dual thermometer	AN5795-6	90
A-22	" "	" " " "	A-22	92
A-22	" "	Transmitter—thermometer	A-22	93
A-23	" "	Bulb—resistance thermometer (long)	AN5525-2	118
A-23	" "	Indicator—single electric thermometer	A-23	95, 96
A-23	" "	" " " " thermometer	AN5790-6	89
A-24	" "	Bulb—resistance thermometer (long)	AN5525-2	118
A-24	" "	Indicator—dual electric thermometer	A-24	97, 98
A-24	" "	" " " " thermometer	AN5795-6	90
A-25	" "	Bulb—resistance thermometer (long)	AN5525-2	118
A-25	" "	Indicator—dual electric thermometer	A-25	94
A-25	" "	" " " " thermometer	AN5795-6	90
A-261	Mfr's Part and Dwg	Thermometer—bimetal direct reading	C-13, C-13A	104
A100	" "	Signal—altitude warning	H-2	60



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AA	Mfr's Type	Voltmeter—aircraft	C-1	125
AL4000	" Dwg and Part	Indicator—directional gyro	AN5735-1	235
AN 05-1-40	AN T.O.	Signal—altitude warning	H-2	60
AN 05-5C-1	" "	Tachometer—chronometric	C-7	69
AN 05-5C-1	" "	" "	C-9A	70
AN 05-5C-1	" "	" "	C-11	71
AN 05-7C-4	" "	Transmitter assembly—fuel or oil pressure	AN5765-1	20
AN-A-2	" Spec.	Altimeter—pressure	AN5761-1	153, 154
AN-A-6	" "	Amplifier—gyro flux gate compass	AN5753-1	267
AN-B-8	" "	Switch box—gyro flux gate compass	AN5756-1	272
AN-C-62	" "	Clock—civil date elapsed time	AN5741-1	257
AN-C-74	" "	Computer—aerial dead reckoning	AN5835-1	278
AN-C-74a	" "	" " " "	AN5835-1	278
AN-C-79	" "	Compass—pilot's	AN5733-1	263
AN-C-92	" "	" —astro	A-1	260
AN-C-99	" "	Clock—7 jewel unlighted	AN5743-1	258
AN-D-4	" "	Control—gyro flux gate compass electrical caging	AN5754-1	268
AN-D-5	" "	" " " " manual caging	AN5755-1	273
AN-F-2	" "	Filter—turn and bank indicator air	AN5821-1	230
AN-F-9	" "	" —air	AN5822-1	229
AN-F-9A	" "	" "	AN5822-1	229
AN-G-2	" "	Gage—automatic pilot oil pressure	AN5771-6	23
AN-G-2	" "	" —de-icing pressure	AN5771-3	25
AN-G-2	" "	" —fuel pressure	AN5771-1	27
AN-G-2	" "	" " " (dual)	AN5772-1	28
AN-G-2	" "	" —hydraulic pressure—landing gear	AN5771-4	35
AN-G-2	" "	" —oil pressure (dual)	AN5772-2	36
AN-G-2	" "	" " " "	AN5771-2	38
AN-G-2	" "	" —suction	AN5771-5	55
AN-G-2a	" "	" —automatic pilot oil pressure	AN5771-6	23
AN-G-2a	" "	" —de-icing pressure	AN5771-3	25
AN-G-2a	" "	" —fuel pressure	AN5771-1	27
AN-G-2a	" "	" " " (dual)	AN5772-1	28
AN-G-2a	" "	" —hydraulic pressure—landing gear	AN5771-4	35
AN-G-2a	" "	" —oil pressure	AN5771-2	38
AN-G-9	" "	" —manifold pressure	AN5770-1	44
AN-G-9	" "	" " " (dual)	AN5770-2	45
AN-G-16	" "	Generator—pad mount tachometer	AN5531-1	74
AN-G-16	" "	" —screw mount tachometer	AN5531-2	75
AN-G-17	" "	Gage unit—engine	AN5774	4
AN-G-18	" "	" " " (electrical thermometer)	AN5773-1	9
AN-GG-A-96	" "	Accelerometer—aircraft	AN5745-2	126
AN-GG-A-461	" "	Altimeter—pressure	AN5760-1	152
AN-GG-A-461	" "	" "	AN5760-2	151
AN-GG-A-461	" "	" "	AN5760-4	155
AN-GG-B-796	" "	Bulb—resistance thermometer (long)	AN5525-2	118
AN-GG-B-796	" "	" " " (short)	AN5525-1	117
AN-GG-C-555	" "	Amplifier—gyro flux gate compass	AN5753-1	267
AN-GG-C-555	" "	Control—gyro flux gate compass electrical caging	AN5754-1	268
AN-GG-C-555	" "	" " " " manual caging	AN5755-1	273
AN-GG-C-555	" "	Indicator—gyro flux gate compass master	AN5752-1	269
AN-GG-C-555	" "	" " " " " repeater	AN5730-2A	270, 275
AN-GG-C-555	" "	Switch box—gyro flux gate compass	AN5756-1	272
AN-GG-C-555	" "	Transmitter—gyro flux gate compass	AN5751-1	271
AN-GG-C-566a	" "	Indicator—remote indicating magnetic compass	AN5730-2A	270, 275
AN-GG-C-566a	" "	Transmitter—remote indicating magnetic compass	AN5730-3	276
AN-GG-G-71a	" "	Gage—manifold pressure	AN5770-1	44
AN-GG-G-71a	" "	" " " (dual)	AN5770-2	45
AN-GG-I-496	" "	Indicator—directional gyro	AN5735-1	235
AN-GG-I-496	" "	" " " "	AN5735-2	233
AN-GG-I-506	" "	" —gyro horizon	AN5736-1	243
AN-GG-I-506	" "	" " " "	AN5736-2	246



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AN-GG-I-518	AN Spec.	Indicator—rate-of-climb	AN5825-1	161, 162
AN-GG-I-518	" "	" "	AN5825-2	160
AN-GG-I-522	" "	" —dual thermometer	AN5796-6	90
AN-GG-I-522	" "	" —single thermometer	AN5790-6	89
AN-GG-I-522a	" "	" —dual thermometer	AN5795-6	90
AN-GG-I-522a	" "	" —single thermometer	AN5790-6	89
AN-GG-I-525	" "	" —turn and bank	AN5820-1	250
AN-GG-I-525	" "	" " " "	AN5820-2	150
AN-GG-T-791	" "	Tube—pitot-static airspeed	AN5815-1	139
AN-I-3	" "	Indicator—dual tachometer	AN5530-2	78
AN-I-3	" "	" —tachometer	AN5530-1	77
AN-I-7	" "	" —gyro flux gate compass master	AN5752-1	269
AN-L-1a	" "	Luminous material—fluorescent		1
AN-M-6	" "	Machine—aircraft navigational drafting	AN5750-1	279
AN-P-5	" "	Indicator—electrical wheel and flap position	AN5780-1	66
AN-P-5	" "	" " " " " " " "	AN5780-2	65
AN-P-5	" "	Transmitter—electrical wheel and flap position	AN5785-1	67
AN-S-28	" "	Aircraft sextants		281
AN-S-29	" "	" " " " " " " "		281
AN-S-36	" "	Shunt—ammeter	E-1	121
AN-S-36	" "	" " " " " " " "	F-1	123
AN-T-1	" "	Tube—pitot-static airspeed	AN5816-1	140
AN-T-1	" "	" " " " " " " "	AN5816-2	141
AN-T-10	" "	" —double throat power venturi	AN5807-1	165
AN-T-10	" "	" —single throat power venturi	AN5805-1	164
AN-T-24	" "	Transmitter—gyro flux gate compass	AN5751-1	271
AN-T-36	" "	" assembly—fuel or oil pressure	AN5765-1	20
AN05-20-31	Army T. O.	Inclinometer	B-2	156
AN05-70-4	" "	Transmitter assembly—fuel and oil pressure	AN5765-1	20
AN1	Navy type	Computer—aerial dead reckoning	AN5835-1	278
AN786	AN Dwg	Tube—pitot-static airspeed	AN5815-1	139
AN786	" "	" " " " " " " "	B-6	138
AN800	" "	Instrument fittings		2
AN805	" "	" " " " " " " "		2
AN815	" "	Gage—hydraulic pressure—landing gear	E-4	34
AN3102-12S-1P	Part	Signal—fuel pressure	C-2	58
AN3102-12S-1P	" "	" " " " " " " "	C-3	59
AN3102-14S-2P	" "	Control—gyro flux gate compass electrical caging	AN5754-1	268
AN3102-14S-2P	" "	Switch box—gyro flux gate compass	AN5756-1	272
AN3102-14S-2P	" "	Transmitter—thermometer	A-22	93
AN3102-14S-2P	" "	" " " " " " " "	F-7	110
AN3102-16S-1P	" "	Indicator—dual thermometer	F-7	109
AN3102-16S-1P	" "	" " " " " " " "	A-22	92
AN3106	Dwg	" —single electric thermometer	A-23	96
AN3106-12S-3S	Part	Inverter—remote reading magnetic compass	12117-6-A	277
AN3106-12S-3S	" "	Signal—fuel pressure	C-2	58
AN3106-12S-3S	" "	" " " " " " " "	C-3	59
AN3106-14S-1S	" "	Indicator—electric thermometer	C-12	108
AN3106-14S-1S	" "	" " " " " " " "	F-8	112
AN3106-14S-1S	" "	" —electrical thermometer	F-9	114
AN3106-14S-1S	" "	" —single electric thermometer	A-23	96
AN3106-14S-2S	" "	Amplifier—gyro flux gate compass	AN5753-1	276
AN3106-14S-2S	" "	Indicator—dual electric thermometer	A-24	98
AN3106-14S-2S	" "	" " " " " " " "	F-10	116
AN3106-14S-2S	" "	" —electric thermometer	C-12	108
AN3106-14S-2S	" "	" —remote indicating magnetic compass	AN5730	270, 275
AN3106-14S-2S	" "	" —single electric thermometer	A-23	96
AN3106-14S-2S	" "	Transmitter—fuel pressure	C-14	30
AN3106-14S-2S	" "	" " " " " " " "	C-14A	32
AN3106-14S-2S	" "	" —manifold pressure	D-8	47
AN3106-14S-2S	" "	" " " " " " " "	D-8A	49
AN3106-14S-2S	" "	" —oil pressure	B-9, B-9A	40



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AN3106-14S-2S	AN Part	Transmitter—remote indicating magnetic compass	AN5730-3	276
AN3106-16S-1S	" "	Amplifier—gyro flux gate compass	AN5753-1	267
AN3106-16S-1S	" "	Gage unit—engine (electrical thermometer)	AN5773-1	9
AN3106-16S-1S	" "	Indicator—fuel pressure	C-14A	31
AN3106-16S-1S	" "	" —manifold pressure	D-8	46
AN3106-16S-1S	" "	" " " "	D-8A	48
AN3106-16S-1S	" "	" —oil pressure	B-9, B-9A	39
AN3106-16S-4S	" "	Amplifier—gyro flux gate compass	AN5753-1	267
AN3106-20-1S	" "	" " " " " "	AN5753-1	267
AN3106-20-1S	" "	Indicator—gyro flux gate compass master	AN5752-1	269
AN4041	" Dwg	Adapter—engine tachometer outlet	AN4041	84
AN4041	" "	Tachometers		68
AN5525	" "	Bulb—resistance thermometer (short)	AN5525-1	117
AN5525	" "	" " " (long)	AN5525-2	118
AN5525	" "	Gage unit—engine (electrical thermometer)		9
AN5525-1	" Part	Bulb—resistance thermometer (short)	AN5525-1	117
AN5525-1	" "	Indicator—dual electric thermometer	F-10	115
AN5525-1	" "	" " thermometer	AN5795-6	90
AN5525-1	" "	" —electric thermometer	C-10	105
AN5525-1	" "	" " " "	C-12	107
AN5525-1	" "	" " " "	F-8	111
AN5525-1	" "	" " " "	F-9	113
AN5525-1	" "	" —single electric thermometer	C-11	106
AN5525-1	" "	" " thermometer	AN5790-6	89
AN5525-2	" "	Bulb—resistance thermometer (long)	AN5525-2	118
AN5525-2	" "	Gage unit—engine (electrical thermometer)	AN5773-1	9
AN5525-2	" "	Indicator—dual electric thermometer	A-24	97
AN5525-2	" "	" " " " " "	A-25	94
AN5525-2	" "	" " " " " "	F-10	115
AN5525-2	" "	" " thermometer	AN5795-6	90
AN5525-2	" "	" —electric thermometer	F-8	111
AN5525-2	" "	" " " "	F-9	113
AN5525-2	" "	" —single electric thermometer	A-23	95
AN5525-2	" "	" " thermometer	AN5790-6	89
AN5530	" Dwg	" —dual tachometer	AN5530-2	78
AN5530	" "	" —tachometer	AN5530-1	77
AN5530-1	" Part	" " " "	AN5530-1	77
AN5530-1	" "	" " " "	E-9A	76
AN5530-2	" "	" —dual tachometer	AN5530-2	78
AN5530-3	" "	" " " "	AN5530-2	78
AN5531	" Dwg	Generator—pad mount tachometer	AN5531-1	74
AN5531	" "	" —screw mount tachometer	AN5531-2	75
AN5531-1	" Part	" —pad mount tachometer	AN5531-1	74
AN5531-2	" "	" —screw mount tachometer	AN5531-2	75
AN5730	" Dwg	Indicator—remote indicating magnetic compass	AN5730-2A	270, 275
AN5730	" "	Inverter—remote reading magnetic compass	12117-6-A	277
AN5730	" "	Transmitter—remote indicating magnetic compass	AN5730-3	276
AN5730-2	" Part	Inverter—remote reading magnetic compass	12117-6-A	277
AN5730-2	" "	Transmitter—remote reading magnetic compass	AN5730-3	276
AN5730-2A	" "	Gyro flux gate compass system		266
AN5730-2A	" "	Indicator—remote indicating magnetic compass	AN5730-2A	270, 275
AN5730-2A	" "	Remote indicating magnetic compass		274
AN5730-3	" "	Indicator—remote indicating magnetic compass	AN5730-2A	275
AN5730-3	" "	Inverter—remote reading magnetic compass	12117-6-A	277
AN5730-3	" "	Remote indicating magnetic compass		274
AN5730-3	" "	Transmitter—remote indicating magnetic compass	AN5730-3	276
AN5733	" Dwg	Compass—pilot's	AN5733-1	263
AN5733-1	" Part	" " " "	AN5733-1	263
AN5735	" Dwg	Indicator—directional gyro	AN5735-1	235
AN5735	" "	" " " "	AN5735-2	233
AN5735-1	" Part	" " " "	AN5735-1	234, 235
AN5735-2	" "	" " " "	AN5735-2	233





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AN5736	AN Dwg	Indicator—gyro horizon	AN5736-1	243
AN5736	" "	" " "	AN5736-2	246
AN5736-1	" Part	" " "	AN5736-1	242, 243
AN5736-2	" "	" " "	AN5736-2	246
AN5738	" Dwg	Standard—astro compass	0-5	261, 260
AN5741	" "	Clock—civil date elapsed time	AN5741-1	257
AN5741-1	" Part	" " " " "	AN5741-1	257
AN5741-1	" "	" -13 jewel	A-10	256
AN5743	" Dwg	" -7 jewel lighted	AN5743-1	258
AN5743-1	" Part	" " " " "	AN5743-1	258
AN5745	" Dwg	Accelerometer—aircraft	AN5745-2	126
AN5745-1	" Part	" " "	AN5745-2	126
AN5745-2	" "	" " "	AN5745-2	126
AN5750	" Dwg	Machine—aircraft navigational drafting	AN5750-1	279
AN5750-1	" Part	" " " " "	AN5750-1	279
AN5751	" Dwg	Transmitter—gyro flux gate compass	AN5751-1	271
AN5751-1	" Part	Gyro flux gate compass system		266
AN5751-1	" "	Transmitter—gyro flux gate compass	AN5751-1	271
AN5752	" Dwg	Indicator—gyro flux gate compass master	AN5752-1	269
AN5752-1	" Part	Gyro flux gate compass system		266
AN5752-1	" "	Indicator—gyro flux gate compass master	AN5752-1	269
AN5753	" Dwg	Amplifier—gyro flux gate compass	AN5753-1	267
AN5753-1	" Part	" " " " "	AN5753-1	267
AN5753-1	" "	Gyro flux gate compass system		266
AN5754	" Dwg	Control—gyro flux gate compass electrical caging	AN5754-1	268
AN5754-1	" Part	" " " " " " "	AN5754-1	268
AN5754-1	" "	Gyro flux gate compass system		266
AN5755	" Dwg	Control—gyro flux gate manual caging	AN5755-1	273
AN5755-1	" Part	" " " " " " "	AN5755-1	273
AN5755-1	" "	Gyro flux gate compass system		266
AN5756	" Dwg	Switch box—gyro flux gate compass	AN5756-1	272
AN5756-1	" Part	Gyro flux gate compass system		266
AN5756-1	" "	Switch box—gyro flux gate compass	AN5756-1	272
AN5760	" "	Altimeter—pressure	AN5760-1	152
AN5760	" "	" " "	AN5760-2	151
AN5760	" "	" " "	AN5760-4	155
AN5760-1	" Part	" " "	AN5760-1	152
AN5760-1	" "	" " "	B-11	148
AN5760-2	" "	" " "	AN5760-1	152
AN5760-2	" "	" " "	AN5760-2	151
AN5760-2	" "	" " "	B-11	148
AN5760-3	" "	" " "	B-11	148
AN5760-4	" "	" " "	AN5760-4	155
AN5760-4	" "	" " "	B-11	148
AN5760-4	" "	" " "	AN5760-2	151
AN5761	" Dwg	" " "	AN5761-1	153, 154
AN5761-1	" Part	" " "	AN5761-1	152
AN5761-1	" "	" " "	AN5761-1	153, 154
AN5761-1	" "	" " "	B-11	148
AN5761-1	" "	" " "	B-12	149
AN5765	" Dwg	Transmitter assembly—fuel or oil pressure	AN5765-1	20
AN5765-1	" Part	" " " " "	AN5765-1	19, 20
AN5765-2	" "	" —assembly—fuel or oil pressure	AN5765-1	19, 20
AN5765-3	" "	" " " " "	AN5765-1	19, 20
AN5770	" Dwg	Gage—manifold pressure	AN5770-1	44
AN5770	" "	" " " (dual)	AN5770-2	45
AN5770-1	" Part	" " " "	AN5770-1	44
AN5770-1	" "	" " " "	D-2	42
AN5770-1	" "	" " " "	D-9	43
AN5770-2	" "	" " " "	AN5770-1	44
AN5770-2	" "	" " " (dual)	AN5770-2	45
AN5770-2	" "	" " " "	D-9	43



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AN5771	AN Dwg	Gage—automatic pilot oil pressure	AN5771-6	23
AN5771	“ “	“ —de-icing pressure	AN5771-3	25
AN5771	“ Spec.	“ —fuel pressure	AN5771-1	27
AN5771	“ Dwg	“ —hydraulic pressure—landing gear	AN5771-4	35
AN5771	“ “	“ —oil pressure	AN5771-2	38
AN5771	“ “	“ —suction	AN5771-5	55
AN5771-1	“ Part	“ —fuel pressure	AN5771-1	27
AN5771-1	“ “	“ —oil pressure	AN5771-2	38
AN5771-1	“ Standard	Pressure gages		21
AN5771-2	“ Part	Gage—oil pressure	AN5771-2	38
AN5771-2	“ “	“ “ “	B-5	37
AN5771-2	“ Standard	Pressure gages		21
AN5771-3	“ Part	Gage—de-icing pressure	AN5771-3	25
AN5771-3	“ “	“ “ “	G-1	24
AN5771-3	“ Standard	Pressure gages		21
AN5771-4	“ Part	Gage—hydraulic pressure—landing gear	AN5771-4	35
AN5771-4	“ “	“ “ “ “ “	E-3	33
AN5771-4	“ “	“ “ “ “ “	E-4	34
AN5771-4	“ Standard	Pressure gages		21
AN5771-5	“ Part	Gage—suction	AN5771-5	55
AN5771-5	“ “	“ “	F-2	51
AN5771-5	“ “	“ “	F-3	53, 54
AN5771-6	“ “	“ automatic pilot oil pressure	AN5771-6	23
AN5771-6	“ “	Pressure gages		21
AN5772	“ Dwg	Gage—fuel pressure (dual)	AN5772-1	28
AN5772	“ “	“ —oil pressure (dual)	AN5772-2	36
AN5772-1	“ Part	“ —fuel pressure	AN5771-1	27
AN5772-1	“ “	“ “ “ (dual)	AN5772-1	28
AN5772-2	“ “	“ —oil pressure (dual)	AN5772-2	36
AN5773	“ Dwg	Gage unit—engine (electrical thermometer)	AN5773-1	9
AN5773-1	“ Part	“ “ “ “ “	AN5773-1	9
AN5774	“ Dwg	“ “ “	AN5774	7
AN5774-8	“ Part	“ “ “	AN5774	8
AN5774-15	“ “	“ “ “	AN5774	8
AN5774-22	“ “	“ “ “	AN5774	8
AN5780	“ Dwg	Indicator—electrical wheel and flap position	AN5780-1	66
AN5780	“ “	“ “ “ “ “ “	AN5780-2	65
AN5780-1	“ Part	“ “ “ “ “ “	AN5780-1	66
AN5780-2	“ “	“ “ “ “ “ “	A-2	62, 63
AN5780-2	“ “	“ “ “ “ “ “	AN5780-2	65
AN5780-2	“ “	Transmitter—electrical wheel and flap position	A-2	64
AN5785	“ Dwg	“ “ “ “ “ “	AN5785-1	67
AN5785-1	“ Part	“ “ “ “ “ “	AN5785-1	67
AN5790	“ Dwg	Indicator—single thermometer	AN5790-6	89
AN5790-6	“ Part	Bulb—resistance thermometer (long)	AN5525-2	118
AN5790-6	“ “	“ “ “ (short)	AN5525-1	117
AN5790-6	“ “	Indicator—electric thermometer	C-12	108
AN5790-6	“ “	“ “ “	F-8	112
AN5790-6	“ “	“ “ “	F-9	114
AN5790-6	“ “	“ —single electric thermometer	A-23	96
AN5790-6	“ “	“ “ “	C-11	106
AN5790-6	“ “	“ “ thermometer	AN5790-6	89
AN5795	“ Dwg	“ —dual electric thermometer	A-24	98
AN5795	“ “	“ “ thermometer	AN5795-6	90
AN5795-6	“ Part	Bulb—resistance thermometer (long)	AN5525-2	118
AN5795-6	“ “	“ “ “ (short)	AN5525-1	117
AN5795-6	“ “	Indicator—dual thermometer	F-7	109
AN5795-6	“ “	“ “ electric thermometer	A-24	98
AN5795-6	“ “	“ “ “ “	A-25	94
AN5795-6	“ “	“ “ “ “	F-10	116
AN5795-6	“ “	“ “ thermometer	AN5795-6	90
AN5795-6	“ “	“ “ “	A-22	92



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AN5795-6	AN Dwg	Transmitter—thermometer	F-7	110
AN5805	" Dwg	Tube—single throat power venturi	AN5805-1	164
AN5805-1	" Part	" " " " " "	AN5805-1	164
AN5807	" Dwg	" —double throat power venturi	AN5807-1	165
AN5807-1	" Part	" " " " " "	AN5807-1	165
AN5815	" Dwg	" —pitot-static airspeed	AN5815-1	139
AN5815	" " "	" " " " " "	B-6	138
AN5815-1	" Part	" " " " " "	AN5815-1	139
AN5816	" Dwg	" " " " " "	AN5816-1	140
AN5816	" " "	" " " " " "	AN5816-2	141
AN5816-1	" Part	" " " " " "	AN5816-1	140
AN5816-2	" " "	" " " " " "	AN5816-2	141
AN5820	" Dwg	Indicator—turn and bank	AN5820-1	250
AN5820	" " "	" " " " " "	AN5820-2	251
AN5820-1	" Part	" " " " " "	AN5820-1	250
AN5820-2	" " "	" " " " " "	AN5820-2	251
AN5821	" Dwg	Filter—turn and bank indicator air	AN5821-1	230
AN5821-1	" Part	" " " " " "	AN5821-1	230
AN5822	" Dwg	" —air	AN5822-1	229
AN5822-1	" Part	" " " " " "	AN5822-1	228, 229
AN5825	" Dwg	Indicator—rate-of-climb	AN5825-1	161, 162
AN5825	" " "	" " " " " "	AN5825-2	160
AN5825-1	" Part	" " " " " "	A-7	159
AN5825-1	" " "	" " " " " "	AN5825-1	161, 162
AN5825-2	" " "	" " " " " "	A-7	159
AN5825-2	" " "	" " " " " "	AN5825-2	160
AN5835	" Dwg	Computer—aerial dead reckoning	AN5835-1	278
AN5835-1	" Part	" " " " " "	AN5835-1	278
AN5851	" Dwg	Aircraft sextants		281
AN5851-1	" Part	" " " " " "		281
AN5852	" Dwg	" " " " " "		281
AN5852-1	" Part	" " " " " "		281
AN9205	" " "	Tachometer—chronometric	C-7	69
AN9205	" " "	" " " " " "	C-9A	70
AN9205	" " "	" " " " " "	C-11	71
AND10005	" " "	Generator—screw mount tachometer	E-12	82
AND10050	" " "	Instrument fittings		3
AND10066-12S-3P	AN Part	Generator—screw mount tachometer	E-12	81, 82
AND10066-14S-1P	" " "	" —pad mount tachometer	AN5531-1	74
AND10066-14S-1P	" " "	" —screw mount tachometer	AN5531-2	75
AND10066-14S-1P	" " "	Indicator—dual tachometer	AN5530-2	78
AND10066-14S-1P	" " "	" —electric thermometer	C-12	107
AND10066-14S-1P	" " "	" " " " " "	F-8	111
AND10066-14S-1P	" " "	" —electrical " " "	F-9	113
AND10066-14S-1P	" " "	" —single electric thermometer	A-23	95
AND10066-14S-1P	" " "	" " " " " "	C-11	106
AND10066-14S-1P	" " "	" —tachometer	AN5530-1	77
AND10066-14S-1P	" " "	" " " " " "	E-9A	76
AND10066-14S-1P	" " "	" " " " " "	E-12	83
AND10066-14S-2P	" " "	" —dual electric thermometer	A-24	97
AND10066-14S-2P	" " "	" " " " " "	A-25	94
AND10066-14S-2P	" " "	" " " " " "	F-10	115
AND10066-14S-2P	" " "	" —electric thermometer	C-10	105
AND10066-14S-2P	" " "	" —single thermometer	AN5790-6	89
AND10066-14S-5P	" " "	" —dual thermometer	AN5795-6	90
AND10200	" Dwg	" " thermocouple thermometer	B-11	101
AND10200	" " "	" —thermocouple thermometer	B-7	103
AND10200	" " "	" " " " " "	B-9	99
AND10200	" " "	Thermometers		88
AND10401	" " "	Indicator—thermocouple thermometer	B-9	100
AW-1 7/8-2	Mfr's Part and Dwg	Gage—fuel pressure	AN5771-1	21
AW-1 7/8-6-A	" " " " "	" —automatic pilot oil pressure	AN5771-6	23



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AW-1 7/8-14-CK	Mfr's Part and Dwg	Gage—Automatic pilot oil pressure	AN5771-6	23
AW-1 7/8-14-CL	" Dwg	" —oil pressure	AN5771-2	38
AW-1 7/8-14-CZ	" "	" " "	AN5771-2	38
AW-1 7/8-14-R	" Part and Dwg	" " "	B-5	37
AW-1 7/8-14-W	" " " "	" " "	B-5	37
AW-1 7/8-15-AX	" " " "	" —fuel pressure	AN5771-1	27
AW-1 7/8-15-BG	" " " "	" " "	AN5771-1	27
AW-1 7/8-15-BP	" " " "	" " "	AN5771-1	27
AW-1 7/8-15-K	" " " "	" " "	C-10	26
AW-1 7/8-16-AC	" " " "	" —de-icing pressure	AN5771-3	25
AW-1 7/8-16-N	" " " "	" " "	AN5771-3	25
AW-1 7/8-17-AK	" " " "	" —hydraulic pressure—landing gear	E-4	34
AW-1 7/8-17-BS	" " " "	" " " " " "	E-3	33
AW-1 7/8-17-CD	" " " "	" " " " " "	E-4	34
AW-1 7/8-17-CN	" " " "	" " " " " "	AN5771-4	35
AW-1 7/8-17-E	" " " "	" " " " " "	E-3	33
AW-1 7/8-17-H	" " " "	" " " " " "	E-3	33
AW-1 7/8-20-CI-5	" " " "	Indicator—capillary thermometer	A-20	91
AW-1 7/8-20-CI-8	" " " "	" " " "	A-20	91
AW-1 7/8-21-AG	" " " "	Gage—suction	F-3	54
AW-1 7/8-21-AI	" " " "	" " "	F-3	54
AW-1 7/8-21-AJ	" " " "	" " "	F-3	54
AW-1 7/8-21-AK	" " " "	" " "	AN5771-5	55
AW-1 7/8-21-AL	" " " "	" " "	F-3	54
AW-1 7/8-21-B	" " " "	" " "	F-2	51
AW-1 7/8-21-K	" " " "	" " "	F-3	54
AW-1 7/8-21-Q	" " " "	" " "	AN5771-5	55
AW-1 7/8-21-Q	" " " "	" " "	F-3	54
AW-1 7/8-21-X	" " " "	" " "	F-3	54
AW-2-34	" " " "	" —hydraulic pressure—landing gear	E-3	33
AW-2-34-A	" " " "	" " " " " "	E-3	33
AW-2-34-C	" " " "	" " " " " "	E-3	33
AW-2-34-D	" " " "	" " " " " "	E-3	33
AW-2 3/4-12	" " " "	Indicator—airspeed	C-7	129
AW-2 3/4-13	" Dwg	" " "	D-4	131
AW-2 3/4-13-B	" " " "	" " "	D-4	131
AW-2 3/4-14	" Part and Dwg	Gage—manifold pressure	D-2	42
AW-2 3/4-14-A	" " " "	" " " "	D-2	42
AW-2 3/4-14-B	" " " "	" " " "	D-2	42
AW-2 3/4-14-E	" " " "	" " " "	D-2	42
AW-2 3/4-14-P	" " " "	" " " "	D-2	42
AW-2 3/4-15-8	" " " "	" unit—engine, 8 foot capillary	B-2	6
AW-2 3/4-16-AH	" " " "	Indicator—airspeed	B-8	128
AW-2 3/4-16-AQ	" " " "	" " "	B-8	128
AW-2 3/4-16-U	" " " "	" " "	C-14	130
AW-2 3/4-16-V	" " " "	" " "	D-7	123
AW-2 3/4-17-8	" " " "	Gage unit—engine, 8 foot capillary	B-2	6
AW-2 3/4-19- (series)	" Part and Dwg	" " " "	AN5774	8
AW-2 3/4-25-E	" Dwg	" —manifold pressure	AN5770-1	44
AW-2 3/4-25-G	" " " "	" " " "	D-9	43
AW-2 3/4-27	" " " "	Indicator—airspeed	D-6	132
AW-2 3/4-28-E	" " and Part	Gage unit—engine	AN5773-1	9
AW-2 3/4-28-F	" " " "	" " " (electrical thermometer)	AN5773-1	9
AW-2 3/4-31-B	" " " "	Indicator—airspeed	F-1	134
AW-2 3/4-32-J	" " " "	Altimeter—pressure	B-12	149
AW-2 3/4-40-A	" " and Part	Gage—fuel pressure (dual)	AN5772-1	28
AW2-35	" Part and Dwg	" —suction	F-2	51
AW2-35A	" " " "	" " " "	F-2	51
AW2-35D	" " " "	" " " "	F-2	51
AW2-35E	" " " "	" " " "	F-2	51
AW2-36A	" " " "	" —fuel pressure	C-10	26
AW2-36C	" " " "	" " " "	C-10	26





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
AW2-36E	Mfr's Part and Dwg	Gage—fuel pressure	C-10	26
AW2-37	" " " "	" —oil pressure	B-5	37
AW2-37A	" " " "	" " " "	B-5	37
AW2-43	" " " "	" —de-icing pressure	G-1	24
B-1	Army Type	Voltmeter—aircraft	B-1	124
B-2	" "	Gage—oil pressure	AN5771-2	38
B-2	" "	" unit—engine, 8 foot capillary	B-2	6
B-2	" "	Inclinometer	B-2	156
B-3	" "	Accelerometer—aircraft	AN5745-2	126
B-3	" "	Indicator—directional gyro	B-3	236
B-3	" "	Meter—drift	B-3	282, 283
B-3	" "	" " " "	B-5	284
B-4	" "	Control—turn (remote indicator)	B-4	238
B-4	" "	Indicator—directional gyro	B-4	237
B-4	" "	Tube—double throat power venturi	AN5807-1	165
B-5	" "	Gage—oil pressure	AN5771-2	38
B-5	" "	" " " "	B-5	37
B-5	" "	Indicator assembly—fuel mixture	B-5A	14
B-5	" "	Meter—drift	B-5	284
B-5A	" "	Indicator assembly—fuel mixture	B-5A	14
B-6	" "	Generator—screw mount tachometer	E-4	72
B-6	" "	Indicator assembly—fuel mixture	B-6	15, 16
B-6	" "	Tube—pitot-static airspeed	AN5815-1	139
B-6	" "	" " " "	B-6	138
B-6A	" "	Indicator assembly—fuel mixture	B-6	16
B-6A	" "	" " " "	B-6A	17, 18
B-7	" "	Gage unit—engine	AN5774	7
B-7	" "	" " —engine, 8 foot capillary	B-2	6
B-7	" "	Indicator—thermocouple thermometer	B-7	103
B-7	" "	" " " "	B-9	100
B-8	" "	Gage—oil pressure	AN5771-2	38
B-8	" "	" " " "	B-5	37
B-8	" "	" unit—engine (electrical thermometer)	AN5773-1	9
B-8	" "	Indicator—airspeed	B-8	128
B-8A	" "	Gage—oil pressure	AN5771-2	38
B-8A	" "	" " " "	B-5	37
B-9	" "	Indicator—oil pressure	B-9A, B-9	39
B-9	" "	" —thermocouple thermometer	B-7	103
B-9	" "	" " " "	B-9	99, 100
B-9A	" "	Transmitter—oil pressure	B-9A, B-9	40
B-9A	" "	Indicator—oil pressure	B-9A, B-9	39
B-9A	" "	Transmitter—oil pressure	B-9A, B-9	40
B-10	" "	Gage—oil pressure	AN5771-2	38
B-10	" "	" " " "	AN5772-2	36
B-11	" "	Altimeter—pressure	B-11	148
B-11	" "	Indicator—dual thermocouple thermometer	B-11	101, 102
B-12	" "	Altimeter—pressure	B-11	148
B-12	" "	" " " "	B-12	149
B-16	" "	Compass—pilot's	AN5733-1	263
B-17	" "	" " " "	B-17	264
B-58	Mfr's Dwg and Part	Inclinometer	B-2	156
B-220	" Part	Indicator—dual electric indicator	A-24	97
B-220	" " " "	" " " thermometer	A-25	94
B-220	" " " "	" —single electric thermometer	A-23	95
B-1271	" " and Dwg	Tube—double throat power venturi	AN5807-1	165
B-2201	" " " "	Bulb—resistance thermometer (short)	AN5525-1	117
B-2201	" " " "	Indicator—dual electric thermometer	F-10	115
B-2201	" " " "	" —electric thermometer	C-10	105
B-2201	" " " "	" " " "	C-12	107
B-2201	" " " "	" " " "	F-8	111
B-2201	" " " "	" " " "	F-9	113
B-2201	" " " "	" —single electric thermometer	C-11	106



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
B-2202	Mfr's Part	Bulb—resistance thermometer (long)	AN5525-2	118
B-2202	" "	Indicator—dual electric thermometer	F-10	115
B-2202	" "	" —electric thermometer	F-8	111
B-2202	" "	" " "	F-9	113
BAS SQ 109A	Navy Spec.	Generator—pad mount tachometer	AN5531-1	74
BAS SQ 109A	" "	" —screw mount tachometer	AN5531-2	75
BC-20585-A	Mfr's Model	Tube—pitot airspeed	G-2	145
BP-10443-A	" "	" " "	G-1	144
C-1	Army Type	Adapter—turbosupercharger tachometer drive		85
C-1	" "	Indicator—directional gyro	C-1	239
C-1	" "	" —turn and bank	C-1	251
C-1	" "	Tube—pitot-static airspeed	AN5816-1	140
C-1	" "	Voltmeter—aircraft	C-1	125
C-1R	" "	Tube—pitot-static airspeed	AN5816-1	140
C-2	" "	Indicator—rate-of-climb	A-7	159
C-2	" "	" " "	AN5825-1	161
C-2	" "	Signal—fuel pressure	C-2	57, 58
C-2	" "	Valve—air vapor control	32100	286
C-3	" "	Signal—fuel pressure	C-2	58
C-3	" "	" " "	C-3	59
C-5	" "	Indicator—gyro horizon	C-5	241
C-7	" "	Adapter—engine tachometer outlet	AN4041	84
C-7	" "	Indicator—airspeed	C-7	129
C-7	" "	" —gyro horizon	AN5736-1	242
C-7	" "	" " "	AN5736-2	246
C-7	" "	Tachometer—chronometric	C-7	69
C-7	" "	Tube—pitot-static airspeed	AN5816-1	140
C-8	" "	Bulb—resistance thermometer (short)	AN5525-1	117
C-9	" "	Adapter—engine tachometer outlet	AN4041	84
C-9	British Designation	Aircraft sextants		281
C-9	Army Type	Tachometer—chronometric	C-7	69
C-9	" "	" " "	C-9A	70
C-9	" "	" " "	C-11	71
C-9A	" "	" " "	C-7	69
C-9A	" "	" " "	C-9A	70
C-9A	" "	" " "	C-11	71
C-10	" "	Bulb—resistance thermometer (short)	AN5525-1	117
C-10	" "	Gage—fuel pressure	C-10	26
C-10	" "	Indicator—electric thermometer	C-10	105
C-11	" "	Adapter—engine tachometer outlet	AN4041	84
C-11	" "	Altimeter—pressure	AN5760-1	152
C-11	" "	" " "	B-11	148
C-11	" "	" " "	C-11	150
C-11	" "	Indicator—single electric thermometer	C-11	106
C-11	" "	" " thermometer	AN5790-6	89
C-11	" "	Tachometer—chronometric	C-7	69
C-11	" "	" " "	C-9A	70
C-11	" "	" " "	C-11	71
C-12	" "	Altimeter—pressure	AN5760-2	151
C-12	" "	" " "	AN5761-1	154
C-12	" "	" " "	B-12	149
C-12	" "	Bulb—resistance thermometer (short)	AN5525-1	117
C-12	" "	Indicator—electric thermometer	C-12	107, 108
C-12	" "	" —single thermometer	AN5790-6	89
C-13	" "	Altimeter—pressure	AN5760-1	152
C-13	" "	" " "	AN5761-1	154
C-13	" "	" " "	B-12	149
C-13	" "	Gage—fuel pressure	AN5771-1	27
C-13	" "	Thermometer—bimetal direct reading	C-13, C-13A	104
C-13A	" "	" " " " " "	C-13, C-13A	104
C-14	" "	Indicator—airspeed	C-7	129
C-14	" "	" " "	C-14	130



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
C-14	Army Type	Indicator—fuel pressure	C-14	29
C-14	“ “	Transmitter—fuel pressure	C-14	30
C-14A	“ “	Altimeter—pressure	AN5761-1	153
C-14A	“ “	Indicator—fuel pressure	C-14A	31
C-14A	“ “	Transmitter—fuel pressure	C-14A	32
C-16	“ “	Altimeter—pressure	AN5760-4	155
C-108	Navy Aer. Spec.	Indicator—remote indicating magnetic compass	AN5730-2A	275
C-1000	Mfr's Part and Dwg	Compass—pilot's	AN5733-1	263
CB-1000	“ “ “ “	“ “	AN5733-1	263
CBD-1000	“ “ “ “	“ “	AN5733-1	263
CBU-1000	“ “ “ “	“ “	AN5733-1	263
CM-1	“ “	Control—gyro flux gate manual caging	AN5755-1	273
CM-2	“ “	“ “ “ “ compass electrical caging	AN5754-1	268
CO-1000	“ “ and Dwg	Compass—pilot's	AN5733-1	263
CO-1	“ “	Switch box—gyro flux gate compass	AN5756-1	272
CU-1000	“ “ and Dwg	Compass—pilot's	AN5733-1	263
D-1	Army Type	Servo—electric	D-1	221
D-1	“ “	Tube—pitot-static airspeed	AN5816-2	141
D-2	“ “	Ammeter	D-2	119
D-2	“ “	Gage—manifold pressure	AN5770-1	44
D-2	“ “	“ “ “	D-2	42
D-2	“ “	Tube—pitot-static airspeed	D-2	142
D-3	“ “	“ “ “	D-3	143
D-4	“ “	Indicator—airspeed	D-4	131
D-4	“ “	“ “	D-6	132
D-6	“ “	“ “	D-4	131
D-6	“ “	“ “	D-6	132
D-7	“ “	“ “	D-4	131
D-7	“ “	“ “	D-6	132
D-7	“ “	“ “	D-7	133
D-8	“ “	“ —manifold pressure	D-8	46
D-8	“ “	Transmitter—manifold pressure	D-8	47
D-8A	“ “	Indicator—manifold pressure	D-8A	48
D-8A	“ “	Transmitter—manifold pressure	D-8A	49
D-9	“ “	Gage—manifold pressure	AN5770-1	44
D-9	“ “	“ “ “	D-2	42
D-9	“ “	“ “ “	D-9	43
D-10	“ “	“ “ “	AN5770-1	44
D-10	“ “	“ “ “	D-2	42
D-10	“ “	“ “ “	D-9	43
D-11	“ “	“ “ “	AN5770-1	44
D-11	“ “	“ “ “ (dual)	AN5770-2	45
D-11	“ “	“ “ “	D-9	43
D-12	“ “	Compass—navigator's	D-12	265
D-13	“ “	“ “	D-12	265
D-102	Mfr's Part and Dwg	Standard—astro compass	O-5	261
D-103	“ “ “ “	Gage—oil pressure	AN5771-2	38
D-115	“ “ “ “	“ —fuel pressure	AN5771-1	27
D-117	“ “ “ “	“ —de-icing pressure	AN5771-3	25
D-118	“ “ “ “	“ —hydraulic pressure—landing gear	AN5771-4	35
D-500	“ “ “ “	Compass—astro	Mark II	260
E-1	Army Type	Ammeter	E-1	120
E-1	“ “	Indicator—gyro horizon	E-1	244, 245
E-1	“ “	Shunt—ammeter	E-1	121
E-3	“ “	Gage—hydraulic pressure—landing gear	E-3	33
E-4	“ “	“ “ “ “ “ “	AN5771-4	35
E-4	“ “	“ “ “ “ “ “	E-3	33
E-4	“ “	“ “ “ “ “ “	E-4	34
E-4	“ “	Generator—screw mount tachometer	E-4	72
E-4	“ “	Indicator—tachometer	E-4	73
E-6B	“ “	Computer—aerial dead reckoning	AN5835-1	278
E-6B-100	Mfr's Part and Dwg	“ “ “ “	AN5835-1	278



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
E-9	Army Type	Genetator—pad mount tachometer	AN5531-1	74
E-9	" "	" —screw mount tachometer	AN5531-2	75
E-9	" "	Indicator—tachometer	E-9A	76
E-9A	" "	Generator—pad mount tachometer	AN5531-1	74
E-9A	" "	" —screw mount tachometer	AN5531-2	75
E-9A	" "	Indicator—tachometer	AN5530-1	77
E-9A	" "	" "	E-9A	76
E-10	" "	" —dual tachometer	E-10	79
E-10	" "	Transmitter—tachometer	E-10	80
E-12	" "	Generator—screw mount tachometer	E-12	81, 82
E-12	" "	Indicator—tachometer	E-12	83
E-13	" "	Generator—pad mount tachometer	AN5531-1	74
E-13	" "	Indicator—tachometer	AN5530-1	77
E-13	" "	" "	E-9A	76
E-14	" "	Generator—pad mount tachometer	AN5531-1	74
E-14	" "	Indicator—dual tachometer	AN5530-2	78
E-320-D1	Mfr's Part and Dwg	Aircraft sextants		281
E. H. A. 100	" "	Signal—altitude warning	H-2	60
F-1	Army Type	Ammeter	F-1	122
F-1	" "	Indicator—airspeed	F-1	134
F-1	" "	" "	F-2	135
F-1	" "	Shunt—ammeter	F-1	123
F-2	" "	Gage—suction	F-2	51
F-2	" "	Indicator—airspeed	D-7	133
F-2	" "	" "	F-1	134
F-2	" "	" "	F-2	135
F-3	" "	Gage—suction	F-2	51
F-3	" "	" "	F-3	53, 54
F-3	" "	Indicator—airspeed	F-3	136
F-4	" "	Gage—suction	AN5771-5	55
F-4	" "	" "	F-2	51
F-4	" "	" "	F-3	53, 54
F-7	" "	Indicator—dual thermometer	F-7	109
F-7	" "	" " " "	AN5795-6	90
F-7	" "	Transmitter—thermometer	F-7	110
F-8	" "	Bulb—resistance thermometer (short)	AN5525-1	117
F-8	" "	" " " (long)	AN5525-5	118
F-8	" "	Indicator—electric thermometer	F-8	111, 112
F-8	" "	" single thermometer	AN5790-6	89
F-9	" "	Bulb—resistance thermometer (short)	AN5525-1	117
F-9	" "	" " " (long)	AN5525-2	118
F-9	" "	Indicator—electrical thermometer	F-9	113, 114
F-9	" "	" —single thermometer	AN5790-6	89
F-10	" "	Bulb—resistance thermometer (short)	AN5525-1	117
F-10	" "	" " " (long)	AN5525-2	118
F-10	" "	Indicator—dual electric thermometer	F-10	115, 116
F-10	" "	" " thermometer	AN5795-6	90
F-10	" "	Transmitter—thermometer	F-7	110
F4AA-4	Mfr's Part and Dwg	Computer—aerial dead reckoning	AN5835-1	278
F4AA-8	" " " "	" " " " " "	AN5835-1	278
FS18312	" Dwg	Gage—manifold pressure	AN5770-1	44
G-1	Army Type	" de-icing pressure	G-1	24
G-1	" "	" " " "		25
G-1	" "	Tube—flush static pressure	42A13995	146
G-1	" "	" —pitot airspeed	G-1	144
G-2	" "	Gage—de-icing pressure		25
G-2	" "	" " " "	G-1	24
G-2	" "	Tube—flush static pressure	42A13995	146
G-2	" "	" —pitot airspeed	G-2	145
G1000 A2 CA-1	Mfr's Dwg and Part	Transmitter assembly—fuel or oil pressure	AN5765-1	20
G1000 A4-CA-1	" " " "	" " " " " " " "	AN5765-1	20
G75055	" Part and Dwg	Gage—de-icing pressure	AN5771-3	25





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
H-2	Army Type	Gage—automatic pilot oil pressure	AN5771-6	23
H-2	" "	Signal—altitude warning	H-2	60
H-321	Mfr's Dwg	Flange—mounting		11
H-323	" " and Part	Indicator assembly—fuel mixture	A-7	12
H-323	" " " "	" " " "	A-7A	13
H-323	" " " "	" " " "	B-5A	14
H-323	" " " "	" " " "	B-6	16
H-323	" " " "	" " " "	B-6A	18
H-376	" " " "	" " " "	A-7	12
H-376	" " " "	" " " "	A-7A	13
H-378	" " " "	" " " "	B-6	16
H-378	" " " "	" " " "	B-6A	18
H-403	" " " "	" " " "	B-5A	14
H42A5292	Army Dwg	Machine—aircraft navigational drafting	AN5750-1	279
I	" "	Adapter—turbosupercharger tachometer drive	I	85
JH20-1	Mfr's " and Part	Pulley—follow-up		182
JH20-2	" " " "	" " " "		182
JH20-3	" " " "	" " " "		182
JH20-4	" " " "	" " " "		182
JH20-5	" " " "	" " " "		182
JH20-6	" " " "	" " " "		182
JH20-7	" " " "	" " " "		182
JH20-8	" " " "	" " " "		182
JH20-9	" " " "	" " " "		182
JH-20-10	" " " "	" " " "		182
JH-20-11	" " " "	" " " "		182
JH3000	" " " "	Servo—11 inch stroke gang		180
JH3050	" " " "	Trap—drain oil		175
JH3100	" Model and Dwg	Valve—speed control		176
JH3109	" " " "	" " " "		176
JH3110	" Part and Dwg	Servo—8 inch stroke gang		179
JH3114	" " " "	Trap—drain oil		175
JH3116	" Model and Part and Dwg	Filter—air	AN5822-1	229
JH3120	Mfr's Part and Dwg	Regulator—oil Pressure		177
JH3126	" " " "	Filter—oil		178
JH3139	" Part	Mount—gyro control		181
JH3211	" Dwg and Part	Block—manifold		174
JH3212	" " " "	" " " "		174
JH3213	" " " "	" " " "		174
JH4000	" " " "	Mount—gyro control		172
JH4000-1	" " " "	" " " "		181
JH4127	" " " "	" " " "		172
JH5000	" " " "	Control—directional gyro		170
JH5185	" " " "	" " " "		170
JH5500	" " " "	Indicator—directional gyro	AN5735-1	235
JH6000	" " " "	Control—vertical gyro		171
JH6260	" " " "	" " " "		171
JH6500	" " " "	Indicator—gyro horizon	AN5736-1	243
K-1	" Model	Filter—turn and bank indicator air	AN5821-1	230
KB-1	" "	Indicator—gyro horizon	E-1	245
M-474	Navy Spec.	Voltmeter—aircraft	C-1	125
M-18201	Mfr's Part and Dwg	Gage—manifold pressure (dual)	AN5770-2	45
M-18217	" " " "	" —fuel pressure (dual)	AN5772-1	28
M-18313	" " " "	" —manifold pressure (dual)	AN5770-2	45
M-18314	" " " "	" —fuel pressure (dual)	AN5772-1	28
Mk 1-A	Navy type	Indicator—directional gyro	AN5735-1	234
Mk 1A	British Type	Astrograph	A-1	253
Mk 1A	Navy Type	Gage—manifold pressure	D-2	42
Mk 1B	British Type	Astrograph	A-1	253
Mk 1 Mod O	Navy Type	Indicator—remote indicating magnetic compass	AN5730-2A	275
Mk 1 Mod O	" "	Transmitter—remote indicating magnetic compass	AN5730-3	276



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
Mk2	Army and Navy Type	Compass—astro	Mk 2	260
Mk 3	Navy Type	Automatic pilots	A-3, A-3A	169
Mk 3	" "	Block—manifold		173
Mk 3	" "	Control—directional gyro		170
Mk 3	" "	" —vertical gyro		171
Mk 3	" "	Filter—air	AN5822-1	228, 229
Mk 3	" "	" —oil		178
Mk 3	" "	Mount—gyro control		172, 181
Mk 3	" "	Regulator—oil pressure		177
Mk 3	" "	Servo—8 inch stroke gang		179
Mk 3	" "	" —11 inch stroke gang		180
Mk 3	" "	Trap—drain oil		175
Mk 3	" "	Valve—speed control		176
Mk 3A	" "	Automatic pilots	A-3, A-3A	169
Mk 3A	" "	Block—manifold		173
Mk 3A	" "	Control—directional gyro		170
Mk 3A	" "	" —vertical gyro		171
Mk 3A	" "	Filter—oil		178
Mk 3A	" "	Mount—gyro control		172, 181
Mk 3A	" "	Pulley—follow-up		182
Mk 3A	" "	Regulator—oil pressure		177
Mk 3A	" "	Servo—8 inch stroke gang		179
Mk 3A	" "	" —11 inch stroke gang		180
Mk 3A	" "	Trap—drain oil		175
Mk 3A	" "	Valve—speed control		176
Mk 3B	" "	Machine—aircraft navigational drafting	AN5750-1	279
Mk 4	" "	Automatic pilot	A-4	188
Mk 4	" "	Control—directional gyro		189
Mk 4	" "	" —vertical gyro		190
Mk 4	" "	Filter—oil		178
Mk 4	" "	Regulator—oil pressure		177
Mk 4	" "	Servo—6 inch stroke push-pull	644180	192
Mk 4	" "	Trap—drain oil		175
Mk 4	" "	Valve—speed control		176
Mk 4	" "	" —transfer	644230	191
Mk 5	" "	Generator—pad mount tachometer	AN5531-1	74
Mk 5	" "	" —screw mount tachometer	AN5531-2	75
Mk 10	" "	Compass—pilot's	AN5733-1	263
MX	Mfr's Type	Ammeter	D-2	119
MX	" "	"	F-1	122
N-919-8	Mfr's Part and Dwg	Gage unit—engine 8 foot capillary	B-2	6
N-943-CC	" " " "	Gage—hydraulic pressure—landing gear	E-3	33
N-943-F	" " " "	" " " "	E-3	33
N-948	" " " "	" —de-icing pressure	G-1	24
N-955	" " " "	" —oil pressure	B-5	37
N-955A	" " " "	" " " "	B-5	37
O-5	Army Type	Compass—astro	Mk 2	260
O-5	" "	Standard—astro compass	O-5	261
O5A	Navy type	" " " "	O-5	261
OK-38	Mfr's Dwg	Tachometer—chronometric	C-7	69
OK-38	" "	" " " "	C-9A	70
OK-38	" "	" " " "	C-11	71
PA-11	" Model	Filter—air	AN5822-1	229
PA-12	" "	" " " "	AN5822-1	229
PD-17633-1	" Dwg	Aircraft sextants		180
PD-17633-2	" "	" " " "		180
PD-23431-1	" "	" " " "		180
PD-23431-2	" "	" " " "		180
PE-22251-2	" "	Indicator—airspeed	F-2	135
PR93	" Model	Filter—oil		178
PST-300	" "	Tube—pitot-static airspeed	AN5816-2	141
PST-300-4	" "	" " " "	AN5816-1	140



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
PT-100	Mfr's Part and Dwg	Tube—pitot-static airspeed	D-2	142
R-33	" " " "	Indicator assembly—fuel mixture	A-7	12
R-33	" " " "	" " " "	A-7A	13
R-34	" " " "	" " " "	B-6	16
R-34	" " " "	" " " "	B-6A	18
R-45	" " " "	" " " "	B-5A	14
R-322-3	" "	Bulb—resistance thermometer (long)	AN5525-2	118
R-322-3	" "	Indicator—dual electric thermometer	A-24	97
R-322-3	" "	" " " "	A-25	94
R-322-3	" "	" " " "	F-10	115
R-322-3	" "	" —electric thermometer	F-8	111
R-322-3	" "	" —electrical thermometer	F-9	113
R-322-3	" "	" —single electric thermometer	A-23	95
R-27376	Army Spec.	Servo—electric	D-1	221
R-27367A	" "	" "	D-1	221
R-27381	" "	Control unit—three axis stabilized	T-502-3B	223
R17-V-890	A. S. O. Stock	Voltmeter—aircraft	C-1	125
ROC-1	Mfr's Dwg	Indicator—rate-of-climb	AN5825-1	162
S-100	" Part and Dwg	Ring—astrograph mounting		254
SE-6A	Navy Spec.	Tube—pitot-static airspeed	AN5816-1	140
SE-6A	" "	" " " "	AN5816-2	141
SE-8	Bu. of Aer.	Valve—transfer	644230	191
SE-8A	" " "	Control—directional gyro		189
SE-8A	" " "	" —vertical gyro		190
SE-8A	" " "	Servo—6 inch stroke push-pull	644180	192
SE-8A	" " "	Trap—drain oil		175
SE-14	" " "	Indicator—gyro horizon	AN5736-1	243
SE-14	" " "	" " " "	AN5736-2	246
SE-15	" " "	" —oil pressure	B-9A, B-9	39
SE-15	Navy Spec.	Transmitter—oil pressure	B-9A, B-9	40
SE-16	" "	Indicator—fuel pressure	C-14A	31
SE-16	" "	Transmitter—fuel pressure	C-14A	32
SE-17	" "	Indicator—manifold pressure	D-8	46
SE-17	" "	Transmitter—manifold pressure	D-8	47
SE-30	" "	" —gyro flux gate compass	AN5751-1	271
SE-30	" "	Amplifier—gyro flux gate compass	AN5753-1	267
SQ-46	Bu. of Aer.	Accelerometer—aircraft	AN5745-2	126
SQ-76	Navy Spec.	Gage unit—capillary thermometer engine	AN5774	7
SQ-77	" "	" " " "	AN5774	7
SQ-81-A	" "	Altimeter—pressure	AN5760-4	155
SQ-81-A	" "	" " " "	AN5761-1	154
SQ-81-A	" "	" " " "	AN5760-2	151
SQ-84	Bu. of Aer.	Indicator—turn and bank	A-8	249
SQ-84	" " " Spec.	" " " "	AN5820-1	250
SQ-84	" " " "	" " " "	AN5820-2	251
SQ-84A	" " " "	" " " "	A-8	249
SQ-87	" " " "	Clock—7 jewel unlighted	AN5743-1	258
SQ-88	" " " "	Indicator—directional gyro	AN5735-1	235
SQ-90	" " " Spec.	" —gyro horizon	AN5736-1	243
SQ-90	" " " "	" " " "	AN5736-2	246
SQ-91A	" " " "	" —rate-of-climb	AN5825-1	162
SQ-91A	" " " "	" " " "	AN5825-2	160
SQ-94	" " " "	Gage—fuel pressure	AN5771-1	27
SQ-98	" " " "	" —suction	F-3	53
SQ-99	" " " "	" —oil pressure	AN5771-2	38
SQ-103	" " " "	" unit—engine	AN5773-1	9
SQ-105	" " " "	Indicator—dual thermometer	AN5795-6	90
SQ-105	" " " "	" —single thermometer	AN5790-6	89
SQ-106	" " " "	" —fuel pressure	C-14A	31
SQ-107	" " " "	Tube—pitot-static airspeed	AN5815-1	139
SQ-107	" " " "	" " " "	B-6	138
SQ-108	" " " "	Gage—manifold pressure	D-9	43



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
SQ-116	Bu. of Aer.	Clock—civil date elapsed time	AN5741-1	257
SQ13	" " "	Indicator—directional gyro	AN5735-1	235
SQ13	" " "	" " " "	AN5735-2	233
SQ88	" " "	" " " "	AN5735-2	233
T-502-3B	Mfr's Part	Control unit—three axis stabilized	T-502-3B	222, 223
T95090-1	" Dwg and Part	Indicator—directional gyro	AN5735-1	235
T95100	" " " "	" —gyro horizon	AN5736-1	243
TT-R-58	Federal Spec.	Instrument lighting and dial markings		1
U-8144	" Model and Dwg	Astrograph	A-1	253
U-8149	" Part and Dwg	Ring—astrograph mounting		254
U-9258	" " "	Meter—drift	B-5	284
V-4149384	" Dwg	Indicator—dual tachometer	AN5530-2	78
VX	" Type	Ammeter	E-1	120
VX	" " "	Voltmeter—aircraft	B-1	124
Z-22.22	" Part	Indicator—thermocouple thermometer	B-11	102
Z-22.24	" " "	" " " "	B-7	103
Z-22.24	" " "	" " " "	B-9	100
03-10-23	Army T. O.	Valve—air vapor control	32100	286
03-10-24	" " "	Eliminator—fuel system air vapor	A-6	285
03-10F-3	" " "	Signal—Fuel Pressure	C-2	58
03-10F-3	" " "	" " " "	C-3	59
03-1-3	" " "	Instrument fittings		3
05-1-9	" " "	Clock—7 jewel lighted	A-9	255
05-1-9	" " "	" —7 jewel unlighted	A-11	258
05-1-9	" " "	" —13 jewel	A-10	256
05-1-12 to 14	" " "	Ammeter	D-2	119
05-1-12 to 14	" " "	" " " "	E-1	120
05-1-12 to 14	" " "	" " " "	F-1	122
05-1-12 to 14	" " "	Shunt—ammeter	E-1	121
05-1-12 to 14	" " "	" " " "	F-1	123
05-1-12 to 14	" " "	Voltmeter—aircraft	B-1	124
05-1-31	" " "	Filter—air	AN5822-1	229
05-1-34	" " "	" " " "	AN5822-1	229
05-3AA-1	" " "	Flange—Mounting		11
05-3AA-1	" " "	Indicator assembly—fuel mixture	A-7	12
05-3AA-1	" " "	" " " "	A-7A	13
05-3AA-1	" " "	" " " "	B-5A	14
05-3AB-1	" " "	Flange—mounting		11
05-3AB-1	" " "	Indicator assembly—fuel mixture	B-6	16
05-3AB-1	" " "	" " " "	B-6A	18
05-3C-1	" " "	Flange—mounting		11
05-3C-1	" " "	Indicator assembly—fuel mixture	A-7	12
05-3C-1	" " "	" " " "	A-7A	13
05-3C-1	" " "	" " " "	B-5A	14
05-3C-1	" " "	" " " "	B-6	16
05-3C-1	" " "	" " " "	B-6A	18
05-5B-1	" " "	Generator—screw mount tachometer	E-4	72
05-5B-1	" " "	Indicator—tachometer	E-4	73
05-5B-2	" " "	Generator—screw mount tachometer	E-12	81, 82
05-5B-2	" " "	Indicator—tachometer	E-12	83
05-5D-1	" " "	" " " "	AN5530-1	77
05-5D-1	" " "	" —pad mount tachometer	AN5531-1	74
05-5D-1	" " "	" —screw mount tachometer	AN5531-2	75
05-5D-1	" " "	" —tachometer	E-9A	76
05-5E-1	" " "	" —pad mount tachometer	AN5531-1	74
05-5E-1	" " "	" —screw mount tachometer	AN5531-2	75
05-5E-1	" " "	" —tachometer	E-9A	76
05-10-2	" " "	" —airspeed	B-8	128
05-10-2	" " "	" " " "	C-7	129
05-10-2	" " "	" " " "	C-14	130
05-10-2	" " "	" " " "	D-4	131
05-10-2	" " "	" " " "	D-6	132





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
05-10-2	Army T. O.	Indicator—airspeed	D-7	133
05-10-2	" "	" "	F-1	134
05-10-2	" "	" "	F-2	135
05-10-4	" "	" "	C-14	130
05-10-4	" "	" "	D-4	131
05-10-4	" "	" "	D-6	132
05-10-4	" "	" "	D-7	133
05-10-4	" "	" "	F-1	134
05-10-4	" "	" "	F-2	135
05-15-2	" "	Compass—navigator's	D-12	265
05-15-9	" "	" —pilot's	AN5733-1	263
05-15-2	" "	" "	B-17	264
05-15-5	" "	Indicator—gyro flux gate compass repeater	AN5730-2A	270
05-15-5	" "	" —remote indicating magnetic compass	AN5730-2A	275
05-15-5	" "	Transmitter—remote reading magnetic compass	AN5730-3	276
05-15-7	" "	Amplifier—gyro flux gate compass	AN5753-1	267
05-15-7	" "	Control—gyro flux gate compass electrical caging	AN5754-1	268
05-15-7	" "	" " " manual caging	AN5755-1	273
05-15-7	" "	Indicator—gyro flux gate compass master	AN5752-1	269
05-15-7	" "	Switch box—gyro flux gate compass	AN5756-1	272
05-15-7	" "	Transmitter—gyro flux gate compass	AN5751-1	271
05-15-9	" "	Compass—pilot's	AN5733-1	263
05-15-10	" "	" —astro	Mark II	260
05-15-10	" "	Standard—astro compass	0-5	261
05-20-2	" "	Filter—turn and bank indicator air	AN5821-1	230
05-20-2	" "	Indicator—turn and bank	A-5	248
05-20-2	" "	" " " "	A-8	249
05-20-2	" "	" " " "	AN5820-1	250
05-20-2	" "	" " " "	AN5820-2	251
05-20-3	" "	" —gyro horizon	AN5736-1	243
05-20-3	" "	" " " "	C-5	241
05-20-4	" "	Control—turn (remote indicator)	B-4	238
05-20-4	" "	Indicator—directional gyro	A-3	232
05-20-4	" "	" " " "	AN5735-1	235
05-20-4	" "	" " " "	B-3	236
05-20-4	" "	" " " "	B-4	237
05-20-9	" "	" —gyro horizon	AN5736-1	243
05-20-9	" "	" " " "	AN5736-2	246
05-20-10	" "	" —directional gyro	AN5735-1	235
05-20-10	" "	" " " "	AN5735-2	233
05-20-17	" "	" —rate of climb	A-6	158
05-20-17	" "	" " " "	A-7	159
05-20-17	" "	" " " "	AN5825-1	162
05-20-23	" "	Accelerometer—aircraft	AN5745-2	126
05-20-26	" "	Indicator—rate of climb	A-6	158
05-20-27	" "	" " " "	AN5825-1	162
05-20-30	" "	Inclinometer	B-2	156
05-20A-2	" "	Indicator—turn and bank	C-1	252
05-20AB-1	" "	" " " "	C-1	252
05-20HB-1	" "	" —directional gyro	AN5735-1	235
05-25DA-2	" "	Meter—drift	B-3	283
05-30-1	" "	Altimeter—pressure	AN5760-1	152
05-30-1	" "	" " "	AN5760-2	151
05-30-1	" "	" " "	C-11	150
05-30-4	" "	" " "	AN5761-1	154
05-30-5	" "	" " "	AN5760-2	151
05-30-5	" "	" " "	AN5760-1	152
05-30-6	" "	" " "	B-12	149
05-35-4	" "	Aircraft sextants		281
05-35-7	" "	" " "		281
05-35-9	" "	Computer—airial dead reckoning	AN5835-1	278



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
05-35-12	Army T. O.	Aircraft sextants		281
05-35-15	" "	" "		281
05-35-19	" "	Astrograph	A-1	253
05-35-19	" "	Ring—astrograph mounting		254
05-35-20	" "	Meter—drift	B-5	284
05-35-22	" "	Aircraft sextants		281
05-40-3	" "	Indicator—thermocouple	B-7	103
05-40-3	" "	" " thermometer	B-9	100
05-40-3	" "	" " " "	B-11	102
05-40-9	" "	Thermometer—bimetal direct reading	C-13A	104
05-40-16	" "	" " " "	C-13, C-13A	104
05-40A-1	" "	Indicator—capillary thermometer	A-20	91
05-40B-1	" "	Bulb—resistance thermometer (long)	AN5525-2	118
05-40B-1	" "	" " " (short)	AN5525-1	117
05-40B-1	" "	Indicator—dual electric thermometer	A-24	98
05-40B-1	" "	" " " "	A-25	94
05-40B-1	" "	" " " "	F-10	116
05-40B-1	" "	" —electric thermometer	C-10	105
05-40B-1	" "	" " " "	C-12	107
05-40B-1	" "	" " " "	F-8	112
05-40B-1	" "	" " " "	F-9	114
05-40B-1	" "	" —single electric thermometer	A-23	96
05-40B-1	" "	" " " "	C-11	106
05-40B-3	" "	" —dual electric thermometer	A-24	98, 116
05-40D-1	" "	" " thermocouple thermometer	B-11	102
05-45AB	" "	Block—manifold		174
05-45AB	" "	Control—directional gyro		170
05-45AB	" "	" —remote control directional gyro		184
05-45AB	" "	" —vertical gyro		171
05-45AB	" "	Controller—banked turn		187
05-45AB	" "	Filter—air	AN5822-1	229
05-45AB	" "	" —oil		178
05-45AB	" "	Gear—flexible shaft angle		186
05-45AB	" "	Mount—gyro control		172
05-45AB	" "	" —remote control gyro control		185
05-45AB	" "	Pulley—follow-up		182
05-45AB	" "	Regulator—oil pressure		177
05-45AB	" "	Servo—8 inch stroke gang		179, 180
05-45AB	" "	Valve—speed control		176
05-45AC	" "	Control—directional gyro		189
05-45AC	" "	" —vertical gyro		190
05-45AC	" "	Servo—6 inch stroke push-pull	644180	192
05-45AC	" "	Trap—drain oil		175
05-45AC	" "	Valve—transfer	644230	191
05-45AD	" "	Amplifier—aileron servo		205
05-45AD	" "	" —elevator servo		206
05-45AD	" "	" —rudder servo		204
05-45AD	" "	Control—directional gyro		194, 219
05-45AD	" "	Controller—navigator's turn		218
05-45AD	" "	Indicator—pilot director		199
05-45AD	" "	Mount—directional gyro control		195
05-45AD	" "	Panel—control		198
05-45AD	" "	Rack—amplifier		201
05-45AD	" "	Servo—aileron		217
04-45AD	" "	" " or rudder		209, 210, 211
05-45AD	" "	" —elevator		212, 213, 214
05-45AD	" "	" —trim tab		215
05-45AD-1	" "	Amplifier—constant altitude control		207
05-45AD-1	" "	" —directional gyro follow-up		203, 220
05-45AD-1	" "	Control—constant altitude		202
05-45AD	" "	" —vertical gyro		196
05-45AD	" "	Controller—turn		200



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
05-45AD	Army T. O.	Mount—vertical gyro control		197
05-45BA	“ “	Block—manifold		175
05-45BA	“ “	Control—directional gyro		171
05-45BA	“ “	“ —vertical gyro		171
05-45BA	“ “	Filter—air	AN5822-1	229
05-45BA	“ “	“ —oil		178
05-45BA	“ “	Mount—gyro control		172, 181
05-45BA	“ “	Pulley—follow-up		182
05-45BA	“ “	Regulator—oil pressure		177
05-45BA	“ “	Servo—8 inch stroke gang		179
05-45BA	“ “	“ —11 inch stroke gang		180
05-45BA	“ “	Valve—speed control		176
05-50-1	“ “	Tube—pitot airspeed	G-1	144
05-50-1	“ “	“ “ “ “	G-2	145
05-50-1	“ “	“ “ static airspeed	AN5815-1	139
05-50-1	“ “	“ “ “ “	AN5816-1	140
05-50-1	“ “	“ “ “ “	AN5816-2	141
05-50-1	“ “	“ “ “ “	B-6	138
05-50-1	“ “	“ “ “ “	D-2	142
05-50-1	“ “	“ “ “ “	D-3	143
05-50-2	“ “	“ —double throat power venturi	AN5087-1	166
05-50-2	“ “	“ —single throat power venturi	AN5805-1	165
05-55A-2	“ “	Indicator—electrical wheel and flap position	A-2	62, 63
05-55A-2	“ “	“ “ “ “ “ “	AN5780-1	66
05-55A-2	“ “	Transmitter—electrical wheel and flap position	A-2	64
05-55A-2	“ “	“ “ “ “ “ “	AN5758-1	67
05-55B-1	“ “	Indicator—dual thermometer	F-7	109
05-55B-1	“ “	“ —fuel pressure	C-14	29
05-55B-1	“ “	“ “ “ “	C-14A	31
05-55B-1	“ “	“ —manifold pressure	D-8	46
05-55B-1	“ “	“ “ “ “	D-8A	48
05-55B-1	“ “	“ —oil pressure	B-9A, B-9	39
05-55B-1	“ “	“ —dual tachometer	E-10	79
05-55B-1	“ “	“ “ thermometer	A-22	92
05-55B-1	“ “	Transmitter—fuel pressure	C-14	30
05-55B-1	“ “	“ “ “ “	C-14A	32
05-55B-1	“ “	“ —manifold pressure	D-8	47
05-55B-1	“ “	“ “ “ “	D-8A	49
05-55B-1	“ “	“ —pressure	B-9A, B-9	40
05-55B-1	“ “	“ —tachometer	E-10	80
05-55B-1	“ “	“ —thermometer	A-22	93
05-55B-1	“ “	Transmitter—thermometer	F-7	110
05-55C-1	“ “	Indicator—electrical wheel and flap position	A-2	62, 63
05-55C-1	“ “	Transmitter—electrical wheel and flap position	A-2	64
05-70-1	“ “	Gage—manifold pressure	D-2	42
05-70-2	“ “	“ —automatic pilot oil pressure	AN5771-6	23
05-70-2	“ “	“ —de-icing pressure	AN5771-3	25
05-70-2	“ “	“ “ “ “	G-1	24
05-70-2	“ “	“ —fuel pressure	AN5771-1	27
05-70-2	“ “	“ “ “ “	C-10	25
05-70-2	“ “	“ —Hydraulic pressure—landing gear	AN5771-4	35
05-70-2	“ “	“ “ “ “ “ “	E-3	33
05-70-2	“ “	“ “ “ “ “ “	E-4	34
05-70-2	“ “	“ —oil pressure	AN5771-2	38
05-70-2	“ “	“ “ “ “	B-5	37
05-70B-1	“ “	“ “ “ “ (dual)	AN5772-2	36
05-70C-1	“ “	“ —manifold pressure	AN5770-1	44
05-70C-1	“ “	“ “ “ “	D-9	43
05-70D-1	“ “	“ “ “ “	D-9	43
05-70E-1	“ “	“ “ “ “	AN5770-1	44
05-70E-1	“ “	“ “ “ “ (dual)	AN5770-2	45
05-70E-2	“ “	“ —fuel pressure (dual)	AN5772-1	28



NUMERICAL INDEX  
INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
05-75-1	Army T. O.	Gage unit—engine	AN5774	8
05-75-1	“ “	“ “ “ , 8 foot capillary	B-2	6
05-80-1	“ “	“ —suction	AN5771-5	55
05-80-1	“ “	“ “	F-2	52
05-80-1	“ “	“ “	F-3	54
1	“ “	Adapter—turbocharger tachometer drive	1	85
1	Mfr's Type	Bulb—resistance thermometer (long)	AN5525-2	118
1	“ “	“ “ (short)	AN5525-1	117
1	“ “	Indicator—dual electric thermometer	F-10	116
1	“ “	“ —electrical wheel and flap position	A-2	63
1-10443	“ Dwg	Tube—pitot airspeed	G-1	144
1-20585	“ “	“ “ “	G-2	145
2	“ Type	Adapter—turbocharger tachometer drive	2	85
2	“ “	Bulb—resistance thermometer (long)	AN5525-2	118
2	“ “	“ “ (short)	AN5525-1	117
2	“ “	Indicator—dual electric thermometer	A-24	98
2	“ “	“ —electrical wheel and flap position	A-2	62
2	“ “	“ —thermocouple thermometer	B-11	102
2-3/4-32J	“ Dwg	Altimeter—pressure	B-12	149
2CM5BAL	“ Model	Generator—pad mount tachometer	AN5531-1	74
2CM5BAM	“ Part	“ —screw mount tachometer	AN5531-2	75
2CM7AAA	“ “	“ “ “ “	AN5531-2	75
3	Army Type	Adapter—turbocharger tachometer drive	3	85
3	Mfr's “	Bulb—resistance thermometer (long)		118
4	Army “	Adapter—turbocharger tachometer drive	4	85
4	Mfr's “	Bulb—resistance thermometer (long)	AN5525-2	118
4	“ “	Indicator—dual electric thermometer	A-25	94
4	“ “	“ “ thermometer	AN5795-6	90
4	“ “	“ —electrical wheel and flap position	A-2	63
4-A-8292	Mfr's Dwg	Tube—pitot-static airspeed	AN5816-2	141
5	“ Type	Indicator—electrical wheel and flap position	A-2	62
6-B-2396	“ Dwg	Shunt—ammeter	F-1	123
6-B-2401	“ “	“ “	E-1	121
6A/1174	British Ref.	Compass—astro	Mk 2	260
6A/3660	“ “	Standard—astro compass	0-5	261
6B/182	“ “	Astrograph	A-1	253
6B/183	“ “	“	A-1	253
6B/184	“ “	Ring—astrograph mounting		254
6B/190	“ “	Meter—drift	B-5	284
7	Mfr's Type	Indicator—electrical wheel and flap position	AN5780-1	66
7-121	“ Part	“ —dual electric thermometer	A-24	98
8	“ Type	“ —electrical wheel and flap position	AN5780-2	65
8-KB-1AC-1	“ Dwg	“ —gyro horizon	E-1	245
8DJ13AAH	“ Type or Model	“ —tachometer	E-9A	76
8DJ13AAS	“ “ “ “	“ “	E-9A	76
8DJ13AAW	“ “ “ “	“ “	E-9A	76
8DJ13ABN	“ “ “ “	“ “	E-9A	76
8DJ13ABN	“ Model	“ “	AN5530-1	77
8DJ17AAA	“ Dwg	“ —electrical wheel and flap position	A-2	62
8DJ17AAB	“ Model	“ “ “ “ “ “	A-2	63
8DJ17AAD	“ “	“ “ “ “ “ “	AN5780-1	66
8DJ17AAK	“ “	“ “ “ “ “ “	AN5780-2	65
8DJ17AAL	“ “	“ “ “ “ “ “	AN5780-1	66
8DJ17AAM	“ “	“ “ “ “ “ “	A-2	62
8DJ17AAN	“ “	“ “ “ “ “ “	A-2	63
8DJ17AAT	“ “	“ “ “ “ “ “	AN5780-2	65
8DJ17AAW	“ “	“ “ “ “ “ “	AN5780-2	65
8DJ19AAB	“ “ and Type	“ —dual tachometer	AN5530-2	78
8DJ23AAA	“ “	“ —single thermometer	AN5790-6	89
8DJ24AAA	“ Part	“ —dual thermometer	AN5795-6	90
8KC1AC1	“ “ and Dwg	“ —directional gyro	C-1	239
8TJ19AAA	“ Model	Transmitter—electrical wheel and flap position	A-2	64





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
8TJ19AAB	Mfr's Model	Transmitter—electrical wheel and flap position	AN5758-1	67
8TJ19AAF	" "	" " " " " " " "	AN5785-1	67
8TJ19AAK	" "	" " " " " " " "	AN5785-1	67
9	" Type	Indicator—Electrical wheel and flap position	AN5780-1	66
9-41	Technical Note	Generator—pad mount tachometer	AN5531-1	74
9-41	" "	" —screw mount tachometer	AN5531-2	75
10	Mfr's Type	Indicator—electrical wheel and flap position	AN5780-2	65
10	" Model	Tube—pitot-static airspeed	B-6	138
10-900	" Dwg	" " " " " " " "	B-6	138
11	" Model	Bulb—resistance thermometer (long)	AN5525-2	118
11	" "	" " " " (short)	AN5525-1	117
11-55-AA	Army T. O.	Servo—electric	D-1	221
12	Mfr's Model	Bulb—resistance thermometer (long)	AN5525-2	118
12-A-2548	" Dwg	Voltmeter—aircraft	C-1	125
14	" Model	Tube—pitot-static airspeed	AN5815-1	139
14	" "	" " " " " " " "	B-6	138
14-A-1086	" Dwg	Voltmeter-aircraft	B-1	124
14-A-1087	" "	Ammeter	F-1	122
14-A-1088	" "	" " " " " " " "	E-1	120
14-900	" "	Tube—pitot-static airspeed	AN5815-1	139
14-900	" Model	" " " " " " " "	B-6	138
14B	" "	" " " " " " " "	AN5815-1	139
14B	" "	" " " " " " " "	B-6	138
14B-900	" Dwg	" " " " " " " "	AN5815-1	139
14B-900	" "	" " " " " " " "	B-6	138
15	" Model	Bulb—resistance thermometer (short)	AN5525-1	117
17	" "	" " " " (short)	AN5525-1	117
17AT2	" Part	Indicator—thermocouple thermometer	B-7	103
17AT2	" "	" " " " " " " "	B-9	100
17AT4B	" "	" " " " " " " "	B-7	103
17AT4B	" "	" " " " " " " "	B-9	100
18-I-385	F. S. S. C.	" —directional gyro	AN5735-1	235
18-P-5	Navy Spec.	Machine—aircraft navigational drafting	AN5750-1	279
19-41	Mfr's Model	Clock—7 jewel unlighted	A-11	259
21AE	" "	" —7 " " " " " "	A-11	259
24	" Type	Indicator—single electric thermometer	A-23	96
24-42	Navy T. O.	Filter—oil		178
25	Mfr's Type	Indicator—single electric thermometer	C-11	106
26	" "	" —electric thermometer	C-12	108
27	" "	" " " " " " " "	F-8	112
28	" "	" " " " " " " "	C-10	105
28	" "	" " " " " " " "	F-9	114
32	" "	" —single electric thermometer	A-23	96
33	" "	" —electric thermometer	C-10	105
33	" "	" —single electric thermometer	C-11	106
33B1639	A. A. F. Dwg	Tube—pitot-static airspeed	B-6	138
34B2148	" "	Compass—navigator's	D-12	265
35	Mfr's Type	Indicator—thermocouple thermometer	B-11	102
35D4127	" Model and Dwg	Signal—fuel pressure	C-2	58
35D4127	" " " " " "	" " " " " " " "	C-3	59
36	" Type	Indicator—single electric thermometer	C-11	106
37	" "	" —electric thermometer	C-12	108
38	" "	" " " " " " " "	F-9	114
39	" "	" " " " " " " "	F-8	108
39B4243	AN Standard	Adapter—engine tachometer outlet	AN4041	84
41D1832	A. A. F. Dwg	Eliminator—fuel system air vapor	A-6	285
41D6889	" "	Tube—single throat power venturi	AN5805-1	164
42-126-156	Mfr's. Part and Dwg	" " " " " " " "	AN5805-1	164
42-2450	A. E. Ref.	Inverter—rotary		Not catalogued
42A7905	Army Dwg	Indicator—turn and bank	A-5	248
42A7905	A. A. F. Dwg	" " " " " " " "	A-8	249
42A11521	" "	Tube—flush static pressure	42A13995	146



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
42A13995	A. A. F. Dwg	Tube—flush static pressure	42A13995	146
42D20067	“ “	Servo—aileron or rudder		209
42D20067	“ “	“ “ “		210
42D20067	“ “	“ —elevator		212
42D20067	“ “	“ “		213
42D20068	“ “	“ —aileron		217
42D20068	“ “	“ “ or rudder		211
42D-20068	“ “	“ —elevator		214
42N4279	“ “	Control unit—three axis stabilized	T-502-3B	223
43B7015	Army Part and Mfr's Dwg	Plate—front mounting	43B7015	227
43B7016	Army Part and Mfr's Dwg	“ “ “	43B7016	226
43B7625	A. A. F. Dwg	Frame—single mounting	43B7625	224
43D7014	A. A. F. Dwg and Mfr's Part	“ —double mounting	43D7014	225
45	Mfr's Type	Indicator—single electric thermometer	A-23	96
45	“ “	“ —thermocouple thermometer	B-11	102
45-9000	A. E. Ref.	Sextants—aircraft		280
46	Mfr's Type	Indicator—electric thermometer	F-8	112
52	“ “	“ — “ “	C-12	108
52	“ “	“ —single electric thermometer	A-23	96
52	“ Model	“ “ thermometer	AN5790-6	89
52	“ “	“ —tachometer	E-4	73
54	“ Type	“ —thermocouple thermometer	B-11	102
58-600	“ Model	“ —dual electric thermometer	A-24	98
58-600	“ “	“ “ “ “	A-25	94
48-600	“ “	“ “ “ “	F-10	116
60-200	A. E. Ref.	Accelerometer aircraft	AN5745-2	126
60-250	A. E. Ref.	Altimeter—pressure	B-11	148
60-300	A. E. Ref.	Altimeter—pressure	B-12	149
60-400	A. E. Ref.	Altimeter—pressure	C-11	150
60-600	A. E. Ref.	Altimeter—pressure	AN5760-2	151
60-800	A. E. Ref.	Altimeter—pressure	AN5760-1	152
60-1000	A. E. Ref.	Altimeter—pressure	AN5761-1	153
60-1025	A. E. Ref.	Altimeter assembly	C-15	Not catalogued
60-1050	A. E. Ref.	Altimeter—pressure	AN5760-4	155
60-1075	A. E. Ref.	Astrograph	A-1	253
60-1075	A. E. Ref.	Ring—astrograph mounting		254
60-1076	“ “	Astrograph	A-1	253
60-1076	A. E. Ref.	Ring—astrograph mounting		254
60-1100	A. E. Ref.	Clock—7 jewel lighted	A-9	255
60-1100	A. E. Ref.	Clock—7 jewel unlighted	A-11	259
60-1150	A. E. Ref.	Clock—13 jewel	A-10	256
60-1160	A. E. Ref.	Clock—civil date elapsed time	AN5741-1	257
60-1200	A. E. Ref.	Clock—7 jewel lighted	A-9	255
60-1200	A. E. Ref.	Clock—7 jewel unlighted	A-11	258
60-1215	A. E. Ref.	Compass—aperiodic	0-2	Not catalogued
60-1216	“ “	Standard—compass		Not catalogued
60-1225	A. E. Ref.	Compass—astro	Mk 2	260
60-1226	A. E. Ref.	Compass—astro	Mk 2	260
60-1226	A. E. Ref.	Standard—astro compass	0.5	261
60-1250	A. E. Ref.	Compass—pilot's	AN5733-1	263
60-1300	A. E. Ref.	Compass—pilot's	B-17	264
60-1351	A. E. Ref.	Amplifier—gyro flux gate compass	AN5753-1	267
60-1352	A. E. Ref.	Control—gyro flux gate compass electrical caging	AN5754-1	268
60-1353	A. E. Ref.	Indicator—gyro flux gate compass master	AN5752-1	269
60-1355	A. E. Ref.	Transmitter—gyro flux gate compass	AN5751-1	271
60-1356	A. E. Ref.	Switch box—gyro flux gate compass	AN5756-1	272
60-1357	A. E. Ref.	Control—gyro flux gate manual caging	AN5755-1	273
60-1375	A. E. Ref.	Compass	P-8	Not catalogued
60-1376	“ “	Corrector No. 3		Not catalogued
60-1400	A. E. Ref.	Compass—navigator's	D-12	265



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
60-1451	A. E. Ref.	Indicator--remote indicating magnetic compass	AN5730-2A	275
60-1452	A. E. Ref.	Transmitter--remote indicating magnetic compass	AN5730-3	276
60-1453	A. E. Ref.	Inverter--remote reading magnetic compass	12117-6-A	277
60-1454	A. E. Ref.	Indicator--remote indicating magnetic compass	AN5730-6	270
60-1800	A. E. Ref.	Servo--electric	D-1	221
60-1825	A. E. Ref.	Control unit--three axis stabilized	T-502-3B	223
60-2000	A. E. Ref.	Control--turn (remote indicator)	B-4	238
60-2300	A. E. Ref.	Filter--turn and bank indicator air	AN5821-1	230
60-2300	A. E. Ref.	Indicator--turn and bank	A-5	248
60-2300	" "	" " " "	A-8	249
60-2300	" "	" " " "	AN5820-1	250
60-2300	" "	" " " "	AN5820-2	251
60-2350	A. E. Ref.	Frame--single mounting	43B7625	224
60-2350	A. E. Ref.	Plate--front mounting	43B7015	227
60-2350	" "	" " " "	43B7016	226
60-2355	A. E. Ref.	Frame--double mounting	43D7014	225
60-2355	A. E. Ref.	Plate--front mounting	43B7015	227
60-2355	" "	" " " "	43B7016	226
60-2400	A. E. Ref.	Gage--de-icing pressure	G-1	24
60-2600	A. E. Ref.	Gage--de-icing pressure	AN5771-3	25
60-2800	A. E. Ref.	Gage--hydraulic pressure--landing gear	E-3	33
60-3000	A. E. Ref.	Gage--hydraulic pressure--landing gear	E-4	34
60-3020	A. E. Ref.	Gage--hydraulic pressure--landing gear	AN5771-4	35
60-3120	A. E. Ref.	Gage--automatic pilot oil pressure	AN5771-6	23
60-3126	A. E. Ref.	Indicator--electrical wheel and flap position	A-2	62
60-3126	A. E. Ref.	Transmitter--electrical wheel and flap position	A-2	64
60-3127	A. E. Ref.	Indicator--electrical wheel and flap position	A-2	63
60-3127	A. E. Ref.	Transmitter--electrical wheel and flap position	A-2	64
60-3128	" "	Indicator--electrical wheel and flap position	A-2	62, 63
60-3128	A. E. Ref.	Transmitter--electrical wheel and flap position	A-2	64
60-3151	A. E. Ref.	Indicator--Electrical wheel and flap position	A-2	63
60-3151	A. E. Ref.	Indicator--electrical wheel and flap position	AN5780-2	65
60-3151	A. E. Ref.	Transmitter--electrical wheel and flap position	A-2	64
60-3151	" "	" " " " " " " "	AN5785-1	67
60-3152	A. E. Ref.	Indicator--electrical wheel and flap position	AN5780-1	66
60-3152	A. E. Ref.	Transmitter--electrical wheel and flap position	AN5785-1	67
60-3153	" "	Indicator--electrical wheel and flap position	AN5780-1	66
60-3153	" "	" " " " " " " "	AN5780-2	65
60-3153	A. E. Ref.	Transmitter--electrical wheel and flap position	AN5785-1	67
60-3200	A. E. Ref.	Gage--suction	F-2	51
60-3400	A. E. Ref.	Gage--suction	F-3	53
60-3600	A. E. Ref.	Gage--suction	AN5771-5	55
60-3750	A. E. Ref.	Inclinometer	B-2	156
60-3801	A. E. Ref.	Computer unit 1		Not catalogued
60-3802	" "	Controller 1		Not catalogued
60-3803	" "	Air mileage unit 1		Not catalogued
60-3804	" "	Amplifier 1		Not catalogued
60-3900	A. E. Ref.	Indicator--airspeed	B-8	128
60-4000	A. E. Ref.	Indicator--airspeed	C-7	129
60-4200	A. E. Ref.	Indicator--airspeed	C-14	130
60-4400	A. E. Ref.	Indicator--airspeed	D-4	131
60-4600	A. E. Ref.	Indicator--airspeed	D-6	132
60-4800	A. E. Ref.	Indicator--airspeed	D-7	133
60-4900	A. E. Ref.	Indicator--airspeed	F-1	134
60-4925	A. E. Ref.	Indicator--airspeed	F-2	135
60-4950	A. E. Ref.	Indicator--airspeed	F-3	136
60-5000	A. E. Ref.	Indicator--turn and bank	A-5	248
60-5200	A. E. Ref.	Indicator--turn and bank	A-8	249
60-5400	A. E. Ref.	Indicator--turn and bank	AN5820-1	250
60-5450	A. E. Ref.	Indicator--turn and bank	AN5820-2	251
60-5500	A. E. Ref.	Indicator--turn and bank	C-1	252
60-5600	A. E. Ref.	Indicator--gyro horizon	C-5	241



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
60-5800	A. E. Ref.	Indicator—gyro horizon	AN5736-1	243
60-5850	A. E. Ref.	Indicator—gyro horizon	AN5736-2	246
60-5900	A. E. Ref.	Indicator—gyro horizon	E-1	245
60-6000	A. E. Ref.	Indicator—directional gyro	AN5735-1	235
60-6050	A. E. Ref.	Indicator—directional gyro	AN5735-2	233
60-6100	A. E. Ref.	Indicator—directional gyro	C-1	239
60-6500	A. E. Ref.	Indicator—rate-of-climb	A-6	158
60-6600	A. E. Ref.	Indicator—rate-of-climb	A-7	159
60-6800	A. E. Ref.	Indicator—rate-of-climb	AN5825-1	161
60-7000	A. E. Ref.	Indicator—rate-of-climb	AN5825-2	160
60-7100	A. E. Ref.	Indicator assembly—rate-of-climb	RC1-L	Not catalogued
60-7500	A. E. Ref.	Indicator—directional gyro	A-3	232
60-7700	A. E. Ref.	Indicator—directional gyro	B-3	236
60-7800	A. E. Ref.	Control—turn (remote indicator)	B-4	238
60-7800	A. E. Ref.	Indicator—directional gyro	B-4	237
60-8000	A. E. Ref.	Meter—drift	B-3	283
60-8005	A. E. Ref.	Meter—drift	B-3	283
60-8010	A. E. Ref.	Meter—drift	B-3	283
60-8050	A. E. Ref.	Meter—drift	B-5	284
60-8100	A. E. Ref.	Frame—double mounting	43D7014	225
60-8100	" "	" —single mounting	43B7625	224
60-8100	A. E. Ref.	Plate—front mounting	43B7016	226
60-8105	A. E. Ref.	Frame—double mounting	43D7014	225
60-8105	" "	" —single mounting	43B7625	224
60-8105	A. E. Ref.	Plate—front mounting	43B7015	227
60-8150	A. E. Ref.	Machine—aircraft navigational drafting	AN5750-1	279
60-8201	A. E. Ref.	Control—vertical gyro		171
60-8202	A. E. Ref.	Control—directional gyro		170
60-8204	A. E. Ref.	Filter—oil		178
60-8205	A. E. Ref.	Mount—gyro control		172
60-8206	A. E. Ref.	Regulator—oil pressure		177
60-8207	A. E. Ref.	Valve—speed control		176
60-8208	A. E. Ref.	Mount—gyro control		181
60-8210	A. E. Ref.	Block—manifold		174
60-8211	A. E. Ref.	Block—manifold		174
60-8212	A. E. Ref.	Block—manifold		174
60-8213	A. E. Ref.	Pulley—follow-up		182
60-8214	A. E. Ref.	Pulley—follow-up		182
60-8215	" "	" "		182
60-8216	" "	" "		182
60-8217	" "	" "		182
60-8218	" "	" "		182
60-8219	" "	" "		182
60-8220	" "	" "		182
60-8221	" "	" "		182
60-8222	" "	" "		182
60-8223	" "	" "		182
60-8224	A. E. Ref.	Servo—8 inch stroke gang		179
60-8225	A. E. Ref.	Servo—11 inch stroke gang		180
60-8251	A. E. Ref.	Gear—flexible shaft angle		186
60-8252	A. E. Ref.	Control—remote control directional gyro		184
60-8252	A. E. Ref.	Mount—remote control gyro control		185
60-8253	A. E. Ref.	Controller—banked turn		187
60-8254	A. E. Ref.	Control—remote control directional gyro		184
60-8254	A. E. Ref.	Mount—remote control gyro control		185
60-8303	A. E. Ref.	Filter—air	AN5822-1	229
60-8325	A. E. Ref.	Control—directional gyro		189
60-8326	A. R. Ref.	Control—vertical gyro		190
60-8327	A. E. Ref.	Valve—transfer	644230	191
60-8328	A. E. Ref.	Trap—drain oil		175
60-8329	A. E. Ref.	Servo—6 inch stroke push-pull	644180	192





## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
60-8350	A. E. Ref.	Amplifier—rudder servo		204
60-8401	A. E. Ref.	Amplifier—directional gyro follow-up		203
60-8402	A. E. Ref.	Amplifier—constant altitude control		207
60-8403	A. E. Ref.	Amplifier—aileron servo		205
60-8404	A. E. Ref.	Amplifier—elevator servo		206
60-8405	A. E. Ref.	Control—vertical gyro		196
60-8406	A. E. Ref.	Control—directional gyro		194
60-8407	A. E. Ref.	Control—constant altitude		202
60-8408	A. E. Ref.	Servo—trim tab		215
60-8409	A. E. Ref.	Controller—navigator's turn		218
60-8410	A. E. Ref.	Indicator—pilot director		199
60-8411	A. E. Ref.	Mount—directional gyro control		195
60-8412	A. E. Ref.	Mount—vertical gyro control		197
60-8413	A. E. Ref.	Panel—control		198
60-8414	A. E. Ref.	Rack—amplifier		201
60-8415	A. E. Ref.	Servo—elevator		214
60-8416	A. E. Ref.	Servo—aileron or rudder		211
60-8417	A. E. Ref.	Servo—elevator		212
60-8418	A. E. Ref.	Servo—aileron or rudder		209
60-8419	A. E. Ref.	Controller—turn		200
60-8420	A. E. Ref.	Servo—aileron or rudder		210
60-8421	A. E. Ref.	Servo—elevator		213
60-8422	A. E. Ref.	Amplifier—directional gyro follow-up		220
60-8422	A. E. Ref.	Control—directional gyro		219
60-8423	A. E. Ref.	Amplifier—directional gyro follow-up		220
60-8423	A. E. Ref.	Control—directional gyro		219
60-8424	A. E. Ref.	Servo—aileron		217
60-8424	A. E. Ref.	Servo—aileron or rudder		211
60-8425	A. E. Ref.	Signal—fuel pressure	C-2	57
60-8450	A. E. Ref.	Signal—fuel pressure	C-3	59
60-8500	A. E. Ref.	Sextants—aircraft		280
60-8550	A. E. Ref.	Signal assembly—stalling speed	D-3	Not catalogued
60-8575	A. E. Ref.	Signal—altitude warning	H-2	60
60-8601	A. E. Ref.	Indicator—thermometer (8' cap and 15' cap)	C-6	Not catalogued
60-8627	A. E. Ref.	Indicator—electric thermometer	C-10	105
60-8651	A. E. Ref.	Indicator—single electric thermometer	C-11	106
60-8676	A. E. Ref.	Indicator—electric thermometer	C-12	108
60-8701	A. E. Ref.	Thermometer—bimetal direct reading	C-13, C-13A	104
60-8726	A. E. Ref.	Indicator—thermometer	C-15	Not catalogued
60-8800	A. E. Ref.	Tube—pitot-static airspeed	B-6	138
60-8810	A. E. Ref.	Tube—pitot-static airspeed	AN5815-1	139
60-8810	A. E. Ref.	Tube—pitot-static airspeed	B-6	138
60-8875	“ “	“ assembly—airspeed	B-5	Not catalogued
60-9000	A. E. Ref.	Tube—pitot-static airspeed	AN5816-1	140
60-9200	A. E. Ref.	Tube—pitot-static airspeed	AN5816-2	141
60-9400	A. E. Ref.	Tube—pitot-static airspeed	D-2	142
60-9600	A. E. Ref.	Tube—pitot-static airspeed	D-3	143
60-9640	A. E. Ref.	Tube—flush static pressure	42A13995	146
60-9640	A. E. Ref.	Tube—pitot airspeed	G-1	144
60-9650	A. E. Ref.	Tube—flush static pressure	42A13995	146
60-9650	A. E. Ref.	Tube—pitot airspeed	G-2	145
60-9700	A. E. Ref.	Tube—flush static pressure	42A13995	146
60-9700	A. E. Ref.	Tube—pitot airspeed	G-1	144
60-9700	“ “	“ “ “	G-2	145
60-9800	A. E. Ref.	Tube—single throat power venturi	AN5805-1	164
60-9850	A. E. Ref.	Tube—double throat power venturi	AN5807-1	165
61	Color No.	Instrument lighting and dial markings		1
61-200	A. E. Ref.	Adapter—engine tachometer outlet	AN4041	84
61-272	A. E. Ref.	Adapter—turbosupercharger tachometer drive	I	85
61-273	A. E. Ref.	Adapter—turbosupercharger tachometer drive	II	85
61-274	A. E. Ref.	Adapter—turbosupercharger tachometer drive	III	85
61-275	A. E. Ref.	Adapter—turbosupercharger tachometer drive	IV	85
61-276	A. E. Ref.	Adapter—turbosupercharger tachometer drive		85



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
61-350	A. E. Ref.	Ammeter	D-2	119
61-500	A. E. Ref.	Ammeter	E-1	120
61-500	A. E. Ref.	Shunt—ammeter	E-1	121
61-501	“ “	Ammeter	E-1	120
61-501	A. E. Ref.	Shunt—ammeter	E-1	121
61-650	A. E. Ref.	Ammeter	F-1	122
61-650	A. E. Ref.	Shunt—ammeter	F-1	123
61-651	“ “	Ammeter	F-1	122
61-651	A. E. Ref.	Shunt—ammeter	F-1	123
61-2075	A. E. Ref.	Eliminator—fuel system air vapor	A-6	285
61-2075	A. E. Ref.	Valve—air vapor control	32100	286
61-2150	A. E. Ref.	Gage—fuel pressure	C-10	26
61-2300	A. E. Ref.	Gage—fuel pressure	AN5771-1	27
61-2326	A. E. Ref.	Gage—fuel pressure (dual)	AN5772-1	28
61-2327	A. E. Ref.	Transmitter assembly—fuel or oil pressure	AN5765-1	20
61-2351	A. E. Ref.	Indicator—fuel pressure	C-14	29
61-2351	A. E. Ref.	Transmitter—autosyn fuel pressure	C-14	30
61-2352	“ “	Indicator—fuel pressure	C-14	29
61-2352	A. E. Ref.	Transmitter—fuel pressure	C-14	30
61-2376	A. E. Ref.	Indicator—fuel pressure	C-14A	31
61-2376	A. E. Ref.	Transmitter—fuel pressure	C-14A	32
61-2377	“ “	Indicator—fuel pressure	C-14A	31
61-2377	A. E. Ref.	Transmitter—fuel pressure	C-14A	32
61-2450	A. E. Ref.	Gage—manifold pressure	D-2	42
61-2501	A. E. Ref.	Indicator—manifold pressure	D-8	46
61-2501	A. E. Ref.	Transmitter—manifold pressure	D-8	47
61-2502	“ “	Indicator—manifold pressure	D-8	46
61-2502	A. E. Ref.	Transmitter—manifold pressure	D-8	47
61-2551	A. E. Ref.	Indicator—manifold pressure	D-8A	48
61-2551	A. E. Ref.	Transmitter—manifold pressure	D-8A	49
61-2552	“ “	Indicator—manifold pressure	D-8A	48
61-2552	A. E. Ref.	Transmitter—manifold pressure	D-8A	49
61-2600	A. E. Ref.	Gage—manifold pressure	D-9	43
61-2750	A. E. Ref.	Gage—manifold pressure	AN5770-1	44
61-2800	A. E. Ref.	Gage—manifold pressure (dual)	AN5770-2	45
61-2851	A. E. Ref.	Gage—oil pressure (dual)	AN5772-2	36
61-2900	A. E. Ref.	Gage—oil pressure	B-5	37
61-3050	A. E. Ref.	Gage—oil pressure	AN5771-2	38
61-3201	A. E. Ref.	Indicator—oil pressure	B-9A, B-9	39
61-3201	A. E. Ref.	Transmitter—oil pressure	B-9A, B-9	40
61-3202	A. E. Ref.	Transmitter—oil pressure	B-9A, B-9	40
61-3350	A. E. Ref.	Gage unit—engine 8 foot capillary	B-2	6
61-3650	A. E. Ref.	Gage unit—engine	AN5774-5	8
61-3950	A. E. Ref.	Gage unit—engine	AN5774-5	8
61-4100	A. E. Ref.	Gage unit—engine	AN5774-5	8
61-4200	A. E. Ref.	Gage unit—engine (electrical thermometer)	AN5773-1	9
61-4600	A. E. Ref.	Generator—screw mount tachometer	E-4	72
61-4700	“ “	Indicator assembly—stroboscopic engine synchronizer	C-1	Not catalogued
61-4900	A. E. Ref.	Indicator assembly—fuel mixture	A-7	12
61-4901	A. E. Ref.	Flange—mounting		11
61-4901	A. E. Ref.	Indicator assembly—fuel mixture	A-7	12
61-4901	A. E. Ref.	Indicator assembly—fuel mixture	A-7A	13
61-4901	“ “	“ “ “ “	B-5A	14
61-4901	“ “	“ “ “ “	B-6	15
61-4901	A. E. Ref.	Indicator assembly—fuel mixture	B-6A	17
61-4910	A. E. Ref.	Indicator assembly—fuel mixture	A-7A	13
61-4950	A. E. Ref.	Indicator assembly—fuel mixture	B-5A	14
61-5050	A. E. Ref.	Indicator assembly—fuel mixture	B-6	16
61-5060	A. E. Ref.	Indicator assembly—fuel mixture	B-6A	18
61-7500	A. E. Ref.	Adapter—turbosupercharger tachometer drive		85
61-7500	A. E. Ref.	Shaft—tachometer generator drive	A-3	86
61-8500	A. E. Ref.	Adapter—engine tachometer outlet	AN4041	84



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
61-8500	A. E. Ref.	Tachometer—chronometric	C-7	69
61-8650	A. E. Ref.	Adapter—engine tachometer outlet	AN4041	84
61-8650	A. E. Ref.	Tachometer—chronometric	C-7	69
61-8650	A. E. Ref.	Tachometer—chronometric	C-9A	70
61-8650	A. E. Ref.	Tachometer—chronometric	C-11	71
61-8660	" "	Adapter—engine tachometer outlet	AN4041	84
61-8660	" "	Tachometer—chronometric	C-9A	70
61-8660	A. E. Ref.	Tachometer—chronometric	C-11	71
61-8676	A. E. Ref.	Generator—screw mount tachometer	E-4	72
61-8676	A. E. Ref.	Indicator—tachometer	E-4	73
61-8677	" "	Generator—screw mount tachometer	E-4	72
61-8677	A. E. Ref.	Indicator—tachometer	E-4	73
61-8701	A. E. Ref.	Generator—pad mount tachometer	AN5531-1	74
61-8701	A. E. Ref.	Indicator—dual tachometer	AN5530-2	78
61-8701	" "	" —tachometer	AN5530-1	77
61-8701	" "	" " " "	E-9A	76
61-8702	A. E. Ref.	Generator—screw mount pad	AN5531-2	75
61-8702	A. E. Ref.	Indicator—dual tachometer	AN5530-2	78
61-8702	" "	" —tachometer	AN5530-1	77
61-8703	" "	Generator—pad mount tachometer	AN5531-1	74
61-8703	" "	" —screw mount tachometer	AN5531-2	75
61-8703	" "	Indicator—tachometer	AN5530-1	77
61-8703	A. E. Ref.	Indicator—tachometer	E-9A	76
61-8726	A. E. Ref.	Indicator—dual tachometer	E-10	79
61-8726	A. E. Ref.	Transmitter—tachometer	E-10	80
61-8727	" "	Indicator—dual tachometer	E-10	79
61-8727	A. E. Ref.	Transmitter—tachometer	E-10	80
61-8751	A. E. Ref.	Generator—screw mount tachometer	E-12	81
61-8751	A. E. Ref.	Indicator—tachometer	E-12	83
61-8752	A. E. Ref.	Generator—screw mount tachometer	E-12	82
61-8752	A. E. Ref.	Indicator—tachometer	E-12	83
61-8753	" "	Generator—screw mount tachometer	E-12	81, 82
61-8753	A. E. Ref.	Indicator—tachometer	E-12	83
61-8777	A. E. Ref.	Generator—screw mount tachometer	AN5531-2	75
61-8777	" "	Indicator—tachometer	E-9A	76
61-8777	A. E. Ref.	Indicator—tachometer	AN5530-1	77
61-8802	A. E. Ref.	Generator—pad mount tachometer	AN5531-1	74
61-8802	" "	" —screw mount tachometer	AN5531-2	75
61-8802	A. E. Ref.	Indicator—dual tachometer	AN5530-2	78
61-8901	A. E. Ref.	Bulb—resistance thermometer (long)	AN5525-2	118
61-8901	" "	Gage unit—engine (electrical thermometer)	AN5773-1	9
61-8901	" "	Indicator—dual thermometer	AN5795-6	90
61-8901	" "	" —single thermometer	AN5790-6	89
61-8902	" "	Bulb—resistance thermometer (long)	AN5525-2	118
61-8902	" "	" " " (short)	AN5525-1	117
61-8902	" "	Indicator—electric thermometer	C-12	108
61-8902	" "	" " " " " "	F-8	112
61-8902	" "	" —electrical thermometer	F-9	114
61-8902	" "	" —single electric thermometer	C-11	106
61-8902	A. E. Ref.	Indicator—single thermometer	AN5790-6	89
61-8906	A. E. Ref.	Bulb—resistance thermometer	C-15	Not catalogued
61-8906	A. E. Ref.	Bulb—resistance thermometer (short)	AN5525-1	117
61-8906	A. E. Ref.	Indicator—dual thermometer	AN5795-6	90
61-8906	" "	" —single thermometer	AN5790-6	89
61-8911	" "	Bulb—resistance thermometer (long)	AN5525-2	118
61-8911	" "	" " " (short)	AN5525-1	117
61-8911	" "	Indicator—dual thermometer	F-7	109
61-8911	" "	" " " electric thermometer	A-24	98
61-8911	" "	" " " " " "	A-25	94
61-8911	" "	" " " " " "	F-10	116
61-8911	A. E. Ref.	Indicator—dual thermometer	AN5795-6	90
61-8911	A. E. Ref.	Indicator—dual thermometer autosyn	A-22	92



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
61-8911	E. A. Ref.	Transmitter—thermometer	F-7	110
61-8926	A. E. Ref.	Indicator—capillary thermometer	A-20	91
61-8951	A. E. Ref.	Indicator—dual thermometer	A-22	92
61-8951	A. E. Ref.	Transmitter—thermometer	A-22	93
61-8952	" "	Indicator—dual thermometer autosyn	A-22	92
61-8952	A. E. Ref.	Transmitter—thermometer	A-22	93
61-8976	A. E. Ref.	Indicator—single electric thermometer	A-23	95
61-9001	A. E. Ref.	Indicator—dual electric thermometer	A-24	98
61-9026	A. E. Ref.	Indicator—dual electric thermometer	A-25	94
61-9051	A. E. Ref.	Indicator—thermocouple thermometer	B-7	103
61-9076	A. E. Ref.	Indicator—thermometer thermocouple	B-8	Not catalogued
61-9101	A. E. Ref.	Indicator—thermocouple thermometer	B-9	100
61-9126	A. E. Ref.	Indicator—dual thermocouple thermometer	B-11	101
61-9126	A. E. Ref.	Indicator—thermometer	B-11	Not catalogued
61-9151	A. E. Ref.	Indicator—dual thermometer	F-7	109
61-9151	A. E. Ref.	Transmitter—thermometer	F-7	110
61-9152	" "	Indicator—dual thermometer	F-7	109
61-9152	A. E. Ref.	Transmitter—thermometer	F-7	110
61-9178	A. E. Ref.	Indicator—electric thermometer	F-8	111
61-9201	A. E. Ref.	Indicator—electric thermometer	F-9	113
61-9226	A. E. Ref.	Indicator—dual electric thermometer	F-10	116
61-9600	A. E. Ref.	Eliminator—fuel system air vapor	A-6	285
61-9600	A. E. Ref.	Valve—air vapor control	32100	286
61-9650	A. E. Ref.	Voltmeter—aircraft	B-1	124
61-9700	A. E. Ref.	Voltmeter—aircraft	C-1	125
63-EAFE	Mfr's Model	Clock—7 jewel unlighted	A-11	259
63EA	Mfr's Part and Dwg	" —7 jewel lighted	A-9	255
63EAF	" " " "	" " " "	A-9	255
65	Color No.	Instrument lighting and dial markings		1
76AT3	Mfr's Part	Indicator—thermocouple thermometer	B-11	102
76AT3B	" "	" " " "	B-11	102
76AT3C	" "	" " " "	B-11	102
76AT3D	" "	" " " "	B-11	102
80	" Type	" " " "	B-7	103
80	" "	" " " "	B-9	100
88-A-140	F. S. S. C.	Accelerometer aircraft	AN5745-2	126
88-A-227	"	Adapter—engine tachometer outlet	AN4041	84
88-A-340	"	Altimeter—pressure	AN5761-1	154
88-A-350	"	" " " "	AN5760-2	151
88-A-351	"	" " " "	AN5760-4	155
88-A-500	"	Amplifier—gyro flux gate compass	AN5753-1	267
88-A-650	"	Astrograph	A-1	253
88-B-890	"	Bulb—resistance thermometer (short)	AN5525-1	117
88-B-890	"	Indicator—dual thermometer	AN5795-6	90
88-B-890	"	" —single thermometer	AN5790-6	89
88-B-895	"	Bulb—resistance thermometer (long)	AN5525-2	118
88-B-895	"	Indicator—dual thermometer	AN5795-6	90
88-B-895	"	" —single thermometer	AN5790-6	89
88-C-573	"	Clock—Civil date elapsed time	AN5741-1	257
88-C-583	"	" —7 jewel unlighted	AN5743-1	258
88-C-770	"	Compass—astro	Mk 2	260
88-C-783	"	" —pilot's	AN5733-1	261
88-C-845	"	" —Navigator's	D-12	265
88-C-1350	"	Control—gyro flux gate manual caging	AN5755-1	273
88-C-1355	"	" — " " " compass electrical caging	AN5754-1	268
88-F-1000	A. S. O.	Filter—turn and bank indicator air	AN5821-1	230
88-F-1035	F. S. S. C.	" —air	AN5822-1	229
88-F-1060	"	" —oil		178
88-G-375	"	Gage—de-icing pressure	AN5771-3	25
88-G-480	"	" —fuel pressure (dual)	AN5772-1	28
88-G-518	"	" " " "		27
88-G-620	"	" —hydraulic pressure—landing gear	AN5771-4	35







# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
88-P-1057	F. S. S. C.	Pulley—follow-up		182
88-P-1058	"	" "		182
88-P-1059	"	" "		182
88-P-1060	"	" "		182
88-P-1075	"	" "		182
88-P-1080	"	" "		182
88-P-1080-100	"	" "		182
88-P-1081	"	" "		182
88-P-1082	"	" "		182
88-P-1083	"	" "		182
88-P-1084	"	" "		182
88-P-1085	"	" "		182
88-P-1086	"	" "		182
88-P-1087	"	" "		182
88-P-1088	"	" "		182
88-P-1089	"	" "		182
88-R-245	"	Regulator—oil pressure		177
88-R-255	"	" " "		177
88-R-500	"	Ring—astrograph mounting		254
88-S-260	"	Servo—6 inch stroke push-pull	644180	192
88-S-265	"	" —8 inch stroke gang		179
88-S-270	"	" —11 inch stroke gang		180
88-S-350	"	Aircraft sextants		281
88-S-360	"	" "		281
88-S-1310	"	Standard—astro compass	O-5	261
88-S-1380	"	Switch box—gyro flux gate compass	AN5756-1	272
88-T-1560	"	Thermometer—bimetal direct reading	C-13, C-13A	104
88-T-1900	"	Transmitter—gyro flux gate compass	AN5751-1	271
88-T-1950	"	" —remote indicating magnetic compass	AN5730-3	276
88-T-2025	"	" —fuel pressure	C-14A	32
88-T-2325	"	" —manifold pressure	D-8	47
88-T-2550	"	" —oil pressure	B-9A, B-9	40
88-T-2650	"	" —electrical wheel and flap position	AN5785-1	67
88-T-2800	"	Trap—drain oil		175
88-T-2890	"	Tube—pitot-static airspeed	B-6	138
88-T-2900	"	" " "	AN5815-1	139
88-T-2900	"	" " "	B-6	138
88-T-3300	"	" " "	AN5816-1	140
88-T-3305	"	" " "	AN5816-2	141
88-T-3310	"	" " "	D-2	142
88-T-3570	"	" —single throat power venturi	AN5805-1	164
88-U-110	"	Control—vertical gyro		171
88-U-165	"	" —directional gyro		170
88-U-170	"	" " "		189
88-U-200	"	" —vertical gyro		190
88-U-700	"	Mount—gyro control		172
88-U-810	"	Control—directional gyro		189
88-U-925	"	" —vertical gyro		190
88-V-180	"	Valve—speed control		176
88-V-550	"	" —transfer	644230	191
88-C-1120	"	Computer—aerial dead reckoning	AN5835-1	278
94	Mfr's Part and Dwg	Compass—astro	Mk 2	260
94-27141-H	Army Spec.	Tachometer—chronometric	C-7	69, 70
94-27141-H	" "	" "	C-11	71
94-27180	" "	Compass—pilot's	B-17	264
94-27187	" "	Indicator—airspeed	B-8	128
94-27187	" "	" "	C-7	129
94-27187	" "	" "	C-14	130
94-27187	" "	" "	D-4	131
94-27187	" "	" "	D-6	132
94-27187	" "	" "	D-7	133
94-27187	" "	" "	F-1	134



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
94-27187	Army Spec.	Indicator—airspeed	F-2	135
94-27187	" "	" "	F-3	136
94-27191	" "	" —capillary thermometer	A-20	91
94-27220	" "	Clock—7 jewel lighted	A-9	255
94-27220-C	" "	" —7 " unlighted	A-11	258
94-27226	" "	Ammeter	D-2	119
94-27226	" "	"	E-1	120
94-27226	" "	"	F-1	122
94-27226	" "	Voltmeter—aircraft	B-1	124
94-27240-C	" "	Generator—screw mount tachometer	E-4	72
94-27240-C	" "	" " " "	E-12	81, 82
94-27240-C	" "	Indicator—tachometer	E-4	73
94-27240-C	" "	" " " "	E-12	83
94-27311	" "	Generator—screw mount tachometer	E-12	81, 82
94-27311	" "	Indicator—tachometer	E-12	83
94-27325	" "	" —electric thermometer	C-12	108
94-27325-A	" "	" —dual electric thermometer	A-24	98
94-27325A	" "	" " " "	F-10	116
94-27325A	" "	" " thermometer	AN5795-6	90
94-27325A	" "	" —electric thermometer	C-10	105
94-27325A	" "	" " " "	F-8	112
94-27325A	" "	" " " "	F-9	113
94-27325A	" "	" —single electric thermometer	A-23	96
94-27325A	" "	" " " "	C-11	106
94-27325A	" "	" — " thermometer	AN5790-6	89
94-27328	" "	Thermometer—bimetal direct reading	C-13, C-13A	104
94-27333	" "	Inclinometer	B-2	156
94-27335A	" "	Indicator—airspeed	F-2	135
94-27336	" "	Gage—suction	AN5771-5	55
94-27337	" "	Indicator—turn and bank	C-1	252
94-27342-A	" "	Altimeter—pressure	AN5761-1	153
94-27348	" "	Indicator—turn and bank	AN5820-1	250
94-27353	" "	Tachometer—chronometric	C-11	70
94-27354	" "	Generator—pad mount tachometer	AN5531-1	74
94-27354	" "	Indicator—tachometer	AN5530-1	77
94-27355	" "	Generator—pad mount tachometer	AN5731-1	74
94-27355	" "	Indicator—dual tachometer	AN5530-2	78
94-27366	" "	Filter—air	AN5822-1	229
94-27370	" "	Indicator—dual tachometer	AN5530-2	78
94-27370	" "	" —tachometer	AN5530-1	77
94-27370	" "	" " " "	E-9A	76
94-27371	" "	Generator—pad mount tachometer	AN5531-1	74
94-27371	" "	" screw mount tachometer	AN5531-2	75
94-27375	" "	Indicator—electrical wheel and flap position	AN5780-1	66
94-27375	" "	" " " " " "	AN5780-2	65
94-27375	" "	Transmitter—electrical wheel and flap position	AN5785-1	67
94-27382	" "	Altimeter—pressure	B-12	149
94-27386	" "	" " " "	AN5760-4	155
94-27389	" "	Tube—pitot airspeed	G-2	145
94-27402	" "	Meter—drift	B-5	284
94-27406	" "	Indicator—airspeed	F-3	136
94-27407	" "	" —turn and bank	AN5820-2	251
94-27409	" "	Altimeter—pressure	B-11	148
94-27418	" "	" " " "	B-11	148
94-27423	" "	Gage unit—engine	AN5773	9
94-27714	" "	Altimeter—pressure	C-11	150
94-27716	" "	Tube—pitot-static airspeed	AN5815-1	139
94-27716	" "	" " " "	B-6	138
94-27770	" "	Trap—drain oil		175
94-27770A	" "	" " " "		175
94-27774	" "	Tube—double throat power venturi	AN5807-1	165



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
94-27782	Army Spec.	Indicator—rate-of-climb	A-6	158
94-27782-A	" "	" "	A-6	158
94-27796	" "	Meter—drift	B-3	283
94-27796-A	" "	" "	B-3	283
94-27800	" "	Indicator—directional gyro	A-3	232
94-27801	" "	" "	B-3	236
94-27802	" "	" —gyro horizon	C-5	241
94-27803	" "	" —turn and bank	A-5	248
94-27804	" "	" —airspeed	C-7	129
94-27807	" "	Compass—pilot's	AN5733-1	263
94-27809	" "	Gage—oil pressure	B-5	37
94-27809A	" "	" "	B-5	37
94-27811-A	" "	" —manifold pressure	D-2	42
94-27812A	" "	" —hydraulic pressure—landing gear	E-3	33
94-27812B	" "	" " " " " "	E-3	33
94-27813	" "	" —suction	F-2	51
94-27813-A	" "	" "	F-2	51
94-27815	" "	Compass—pilot's	B-17	264
94-27816	" "	Tachometer—chronometric	C-7	69
94-27821	" "	Indicator—thermometer thermocouple	B-7	103
94-27821A	" "	" " " "	B-7	103
94-27824	" "	Gage unit—engine, 8 foot capillary	B-2	6
94-27824-A	" "	" " " " 8 " "	B-2	6
94-27841	" "	" —de-icing pressure	G-1	24
94-27844	" "	Flange—mounting		11
94-27844	" "	Indicator assembly—fuel mixture	A-7	12
94-27844-C	" "	" " " "	A-7A	13
94-27844	" "	" " " "	B-5A	14
94-27844-C	" "	" " " "	B-6	16
94-27844-C	" "	" " " "	B-6A	18
94-27856	" "	Gage—fuel pressure	C-10	26
94-27856A	" "	" " " "	C-10	26
94-27857	" "	Altimeter—pressure	C-11	150
94-27858A	" "	Tube—single throat power venturi	AN5805-1	164
94-27864-A	" "	Indicator—dual thermometer	F-7	109
94-27864-A	" "	" " " "	A-22	92
94-27864-A	" "	Transmitter—thermometer	A-22	93
94-27864-A	" "	" " " "	F-7	110
94-27874-A	" "	Tube—pitot-static airspeed	D-2	142
94-27874-B	" "	" " " "	D-2	142
94-27876-A	" "	" " " "	AN5816-2	141
94-27879	" "	Clock—7 jewel lighted	A-9	255
94-27884A	" "	" 7 " "	AN5816-1	140
94-27892	" "	Computer—aerial dead reckoning	AN5835-1	278
94-27906A	" "	Indicator—airspeed	D-6	132
94-27909-A	" "	Tube—pitot-static airspeed	D-3	143
94-27909-B	" "	" " " "	D-3	143
94-27912	" "	Aircraft sextants		281
94-27914A	" "	" "		281
94-27916A	" "	Indicator—airspeed	F-1	134
94-27917	" "	Gage—oil pressure	AN5771-2	38
94-27919A	" "	" —fuel pressure	AN5771-1	27
94-27920	" "	" —automatic pilot oil pressure	AN5771-6	23
94-27920A	" "	" " " " " "	AN5771-6	23
94-27922	" "	" —hydraulic pressure—landing gear	E-4	34
94-27922-A	" "	" " " " " "	AN5771-4	35
94-27922-A	" "	" " " " " "	E-4	34
94-27923	" Spec.	Gage—suction	F-3	53
94-27924	" "	" —de-icing pressure	AN5771-3	25
94-27924-A	" "	" " " "	AN5771-3	25





## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
94-27926-B	Army Spec.	Indicator—capillary thermometer	A-20	91
94-27926-A	" "	" " " "	A-20	91
94-27928	" "	" —thermocouple thermometer	B-9	100
94-27928A	" "	" " " "	B-9	100
94-27928B	" "	" " " "	B-9	100
94-27930	" "	Tachometer—chronometric	C-9A	70
94-27932A	" "	Indicator assembly—fuel mixture	B-5A	14
94-27932B	" "	" " " "	B-5A	14
94-27933A	" "	" " " "	B-6	16
94-27933A	" "	" " " "	B-6A	18
94-27933B	" "	" " " "	B-6A	18
94-27934	" "	Indicator—oil pressure	B-9A, B-9	39
94-27934	" "	Transmitter—oil pressure	B-9A, B-9	40
94-27934-A	" "	Indicator—oil pressure	B-9A, B-9	39
94-27934A	" "	Transmitter—oil pressure	B-9A, B-9	40
94-27935	" "	Indicator—fuel pressure	C-14	29
94-27935	" "	" " " "	C-14A	31
94-27935	" "	Transmitter—fuel pressure	C-14	30
94-27935	" "	" " " "	C-14A	32
94-27935-A	" "	Indicator—fuel pressure	C-14	29
94-27935-A	" "	" " " "	C-14A	31
94-27935-A	" "	Transmitter—fuel pressure	C-14	30
94-27935-A	" "	" " " "	C-14A	32
94-27935-B	" "	Indicator—fuel pressure	C-14A	31
94-27935-B	" "	Transmitter—fuel pressure	C-14A	32
94-27936	" "	Indicator—manifold pressure	D-8	46
94-27936	" "	" " " "	D-8A	48
94-27936	" "	Transmitter—manifold pressure	D-8	47
94-27936	" "	" " " "	D-8A	49
94-27936A	" "	Indicator—manifold pressure	D-8	46
94-27937	" "	Gage—manifold pressure	D-9	43
94-27937-A	" "	" " " "	D-9	43
94-27938-B	" "	" " " "	AN5770-1	44
94-27939	" "	Indicator—electrical wheel and flap position	A-2	62
94-27939	" "	" " " " " " " "	A-2	63
94-27939	" "	Transmitter—electrical wheel and flap position	A-2	64
94-27939A	" "	Indicator—electrical wheel and flap position	A-2	62
94-27939A	" "	Transmitter—electrical wheel and flap position	A-2	63
94-27939A	" "	" " " " " " " "	A-2	64
94-27943	" "	Gage unit—engine	AN5774	7
94-27943-A	" "	" " engine	AN5774	7
94-27944	" "	Indicator—dual thermometer	F-7	109
94-27944	" "	" " " "	AN5795-6	90
94-27944	" "	Transmitter—thermometer	F-7	110
94-27945	" "	Indicator—electric thermometer	F-8	112
94-27945	" "	" —single thermometer	AN5790-6	89
94-27945A	" "	" —electric thermometer	F-8	112
94-27946	" "	" —dual thermometer	AN5795-6	90
94-27947	" "	" —single electric thermometer	A-23	96
94-27947	" "	" " thermometer	AN5790-6	89
94-27947A	" "	" " electric thermometer	A-23	96
94-27948	" "	" —electric thermometer	C-10	105
94-27948A	" "	" " " "	C-10	105
94-27949	" "	" —single electric thermometer	C-11	106
94-27949	" "	" " thermometer	AN5790-6	89
94-27949A	" "	" " electric thermometer	C-11	106
94-27950	" "	Generator—pad mount tachometer	AN5531-1	74
94-27950	" "	" —screw mount tachometer	AN5531-2	75
94-27950	" "	Indicator—tachometer	E-9A	76
94-27950A	" "	Generator—pad mount tachometer	AN5531-1	74
94-27950A	" "	" —screw mount tachometer	AN5531-1	75
94-27950A	" "	Indicator—tachometer	E-9A	76



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
94-27952-A	Army Spec.	Indicator—airspeed	C-14	130
94-27952-B	“ “	“ “	C-14	130
94-27953	“ “	“ “	D-7	133
94-27955	“ “	“ —turn and bank	A-8	249
94-27956	“ “	“ —rate-of-climb	A-7	159
94-27957-A	“ “	Altimeter—pressure	AN5760-2	151
94-27958	“ “	“ “	AN5760-1	152
94-27960-B	“ “	Accelerometer aircraft	AN5745-2	126
94-27961	“ “	Clock—civil date elapsed time	AN5741-1	257
94-27961	“ “	“ —13 jewel	A-10	256
94-27962-A	“ “	Indicator—gyro horizon	AN5736-1	243
94-27962A	“ “	“ “	AN5736-2	246
94-27963	“ “	“ —directional gyro	AN5735-1	235
94-27963	“ “	“ “	AN5735-2	233
94-27964A	“ “	Control—turn (remote indicator)	B-4	238
94-27964A	“ “	Indicator—directional gyro	B-4	237
94-27964B	“ “	Control—turn (remote indicator)	B-4	238
94-27964B	“ “	Indicator—directional gyro	B-4	237
94-27967	“ “	“ —rate-of-climb	AN5825-1	161
94-27967	“ “	“ “	AN5825-2	160
94-27970-A	“ “	Clock—7 jewel unlighted	A-11	258
94-27971A	“ “	Indicator—dual thermocouple thermometer	B-11	101
94-27971B	“ “	“ “ “ “	B-11	101
94-27972	“ “	“ — “ tachometer	E-10	79
94-27974-B	“ “	“ —airspeed	B-8	128
94-27972	“ “	Transmitter—tachometer	E-10	80
94-27977-A	“ “	Block—manifold		174
94-27977-A	“ “	Mount—gyro control		181
94-27977-A	“ “	Pulley—follow-up		182
94-27977-B	“ “	Control—directional gyro		170
94-27977A	“ “	“ —remote control directional gyro		184
94-27977A	“ “	“ —vertical gyro		171
94-27977A	“ “	Controller—banked turn		187
94-27977A	“ “	Filter—oil		178
94-27977A	“ “	Gear—flexible shaft angle		186
94-27977-B	“ “	Mount—gyro control		172
94-27977-B	“ “	Trap—drain oil		175
94-27977A	“ “	Mount—remote control gyro control		185
94-27977-B	“ “	Regulator—oil pressure		177
94-27977A	“ “	Servo— 8 inch stroke gang		179
94-27977A	“ “	“ 11 “ “ “ “		180
94-27977-B	“ “	Valve—speed control		176
94-27978-A	“ “	Control—directional gyro		170
94-27978	“ “	“ —remote control directional gyro		184
94-27978-B	“ “	“ —directional gyro		170
94-27978A	“ “	“ —remote control directional gyro		184
94-27979A	“ “	“ —vertical gyro		171
94-27979B	“ “	“ “ “ “		171
94-27980-A	“ “	Mount—gyro control		172
94-27980	“ “	“ “ “ “		172
94-27980	“ “	“ “ “ “		181
94-27980	“ “	“ —remote control gyro control		185
94-27980	“ “	Pulley—follow-up		182
94-27980-A	“ “	“ “ “ “		182
94-27981A	“ “	Servo— 8 inch stroke gang		179
94-27981A	“ “	“ —11 “ “ “ “		180
94-27981B	“ “	“ — 8 “ “ “ “		179
94-27981B	“ “	“ —11 “ “ “ “		180
94-27983	“ “	Filter—oil		178
94-27983A	“ “	“ “ “ “		178
94-27984	“ “	Regulator—oil pressure		177
94-27984-A	“ “	“ “ “ “		177



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
94-27985	Army Spec.	Valve—speed control		176
94-27990	“ “	Indicator—electric thermometer	C-12	107
94-27990	“ “	“ —single thermometer	AN5790-6	89
94-27991	“ “	“ —electric thermometer	F-9	113
94-27991	“ “	“ —single thermometer	AN5790-6	89
94-27992A	“ “	“ —assembly—fuel mixture	A-7	12
94-27992-B	“ “	“ “ “	A-7A	13
94-27997	“ “	“ —dual electric thermometer	F-10	116
94-27997	“ “	“ “ thermometer	AN5795-6	89
94-27998	“ “	“ “ electric thermometer	A-24	98
94-27998	“ “	“ “ thermometer	AN5795-6	90
94-27999	“ “	“ “ electric thermometer	A-25	94
94-27999	“ “	“ “ thermometer	AN5795-6	90
94-28429	“ “	Eliminator—fuel system air vapor	A-6	285
94-32172-A	“ “	Voltmeter—aircraft	B-1	124
94-32172-B	“ “	“ “	B-1	124
94-32173	“ “	Ammeter	E-1	120
94-32173-A	“ “	“ “	E-1	120
94-32175	“ “	Signal—fuel pressure	C-2	57
94-32191	“ “	Ammeter	D-2	119
94-32204	“ “	Shunt—ammeter	E-1	121
94-32204	“ “	“ “	F-1	123
94-32215-B	“ “	Signal—fuel pressure	C-3	59
94-32215-A	“ “	“ “	C-3	59
94-32270-A	“ “	Inverter—remote reading magnetic compass	12117-6-A	277
94-32284	“ “	Ammeter	F-1	122
94-32382	“ “	Voltmeter—aircraft	C-1	125
94-32390	“ “	Signal—altitude warning	H-2	60
100	Mfr's Part	Computer—airial dead reckoning	AN5835-1	278
100-010	“ Model and Dwg	Signal—fuel pressure	C-3	59
102	“ Part and Dwg	Standard—astro compass	O-5	261
105U/61	British Ref.	Ammeter	D-2	119
105U/74	“ “	“ “	D-2	119
105U/79	“ “	Voltmeter—aircraft	B-1	124
105U/211	“ “	Ammeter	F-1	122
105U/342	“ “	“ “	E-1	120
105U/510	“ “	Shunt—ammeter	F-1	123
105U/514	“ “	“ “	E-1	121
105U/1153	“ “	Voltmeter—aircraft	C-1	125
106A/2	“ “	Signal—fuel pressure	C-2	58
106A/2	“ “	“ “ “	C-3	59
106A/20	“ “	Clock—7 jewel unlighted	A-11	259
106A/25	“ “	“ —7 “ lighted	A-9	255
106A/28	“ “	“ —7 “ “	A-9	255
106A/32	“ “	Compass—navigator's	D-12	265
106A/34	“ “	“ —pilot's	AN5733-1	263
106A/68	“ “	Gage—manifold pressure	D-9	43
106A/69	“ “	“ —fuel pressure	AN5771-1	27
106A/75	“ “	“ —oil pressure	B-5	37
106A/76	“ “	“ —fuel pressure	C-10	25
106A/81	“ “	“ —hydraulic pressure—landing gear	E-3	33
106A/82	“ “	“ —suction	F-2	52
106A/83	“ “	Indicator—airspeed	D-4	131
106A-87	“ “	“ —rate-of-climb	A-6	158
106A/88	“ “	“ —turn and bank	A-5	248
106A/114	“ “	Signal—fuel pressure	C-2	58
106A/144	“ “	Clock—7 jewel unlighted	A-11	259
106A/152	“ “	Transmitter—fuel pressure	C-14A	32
106A/153	“ “	Signal—fuel pressure	C-2	58
106A/153	“ “	“ “ “	C-3	59
106A/154	“ “	“ “ “	C-2	58
106A/154	“ “	“ “ “	C-3	59
106A/167	“ “	Tube—single throat power venturi	AN5805-1	164



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106A/173	British Ref.	Transmitter—manifold pressure	D-8	47
106A/176	“ “	“ —oil pressure	B-9A, B-9	40
106A/177	“ “	Gage—suction	F-2	52
106A/178	“ “	“ “	F-2	52
106A/179	“ “	“ “	F-2	52
106A/179	“ “	“ “	F-3	54
106A/200	“ “	Indicator—dual tachometer	E-10	79
106A/201	“ “	“ “	E-10	79
106A/202	“ “	Transmitter—tachometer	E-10	80
106A/229	“ “	Signal—fuel pressure	C-2	58
106A/229	“ “	“ “	C-3	59
106A/278	“ “	“ “	C-2	58
106A/324	“ “	Clock—7 jewel unlighted	A-11	259
106A/334	“ “	Tube—pitot-static airspeed	AN5816-2	141
106A/404	“ “	Bulb—resistance thermometer (short)	AN5525-1	117
106A/415	“ “	Indicator—turn and bank	A-5	248
106A/420	“ “	Gage—de-icing pressure	G-1	24
106A/428	“ “	Compass—navigator's	D-12	265
106A/432	“ “	Inclinometer	B-2	156
106A/435	“ “	Altimeter—pressure	C-11	150
106A/438	“ “	Tube—pitot-static airspeed	AN5815-1	139
106A/486	“ “	Adapter—engine tachometer outlet	AN4041	84
106A/526	“ “	Indicator—rate-of-climb	AN5825-1	162
106A/529	“ “	Clock—7 jewel unlighted	A-11	259
106A/540	“ “	Gage unit—engine	* AN5774	8
106A/541	“ “	Indicator—airspeed	D-6	132
106A/542	“ “	Gage—manifold pressure	D-2	42
106A/545	“ “	Indicator—tachometer	E-4	73
106A/546	“ “	Generator—screw mount tachometer	E-4	72
106A/567	“ “	Altimeter—pressure	AN5760-1	152
106A/582	“ “	Gage unit—engine	AN5774	8
106A/634	“ “	Indicator—gyro horizon	C-5	241
106A/635	“ “	“ —directional gyro	A-3	232
106A/636	“ “	Tube—pitot-static airspeed	AN5816-1	140
106A/638	“ “	Indicator—directional gyro	B-3	236
106A/687	“ “	“ “	AN5735-1	235
106A/688	“ “	“ “	AN5735-1	235
106A/689	“ “	“ “	B-4	237
106A/690	“ “	“ “	AN5735-1	235
106A/697	“ “	“ —gyro horizon	AN5736-1	243
106A/700	“ “	“ “	AN5736-1	243
106A/715	“ “	“ —rate-of-climb	AN5725-1	162
106A/720	“ “	Gage unit—engine	AN5774	8
106A/776	“ “	Clock—7 jewel lighted	A-9	255
106A/783	“ “	Indicator—fuel pressure	C-14	29
106A/785	“ “	“ —manifold pressure	D-8	46
106A/786	“ “	“ —dual tachometer	E-10	79
106A/788	“ “	“ “ thermometer	F-7	109
106A/836	“ “	Signal—fuel pressure	C-2	58
106A/836	“ “	“ “	C-3	59
106A/837	“ “	Altimeter—pressure	AN5760-2	151
106A/838	“ “	Bulb—resistance thermometer (long)	AN5525-2	118
106A/843	“ “	Tachometer—chronometric	C-11	71
106A/843	“ “	“ “	C-7	69
106A/843	“ “	“ “	C-9A	70
106A/844	“ “	Bulb—resistance thermometer (short)	AN5525-1	117
106A/845	“ “	Indicator—electric thermometer	F-8	112
106A/846	“ “	“ —thermocouple thermometer	B-7	103
106A/846	“ “	“ “	B-9	100





## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106A/849	British Ref.	Indicator—airspeed	B-8	128
106A/850	“ “	“ —turn and bank	A-8	249
106A/851	“ “	“ —rate-of-climb	A-7	159
106A/852	“ “	“ —single electric thermometer	C-11	106
106A/854	“ “	Tube—single throat power venturi	AN5805-1	164
106A/861	“ “	Bulb—resistance thermometer (long)	AN5525-2	118
106A/862	“ “	Indicator—single electric thermometer	A-23	96
106A/872	“ “	“ —tachometer	E-9A	76
106A/889	“ “	“ —thermocouple thermometer	B-7	103
106A/889	“ “	“ “ “	B-9	100
106A/890	“ “	Gage unit—engine, 8 foot capillary	B-2	6
106A/891	“ “	Indicator—airspeed	C-7	129
106A/906	“ “	Tachometer—chronometric	C-7	69
106A/907	“ “	Signal—fuel pressure	C-2	58
106A/916	“ “	Tube—pitot-static airspeed	D-2	142
106A/917	“ “	Transmitter—thermometer	A-22	93
106A/919	“ “	Indicator—thermocouple thermometer	B-11	102
106A/921	“ “	“ —airspeed	C-14	130
106A/922	“ “	“ —tachometer	E-9A	76
106A/931	“ “	“ —oil pressure	B-9A, B-9	39
106A/932	“ “	“ —dual thermometer	A-22	92
106A/942	“ “	Generator—pad mount tachometer	AN5531-1	74
106A/944	“ “	Indicator—dual electric thermometer	A-24	98
106A/978	“ “	“ —turn and bank	A-8	249
106A/980	“ “	Clock—civil date elapsed time	AN5741-1	257
106A/1001	“ “	“ —7 jewel unlighted	A-11	259
106A/1011	“ “	Tube—pitot-static airspeed	B-6	138
106A/1015	“ “	Indicator—tachometer	E-9A	76
106A/1016	“ “	Signal—fuel pressure	C-2	58
106A/1016	“ “	“ “ “	C-3	59
106A/1017	“ “	Standard—astro compass	O-5	261
106A/1064	“ “	Indicator—electrical wheel and flap position	A-2	62
106A/1065	“ “	“ —airspeed	D-7	133
106A/1068	“ “	Gage—de-icing pressure	AN5771-3	25
106A/1069	“ “	“ —hydraulic pressure—landing gear	E-4	34
106A/1085	“ “	“ —manifold pressure	AN5770-1	44
106A/1086	“ “	Tachometer—chronometric	C-11	71
106A/1086	“ “	“ “	C-7	69
106A/1086	“ “	“ “	C-9A	70
106A/1087	“ “	Gage—airspeed	F-2	135
106A/1088	“ “	Compass—astro	Mk 2	260
106A/1104	“ “	Gage—suction		54
106A/1104	“ “	“ “	AN5771-5	55
106A/1104	“ “	“ “	F-2	52
106A/1105	“ “	Altimeter—pressure	AN5761-1	154
106A/1108	“ “	Indicator—dual electric thermometer	F-10	116
106A/1109	“ “	Accelerometer aircraft	AN5745-2	126
106A/1110	“ “	Indicator—airspeed	F-1	134
106A/1111	“ “	“ —tachometer	E-12	83
106A/1112	“ “	“ —electrical thermometer	F-9	114
106A/1113	“ “	“ assembly—fuel mixture	A-7	12
106A/1113	“ “	“ “ “ “	A-7A	13
106A/1114	“ “	“ —electric thermometer	C-12	108
106A/1115	“ “	Clock—13 jewel	A-10	256
106A/1116	“ “	Indicator—turn and bank	AN5820-1	250
106A/1123	“ “	Generator—screw mount tachometer	E-12	81, 82
106A/1124	“ “	Transmitter—remote indicating magnetic compass	AN5730-3	276
106A/1125	“ “	Indicator—electrical wheel and flap position	A-2	62
106A/1126	“ “	“ “ “ “ “ “	AN5780-2	65

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106A/1128	British Ref.	Thermometer—bimetal direct reading	C-13, C-13A	104
106A/1139	" "	Indicator—tachometer	E-9A	76
106A/1145	" "	Transmitter—electrical wheel and flap position	A-2	64
106A/1146	" "	" " " " " " " "	AN5758-1	67
106A/1188	" "	Indicator assembly—fuel mixture	B-6	16
106A/1188	" "	" " " " " " " "	B-6A	18
106A/1202	" "	Signal—fuel pressure	C-2	58
106A/1203	" "	" " " " " " " "	C-2	58
106A/1203	" "	" " " " " " " "	C-3	59
106A/1204	" "	" " " " " " " "	C-2	58
106A/1236	" "	Bulb—resistance thermometer (short)	AN5525-1	117
106A/1240	" "	Indicator—manifold pressure	D-8A	49
106A/1241	" "	" " " " " " " "	D-8A	48
106A/1244	" "	Bulb—resistance thermometer (long)	AN5525-2	118
106A/1246	" "	Indicator—gyro flux gate compass master	AN5752-1	269
106A/1247	" "	Transmitter—gyro flux gate compass	AN5751-1	271
106A/1248	" "	Amplifier—gyro flux gate compass	AN5753-1	267
106A/1250	" "	Indicator—remote indicating magnetic compass	AN5730	270, 275
106A/1251	" "	Control—gyro flux gate compass electrical caging	AN5754-1	268
106A/1252	" "	" " " " " " manual caging	AN5755-1	273
106A/1253	" "	Switch box—gyro flux gate compass	AN5756-1	272
106A/1267	" "	Indicator—oil pressure	B-9A, B-9	39
106A/1289	" "	Signal—fuel pressure	C-2	58
106A/1294	" "	Gage—oil pressure	AN5771-2	38
106A/1315	" "	" —manifold pressure (dual)	AN5770-2	45
106A/1324	" "	Generator—pad mount tachometer	AN5531-1	74
106A/1329	" "	Tube—pitot airspeed	G-2	145
106A/1330	" "	" —pitot-static airspeed	D-3	143
106A/1331	" "	" —double throat power venturi	AN5807-1	165
106A/1332	" "	Gage unit—engine	AN5774	8
106A/1333	" "	" —hydraulic pressure—landing gear	AN5771-4	35
106A/1335	" "	" —fuel pressure (dual)	AN5772-1	28
106A/1336	" "	" —oil pressure (dual)	AN5772-2	36
106A/1337	" "	Transmitter—oil pressure	B-9A, B-9	40
106A/1339	" "	Indicator—electrical wheel and flap position	A-2	63
106A/1340	" "	" " " " " " " "	AN5780-1	66
106A/1348	" "	Altimeter—pressure	B-11	148
106A/1349	" "	Indicator—capillary thermometer	A-20	91
106A/1351	" "	Transmitter assembly—fuel and oil pressure	AN5765-1	20
106A/1352	" "	Indicator—fuel pressure	C-14A	31
106A/1355	" "	Generator—screw mount tachometer	AN5531-2	75
106A/1363	" "	Indicator—turn and bank	C-1	252
106A/1364	" "	" —single thermometer	AN5790-6	89
106A/1372	" "	" —tachometer	E-9A	76
106A/1372	" "	" " " " " " " "	AN5530-1	77
106A/1373	" "	" —turn and bank	AN5820-1	250
106A/1373	" "	" " " " " " " "	AN5802-2	251
106A/1377	" "	Frame—single mounting	43B7625	224
106A/1378	" "	" —double mounting	43D7014	225
106A/1379	" "	Plate—front mounting	43B7016	226
106A/1380	" "	" " " " " " " "	43B7015	227
106A/1405	" "	Indicator—airspeed	F-3	136
106A/1417	" "	" —gyro horizon	E-1	245
106A/1420	" "	" assembly—fuel mixture	B-5A	14
106A/1421	" "	" " " " " " " "	B-5A	14
106A/1422	" "	" " " " " " " "	B-6	16
106A/1422	" "	" " " " " " " "	B-6A	18
106A/1423	" "	" " " " " " " "	B-6A	18



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106A/1424	British Ref.	Indicator assembly—fuel mixture	A-7A	13
106A/1431	" "	Generator—screw mount tachometer	AN5531-2	75
106A/1432	" "	Inclinometer	B-2	156
106A/1433	" "	Filter—turn and bank indicator air	AN5821-1	230
106A/1434	" "	Indicator—gyro horizon	AN5736-2	246
106A/1435	" "	" —directional gyro	C-1	239
106A/1438	" "	Tube—pitot-static airspeed	B-6	138
106A/1440	" "	Indicator assembly—fuel mixture	A-7	12
106A/1440	" "	" " " "	A-7A	13
106A/1441	" "	" " " "	A-7	12
106A/1441	" "	" " " "	A-7A	13
106A/1442	" "	" " " "	B-5A	14
106A/1443	" "	" " " "	B-5A	14
106A/1444	" "	" " " "	B-6	16
106A/1444	" "	" " " "	B-6A	18
106A/1445	" "	" " " "	A-7	12
106A/1446	" "	" " " "	A-7	12
106A/1447	" "	" " " "	A-7	12
106A/1447	" "	" " " "	B-6	16
106A/1448	" "	" " " "	A-7A	13
106A/1448	" "	" " " "	B-5A	14
106A/1449	" "	" " " "	A-7A	13
106A/1450	" "	" " " "	A-7	12
106A/1451	" "	" " " "	A-7A	13
106A/1451	" "	" " " "	B-5A	14
106A/1452	" "	" " " "	B-5A	14
106A/1452	" "	" " " "	B-6A	18
106A/1453	" "	" " " "	B-6	16
106A/1454	" "	" " " "	B-6	16
106A/1455	" "	" " " "	B-6	16
106A/1456	" "	" " " "	B-6A	18
106A/1457	" "	" " " "	B-6A	18
106AH/162	" "	" " " "	A-7	12
106AH/162	" "	" " " "	A-7A	13
106AH/162	" "	" " " "	B-5A	14
106AH/162	" "	" " " "	B-6	16
106AH/162	" "	" " " "	B-6A	18
106AN/46	" "	" " " "	A-7	12
106AN/46	" "	" " " "	A-7A	13
106AN/46	" "	" " " "	B-5A	14
106AN/46	" "	" " " "	B-6	16
106AN/46	" "	" " " "	B-6A	18
106B/010	Mfr's Model and Dwg	Signal—fuel pressure	C-3	59
106B/4	British Ref.	Meter—drift	B-3	283
106B/9	" "	Computer—airial dead reckoning	AN5835-1	278
106B/12	" "	Astrograph	A-1	253
106B/13	" "	Meter—drift	B-5	284
106B/21	" "	Machine—aircraft navigational drafting	AN5750-1	279
106B/24	" "	Meter—drift	B-3	283
106B/33	" "	Ring—astrograph mounting		254
106B/47	" "	Meter—drift		283
106B/48	" "	Aircraft sextants		281
106B/49	" "	" " "		281
106B/50	" "	" " "		281
106B/53	" "	" " "		281
106B/152	" "	" " "		281
106J/601	" "	Control—directional gyro	B-3	170
106J/602	" "	" —vertical gyro		171
106J/603	" "	Mount—gyro control		172



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106J/604	British Ref.	Filter—air	AN5822-1	229
106J/606	“ “	Servo—8 inch stroke gang		179
106J/607	“ “	“ —11 inch stroke gang		180
106J/608	“ “	Valve—speed control		176
106J/609	“ “	Block—manifold		174
106J/611	“ “	Trap—drain oil		175
106J/612	“ “	Filter—oil		178
106J/614	“ “	Control—remote control directional gyro		184
106J/616	“ “	Mount—remote control gyro control		185
106J/619	“ “	Regulator—oil pressure		177
106J/621	“ “	Controller—banked turn		187
106J/634	“ “	“ “ “		187
106J/660	“ “	Gage—automatic pilot oil pressure	AN5771-6	23
106J/661	“ “	Panel—control		198
106J/662	“ “	Rack—amplifier		201
106J/663	“ “	Amplifier—constant altitude control		207
106J/664	“ “	“ —directional gyro follow-up		203
106J/665	“ “	“ —aileron servo		205
106J/666	“ “	“ —elevator servo		206
106J/667	“ “	Control—constant altitude		202
106J/668	“ “	Servo—trim tab		215
106J/670	“ “	“ —elevator		213
106J/671	“ “	“ “		214
106J/672	“ “	“ “		212
106J/673	“ “	Control—turn (remote indicator)	B-4	238
106J/676	“ “	Servo—aileron or rudder		211
106J/677	“ “	“ “ “ “		209
106J/678	“ “	“ “ “ “		210
106J/679	“ “	Control—vertical gyro		196
106J/680	“ “	Mount—vertical gyro control		197
106J/681	“ “	Controller—navigation's turn		218
106J/682	“ “	Control—directional gyro		194
106J/683	“ “	Mount—directional gyro control		195
106J/688	“ “	Servo—8 inch stroke gang		179
106J/689	“ “	“ —11 inch stroke gang		180
106J/690	“ “	Mount—gyro control		172
106J/691	“ “	Control—vertical gyro		171
106J/692	“ “	“ —directional gyro		170
106J/702	“ “	Filter—air	AN5822-1	229
106J/703	“ “	Pulley—follow-up		182
106J/704	“ “	Filter—air	AN5822-1	229
106J/705	“ “	“ —oil		178
106J/706	“ “	Trap—drain oil		175
106J/707	“ “	Regulator—oil pressure		177
106J/708	“ “	Valve—speed control		176
106J/712	“ “	Block—manifold		174
106J/713	“ “	“ “		174
106J/714	“ “	“ “		174
106J/718	“ “	Pulley—follow-up		182
106J/721	“ “	“ “		182
106J/724	“ “	“ “		182
106J/727	“ “	“ “		182
106J/728	“ “	“ “		182
106J/729	“ “	“ “		182
106J/730	“ “	“ “		182
106J/732	“ “	“ “		182
106J/734	“ “	“ “		182
106J/735	“ “	“ “		182
106J/736	“ “	“ “		182





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
106J/737	British Ref.	Pulley—follow-up		182
106J/738	" "	" "		182
106J/739	" "	" "		182
106J/740	" "	" "		182
106J/741	" "	" "		182
106J/742	" "	" "		182
106J/744	" "	" "		182
106J/745	" "	" "		182
106J/746	" "	" "		182
106J/747	" "	" "		182
106J/748	" "	Amplifier—directional gyro follow-up		220
106J/749	" "	Control—directional gyro		219
106J/750	" "	" " "		170
106J/751	" "	" —vertical gyro		171
106J/752	" "	" —remote control directional gyro		184
106J/754	" "	Amplifier—rudder servo		204
106J/755	" "	Controller—turn		200
106J/756	" "	Servo—aileron		217
106J/756	" "	" " or rudder		211
106J/760	" "	Mount—gyro control		181
109/20	" "	Gear—flexible shaft angle		186
109/32	" "	Indicator—pilot director		199
113	Mfr's Type	" —thermocouple thermometer	B-7	103
113	" "	" " "	B-9	100
118	" Part	Computer—aerial dead reckoning	AN5835-1	278
122	" Type	Indicator—thermocouple thermometer	B-7	103
122	" "	" " "	B-9	100
126-104	" Model and Dwg	Tube—pitot airspeed	G-1	144
126-105	" " " "	" " "	G-2	145
126-108	" " " "	" —pitot-static airspeed	AN5816-2	141
126-155	" Part and Dwg	" —double throat power venturi	AN5807-1	165
160-010	" Model and Dwg	Signal—fuel pressure	C-2	58
160-010	" " " "	" " "	C-3	59
160-020	" " " "	" " "	C-2	58
160-020	" " " "	" " "	C-3	59
160B-01	" " " "	" " "	C-2	58
160B-010	" " " "	" " "	C-2	58
160B-010	" " " "	" " "	C-3	59
160B-09	" " " "	" " "	C-2	58
160B-09	" " " "	" " "	C-3	59
160B-011	" " " "	" " "	C-2	58
160B-019	" " " "	" " "	C-2	58
160B-019	" " " "	" " "	C-3	59
160B-020	" " " "	" " "	C-2	58
160B-020	" " " "	" " "	C-3	59
160B-021	" " " "	" " "	C-2	58
160B-032	" " " "	" " "	C-2	58
171	" " " "	Tube—pitot-static airspeed	AN5816-1	140
171B	" " " "	" " "	AN5816-1	140
176-B-11	" Dwg	Altimeter—pressure	✓ B-11	148
200	" Part and Dwg	Gage—suction	AN5771-5	55
200	" " " "	" " "	F-3	54
227 L 001	" Model	Thermometer—bimetal direct reading	C-13, C-13A	104
227 L 002	" " "	" " " "	C-13, C-13A	104
227 L 003	" " "	" " " "	C-13, C-13A	104
227 L 004	" " "	" " " "	C-13, C-13A	104
301	" Type	Ammeter	E-1	120
301	" " "	Voltmeter—aircraft	B-1	124
357-G-940	" Model and Dwg	Tube—pitot-static airspeed	AN5816-1	140



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
366B-03	Mfr's Part	Indicator—rate of climb	A-6	158
366B-04	" "	" "	A-6	158
369D-01	" Model and Dwg	Tube—pitot-static airspeed	AN5816-1	140
369D-02	" " " "	" " " "	AN5816-2	141
369D-011	" " " "	" " " "	AN5816-1	140
369D-012	" " " "	" " " "	AN5816-2	141
369D-900B	" Dwg	" " " "	AN5816-2	141
371K-01	" Part	Altimeter—pressure	✓ AN5760-1	152
371K-05	" " "	" " "	✓ AN5760-1	152
371S-01	" Dwg and Part	" " "	✓ C-11	150
371S-03	" " " "	" " "	✓ C-11	150
373D-02	" " " "	Tube—pitot-static airspeed	D-2	142
455-3C-A3	" Type	Transmitter—thermometer	A-22	93
505-01	" Model	Clock—7 jewel unlighted	A-11	259
505K-01	" " "	" " " "	A-11	259
505S-01	" Part and Dwg	" " " lighted	A-9	255
505SD-01	" " " "	" " " "	A-9	255
505SD-05	" " " "	" " " "	A-9	255
506	" Type	Ammeter	D-2	119
506	" " "	"	F-1	122
544	" Model	Generator—screw mount tachometer	E-4	72
544KN-02	" Part and Dwg	Altimeter—pressure	✓ AN5761-1	154
544KN-04	" " " "	" " "	✓ AN5761-1	154
544KN-05	" " " "	" " "	✓ AN5761-1	154
544KN-06	" " " "	" " "	✓ AN5761-1	154
544KN-07	" " " "	" " "	✓ AN5761-1	154
586BK-029	" Dwg	Indicator—airspeed	✓ D-7	133
586BK-0110	" " "	" " "	✓ C-14	130
586BK-0142	" " "	" " "	✓ F-2	135
586BK-0148	" " "	" " "	✓ C-14	130
586BK-0149	" " "	" " "	✓ F-2	135
586K-018	" " "	" " "	✓ D-7	133
586K-027	" " "	" " "	✓ B-8	128
586K-028	" " "	" " "	✓ D-7	133
586S-024	" " "	" " "	✓ D-4	131
586S-025	" " "	" " "	✓ D-6	132
586S-0110	" " and Part	" " "	✓ C-7	129
590BK-01	" Type or Model	" —tachometer	E-9A	76
590SD-01	" " " "	" " "	E-9A	76
595B-02	" Model, Part, and Dwg	Tube—pitot-static airspeed	D-3	143
602	" Model	Indicator—thermocouple thermometer	B-7	103
602	" Type	" " " "	B-9	100
611KN-02	" Dwg and Part	Gage—manifold pressure	D-9	43
611KN-03	" " " "	" " " "	D-9	43
635	" Model	Indicator—dual thermocouple thermometer	B-11	102
639K-03	" Dwg	" —rate-of-climb	AN5825-1	162
655G-01	" Model	Generator—pad mount tachometer	AN5531-1	74
655G-02	" Part	" " " "	AN5531-1	74
656K-03	" Model or Type	Indicator—tachometer	E-9A	76
657BK-0126	" Dwg	" —airspeed	✓ D-7	133
657BK-0137	" " "	" " "	✓ D-7	133
657BK-0146	" " "	" " "	✓ B-8	128
661KN-02	" " "	" —rate-of-climb	AN5825-1	162
671BK-01	" Part	Altimeter—pressure	✓ AN5760-2	151
671BK-03	" " "	" " "	✓ AN5760-2	151
671BK-07	" Dwg	" " "	✓ AN5760-4	155
671BK-010-4	" " "	" " "	✓ AN5760-4	155
671CK-010	" Part	" " "	✓ AN5760-2	151



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
671CK-010-4	Mfr's Dwg	Altimeter—pressure	AN5760-4	155
671K-01	" Part	" "	AN5760-2	151
671K-03	" "	" "	AN5760-2	151
677G-01	" "	Generator—screw mount tachometer	AN5531-2	75
677G-02	" "	" " " "	AN5531-2	75
691BK-01	" Dwg and Part	Accelerometer aircraft	AN5745-2	126
691BK-03	" " " "	" "	AN5745-2	126
691CK-01	" " " "	" "	AN5745-2	126
691CK-04	" " " "	" "	AN5745-2	126
691K-02	" " " "	" "	AN5745-2	126
716K-03	" "	Indicator—rate-of-climb	AN5825-1	162
727	" Model	" —electric thermometer	C-12	107
727	" "	" " " "	F-8	112
727	" "	" " " "	F-9	114
727	" "	" —single electric thermometer	A-23	96
727	" "	" " " "	C-11	106
727	" "	" " thermometer	AN5790-6	89
728	" "	" " " "	C-10	105
728K-02	" Part and Dwg	Gage—manifold pressure (dual)	AN5770-2	45
728K-03	" " " "	" " " "	AN5770-2	45
731KN-02	" Dwg	Indicator—rate-of-climb	AN5825-1	162
731KN-04	" "	" "	AN5825-1	162
731KN-04	" Part and Dwg	" "	AN5825-2	160
739K-03	" Dwg	" —airspeed	F-1	134
739K-07	" "	" "	F-1	134
744BKN-02	" Part	Altimeter—pressure	✓ AN5760-2	151
744BKN-04	" Dwg	" "	✓ AN5760-4	155
744KN-02	" Part	" "	✓ AN5760-2	151
751K-02	" Type and Model	Indicator—dual tachometer	AN5530-2	78
752	" Part	Generator—screw mount tachometer	E-12	81, 82
758	" " and Dwg	Compass—pilot's	AN5733-1	263
770G-01	" Model	Generator—pad mount tachometer	AN5531-1	74
771K-01	" Model or type	Indicator—tachometer	AN5530-1	77
771K-01	" " " "	" " " "	E-9A	76
771K-03	" " " "	" " " "	AN5530-1	77
771K-03	" " " "	" " " "	E-9A	76
774G-01	" Part	Generator—screw mount tachometer	AN5531-2	75
781-02	" " and Dwg	Tube—pitot airspeed	G-1	144
782-02	" Model and Dwg	" " " "	G-2	145
788K-02	" Dwg	Gage—manifold pressure	AN5770-1	44
788K-03	" "	" " " "	AN5770-1	44
811	Army Standard	Altimeter—pressure	✓ C-11	150
811	" "	Indicator—airspeed	✓ C-7	129
811	" "	" " " "	✓ D-6	132
811	" "	" " " "	✓ D-7	133
811	" "	" —rate-of-climb	A-7	159
811	Mfr's, Part and Army Standard	Instrument fittings		2
827	Mfr's Model	Indicator—thermocouple thermometer	B-11	102
828	" "	" —dual electric thermometer	A-24	98
828	" "	" " " "	A-25	94
828	" "	" " " "	F-10	116
828	" "	" " thermometer	AN5795-6	90
831-SK	" "	Gage—suction	F-3	53
842-SK	BuAer Dwg	Altimeter—pressure	AN5760-4	155
842-SK	" "	" "	AN5761-1	154
845-SK	" "	Indicator—turn and bank	A-8	249
871-SK	" "	Clock—13 jewel	A-10	256



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
882	Mfr's Model	Indicator—electrical wheel and flap position	A-2	62, 63
882	" "	" " " " " " " "	AN5780-1	66
882	" "	" " " " " " " "	AN5780-2	65
898-SK	BuAer Dwg	Compass—navigator's	D-12	265
909SK	" "	Indicator—turn and bank	C-1	252
1028-A-8	Mfr's Dwg and Part	Gage unit—engine	AN5774	8
1091	N. A. F. Dwg	Voltmeter—aircraft	C-1	125
1091E-150	Navy Part	" "	C-1	125
1140	Mfr's Part	Computer—airial dead reckoning	AN5835-1	278
1150	" " and Dwg	" " " " " " " "	AN5835-1	278
1252	" " " "	Tube—single throat power venturi	AN5805-1	164
1276	" " " "	Standard—astro compass	O-5	261
1280	" " " "	Tube—double throat power venturi	AN5807-1	165
1282	" " " "	" " " " " " " "	AN5807-1	165
1403-1B-C1	" " " "	Indicator—airspeed	✓ C-7	129
1403-1C-E1	" " " "	" " " " " " " "	✓ C-7	129
1403-1N-B1	" " " "	" " " " " " " "	✓ C-7	129
1403-1N-D1	" " " "	" " " " " " " "	✓ C-7	129
1403-4E-D1	" " " "	" " " " " " " "	✓ D-4	131
1406-4E	" " " "	" " " " " " " "	✓ D-4	131
1426-1AD-A1	" " " "	" " " " " " " "	✓ C-14	130
1426-1AE-A1	" " " "	" " " " " " " "	✓ C-14	130
1426-1B-A1	" " " "	" " " " " " " "	✓ C-14	130
1426-1Z-A1	" " " "	" " " " " " " "	✓ C-14	130
1426-2D-A1	" " " "	" " " " " " " "	✓ B-8	128
1426-2J-A1	" " " "	" " " " " " " "	✓ B-8	128
1426-37A-A6	" " " "	" " " " " " " "	✓ F-2	135
1426-37E-A6	" " and Dwg	" " " " " " " "	✓ F-3	136
1426-37F-A6	" " " "	" " " " " " " "	✓ F-2	135
1432-22B-A1	" " " "	" " " " " " " "	✓ F-1	134
1432-22B-A-A1	" " " "	" " " " " " " "	✓ F-1	134
1432-22C-A-A1	" " " "	" " " " " " " "	✓ F-1	134
1537-2B-A	" " " "	Altimeter—pressure	✓ AN5761-1	154
1537-2D-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1537-2D-A1	" " " "	" " " " " " " "	✓ AN5761-1	154
1537-2F-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1537-2F-B	" " " "	" " " " " " " "	✓ AN5761-1	154
1537-2F-B1	" " " "	" " " " " " " "	✓ AN5761-1	154
1537-2K-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1554-2J-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1555-2J-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1555-2J-B	" " " "	" " " " " " " "	✓ AN5761-1	154
1555-2L-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1555-2M-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1556-2K-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1582-2M-A	" " " "	" " " " " " " "	✓ AN5761-1	154
1585	" " " "	Thermometer—bimetal direct reading	C-13, C-13A	104
1623-1B-A1	" " " "	Indicator—rate-of-climb	A-6	158
1623-1B-B1	" " " "	" " " " " " " "	A-6	158
1623-1D-A1	" " " "	" " " " " " " "	A-6	158
1623-1E-A1	" " " "	" " " " " " " "	A-6	158
1623-1F-B1	" " " "	" " " " " " " "	A-6	158
1631-1F-A1	" " " "	" " " " " " " "	A-7	159
1634-1M-A1	" " " "	" " " " " " " "	A-7	159
1634-1S-A1	" " " "	" " " " " " " "	A-7	159
1634-1T-A1	" " " "	" " " " " " " "	A-7	159
1634-6C-A2	" Dwg	" " " " " " " "	AN5825-1	162
1636-6A-A1	" " "	" " " " " " " "	AN5825-1	162
1636-6A-B1	" " "	" " " " " " " "	AN5825-1	162





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number, Identification	Used in Connection with	Type, Drawing or Designation	Page
1636-6F-A1	Mfr's Dwg	Indicator—rate-of-climb	AN5825-1	162
1636-6F-B1	" "	" "	AN5825-1	162
1637-IN-A1	" Part and Dwg	" "	A-7	159
1640-6E-A1	" Dwg	" "	AN5825-1	162
1703	" Model	" —turn and bank	A-5	248
1703-2A-B2	" Dwg	" " " "	A-5	248
1703-A2	" " "	" " " "	A-5	248
1707	" Model	" " " "	A-5	248
1707-1A-A1	" Dwg	" " " "	A-5	248
1707-2A-A2	" " "	" " " "	A-5	248
1718	" Model	" " " "	A-8	249
1718-1A-A1	" Dwg and Part	" " " "	A-8	249
1718-2S-A2	" " " "	" " " "	A-8	249
1719	" Model	" " " "	A-8	249
1719-1AF-A1	" Dwg	" " " "	A-8	249
1721	" Model	" " " "	AN5820-1	250
1721-2U-A2	" Dwg	" " " "	AN5820-1	250
1721-2U-A2B	" " "	" " " "	AN5820-1	250
1722	" Model	" " " "	AN5820-1	250
1722-2V-A2	" Dwg	" " " "	AN5820-1	250
1722-2X-A2	" " "	" " " "	AN5820-1	250
1722-2X-A2	" " " "	" " " "	AN5820-2	251
1759	" Model	Clock—7 jewel unlighted	A-11	259
1776	" " "	" —7 " "	A-11	259
1782	" Part and Dwg	" —civil date elapsed time	AN5741-1	257
1801	" Model	Compass—navigator's	D-12	265
1801-1-A-VA	" Dwg	" " "	D-12	265
1801-1A	" " "	" " "	D-12	265
1801-2A	" " "	" " "	D-12	265
1801A	" Model	" " "	D-12	265
1801A-1	" Dwg	" " "	D-12	265
1802	" Model	" " "	D-12	265
1802-1-A	" Dwg	" " "	D-12	265
1802-2-A	" " "	" " "	D-12	265
1802-2-B	" " "	" " "	D-12	265
1802A	" Model	" " "	D-12	265
1802A-1	" Dwg	" " "	D-12	265
1803-1-A	" Part and Dwg	" —pilot's	AN5733-1	263
1803-1-B	" " " "	" " "	AN5733-1	263
1803A-1	" " " "	" " "	AN5733-1	263
1803A-2	" " " "	" " "	AN5733-1	263
1811	" " " "	Computer—aerial dead reckoning	AN5835-1	278
1813	" Model	Compass—pilot's	B-17	264
1813-1-A	" Dwg	" " "	B-17	264
1813-1-B	" " "	" " "	B-17	264
1813-2-B	" " "	" " "	B-17	264
1815	" Model	" " "	B-17	264
1815-2-A	" Dwg	" " "	B-17	264
1818-1-A	" Part and Dwg	" " "	AN5733-1	263
1818-3-A	" " " "	" " "	AN5733-1	263
1826	" Model	" navigator's	D-12	265
1826-1-A	" Dwg	" " "	D-12	265
1826-2-A	" " "	" " "	D-12	265
1832	" Model	" " "	D-12	265
1832-1-A	" Dwg	" " "	D-12	265
1832-3-A	" " "	" " "	D-12	265
1911-1B	" " and Part	Gage—manifold pressure	D-9	43
1919-1B	" " " "	" " "	D-9	43
1919-1C	" " " "	" " "	D-9	43



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
1919-1Q-A1	Mfr's Dwg and Part	Gage—manifold pressure	D-9	43
1919-1R-A1	“ “ “ “	“ “ “	D-9	43
1925-1K-A1	“ “ “ “	“ “ “	D-9	43
1925-1M-A1	“ “ “ “	“ “ “	D-9	43
1929-8F-A1	“ “ “ “	“ “ “	AN5770-1	44
1940	“ Model and Dwg	Indicator—turn and bank	AN5820-1	250
2110	“ Model	Signal—fuel pressure	C-2	58
2150	“ Dwg and Part	Transmitter—assembly—fuel or oil pressure	AN5765-1	20
2213-9	“ Part	Indicator—dual thermometer	AN5795-6	90
2300	“ “	Tachometer—chronometric	C-9	69
2500-1A-A1	“ “ and Part	Gage—suction	F-2	52
2503-1A-A1	“ “ “ “	“ “	F-2	52
2504-1A-A1	“ “ “ “	“ “	F-2	52
2570-Y	“ “	Adapter—engine tachometer outlet	AN4041	84
2600-1A-A1	“ “ and Part	Gage—suction	F-2	52
2600-1A-B1	“ “ “ “	“ “	F-2	52
2601-1A-A1	“ “ “ “	“ “	F-2	52
2601-1A-B1	“ “ “ “	“ “	F-2	52
2601-1F-B1	“ “ “ “	“ “	F-2	52
2601-1J-B1	“ “ “ “	“ “	F-2	52
2603-1A-A1	“ “ “ “	“ “	F-2	52
2603-1C-A1	“ “ “ “	“ “	F-2	52
2603-1C-B1	“ “ “ “	“ “	F-2	52
2603-1D-A1	“ “ “ “	“ “	F-2	52
2603-G-B1	“ “ “ “	“ “	F-2	52
2832	“ Dwg	Machine—aircraft navigational drafting	AN5750-1	279
2902-2A-A	“ Model	Meter—drift	B-3	283
2902-2A-B	“ “	“ “	B-3	283
2902-2A-C	“ “	“ “	B-3	283
2913-2A-A	“ “	“ “	B-3	283
2913-2A-B	“ “	“ “	B-3	283
2913-2B-A	“ “	“ “	B-3	283
2914-2A-A	“ “	“ “	B-3	283
2914-2A-B	“ “	“ “	B-3	283
2914-2A-C	“ “	“ “	B-3	283
2914-2B-A	“ “	“ “	B-3	283
2915-2A-A	“ “	“ “	B-3	283
2915-2A-B	“ “	“ “	B-3	283
2916-2A-A	“ “	“ “	B-3	283
2916-2A-B	“ “	“ “	B-3	283
2916-2A-C	“ “	“ “	B-3	283
2916-2B-A	“ “	“ “	B-3	283
2916-2B-B	“ “	“ “	B-3	283
2919-2A-A	“ “	“ “	B-3	283
2919-2A-B	“ “	“ “	B-3	283
3003-A	“ Dwg and Part	Aircraft sextants		281
3003-B	“ “ “ “	“ “		281
3011-A	“ “ “ “	“ “		281
3011-B	“ “ “ “	“ “		281
3014-1-C	“ “ “ “	“ “		281
3014-1-D	“ “ “ “	“ “		281
3100-A	“ “	Signal—fuel pressure	C-2	58
3100-A	“ Model	“ “ “	C-3	59
3100-O	“ “	“ “ “	C-2	58
3100-O	“ “	“ “ “	C-3	59
3110-1-C	“ Dwg	“ “ “	C-2	58
3110-1-C	“ “	“ “ “	C-3	59
3110-A	“ “	“ “ “	C-2	58
3110-A	“ “	“ “ “	C-3	59



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
3110-B	Mfr's Dwg	Signal—fuel pressure	C-2	58
3110-B	" "	" " "	C-3	59
3110-C	" "	" " "	C-2	58
3110-C	" "	" " "	C-3	59
3110-O	" Model	" " "	C-2	58
3110-O	" "	" " "	C-3	59
3113-1-A	" Dwg	" " "	C-2	58
3113-1-A	" "	" " "	C-3	59
3113-O	" Model	" " "	C-2	58
3113-O	" "	" " "	C-3	59
3115-A	" Dwg	" " "	C-2	58
3115-A	" "	" " "	C-3	59
3115-O	" Model	" " "	C-2	58
3115-O	" "	" " "	C-3	59
3120-2-A	" Dwg	" " "	C-2	58
3120-3-A	" "	" " "	C-2	58
3120-O	" Model	" " "	C-2	58
3123-1-A	" Dwg	" " "	C-2	58
3123-1-A	" "	" " "	C-3	59
3123-3-A	" "	" " "	C-2	58
3123-3-A	" "	" " "	C-3	59
3123-O	" Model	" " "	C-2	58
3123-O	" "	" " "	C-3	59
3156-7T	" "	Gage—hydraulic pressure—landing gear	AN5771-4	35
3200	" Dwg and Part	Eliminator—fuel system air vapor	A-6	285
3310	" Model	Clock—7 jewel unlighted	A-11	259
3310-2A-A	" Dwg	" 7 " "	A-11	259
3310-2B-A	" "	" 7 " "	A-11	259
3310-A	" "	" 7 " "	A-11	259
3311	" Model	" 7 " "	A-11	259
3311-2A-A	" Dwg	" 7 " "	A-11	259
3311-A	" "	" 7 " "	A-11	259
3315	" Model	" 7 " "	A-11	259
3315-A	" Dwg	" 7 " "	A-11	259
3413-2D-A1	" " and Part	Accelerometer aircraft	AN5745-2	126
3413-2E-A1	" " " "	" " "	AN5745-2	126
3683Y-Q	" Part	Shaft—tachometer generator drive	A-3	83
3800	" "	Tachometer—chronometric	C-7	69
3800	" "	" " "	C-9A	70
3800	" "	" " "	C-11	71
3860	" Dwg and Part	Clock—13 jewel	A-10	256
3904	" Model	Indicator—turn and bank	C-1	252
3904-1B-A1	" Dwg and Part	" " " "	C-1	252
3920	" " " "	Clock—civil date elapsed time	AN5741-1	257
3920	" " " "	" 13 jewel	A-10	256
4050-3-A3	" " " "	Transmitter—fuel pressure	C-14	30
4050-4-A4	" " " "	" " "	C-14A	32
4050-4-B4	" " " "	" " "	C-14A	32
4150-3-A3	" Part	" —oil pressure	B-9A, B-9	40
4150-3-B3	" "	" " "	B-9A, B-9	40
4250-1-1A	" " and Dwg	" —manifold pressure	D-8	47
4250-2-A2	" " " "	" " "	D-8A	49
4250-2-B2	" " " "	" " "	D-8A	49
4350-2A-A2	" " " "	" —tachometer	E-10	80
4350-2A-B2	" " " "	" " "	E-10	80
4455-3C-A3	" " " "	" —thermometer	A-22	93
4456-5C-A5	" Type	" " "	F-7	110
4700	" Part	Tachometer—chronometric	C-7	69
4700	" "	" " "	C-9A	70



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
4700	Mfr's Part	Tachometer—chronometric	C-11	71
4770	" "	" "	C-7	69
4770	" "	" "	C-9A	70
4770	" "	" "	C-11	71
4823-32040	ASC Stock	Valve—air vapor control	32100	286
4828-6800	" "	Signal—fuel pressure	C-3	59
4833-3120-3-A	" "	" " "	C-2	58
4833-3123-1-A	" "	" " "	C-3	59
4833-3123-3-A	" "	" " "	C-3	59
4990	" Dwg and Part	Accelerometer—aircraft	AN5745-2	126
5010	" " " "	Inclinometer	B-2	156
5663	" " " "	Ammeter	D-2	119
5669	" Model and Dwg	"	F-1	122
6007-1B-1-A	" Part and Dwg	Indicator—manifold pressure	D-8	46
6007-1C-6-A	" " " "	" " "	D-8	46
6007-1D-7-A	" " " "	" " "	D-8	46
6007-1E-7-A	" " " "	" " "	D-8	46
6007-1F-7-A	" " " "	" " "	D-8	46
6007-3B-7-A	" "	" —dual thermometer	A-22	92
6007-3C-7-A	" "	" " "	A-22	92
6007-4C-1-A	Mfr's Part and Dwg	" —oil pressure	B-9A, B-9	39
6007-4D-6-A	" " " "	" " "	B-9A, B-9	39
6007-4E-7-A	" " " "	" " "	B-9A, B-9	39
6007-4F-7-A	" " " "	" " "	B-9A, B-9	39
6007-4G-7-A	" " " "	" " "	B-9A, B-9	39
6007-4H-7-A	" " " "	" " "	B-9, B-9A	39
6007-4H-14-A	" " " "	" " "	B-9, B-9A	39
6007-9B-7-A	" " " "	" —fuel pressure	C-14	29
6007-9C-7-A	" " " "	" " "	C-14	29
6007-14B-1-A	" " " "	" " "	C-14A	31
6007-14C-6-A	" " " "	" " "	C-14A	31
6007-14D-1-B	" " " "	" " "	C-14A	31
6007-14D-7-A	" " " "	" " "	C-14A	31
6007-14E-7-A	" " " "	" " "	C-14A	31
6007-14E-14-A	" " " "	" " "	C-14A	31
6007-28A-1-A	" " " "	" —dual tachometer	E-10	79
6007-28C-7-A	" " " "	" " "	E-10	79
6007-28C-14-A	" " " "	Indicator—dual tachometer	E-10	79
6007-28E-7-A	" " " "	" " "	E-10	79
6007-31A-7-A	" " " "	" " "	F-7	109
6007-50A-7-A	" " " "	" " manifold pressure	D-8A	48
6007-50A-14-A	" " " "	" " "	D-8A	48
6206	" " " "	Ammeter	E-1	120
6206-1	" " " "	Shunt—ammeter	E-1	121
6207	" " " "	Voltmeter—aircraft	B-1	124
6546-12A-8	" " " "	Gage unit—engine	AN5774	8
6546-12A-15	" " " "	" " "	AN5774	8
6546-12A-22	" " " "	" " "	AN5774	8
6548-23A-22	" " " "	" " "	AN5774	8
6548-73-15, 22	" " " "	" " "	AN4774	8
6548-73A-8	" " " "	" " "	AN5774	8
6548-73A-15, 22	" " " "	" " "	AN5774	8
6548-96A-8	" " " "	" " "	AN5774	8
6548-96A-15	" " " "	" " "	AN5774	8
6548-96A-22	" " " "	" " "	AN5774	8
6638	BuAer Dwg	" " —capillary thermometer engine	AN5774	7
6702-66	Mfr's Part and Dwg	" —suction	F-3	54
6703-83	" " " "	" " "	F-3	54
6704-152	" " " "	" " "	AN5771-5	55





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6704-152	Mfr's Part and Dwg	Gage—Suction	F-3	54
6705-185	" " " "	" " " "	AN5771-5	55
6704-185	" " " "	" " " "	F-3	54
6713-04	" " " "	" —automatic pilot oil pressure	AN5771-6	23
6719-94	" " " "	" " " " " "	AN5771-6	23
6732-02	" " " "	" —hydraulic pressure—landing gear	E-4	34
6732-03	" " " "	" " " " " "	E-4	34
6732-200	" " " "	" " " " " "	E-4	34
6740-88	" " " "	" —manifold pressure	D-9	43
6741-89	" " " "	" " " " " "	D-9	43
6742-90	" " " "	" " " " " "	D-9	43
6742-126	" " " "	" " " " " "	D-9	43
6743-108	" Dwg	" " " " " "	AN5770-1	44
6743-159-A	" " " "	" " " " " "	AN5770-1	44
6748-157	" " " "	" " " " " "	AN5770-1	44
6748-180	" " " "	" " " " " "	AN5770-1	44
6759-180	" " " "	" " " " " "	AN5770-1	44
6753-109	" Part and Dwg	" —de-icing pressure	AN5771-3	25
6754-110	" " " "	" —fuel pressure	AN5771-1	27
6760-160	" " " "	" —oil pressure (dual)	AN5772-2	36
6770-161	" " " "	" —manifold pressure (dual)	AN5770-2	45
6800	" Model and Dwg	Signal—fuel pressure	C-2	58
6800	" " " "	" " " " " "	C-3	59
6809-A	" " " "	" " " " " "	C-2	58
7000	" Part	Servo—electric	D-1	221
7800-1	" " and Dwg	Adapter—turbosupercharger tachometer drive	I	85
7800-2	" " " "	" " " " " "	II	85
7800-3	" " " "	" " " " " "	III	85
7800-4	" " " "	" " " " " "	IV	85
7800-5	" " " "	" " " " " "	"	85
8000	" " " "	Altimeter—pressure	AN5760-2	151
8017	BuAer Dwg	Compass—astro	MK II	260
9543-A-8, 15, 22	Mfr's Part and Dwg	Gage unit—capillary thermometer engine	AN5774	8
9752-A	" " " "	" —hydraulic pressure—landing gear	E-4	34
9753-A	" " " "	" —automatic pilot oil pressure	AN5771-6	23
9754-A-8	" " " "	" unit—engine	AN5774	8
9754-A-15	" " " "	" " " " " "	AN5775	8
9754-A-22	" " " "	" " " " " "	AN5774	8
9755-A8	" " " "	Indicator—capillary thermometer	A-20	91
9755-A13	" " " "	" " " " " "	A-20	91
9755-A15	" " " "	" " " " " "	A-20	91
9755-A22	" " " "	" " " " " "	A-20	91
9755-A28	" " " "	" " " " " "	A-20	91
9755-A34	" " " "	" " " " " "	A-20	91
9756-A	" " and Dwg	Gage—oil pressure	B-5	37
9779-A-8	" " " "	" unit—engine	AN5774	8
9779-A-15	" " " "	" " " " " "	AN5774	8
10017-1-A	" " " "	Tube—single throat power venturi	AN5805-1	164
10017-2-A	" " " "	" " " " " "	AN5805-1	164
10057-A-8	" " " "	Gage unit—engine	AN5774	8
10057-A-15	" " " "	" " " " " "	AN5774	8
10057-A-22	" " " "	" " " " " "	AN5774	8
10058-A	" " " "	" —hydraulic pressure—landing gear	E-4	34
10059-A	" Dwg	" —oil pressure	AN5771-2	38
10061-1A-A1	" Part and Dwg	Indicator—remote indicating magnetic compass	AN5730-2A	275
10061-1A-A2	" " " "	" " " " " "	AN5730-2A	275
10061-1D-A1	" " " "	" " " " " "	AN5730-2A	275
10061-1D-A2	" " " "	" " " " " "	AN5730-2A	275
10061-1E-A1	" " " "	" " " " " "	AN5730-2A	275



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
10061-1E-A2	Mfr's Part and Dwg	Indicator—remote indicating magnetic compass	AN5730-2A	275
10061-1E-B1	" " " "	" " " "	AN5730-2A	275
10061-1H-A1	" " " "	" " " "	AN5730-6	270
10061-1H-A1	" " and Dwg	" " " "	AN5730-2A	275
10061-1L-B1	" " " "	" " " "	AN5730-2A	275
10065-1A-A-1	" " " "	" " " "	AN5730-2A	275
10098-A	" " " "	Gage—fuel pressure	AN5771-1	27
10177-A	" " " "	Indicator—capillary thermometer	A-20	91
10185-A	" " " "	Gage—automatic pilot oil pressure	AN5771-6	23
10219	" " " "	Indicator assembly—fuel mixture	A-7	12
10219	" " " "	" " " "	A-7A	13
10219	" " " "	" " " "	B-5A	14
10219	" " " "	" " " "	B-6	16
10219	" " " "	" " " "	B-6A	18
10221	" Dwg	Flange—mounting		11
10226-A	" Part and Dwg	Gage—oil pressure (dual)	AN5772-2	36
10228-A	" Dwg	" " " "	AN5771-2	38
10229-A-8	" Part and Dwg	Gage unit—engine	AN5774	8
10229-A-15	" " " "	" " " "	AN5774	8
10229-A-22	" " " "	" " " "	AN5774	8
10230-A	" " " "	" —hydraulic pressure—landing gear	AN5771-4	35
10231-A	" " " "	" —automatic pilot oil pressure	AN5771-6	23
10232-A	" " " "	" —fuel pressure	AN5771-1	27
10281-A-8	" " " "	" unit—engine	AN5774	8
10281-A-15, 22	" " " "	" " " "	AN5774	8
10283-A	" " " "	Indicator—single thermometer	AN5790-6	89
10284-A	" " and Dwg	" —dual electric thermometer	A-25	94
10284-A	" " " "	" " thermometer	AN5795-6	90
10322-A	" Dwg	Gage unit—engine (electrical thermometer)	AN5773-1	9
11606	" Part and Dwg	Indicator assembly—fuel mixture	A-7	12
11607	" " " "	" " " "	B-6	16
11609	" " " "	" " " "	B-6	16
11609-1	" " " "	" " " "	B-6	16
11622	" " " "	" " " "	A-7	12
11622-1	" " " "	" " " "	A-7	12
11627	" " " "	" " " "	A-7	12
11627	" " " "	" " " "	B-6	16
11734	" " " "	Aircraft sextants		281
12001-1A-A-1	" " " "	Indicator—gyro flux gate compass master	AN5752-1	269
12002-1-A	" " " "	Transmitter—gyro flux gate compass	AN5751-1	271
12003-1-A	" " " "	Amplifier—gyro flux gate compass	AN5753-1	267
12117-6-A	" " " "	Indicator—remote indicating magnetic compass	AN5730-2A	275
12117-6-A	" " " "	Inverter—remote reading magnetic compass	12117-6-A	277
12117-6-A	" " " "	Remote indicating magnetic compass		274
12656	" " and Dwg	Indicator assembly—fuel mixture	B-6	16
12661	" " " "	" " " "	A-7	12
13077	" " " "	" " " "	A-7A	13
13077	" " " "	" " " "	B-5A	14
13078	" " " "	" " " "	B-6A	18
13079	" " " "	" " " "	B-5A	14
13079	" " " "	" " " "	B-6A	18
13080	" " " "	" " " "	A-7A	13
13081	" " " "	" " " "	A-7A	13
13082	" " " "	" " " "	B-6A	18
13151	" " " "	" " " "	B-5A	14
13362	" " " "	Filter—turn and bank indicator air	AN5821-1	230
13439	" " " "	Indicator assembly—fuel mixture	E-7A	13
13439	" " " "	" " " "	B-5A	41
13451	" " " "	" " " "	A-7A	13



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
13500	Mfr's Part and Dwg	Indicator assembly-fuel mixture	B-6A	18
13552	" " " "	" " " "	B-5A	14
13771	" " " "	" " " "	B-6A	18
14102	A. A. F. Spec.	Instrument lighting and dial markings		1
14111	" " " "	" " " "		1
14112	" " " "	" " " "		1
21500	Mfr's Model	Indicator—turn and bank	C-1	252
22809-S-12	" "	Clock—7 jewel unlighted	A-11	259
24330	" Model, Part, and Dwg	Filter—air	AN5822-1	229
27300	Mfr's Model, Part, and Dwg	" "	AN5822-1	229
27311	A. A. F. Spec.	Generator—screw mount tachometer	E-12	81, 82
27311	" "	Indicator—tachometer	E-12	83
27314	" "	Valve—air vapor control	32100	286
27321	" "	Bulb—resistance thermometer (short)	AN5525-1	117
27321	" "	" " " " (long)	AN5525-2	118
27328	" "	Thermometer—bimetal direct reading	C-13A	104
27329	" "	Amplifier—aileron servo		205
27329	" "	" constant altitude control		207
27329	" "	" —directional gyro follow-up		203, 220
27329	" "	" —elevator servo		206
27329	" "	" —rudder servo		204
27329	" "	Control—directional gyro		194, 219
27329	" "	" —constant altitude		202
27329	" "	" —vertical gyro		196
27329	" "	Controller—navigator's turn		218
27329	" "	" —turn		200
27329	" "	Indicator—pilot director		199
27329	" "	Mount—directional gyro control		195
27329	" "	" —vertical gyro control		197
27329	" "	Panel—control		198
27329	" "	Rack—amplifier		201
27329	" "	Servo—aileron		217
27329	" "	" —aileron or rudder		209, 210, 211
27329	" "	" —elevator		212, 213, 214
27329	" "	" —trim tab		215
27333-A	" "	Inclinometer	B-2	156
27337A	" "	Indicator—turn and bank	C-1	252
27349	" "	Filter—turn and bank indicator air	AN5821-1	230
27353	" "	Tachometer—chronometric	C-11	71
27358	" "	Control—directional gyro		194, 219
27358	" "	Mount—directional gyro control		195
27359	" "	Control—vertical gyro		196
27359	" "	Mount—vertical gyro control		197
27360	" "	Amplifier—aileron servo		205
27360	" "	" —constant altitude control		207
27360	" "	" —directional gyro follow-up		203, 220
27360	" "	" —elevator servo		206
27360	" "	" —rudder servo		204
27360	" "	Control—constant altitude		202
27360	" "	Rack—amplifier		201
27361	" "	Servo—aileron		217
27361	" "	" " or rudder		209, 210, 211
27361	" "	" —elevator		212, 213, 214
27362	" "	" —trim tab		215
27363	" "	Controller—navigator's turn		218
27363	" "	" —turn		200
27364	" "	Panel—control		198



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
27365	A. A. F. Spec.	Indicator—pilot director		199
27378	" "	Tube—pitot airspeed	G-1	144
27380	" "	Airspeed tubes		137
27382	" "	Altimeter—pressure	B-12	149
27383-A	" "	Transmitter assembly—fuel or oil pressure	AN5765-1	20
27393	" "	Indicator—directional gyro	C-1	239
27393A	" "	" " "	C-1	239
27394	" "	" —gyro horizon	E-1	245
27394A	" "	" " "	E-1	245
27400	Mfr's Dwg and Model	Filter—oil		179
27402	" " " "	Meter—drift	B-5	284
27404	A. A. F. Spec.	Astrograph 8	A-1	253
27404	" "	Ring—astrograph mounting		254
27418	" "	Altimeter—pressure	B-11	148
27423	" " and			
	Navy Spec.	Gage unit—engine (electrical thermometer)	AN5773-1	9
27431	A. A. F. Spec.	Adapter—turbosupercharger tachometer drive		85
27432	" "	Shaft—tachometer generator drive	A-3	86
27800	" "	Indicator—directional gyro	A-3	232
27801	" "	" " "	B-3	236
27802A	" "	" —gyro horizon	C-5	241
27803A	" "	" —turn and bank	A-5	248
27804	" "	" —airspeed	C-7	129
27805	" "	" " "	D-4	131
27811	" "	Gage—manifold pressure	D-2	42
27816	" "	Tachometer—chronometric	C-7	69
27817	" "	Generator—screw mount tachometer	E-4	72
27817	" "	Indicator—tachometer	E-4	73
27857	" "	Altimeter—pressure	C-11	150
27879	" "	Clock—7 jewel lighted	A-9	255
27923	" "	Gage—suction	F-3	53
27936	" "	Indicator—manifold pressure	D-8A	48
27936	" "	Transmitter—manifold pressure	D-8	47
27936	" "	" " " "	D-8A	49
27944	" "	Indicator—dual thermometer	F-7	109
27944	" "	Transmitter—thermometer	F-7	110
27946	" "	Indicator—dual thermometer	A-22	92
27946	" "	Transmitter—thermometer	A-22	93
27955	" "	Indicator—turn and bank	A-8	249
27956	" "	" —rate-of-climb	A-7	159
27961	" "	Clock—13 jewel	A-10	256
27980	" "	Mount—gyro control		181
27980	" "	" —remote control gyro control		185
27985	" "	Valve—speed control		176
27990	" "	Indicator—electric thermometer	C-12	108
27991	" "	" —electrical thermometer	F-9	113
27996	" "	" —remote indicating magnetic compass	AN5730-2A	275
27997	" "	" —dual electric thermometer	F-10	116
27998	" "	" " " " "	A-24	98
27999	" "	" " " " "	A-25	94
28102	Mfr's Part and Dwg	Filter—air	AN5822-1	229
28429	A. A. F. Spec.	Eliminator—fuel system air vapor	A-6	285
28668	Mfr's Part and Dwg	Filter—air	AN5822-1	229
28768	" Dwg	" —oil		178
29499	" Part and Dwg	Aircraft sextants		281
31484	" " " "	Gage—oil pressure (dual)	AN5772-2	36
31832	" " " "	" —manifold pressure (dual)	AN5770-2	45
31833	" " " "	" —fuel pressure (dual)	AN5772-1	28
31848	" " " "	" " " " "	AN5722-2	36





## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
31854	Mfr's Part and Dwg	Gage—manifold pressure (dual)	AN5770-2	45
31855	" " " "	" —fuel pressure (dual)	AN5772-1	28
32040	" " " "	Valve—air vapor control	32100	286
32075	" " " "	" " " "	32100	286
32100	" " " "	" " " "	32100	286
32175-A	A. A. F. Spec.	Signal—fuel pressure	C-2	57
32191	" " " "	Ammeter	D-2	119
32204-B	" " " "	Shunt—ammeter	E-1	121
32204-B	" " " "	" " " "	F-1	123
32284	" " " "	Ammeter	F-1	122
32382	" " " "	Voltmeter—aircraft	C-1	125
32390	" " " "	Signal—altitude warning	H-2	60
32450	Mfr's Dwg	Indicator—airspeed	C-14	130
32600	" " and Part	Transmitter—assembly—fuel or oil pressure	AN5765-1	20
33200	" Part	Indicator—electric thermometer	F-8	112
33201	" " " "	" —single electric thermometer	A-23	96
33204	" " " "	" " thermometer	AN5790-6	89
33205	" " " "	" —dual thermometer	AN5795-6	90
33206	" " " "	" —single electric thermometer	C-11	106
33207	" " " "	" —dual electric thermometer	A-24	98
33208	" " " "	" " " "	F-10	116
33310	" " " "	" —single thermometer	AN5790-6	89
33351	" " " "	Gage unit—engine (electrical thermometer)	AN5773-1	9
33400	" " and Dwg	Indicator—dual electric thermometer	A-25	94
37590	" " " "	Clock—civil date elapsed time	AN5741-1	256
38153	" Dwg	Gage—manifold pressure	AN5770-1	44
39222	N. A. F. Dwg	Tube—single throat power venturi	AN5805-1	164
39965	" " " "	Gage—manifold pressure	D-2	42
39972	" " " "	Indicator—directional gyro	AN5735-1	235
43689	Mfr's Model and Dwg	Regulator—oil pressure		177
60011	" Part	Indicator—dual electric thermometer	F-10	116
60012	" " " "	" " " "	A-24	98
60014	" " " "	" —single thermometer	AN5790-6	89
60015	" " " "	" —thermometer	AN5795-6	90
60016	" Dwg and Part	" —dual electric thermometer	A-25	94
60017-A	" Part	" " " "	A-24	98
76516	" Model, Part and Dwg	Filter—air	AN5822-1	229
76548	Mfr's Part and Dwg	Generator—screw mount tachometer	E-4	72
76571	" Dwg (outline)	Control—directional gyro		170
76577	" " " "	Servo—6 inch stroke push-pull	644180	192
76608	" " " "	Valve—transfer		191
76627	" " " "	" —speed control		176
77042	" " " "	Panel—control		198
77175	" " " "	Rack—amplifier		201
77554	" " " "	Servo—trim tab		215
86864	" Part and Dwg	Indicator—tachometer	E-4	73
86884	" " " "	" —thermocouple thermometer	B-7	103
86884	" " " "	" " " "	B-9	100
89567	" " and Dwg	" —tachometer	E-4	73
89878	" Dwg (outline)	Trap—drain oil		175
90254	" Part and Dwg	Voltmeter—aircraft	B-1	124
90595	" " " "	Ammeter	E-1	120
92036	" " " "	" " " "	D-2	119
92039	" Model and Dwg	Shunt—ammeter	E-1	121
92431	" " " "	" " " "	F-1	123
92464	" Part and Dwg	Voltmeter—aircraft	B-1	124
93144	" Ass'y Dwg	Indicator—electric thermometer	C-10	105
93144	" " " "	" " " "	C-12	107



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
93144	Mfr's Ass'y Dwg	Indicator—single electric thermometer	C-11	106
93195	" Part	Bulb—resistance thermometer (short)	AN5525-1	117
93195	" "	Indicator—dual electric thermometer	F-10	115
93195	" "	" —electric thermometer	C-10	105
93195	" "	" " " "	C-12	107
93195	" "	" " " "	F-8	111
93195	" "	" " " "	F-9	113
93195	" "	" —single electric thermometer	C-11	106
94176	" "	Bulb—resistance thermometer (short)	AN5525-1	117
94176	" "	Indicator—dual electric thermometer	F-10	115
94176	" "	" —electric thermometer	C-10	105
94176	" "	" " " "	C-12	107
94176	" "	" " " "	F-8	111
94176	" "	" " " "	F-9	113
94176	" "	" —single electric thermometer	C-11	106
94177	" "	Bulb—resistance thermometer (short)	AN5525-1	117
94177	" "	Indicator—dual electric thermometer	F-10	115
94177	" "	" —electric thermometer	C-10	105
94177	" "	" " " "	C-12	107
94177	" "	" " " "	F-8	111
94177	" "	" " " "	F-9	113
94177	" "	" —single electric thermometer	C-11	106
96200	" " and Dwg	Thermometer—bimetal direct reading	C-13, C-13A	104
96317	" " " "	" " " "	C-13, C-13A	104
96356	" " " "	" " " "	C-13, C-13A	104
96362	" " " "	" " " "	C-13, C-13A	104
100732	" "	Bulb—resistance thermometer (long)	AN5525-2	118
100732	" "	Indicator—dual electric thermometer	A-24	97
100732	" "	" " " "	A-25	94
100732	" "	" " " "	F-10	115
100732	" "	" —electrical thermometer	F-8	111
100732	" "	" —single electric thermometer	F-9	113
100732	" "	" —single electric thermometer	A-23	95
100731	" "	Bulb—resistance thermometer (long)	AN5525-2	118
101731	" "	Indicator—dual electric thermometer	A-24	97
101731	" "	" " " "	A-25	94
101731	" "	" " " "	F-10	115
101731	" "	" —electric thermometer	F-8	111
101731	" "	" —electrical thermometer	F-9	113
101731	" "	" —single electric thermometer	A-23	95
102114	" "	" —electric thermometer	F-8	112
102116	" "	" —single electric thermometer	A-23	96
102130	" "	" —electrical thermometer	F-9	114
102134	" "	" —electric thermometer	C-12	108
102138	" "	" —single electric thermometer	C-11	106
102172	" "	Bulb—resistance thermometer (long)	AN5525-2	118
102172	" "	Indicator—dual electric thermometer	A-24	97
102172	" "	" " " "	A-25	94
102172	" "	" " " "	F-10	115
102172	" "	" —electric thermometer	F-8	111
102172	" "	" —electrical thermometer	F-9	113
102172	" "	" —single electric thermometer	A-23	95
102182	" " and Dwg	" —electrical wheel and flap position	A-2	63
102183	" " " "	Transmitter—electrical wheel and flap position	A-2	64
102316	" "	Indicator—thermocouple thermometer	B-7	103
102316	" "	" " " "	B-9	100
102319	" "	" —dual thermocouple thermometer	B-11	102
102330	" "	" —electric thermometer	C-10	105
102341	" " and Dwg	" assembly—fuel mixture	A-7	12



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
102341	Mfr's Part and Dwg	Indicator assembly—fuel mixture	A-7A	13
102459	" " " "	" —tachometer	E-12	83
102491	" " " "	Ammeter	F-1	122
102594	" " " "	Generator—screw mount tachometer	E-12	81, 82
102801	" " " "	Indicator—electrical wheel and flap position	A-2	63
103094	" " and Dwg	" assembly—fuel mixture	B-6	16
103094	" " " "	" " " " " " " "	B-6A	18
103106	" " " "	" —dual electric thermometer	F-10	116
103107	" " " "	" " " " " " " "	A-24	98
103354	" " and Dwg	" —electrical wheel and flap position	A-2	62
103357	" " " "	" " " " " " " "	A-2	62
103710	" " " "	Bulb—resistance thermometer (long)	AN5525-2	118
103710	" " " "	Indicator—dual electric thermometer	A-24	97
103710	" " " "	" " " " " " " "	A-25	94
103710	" " " "	" " " " " " " "	F-10	115
103710	" " " "	" —electric thermometer	F-8	111
103710	" " " "	" —electrical thermometer	F-9	113
103710	" " " "	" —single electric thermometer	A-23	95
105290	" " and Dwg	Generator—screw mount tachometer	E-12	81, 82
106346	" " " "	Bulb—resistance thermometer (short)	AN5525-1	117
106346	" " " "	Indicator—dual electric thermometer	F-10	115
106346	" " " "	" —electric thermometer	C-10	105
106346	" " " "	" " " " " " " "	C-12	107
106346	" " " "	" " " " " " " "	F-8	111
106346	" " " "	" —electrical thermometer	F-9	113
106346	" " " "	" —single electric thermometer	C-11	106
106347	" " " "	Bulb—resistance thermometer (long)	AN5525-2	118
106347	" " " "	Indicator—dual electric thermometer	A-24	97
106347	" " " "	" " " " " " " "	A-25	94
106347	" " " "	" " " " " " " "	F-10	115
106347	" " " "	" —electric thermometer	F-8	111
106347	" " " "	" —electrical thermometer	F-9	113
106347	" " " "	" —single electric thermometer	A-23	95
106415	" " " "	" —electric thermometer	C-10	105
106415	" Ass'y Dwg	" — " " " "	C-12	107
106415	" " No.	" —single electric thermometer	C-11	106
106497	" Part	" " " " " " " "	C-11	106
106498	" " " "	" —electric thermometer	C-12	108
106499	" " " "	" —electrical thermometer	F-9	114
106801	" " " "	" — " " wheel and flap position	A-2	63
106802	" " and Dwg	" " " " " " " "	A-2	62
106803	" " " "	Transmitter—electrical wheel and flap position	A-2	64
108260	" " " "	Indicator—single electric thermometer	A-23	96
108261	" " " "	" —electric thermometer	F-8	112
108303	" " " "	" " " " " " " "	C-10	105
108369	" Dwg	" —electrical wheel and flap position	AN5780-1	66
108370	" Part and Dwg	" " " " " " " "	AN5780-2	65
108525	" Dwg	Transmitter—electrical wheel and flap position	AN5758-1	67
109526	" Part and Dwg	Indicator assembly—fuel mixture	B-5A	14
110077	" " " "	" —single electric thermometer	A-23	96
110077	" " " "	" " thermometer	AN5790-6	89
110430	" " " "	" —thermocouple thermometer	B-7	103
110430	" " " "	" " " " " " " "	B-9	100
110507	" " " "	" —dual thermocouple thermometer	B-11	102
110586	" " " "	" —thermocouple thermometer	B-11	102
110612	" " " "	" —dual thermometer	AN5795-6	90
111601	" Dwg	" —electrical wheel and flap position	AN5780-1	66
111602	" " and Part	" " " " " " " "	AN5780-2	65
140305	" " " "	Tube—double throat power venturi	AN5807-1	165



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
150774	Mfr's Dwg (outline)	Control—turn (remote indicator)	B-4	238
162702	" "	Pulley—follow-up	"	182
162703	" "	" "	"	182
166312	" " (outline)	Control—vertical gyro	"	190
166418	" " "	" —directional gyro	"	189
178846	" "	Pulley—follow-up	"	182
178847	" "	" "	"	182
178848	" "	" "	"	182
178849	" "	" "	"	182
178850	" "	" "	"	182
178855	" "	" "	"	182
178857	" "	" "	"	182
178858	" Part	" "	"	182
178859	" "	" "	"	182
178860	" "	" "	"	182
310515-1	N. A. F. Dwg No.	Gage—suction	AN5771-5	55
640159	Mfr's Part and Dwg	Tube—double throat power venturi	AN5807-1	165
640541	" " " "	" " " " " "	AN5807-1	165
640541J	" " " "	" " " " " "	AN5807-1	165
640600	" " " "	" " " " " "	AN5807-1	165
641362	" " " "	Indicator—directional gyro	AN5735-1	235
641775	" " " "	Trap—drain oil	"	175
642805	" " " "	Indicator—directional gyro	A-3	232
642919	" " " "	" " " "	B-3	236
642921	" " " "	" —gyro horizon	C-5	241
643580	" " " "	Control—vertical gyro	"	190
643770	" " " "	Indicator—gyro horizon	C-5	241
643902	" " " "	Control—directional gyro	"	189
643915	" " " "	" " " "	"	170
643916	" " " "	" —vertical gyro	"	171
643917	" " " "	Mount—gyro control	"	172
644100	" Dwg and Model	Filter—oil	"	178
644180	" Part	Servo—6 inch stroke push-pull	644180	192
644191	" " and Dwg	" —8 inch stroke gang	"	179
644192	" " " "	" —11 inch stroke gang	"	180
644230	" " " "	Valve—transfer	644230	191
644255	" Model and Dwg	" —speed control	"	176
644256	" " " "	Regulator—oil pressure	"	177
644354	" Dwg (outline)	Control—vertical gyro	"	171
644359	" " " "	Servo—8 inch stroke gang	"	179
644360	" " " "	" —11 inch stroke gang	"	180
644393	" " " "	Mount—gyro control	"	172
644707	" " " "	Mount—remote control gyro control	"	185
644729	" " and Part	Indicator—gyro horizon	AN5736-1	243
644730	" " " "	" —directional gyro	AN5735-1	235
644772	" " " "	" " " "	B-4	237
644834	" " " "	Controller—navigator's turn	"	218
644835	" " " "	Amplifier—directional gyro follow-up	"	203
644836	" " " "	Panel—control	"	198
644838	" " and Part	Amplifier—aileron servo	"	205
644841	" " " "	Control—vertical gyro	"	196
644842	" " " Model	" —directional gyro	"	194
644887	" " " Part	" —turn (remote indicator)	B-4	238
644890	" Part and Dwg	Rack—amplifier	"	201
645010	" " " "	Control—constant altitude	"	202
645061	" Dwg (outline)	Servo—elevator	"	213
645095	" " " "	" —aileron or rudder	"	210
645263	" " and Part	Mount—directional gyro control	"	195
645318	" " " "	Control—remote control directional gyro	"	184





## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
645391	Mfr's Dwg and Part	Indicator—gyro horizon	AN5736-1	243
645918	“ “ “ “	Mount—vertical gyro control		197
645919	“ “ “ “	Amplifier—elevator servo		206
645996	“ “ “ “	Gear—flexible shaft angle		186
646040	“ “ and Part	Indicator—gyro horizon	AN5736-1	243
646050	“ “ “ “	“ —directional gyro	AN5735-1	235
646065	“ “ “ “	Servo—aileron or rudder		211
646235	“ “ “ “	Amplifier—constant altitude control		207
646400	“ “ “ “	Controller—banked turn		187
646454	“ “ and Part	Servo—elevator		214
646852	“ “ “ “	“ “		212
646853	“ “ and Part	“ —aileron or rudder		209
647322	“ “ (outline)	Control—vertical gyro		196
647322	“ “ “ “	Mount—vertical gyro control		197
647323	“ “ “ “	Control—directional gyro		194
647323	“ “ “ “	Mount—directional gyro control		195
647409	“ “ and Part	Controller—turn		200
647900	“ “ “ “	Indicator—gyro horizon	AN5736-2	246
647910	“ “ “ “	“ —directional gyro	AN5735-2	233
647883	“ “ “ “	Filter—oil		178
647984	“ “ “ “	“ —air	AN5822-1	229
648010	and Model	“ —air	AN5822-1	229
648010	Mfr's Model and Part	Control—directional gyro		170
648011	“ Part and Dwg	“ —vertical gyro		171
648012	“ “ “ “	“ —remote control directional gyro		184
648039	“ Model and Dwg	Filter—oil		178
648045	“ “ “ “	Control—vertical gyro		190
648046	“ Part and Dwg	“ —directional gyro		189
648558	“ “ “ “	Servo—aileron		217
648558	“ “ “ “	“ “ or rudder		211
656029	“ “ and Dwg	Control—directional gyro		219
656030	“ “ “ “	Amplifier—directional gyro follow-up		220
656044	“ “ “ “	“ —rudder servo		204
657069	“ “ “ “	Indicator—directional gyro	C-1	239
657070	“ Dwg	“ —gyro horizon	E-1	245
800867	“ “ (outline)	Filter—oil		178
801011	“ “ and Part	Block—manifold		174
801063	“ “ (outline)	Regulator—oil pressure		177
801989	“ “ “ “	Controller—navigator's turn		218
803135	“ “ “ “	Indicator—pilot director		199
1163617	“ Part	“ —single thermometer	AN5790-6	89
1163618	“ “	“ —dual thermometer	AN5795-6	90
1203126	“ “	Ammeter	D-2	119
1205851	“ “	“	E-1	120
1205852	“ Model	“	F-1	122
1205853	“ Part	Voltmeter—aircraft	B-1	124
1209236	“ Model	“ “	C-1	125
1210196	“ “	Shunt—ammeter	E-1	121
1210197	“ “	“ “	F-1	123
1214448	“ “	Tube—pitot-static airspeed	AN5816-2	141
4149507	“ Dwg and Part	Indicator—electrical wheel and flap position	A-2	62, 63
4149608	“ “	Transmitter—electrical wheel and flap position	A-2	64
4149608	“ “	“ “ “ “ “ “ “ “	AN5785-1	67
4149660	“ “	Indicator—electrical wheel and flap position	AN5780-1	66
8254205-G1	“ “	Servo—6 inch stroke push-pull		192
8292141-G1	“ “	Regulator—oil pressure		177
48233200	A. S. C. Stock	Eliminator—fuel system air vapor	A-6	285
48286800	“ “	Signal—fuel pressure	C-2	58
48286809	“ “	“ “ “ “	C-2	58



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
482332040	A. S. C. Stock	Valve—air vapor control	32100	286
482332075	“ “	“ “ “ “	32100	286
483232100	“ “	“ “ “ “	32100	286
483331202A	“ “	Signal—fuel pressure	C-2	58
483331203A	“ “	“ “ “ “	C-2	58
483331231A	“ “	“ “ “ “	C-2	58
483331233A	“ “	“ “ “ “	C-2	58
6000001290	“ “	Accelerometer aircraft	AN5745-2	126
6000001300	“ “	“ “	AN5745-2	126
6000001315	“ “	“ “	AN5745-2	126
6000008977	“ “	Altimeter—pressure	AN5760-1	152
6000011165	“ “	“ “	B-12	149
6000015000	“ “	“ “	C-11	150
6000015260	“ “	“ “	AN5760-2	151
6000015262	“ “	“ “	AN5760-2	151
6000015290	“ “	“ “	AN5760-1	152
6000015310	“ “	“ “	AN5761-1	154
6000015315	“ “	“ “	AN5761-1	154
6000015360	“ “	“ “	AN5760-4	155
6000024300	“ “	Amplifier—directional gyro follow-up		203
6000024305	“ “	“ “ “ “		220
6000024320	“ “	“ —constant altitude control		207
6000024385	“ “	“ —rudder servo		204
6000024400	“ “	“ —aileron servo		205
6000024450	“ “	“ —elevator servo		206
6000024500	“ “	“ —gyro flux gate compass	AN5753-1	267
6000036150	“ “	Bulb—resistance thermometer (short)	AN5525-1	117
6000052500	“ “	Clock—7 jewel lighted	A-9	255
6000052510	“ “	“ 7 “ “	A-9	255
6000052750	“ “	“ —7 “ “	A-9	255
6000052765	“ “	“ —13 jewel	A-10	256
6000052800	“ “	“ —7 jewel unlighted	A-11	259
6000052830	“ “	“ —7 “ “	A-11	259
6000052850	“ “	“ —7 “ “	A-11	258
6000052890	“ “	“ —7 “ “	A-11	259
6000059250	“ “	Compass—navigator's	D-12	265
6000059275	“ “	“ “	D-12	265
6000059500	“ “	“ “	D-12	265
6000059550	“ “	“ “	D-12	265
6000060000	“ “	“ “	D-12	265
6000067450	“ “	“ —pilot's	AN5733-1	263
6000067455	“ “	“ “	AN5733-1	263
6000067460	“ “	“ “	AN5733-1	263
6000067465	“ “	“ “	AN5733-1	263
6000067475	“ “	“ “	AN5733-1	263
6000067500	“ “	“ “	AN5733-1	263
6000067750	“ “	“ “	AN5733-1	263
6000068000	“ “	“ “	AN5733-1	263
6000068750	“ “	“ “	B-17	264
6000069000	“ “	“ “	B-17	264
6000093950	“ “	Control—vertical gyro		190
6000094250	“ “	“ “ “ “		171
6000094450	“ “	“ “ “ “		171
6000094475	“ “	“ “ “ “		190
6000094875	“ “	“ “ “ “		171
6000094920	“ “	“ “ “ “		196
6000095570	“ “	“ —directional gyro		189
6000096500	“ “	“ “ “ “		170
6000096515	“ “	“ “ “ “		170



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6000096520	A. S. C. Stock	Control—remote control directional gyro		184
6000096530	" "	" " " " " "		184
6000096555	" "	" —directional gyro		170
6000096558	" "	" " " "		189
6000096560	" "	" " " "		194
6000096570	" "	Servo—aileron		217
6000096570	" "	" " or rudder		211
6000096575	" "	Control—directional gyro		219
6000096580	" "	Servo—6 inch stroke push-pull	644180	192
6000096600	" "	Control—constant altitude		202
6000096620	" "	Servo—elevator		213
6000096630	" "	" " " "		214
6000096645	" "	" —trim tab		215
6000096660	" "	Control—gyro flux gate manual caging	AN5755-1	273
6000096675	" "	" " " " compass electrical caging	AN5754-1	268
6000097071	" "	Servo—elevator		212
6000097072	" "	" —aileron or rudder		209
6000097120	" "	" —electric	D-1	221
6000097275	" "	" — 8 inch stroke gang		179
6000097320	" "	" — 8 " " " "		179
6000097335	" "	" —11 " " " "		180
6000097380	" "	" —11 " " " "		180
6000098400	" "	" —aileron or rudder		210
6000098450	" "	" " " " " "		211
6000098470	" "	Controller—turn		200
6000099685	" "	" —banked turn		187
6000099700	" "	" —navigator's turn		218
6000100350	" "	Control—turn (remote indicator)		238
6000103700	" "	Filter—air	AN5822-1	229
6000103750	" "	" " " " " "	AN5822-1	229
6000103760	" "	" " " " " "	AN5822-1	229
6000103800	" "	" " " " " "	AN5822-1	229
6000103850	" "	" " " " " "	AN5822-1	229
6000103875	" "	" " " " " "	AN5822-1	229
6000104050	" "	" —oil		178
6000104060	" "	" " " " " "		178
6000104075	" "	" " " " " "		178
6000104100	" "	" " " " " "		178
6000104200	" "	" " " " " "		178
6000107503	" "	Gage—automatic pilot oil pressure	AN5771-6	23
6000107503-5	" "	" " " " " "	AN5771-6	23
6000107504	" "	" " " " " "	AN5771-6	23
6000107505	" "	" " " " " "	AN5771-6	23
6000107508	" "	" " " " " "	AN5771-6	23
6000107509	" "	" " " " " "	AN5771-6	23
6000109500	" "	" —de-icing pressure	G-1	24
6000109750	" "	" " " " " "	G-1	24
6000110012	" "	" " " " " "	AN5771-3	25
6000110015	" "	" " " " " "	AN5771-3	25
6000110019	" "	" " " " " "	AN5771-3	25
6000119250	" "	" —hydraulic pressure—landing gear	AN5771-4	35
6000119374	" "	" " " " " "	E-4	34
6000119375	" "	" " " " " "	E-4	34
6000119815	" "	" " " " " "	AN5771-4	35
6000122000	" "	" " " " " "	E-3	33
6000122250	" "	" " " " " "	E-3	33
6000122275	" "	" " " " " "	E-3	33
6000122490	" "	" " " " " "	E-3	33
6000122500	" "	" " " " " "	E-3	33
6000122775	" "	" " " " " "	E-4	34



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6000132175	A. S. C. Stock	Gage—suction	F-2	52
6000133750	“ “	“ “	F-2	52
6000134000	“ “	“ “	F-2	52
6000134250	“ “	“ “	F-2	52
6000134510	“ “	“ “	F-3	54
6000134517	“ “	“ “	F-3	54
6000134535	“ “	“ “	AN5771-5	55
6000134535	“ “	“ “	F-3	54
6000134540	“ “	“ “	AN5771-5	55
6000134540	“ “	“ “	F-3	54
6000134547	“ “	“ “	AN5771-5	55
6000134547	“ “	“ “	F-3	54
6000134554	“ “	“ “	AN5771-5	55
6000134554	“ “	“ “	F-3	54
6000135530	“ “	“ “	AN5771-5	55
6000135530	“ “	“ “	F-3	54
6000172275	“ “	Inclinometer	B-2	156
6000172290	“ “	“	B-2	156
6000174700	“ “	Indicator—airspeed	F-1	134
6000176725	“ “	“ “	B-8	128
6000176785	“ “	“ “	B-8	128
6000180250	“ “	“ “	C-7	129
6000180500	“ “	“ “	C-7	129
6000180750	“ “	“ “	C-7	129
6000182725	“ “	“ “	C-14	130
6000182735	“ “	“ “	C-14	130
6000182750	“ “	“ “	C-14	130
6000182755	“ “	“ “	C-14	130
6000184250	“ “	“ “	D-4	131
6000184750	“ “	“ “	D-4	131
6000185450	“ “	“ “	D-6	132
6000185530	“ “	“ “	D-7 p	133
6000185535	“ “	“ “	D-7	133
6000185595	“ “	“ “	F-1	134
6000186850	“ “	“ “	F-1	134
6000186905	“ “	“ “	F-2	135
6000186910	“ “	“ “	F-2	135
6000186920	“ “	“ “	F-2	135
6000193250	“ “	“ —turn and bank	A-5	248
6000193500	“ “	“ “ “ “	A-5	248
6000193625	“ “	“ “ “ “	A-5	248
6000193750	“ “	“ “ “ “	A-5	248
6000194765	“ “	“ “ “ “	A-8	249
6000194770	“ “	“ “ “ “	A-8	249
6000194900	“ “	“ “ “ “	AN5820-1	250
6000194935	“ “	“ “ “ “	AN5820-1	250
6000194950	“ “	“ “ “ “	AN5820-1	250
6000195000	“ “	“ “ “ “	AN5820-1	250
6000195200	“ “	“ “ “ “	AN5820-1	250
6000195200	“ “	“ “ “ “	AN5820-2	251
6000195850	“ “	“ “ “ “	C-1	252
6000196000	“ “	“ “ “ “	C-1	252
6000198050	“ “	“ —directional gyro	AN5735-2	233
6000198075	“ “	“ “ “ “	AN5735-1	235
6000198085	“ “	“ “ “ “	AN5735-1	235
6000198100	“ “	“ “ “ “	AN5735-1	235
6000198325	“ “	“ “ “ “	A-3	232
6000207000	“ “	“ —gyro horizon	C-5	241
6000207250	“ “	“ “ “ “	C-5	241





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6000207580	A. S. C. Stock	Indicator—gyro horizon	AN5736-1	243
6000207585	“ “	“ “ “	AN5736-1	243
6000207875	“ “	“ “ “	E-1	245
6000218500	“ “	“ “ “	AN5736-1	243
6000218550	“ “	“ “ “	AN5735-2	246
6000218570	“ “	—directional gyro	C-1	239
6000218575	“ “	—gyro horizon	E-1	244
6000218700	“ “	— “ “	AN5736-1	243
6000218750	“ “	“ “ “	AN5736-1	243
6000224500	“ “	“ flux gate compass master	AN5752-1	269
6000225950	“ “	—pilot director		199
6000228400	“ “	—electrical wheel and flap position	A-2	63
6000228503	“ “	“ “ “ “ “ “	A-2	62
6000228504	“ “	“ “ “ “ “ “	A-2	63
6000228504-6	“ “	“ “ “ “ “ “	A-2	63
6000228504-7	“ “	“ “ “ “ “ “	A-2	62
6000228504-54	“ “	“ “ “ “ “ “	A-2	62
6000228504-55	“ “	“ “ “ “ “ “	A-2	63
6000228505	“ “	“ “ “ “ “ “	A-2	62
6000228512	“ “	“ “ “ “ “ “	AN5780-2	65
6000228513	“ “	“ “ “ “ “ “	AN5780-1	66
6000228514	“ “	“ “ “ “ “ “	AN5780-2	65
6000228514-4	“ “	“ “ “ “ “ “	AN5780-1	66
6000228514-5	“ “	“ “ “ “ “ “	AN5780-2	65
6000228825	“ “	—rate-of-climb	AN5825-1	162
6000228863	“ “	“ “	AN5825-1	162
6000228915	“ “	“ “	A-7	159
6000228920	“ “	“ “	AN5825-1	162
6000231000	“ “	“ “	A-6	158
6000231100	“ “	“ “	A-6	158
6000231250	“ “	“ “	A-6	158
6000231500	“ “	“ “	A-6	158
6000231780	“ “	“ “	A-7	159, 162
6000232130	“ “	“ “	AN5825-1	162
6000232140	“ “	“ “	AN5825-1	162
6000232141	“ “	“ “	AN5825-1	162
6000232190	“ “	—remote indicating magnetic compass	AN5730	270, 275
6000232195	“ “	“ “ “ “ “ “	AN5730	270, 275
6000232220	“ “	“ “ “ “ “ “	AN5730	270, 275
6000236290	“ “	—directional gyro	AN5735-1	235
6000236295	“ “	“ “ “	AN5735-1	235
6000237750	“ “	“ “ “	B-3	236
6000238090	“ “	“ “ “	B-4	237
6000247560	“ “	Thermometer—bimetal direct reading	C-13, C-13A	104
6000257040	“ “	Indicator—electric thermometer	C-10	105
6000257085	“ “	—single electric thermometer	C-11	106
6000257090	“ “	“ “ “ “ “ “	C-11	106
6000257095	“ “	“ “ “ “ “ “	C-11	106
6000257122	“ “	Thermometer—bimetal direct reading	C-13, C-13A	104
6000257123	“ “	“ “ “ “ “ “	C-13, C-13A	104
6000257125	“ “	“ “ “ “ “ “	C-13, C-13A	104
6000262775	“ “	Inverter—remote reading magnetic compass	12117-6-A	277
6000289775	“ “	Meter—drift	B-3	283
6000289895	“ “	“ “	B-3	283
6000289896	“ “	“ “	B-3	283
6000289900	“ “	“ “	B-3	283



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6000289905	“ “	Meter—drift	B-3	283
6000289910	“ “	“ “	B-3	283
6000289915	“ “	“ “	B-3	283
6000289920	“ “	“ “	B-3	283
6000290080	“ “	“ “	B-3	283
6000290120	“ “	“ “	B-3	283
6000290130	“ “	“ “	B-3	283
6000290890	“ “	“ “	B-3	283
6000291050	“ “	“ “	B-5	284
6000298000	“ “	Mount—gyro control		172
6000298650	“ “	“ —remote control gyro control		185
6000298710	“ “	“ —gyro control		172
6000298740	“ “	“ —directional gyro control		195
6000298895	“ “	“ —gyro control		181
6000298900	“ “	“ —vertical gyro control		197
6000306600	“ “	Panel—control		198
6000310200	“ “	Pulley—follow-up		182
6000310250	“ “	“ “		182
6000310300	“ “	“ “		182
6000310350	“ “	“ “		182
6000310400	“ “	“ “		182
6000310450	“ “	“ “		182
6000310500	“ “	“ “		182
6000310550	“ “	“ “		182
6000310600	“ “	“ “		182
6000310650	“ “	“ “		182
6000311100	“ “	“ “		182
6000312275	“ “	“ “		182
6000312775	“ “	“ “		182
6000313100	“ “	“ “		182
6000313275	“ “	“ “		182
6000313525	“ “	“ “		182
6000313775	“ “	“ “		182
6000315300	“ “	“ “		182
6000315550	“ “	“ “		182
6000316100	“ “	“ “		182
6000316275	“ “	“ “		182
6000316550	“ “	“ “		182
6000316775	“ “	“ “		182
6000318600	“ “	Rack—amplifier		201
6000320300	“ “	Regulator—oil pressure		176
6000320400	“ “	“ “ “		176
6000323075	“ “	Control unit—three axis stabilized	T-502-3B	223
6000349725	“ “	Switch box—gyro flux gate compass	AN5756-1	272
6000424000	“ “	Transmitter—gyro flux gate compass	AN5751-1	271
6000435384	“ “	“ —electrical wheel and flap position	AN5758-1	67
6000435480	“ “	“ “ “ “ “ “	A-2	64
6000435483	“ “	“ “ “ “ “ “	AN5785-1	67
6000435484	“ “	“ “ “ “ “ “	AN5785-1	67
6000435485	“ “	“ “ “ “ “ “	AN5780-1	66
6000435860	“ “	“ “ “ “ “ “	A-2	64
6000437475	“ “	“ “ “ “ “ “	A-2	64
6000437675	“ “	“ “ “ “ “ “	AN5785-1	67
6000437900	“ “	“ —remote reading magnetic compass	AN5730-3	276
6000442900	“ “	Trap—drain oil		175
6000443000	“ “	“ “ “		175
6000444290	“ “	Tube—pitot-static airspeed	AN5816-1	140
6000445250	“ “	“ “ “	AN5816-1	140
6000446750	“ “	“ “ “	B-6	138



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6000446775	A. S. C. Stock	Tube—pitot static airspeed	AN5815-1	139
6000448000	“ “	“ “ “	AN5816-1	140
6000449750	“ “	“ “ “	AN5816-1	140
6000450875	“ “	“ “ “	AN5816-2	141
6000451000	“ “	“ “ “	AN5816-2	141
6000451050	“ “	“ “ “	AN5816-2	141
6000451500	“ “	“ “ “	D-2	142
6000451750	“ “	“ “ “	D-2	142
6000452000	“ “	“ “ “	D-3	143
6000452765	“ “	“ —pitot airspeed	G-2	145
6000454700	“ “	“ —single throat power venturi	AN5805-1	164
6000454735	“ “	“ “ “ “ “	AN5805-1	164
6000455450	“ “	“ —double throat power venturi	AN5807-1	165
6000455500	“ “	“ “ “ “ “	AN5807-1	165
6000455750	“ “	“ “ “ “ “	AN5807-1	165
6000456000	“ “	“ “ “ “ “	AN5807-1	165
6000456100	“ “	“ “ “ “ “	AN5807-1	165
6000456250	“ “	“ “ “ “ “	AN5807-1	165
6000469025	“ “	Valve—speed control		176
6000469050	“ “	“ “ “		176
6000469150	“ “	“ —transfer	644230	191
6000618775	“ “	Filter—turn and bank indicator air	AN5821-1	230
6100002250	“ “	Adapter—engine tachometer outlet	AN4041	84
6100002265	“ “	“ —turbosupercharger tachometer drive	I	85
6100002270	“ “	“ “ “ “ “	II	85
6100002275	“ “	“ “ “ “ “	III	85
6100002280	“ “	“ “ “ “ “	IV	85
6100002285	“ “	“ “ “ “ “		85
6100020900	“ “	Ammeter	D-2	119
6100021000	“ “	“	D-2	119
6100023000	“ “	“	E-1	120
6100023250	“ “	“	E-1	120
6100023525	“ “	“	D-2	119
6100023540	“ “	“	E-1	120
6100023580	“ “	“	F-1	122
6100023590	“ “	“	F-1	122
6100033000	“ “	Bulb—resistance thermometer (long)	AN5525-2	118
6100033263	“ “	“ “ “	AN5525-1	117
6100033270	“ “	“ “ “ (long)	AN5525-2	118
6100033273	“ “	“ “ “	AN5525-2	118
6100033275	“ “	“ “ “ (short)	AN5525-1	117
6100033325	“ “	“ “ “ (long)	AN5525-2	118
6100033675	“ “	“ “ “ (short)	AN5525-1	117
6100036023	“ “	“ “ “ (long)	AN5525-2	118
6100040765	“ “	“ “ “ (short)	AN5525-1	117
6100046792	“ “	Indicator assembly—fuel mixture	A-7	12
6100046792	“ “	“ “ “ “	A-7A	13
6100046795	“ “	“ “ “ “	A-7	12
6100046795	“ “	“ “ “ “	B-6	16
6100046850	“ “	“ “ “ “	A-7A	13
6100047260	“ “	“ “ “ “	B-5A	14
6100047270	“ “	“ “ “ “	B-6	16
6100047270	“ “	“ “ “ “	B-6A	18
6100047280	“ “	“ “ “ “	B-5A	14
6100047280	“ “	“ “ “ “	B-6A	18
6100105300	“ “	Flange—mounting		11
6100113855	“ “	Gage—oil pressure	B-5	37
6100113882	“ “	“ —fuel pressure (dual)	AN5772-1	28
6100113886	“ “	“ “ “ “	AN5772-1	28



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6100113890	A. S. C. Stock	Gage—fuel pressure (dual)	AN5772-1	28
6100113900	“ “	“ “ “ “	AN5772-1	28
6100113950	“ “	“ “ “ “	AN5771-1	27
6100118500	“ “	“ “ “ “	C-10	26
6100118750	“ “	“ “ “ “	C-10	26
6100119263	“ “	“ “ “ “	AN5771-1	27
6100119265	“ “	“ “ “ “	AN5771-1	27
6100119268	“ “	“ “ “ “	AN5771-1	27
6100124750	“ “	“ —manifold pressure	D-2	42
6100124765	“ “	“ “ “ “	D-2	42
6100126513	“ “	“ “ “ “	D-9	43
6100126515	“ “	“ “ “ “	D-9	43
6100126517	“ “	“ “ “ “	D-9	43
6100126524	“ “	“ “ “ “	D-9	43
6100126527	“ “	“ “ “ “	AN5770-1	44
6100126527-2	“ “	“ “ “ “	AN5770-1	44
6100126527-3	“ “	“ “ “ “	AN5770-1	44
6100126527-23	“ “	“ “ “ “	AN5770-1	44
6100126527-25	“ “	“ “ “ “	AN5770-1	44
6100126546	“ “	“ “ “ “ (dual)	AN5770-2	45
6100126546-4	“ “	“ “ “ “ “	AN5770-2	45
6100126546-5	“ “	“ “ “ “ “	AN5770-2	45
6100126548	“ “	“ “ “ “ “	AN5770-2	45
6100126548-5	“ “	“ —oil pressure (dual)	AN5772-2	36
6100126549	“ “	“ —manifold pressure (dual)	AN5770-2	45
6100126779-7	“ “	“ —oil pressure	AN5771-2	38
6100126779-75	“ “	“ “ “ “	AN5771-2	38
6100127745-5	“ “	“ “ “ “	AN5771-2	38
6100127745-4	“ “	“ “ “ “ (dual)	AN5772-2	36
6100131000	“ “	“ “ “ “	B-5	37
6100131250	“ “	“ “ “ “	B-5	37
6100131260	“ “	“ “ “ “	B-5	37
6100131865	“ “	“ “ “ “	AN5771-2	38
6100133925	“ “	“ —fuel pressure (dual)	AN5772-1	28
6100149000	“ “	“ unit—engine 8 foot capillary	B-2	6
6100149500	“ “	“ “ “ “ 8 “ “	B-2	6
6100150350	“ “	Flange—mounting		11
6100153865	“ “	Gage unit—engine	AN5774	8
6100153866	“ “	“ “ “ “	AN5774	8
6100153867	“ “	“ “ “ “	AN5774	8
6100153869	“ “	“ “ “ “	AN5774	8
6100153869-2	“ “	“ “ “ “	AN5774	8
6100153871-4	“ “	“ “ “ “	AN5774	8
6100153871-6	“ “	“ “ “ “	AN5774	8
6100153872	“ “	“ “ “ “	AN5774	8
6100153872-3	“ “	“ “ “ “	AN5774	8
6100153873	“ “	“ “ “ “	AN5774	8
6100153874	“ “	“ “ “ “	AN5774	8
6100153874-3	“ “	“ “ “ “	AN5774	8
6100153874-4	“ “	“ “ “ “	AN5774	8
6100153874-35	“ “	“ “ “ “	AN5774	8
6100153875	“ “	“ “ “ “	AN5774	8
6100153876	“ “	“ “ “ “	AN5774	8
6100153876-5	“ “	“ “ “ “	AN5774	8
6100153876-6	“ “	“ “ “ “	AN5774	8
6100162250	“ “	Generator—screw mount tachometer	E-4	72
6100163150	“ “	“ —pad mount tachometer	AN5531-1	74
6100163250	“ “	“ “ “ “	AN5531-1	74
6100163275	“ “	“ —screw mount tachometer	AN5531-2	75





# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6100163240	A. S. C. Stock	Generator—pad mount tachometer	AN5531-1	74
6100163263	“ “	“ —screw mount tachometer	AN5531-2	75
6100163264	“ “	“ “ “ “	AN5531-2	75
6100163280	“ “	“ “ “ “	AN5531-2	75
6100163290	“ “	“ “ “ “	E-12	81, 82
6100163293	“ “	“ “ “ “	E-12	81, 82
6100214755	“ “	Indicator assembly—fuel mixture	A-7	12
6100214760	“ “	“ “ “ “	A-7	12
6100214760	“ “	“ “ “ “	A-7A	13
6100214765	“ “	“ “ “ “	A-7	12
6100214767	“ “	“ “ “ “	A-7	12
6100214767-5	“ “	“ “ “ “	A-7	12
6100214768	“ “	“ “ “ “	A-7	12
6100214768	“ “	“ “ “ “	A-7A	13
6100214772	“ “	“ “ “ “	A-7A	13
6100214773	“ “	“ “ “ “	A-7A	13
6100214773	“ “	“ “ “ “	B-5A	14
6100216280	“ “	“ “ “ “	B-6	16
6100216280	“ “	“ “ “ “	B-6A	18
6100216285	“ “	“ “ “ “	B-6	16
6100216287	“ “	“ “ “ “	B-6	16
6100216287-5	“ “	“ “ “ “	B-6	16
6100216289	“ “	“ “ “ “	B-6	16
6100216289-5	“ “	“ “ “ “	B-6	16
6100216289-5	“ “	“ “ “ “	B-6A	18
6100216295	“ “	“ “ “ “	B-6A	18
6100216300	“ “	“ “ “ “	B-6A	18
6100217620	“ “	“ —autosyn fuel pressure	C-14	29
6100217680	“ “	“ “ “ “	C-14A	31
6100223650	“ “	“ “ manifold pressure	D-8	46
6100223700	“ “	“ “ “ “	D-8A	48
6100223710	“ “	“ “ “ “	D-8A	48
6100224645	“ “	“ “ oil pressure	B-9, B-9A	39
6100224675	“ “	“ “ “ “	B-9A, B-9	39
6100224688	“ “	“ “ “ “	B-9A, B-9	39
6100238825	“ “	“ —tachometer	E-9A	76
6100240000	“ “	“ “	E-4	73
6100240250	“ “	“ “	E-4	73
6100240500	“ “	“ “	E-4	73
6100241270	“ “	“ “	E-9A	76
6100241280	“ “	“ “	E-9A	76
6100241300	“ “	“ “	E-9A	76
6100241303	“ “	“ “	E-9A	76
6100241305	“ “	“ —dual tachometer	E-10	79
6100241307	“ “	“ “	E-10	79
6100241308	“ “	“ “	AN5530-2	78
6100241310	“ “	“ “	E-10	79
6100241320	“ “	“ “	E-10	79
6100241390	“ “	“ —tachometer	E-10	79
6100241545	“ “	“ “	AN5530-2	78
6100246616	“ “	“ —single electric thermometer	A-23	96
6100250130	“ “	“ —dual thermometer autosyn	A-22	92
6100250140	“ “	“ “ “ “	A-22	92
6100250170	“ “	“ —single electric thermometer	A-23	96
6100250180	“ “	“ “ “ “	A-23	96
6100250190	“ “	“ “ “ “	A-23	96
6100250220	“ “	“ —dual electric thermometer	A-24	98
6100250225	“ “	“ “ “ “	A-24	98
6100250235	“ “	“ “ “ “	A-24	98



## NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6100250240	A. S. C. Stock	Indicator—dual electric thermometer	A-24	98
6100250267	“ “	“ “ “ “	A-25	94
6100250275	“ “	—single thermometer	AN5790-6	89
6100250277	“ “	“ “ electric thermometer	A-23	90
6100250278	“ “	“ “ thermometer	AN5790-6	89
6100250279	“ “	“ “ electric thermometer	A-23	96
6100250280	“ “	“ “ thermometer	AN5790-6	89
6100250282	“ “	—dual thermometer	AN5795-6	90
6100250283	“ “	“ “ electric thermometer	A-25	94
6100250283	“ “	“ “ thermometer	AN5795-6	90
6100250284	“ “	“ “ electric thermometer	A-25	94
6100250284	“ “	“ “ thermometer	AN5795-6	90
6100250284-5	“ “	“ “ “ “	AN5795-6	90
6100250284-7	“ “	“ “ electric thermometer	F-10	116
6100250284-7	“ “	—single electric thermometer	A-23	96
6100250284-7	“ “	—thermometer dual	AN5795-6	90
6100250284-8	“ “	“ “ “ “	AN5795-6	90
6100250285	“ “	—dual thermometer	AN5795-6	90
6100252275	“ “	—single electric thermometer	A-23	96
6100254000	“ “	—thermocouple thermometer	B-7	103
6100254000	“ “	“ “ “ “	B-9	100
6100254250	“ “	“ “ “ “	B-7	103
6100254250	“ “	“ “ “ “	B-9	100
6100255525	“ “	“ “ “ “	B-7	103
6100255525	“ “	“ “ “ “	B-9	100
6100255535	“ “	“ “ “ “	B-7	103
6100255535	“ “	“ “ “ “	B-9	100
6100255540	“ “	“ “ “ “	B-7	103
6100255540	“ “	“ “ “ “	B-9	100
6100255633	“ “	“ “ “ “	B-11	102
6100255635	“ “	“ “ “ “	B-11	102
6100255637	“ “	“ “ “ “	B-11	102
6100255640	“ “	“ “ “ “	B-11	102
6100257095	“ “	—single electric thermometer	C-11	106
6100257110	“ “	—electric thermometer	C-12	108
6100257115	“ “	“ “ “ “	C-12	108
6100262540	“ “	—dual thermometer	F-7	109
6100262560	“ “	—electric thermometer	F-8	112
6100262570	“ “	“ “ “ “	F-8	112
6100262585	“ “	“ “ “ “	F-8	112
6100262630	“ “	—electrical thermometer	F-9	114
6100262635	“ “	“ “ “ “	F-9	114
6100262683	“ “	—dual electric thermometer	F-10	116
6100262685	“ “	“ “ “ “	F-10	116
6100262690	“ “	“ “ “ “	F-10	116
6100346070	“ “	Shunt—ammeter	F-1	123
6100346250	“ “	“ “ “ “	E-1	121
6100346780	“ “	“ “ “ “	E-1	121
6100346800	“ “	“ “ “ “	F-1	123
6100359525	“ “	Tachometer—chronometric	C-7	69
6100359770	“ “	“ “ “ “	C-7	69
6100359770	“ “	“ “ “ “	C-9A	70
6100359770	“ “	“ “ “ “	C-11	71
6100359830	“ “	“ “ “ “	C-7	69
6100359830	“ “	“ “ “ “	C-9A	70
6100359830	“ “	“ “ “ “	C-11	71

# NUMERICAL INDEX INSTRUMENT SECTION



Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6100407511	A. S. C. Stock	Indicator—capillary thermometer	A-20	91
6100407512	“ “	“ “ “	A-20	91
6100407513	“ “	“ “ “	A-20	91
6100407514	“ “	“ “ “	A-20	91
6100407516	“ “	“ “ “	A-20	91
6100407518	“ “	“ “ “	A-20	91
6100407520	“ “	“ “ “	A-20	91
6100407522	“ “	“ “ “	A-20	91
6100427070	“ “	Transmitter assembly—fuel or oil pressure	AN5765-1	20
6100427070	“ “	“ “ “ “ “ “	AN5765-1	19, 20
6100427075	“ “	“ “ “ “ “ “	AN5765-1	20
6100427675	“ “	“ “ “ “ “ “	AN5765-1	20
6100429300	“ “	“ —fuel pressure	C-14A	32
6100429515	“ “	“ “ “	C-14	30
6100429530	“ “	“ “ “	C-14A	32
6100432015	“ “	“ —manifold pressure	D-8	47
6100432025	“ “	“ “ “	D-8A	49
6100432035	“ “	“ “ “	D-8A	49
6100433515	“ “	“ —oil pressure	B-9A, B-9	40
6100433560	“ “	“ “ “	B-9A, B-9	40
6100438780	“ “	“ —tachometer	E-10	80
6100438790	“ “	“ “ “	E-10	80
6100439025	“ “	“ —thermometer	A-22	93
6100439260	“ “	“ “ “	F-7	110
6100458250	“ “	Indicator assembly—fuel mixture	A-7	12
6100458250	“ “	“ “ “ “	A-7A	13
6100458250	“ “	“ “ “ “	B-5A	14
6100458250	“ “	“ “ “ “	B-6	16
6100458250	“ “	“ “ “ “	B-6A	18
6100458550	“ “	“ “ “ “	A-7	12
6100458550	“ “	“ “ “ “	A-7A	13
6100458550	“ “	“ “ “ “	B-5A	14
6100458550	“ “	“ “ “ “	B-6	16
6100458550	“ “	“ “ “ “	B-6A	18
6100472200	“ “	Voltmeter—aircraft	B-1	124
6100472250	“ “	“ “	B-1	124
6100472500	“ “	“ “	B-1	124
6100472650	“ “	“ “	B-1	124
6100472800	“ “	“ “	C-1	125
6200025775	“ “	Compass—astro	Mark 2	260
6200025785	“ “	“ “	Mark 2	260
6200026050	“ “	Astrograph	A-1	253
6200026075	“ “	“	A-1	253
6200026425	“ “	Standard—astro compass	O-5	261
6200026445	“ “	“ “ “	O-5	261
6200079740	“ “	Computer—airial dead reckoning	AN5835-1	278
6200079745	“ “	“ “ “ “	AN5835-1	278
6200079748	“ “	“ “ “ “	AN5835-1	278
6200079755	“ “	“ “ “ “	AN5835-1	278
6200079775	“ “	“ “ “ “	AN5835-1	278
6200079785	“ “	“ “ “ “	AN5835-1	278
6200079788	“ “	“ “ “ “	AN5835-1	278
6200310615	“ “	Ring—astrograph mounting		254
6200310625	“ “	“ “ “		254
6200327978	“ “	Aircraft sextants		281
6200327980	“ “	“ “		281
6200330900	“ “	“ “		281
6200330905	“ “	“ “		281
6200330925	“ “	“ “		281



# NUMERICAL INDEX INSTRUMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
6200330937	A. S. C. Stock	Aircraft Sextants .....		281
6200330975	" "	" "		281
6300520868	" "	Block—manifold .....		174
6300520870	" "	" "		174
6300520872	" "	" "		174
6300521973	" "	" "		174
6300623117	" "	Frame—double mounting .....	43D7014	225
6300623118	" "	" —single mounting .....	43D7625	224
6300643689-6	" "	Gear—flexible shaft angle .....		186
6300735537	" "	Plate—front mounting .....	43B7015	227
6300735537-3	" "	" " " .....	43B7016	226
8700583900	" "	Machine—aircraft navigational drafting .....	AN5750-1	279

(RESTRICTED)



**NUMERICAL INDEX  
INSTRUMENT SECTION**





## INSTRUMENT LIGHTING AND DIAL MARKINGS

Two basic methods are used to make instrument dial markings visible in darkness to the pilot or crew members. The instrument face may be lighted by a lamp within the instrument case (called "rim lighting") or by light from an external source, or the principal markings and pointers may be made visible through the use of a luminescent paint. In some instances, these two methods are combined.

Fluorescent lamps operated from the airplane electrical system are used for external or flood-lighting. Individual lighting used by the Army consists of a single-wire circuit, 3-volt A.C. or D.C. rim lamp, usually located in the upper right part of the case. The individual lighting used by commercial airlines usually consists of a two-wire circuit, 12 or 24-volt, A.C. or D.C. rim light. The Navy does not use individually lighted instruments.

Army and Navy dial markings and pointers may have a white finish, a natural aluminum finish, or may be painted with various materials as follows:

### FLUORESCENT MATERIAL

Fluorescent material (Army Air Force specification number 14111 and AN specification AN-L-1a) glows with an orange hue (color number 65) under ultra-violet light. This material has no after-glow. Furthermore, its intensity of glow is regulated by the intensity of the ultra-violet light.

### PHOSPHORESCENT MATERIAL

Phosphorescent materials (Army Air Force specification number 14102), when subject to ultra-violet light, glow with a greenish-white hue (color number 61), and have a long after-glow. That is, after the external lighting has been removed the material continues to glow, but with diminished intensity, finally fading out altogether after a period of about one hour.

### RADIOACTIVE MATERIAL

Fluorescent or phosphorescent materials will glow in the presence of radioactive materials without any additional source of ultra-violet light.

Phosphorescent radioactive paint (Federal specification TT-R-58) glows brightly under ultra-violet light. When the light source is removed, the glow gradually fades until it reaches a stable, useful level.

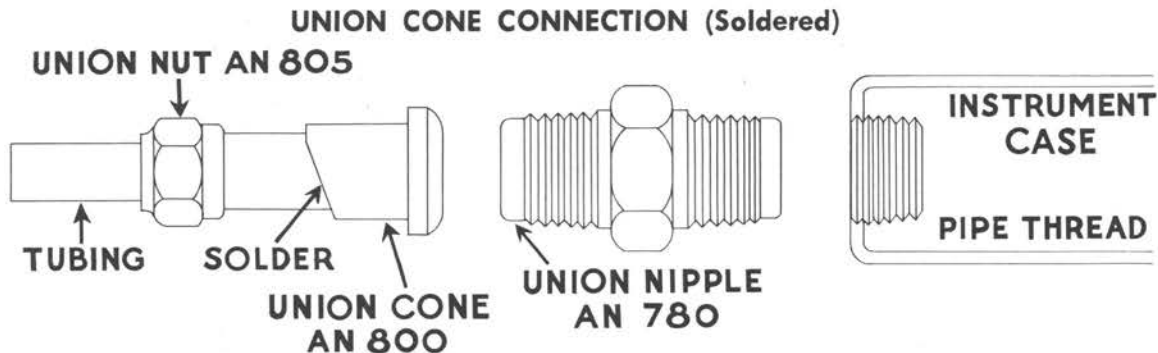
Fluorescent radioactive paint (Army Air Force specification number 14112) glows brightly under ultra-violet light. When the light is extinguished the glow drops very quickly to a readable level.



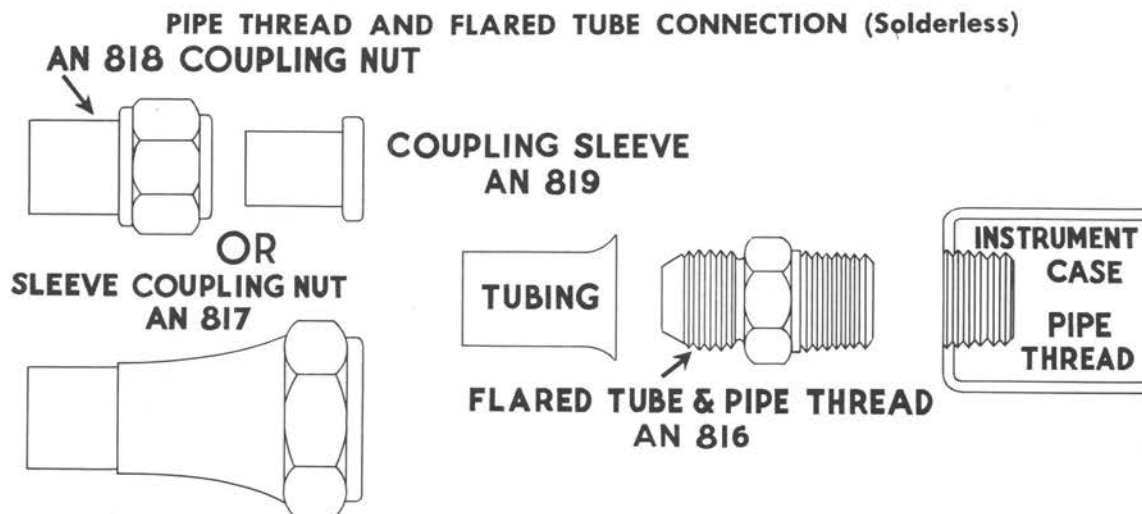
# INSTRUMENT FITTINGS

Fittings are used to make proper connections between pressure tubing lines and aircraft instruments. Different series of fittings have been used by the Army and Navy. The Army has used the AC811 series and Parker special variations of the AC811 series. The Navy has used the NAF310500 series. These two series of fittings have been superseded by the AN Standard series fittings. For information as to the interchangeability of AC811, NAF310500 and AN Standard series fittings, refer to Technical Order AN 04-1-3.

The three types of fitting connections used are the union cone connection, the pipe thread and flared tube connection, and the straight thread and flared tube connection. The following sketches illustrate the various types:



This was one of the earlier types of connections used. The instrument case is supplied with an internal pipe thread into which is screwed a union nipple (AN780). A union cone (AN800) is soldered on the end of the pressure tubing. The union cone end is inserted into the chamfered end of the union nipple (AN780) and the union nut (AN805) drawn over the cone and screwed onto the union nipple (AN780) to form the connection.



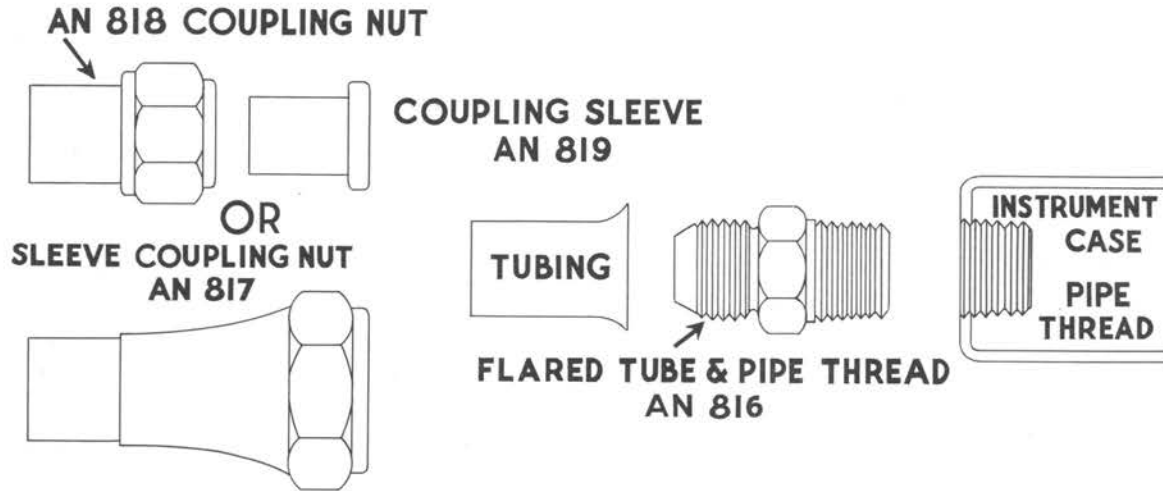
The instrument case is supplied with an internal pipe thread into which is screwed a flared tube and pipe thread nipple (AN816). The tubing end is flared to fit tightly against the cham-

*(Continued on Page 3)*



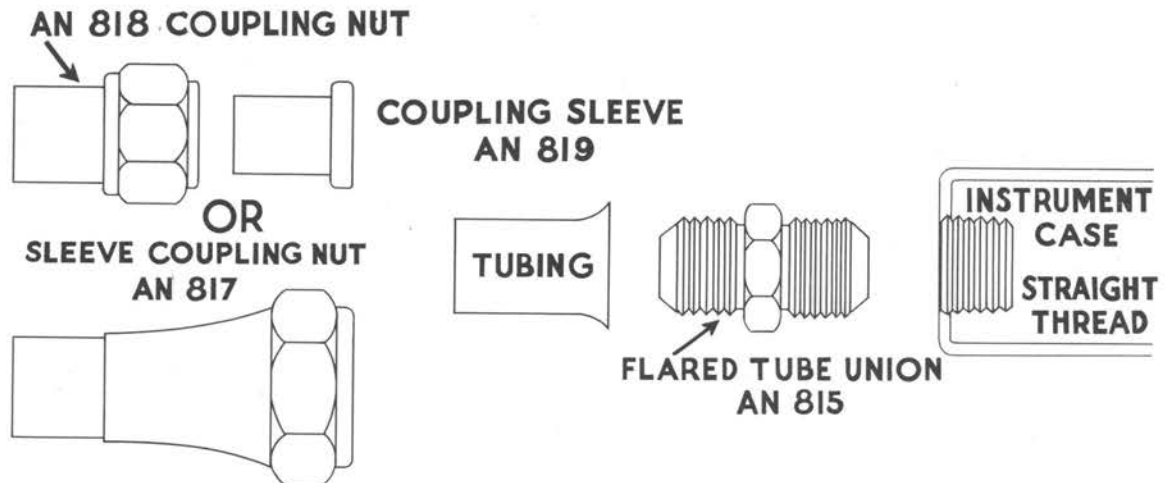
# INSTRUMENT FITTINGS

(Continued from Page 2)



fered end of the nipple. The tubing is held against the end of the nipple by the coupling sleeve, (AN819) which fits over the tubing. The coupling sleeve, in turn, is held in place by the coupling nut, (AN818) which is drawn over the sleeve and screwed onto the nipple (AN816). The sleeve coupling nut (AN817) can be used in place of the coupling nut (AN817) and coupling sleeve (AN819). The sleeve coupling nut (AN817) is drawn over the end of the flared tubing and screwed onto the nipple.

## STRAIGHT THREAD AND FLARED TUBE CONNECTION (Solderless)



In this type of connection the end of the nipple (AN815) is straight threaded instead of pipe threaded, and is screwed into a boss in the instrument case (AN D10050). The arrangement is the same as the Pipe Thread and Flared Tube Connection shown above.

The above assemblies show AN series fittings. For similar assemblies of AC811 and NAF 310500 series fittings, see Technical Order AN 04-1-3, May 25, 1943.



## ELECTRICAL REMOTE INDICATING INSTRUMENTS

Electrical remote indicating instruments show quantity or mechanical movement originating in a gage located remote from the instrument. This type of instrument has been classified by the following trade terms:

### **AUTOSYN (Pioneer Instrument Division)**

This system is based on an electrical circuit which permits a receiving element in one location to closely duplicate the movements of a transmitting element located in another place.

Fundamentally, the system is composed of two alternating current motors. Single phase, alternating current is fed into the rotor or movable part of each device. These rotors do not rotate in the same way as in ordinary motors, but remain in a fixed position unless moved by some outside force. The stators, or stationary elements of both motors, are connected together by wires. With this arrangement, any position of one of the rotors will be duplicated by the other rotor.

One of the motors, called the transmitter, has its rotor connected to an actuating device such as a Bourdon gage or a diaphragm element. This actuating device is usually contained within the same case as the motor. When the gage moves, the rotor of the transmitter is turned, through a linkage.

The other motor, called the receiver, has its rotor connected to a pointer. When the rotor of the transmitter moves, the rotor of the receiver follows the motion exactly, and moves the pointer. The pointer is located within the case of the receiver, and indicates the quantity to be measured on a dial.

All autosyns operate in the same manner, and it is necessary to have the proper dial only in order to indicate any quantity. The power supply for most Autosyn units is 26 volt, 400 cycle single phase alternating current.

### **MAGNESYN (Pioneer Instrument Division)**

The term Magnesyn is applied to the coil of the receiving unit of this remote indicating system, the coil of the transmitting unit is known as the flux-gate. The entire system is often referred to as a Magnesyn system. The rotor of the receiving unit of this system differs from the rotor of the Autosyn unit, in that it is a permanent magnet. The coils differ from the stators of the Autosyn unit in that they are electrically excited from the alternating current power supply.

### **TELEGON (Kollsman Instrument Division)**

The Telegon system of remote indication operates on the same principle as the Autosyn and Magnesyn systems. However, the mechanical construction and electrical windings are different, since the Telegon does not employ a wound rotor or brushes. The transmitting unit of one system cannot be used with the indicating unit of another system.

### **SELSYN (General Electric Company)**

The direct current Selsyn system is composed of a transmitter unit containing a resistance winding and an indicator unit containing an induction coil. Mechanical movement of the measuring gage changes the position of the contact arms of the resistance winding and thereby determines that exact amount of current to flow through the indicator coil which will cause the indicator pointer to assume a position corresponding to the exact movement of the measuring gage. The alternating current Selsyn system operates entirely differently from the direct current Selsyn, and has not been adapted to instrument use up to this time.