k. RF AMP 1

A sample of the collector output signal from Q101 is detected by rectifier CR101 before being applied to the positive terminal of M401. Feedthrough capacitors C107 and C108 provide rf filtering, and resistor R107 provides attenuation. The first rf amplifier stage is tuned to the operating carrier frequency by adjusting RF AMP 1 tuning capacitor C109 and observing M401 for a maximum indication.

l. RF AMP 2

A sample of the collector output signal from Q102 is detected by rectifier CR102 before being applied to the positive terminal of M401. Feedthrough capacitors C120 and C121 provide rf filtering, and resistor R114 provides attenuation. The second rf amplifier stage is tuned to the operating frequency by adjusting RF AMP 2 tuning capacitor C123 and observing M401 for a maximum indication.

m. RF AMP 3

A sample of the collector output signal from Q103 is detected by positive CR104 before being applied to the positive terminal of M401. Feedthrough capacitors C138 and C139 provide rf filtering, and resistor R121 provides attenuation. The third rf amplifier stage is tuned to the operating frequency by adjusting RF AMP 3 tuning capacitor C140 and observing M401 for a maximum indication.

n. RF AMP 4

A sample of the collector output signal from Q104 is detected by rectifier CR105 before being applied to the positive terminal of M401. Feedthrough capacitors C150 and C151 provide rf filtering, and resistor R127 provides attenuation. The fourth rf amplifier stage is tuned to the operating frequency by adjusting RF AMP 4 tuning capacitor C152 and observing M401 for a maximum indication.

Note

The following paragraphs (o, p, q, and r) pertain to the 242F-9C in the uhf configuration. All detectors, detector loads, and coupling capacitors are contained in the uhf exciter module. Refer to figure 4-21.

0. RF AMP 1

In the uhf configuration, this stage performs a dual function. In addition to being an rf amplifier, Q201 is also a doubler stage. A sample of the collector output signal from Q201 is detected by rectifier CR201 before being applied to the positive terminal of M401. Feedthrough capacitors C206 and C207 provide rf filtering, and resistor R206 provides attenuation. The first rf amplifier/third doubler stage is tuned to eight times the crystal frequency by adjusting RF AMP 1/DBLR 3 tuning capacitor C208 and observing M401 for a maximum indication.

p. RF AMP 2

A sample of the collector output signal from Q202 is detected by rectifier CR202 before being applied to the positive terminal of M401. Feedthrough capacitors C216 and C217 provide rf filtering, and resistor R210 provides attenuation. The second rf amplifier is tuned to the operating frequency by adjusting RF AMP 2 tuning capacitor C222 and observing M401 for a maximum indication.

q. RF AMP 3

A sample of the collector output signals from Q203 is detected by rectifier CR203 before being applied to the positive terminal of M401. Feedthrough capacitors C230 and C231 provide rf filtering, and resistor R214 provides attenuation. The third rf amplifier is tuned to the operating frequency by adjusting RF AMP 3 tuning capacitor C236 and observing M401 for a maximum indication.

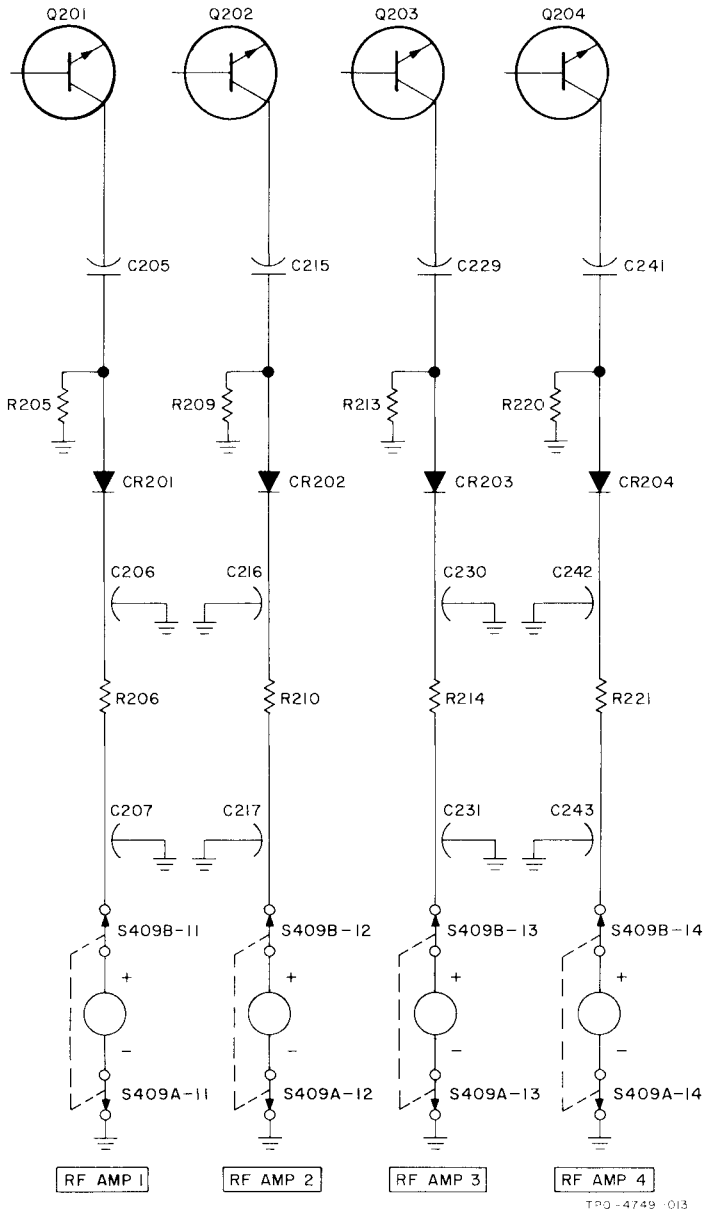


Figure 4-21. UHF Multimeter Circuits, Simplified Schematic Diagram.

r. RF AMP 4

A sample of the collector output signal from Q204 is detected by rectifier CR204 before being applied to the positive terminal of M401. Feedthrough capacitors C242 and C423 provide rf filtering, and resistor R221 provides attenuation. The fourth rf amplifier is tuned to the operating frequency by adjusting RF AMP 4 tuning capacitor C247 and observing M401 for a maximum indication.

Note

The remaining MULTIMETER SWITCH positions and their functions are common to both the vhf and uhf configurations of the 242F-9C. Refer to figure 4-20.

s. DR PLATE MA X1

A sampling of the driver tube plate current passing through R439 is applied to M401. The indication of M401 is the driver plate current in milliamperes.

t. RF PWR

The forward rf power sensor output from directional coupler Z2 is applied directly to the positive terminal of M401. With the MULTIMETER SWITCH in the RF PWR position, M401 functions as a wattmeter. The indication on the top scale of M401 is the 242F-9C rf power output measured in watts.

u. VSWR

The reflected rf power sensor output from directional coupler Z2 is applied directly to the positive terminal of M401. With the MULTIMETER SWITCH in the VSWR position, M401 functions as a reflected power wattmeter. The indication on M401 indicates the vswr at the output of the 242F-9C.

v. % MOD

The modulation power sensor output from directional coupler Z2 is a demodulated audio signal that is applied to a modulation percentage calibration circuit only when the MULTIMETER SWITCH is in the % MOD position. Percent of modulation is indicated on the top scale of M401 after R355 has been adjusted to calibrate the known percent of modulation to the M401 indication. The known percent of modulation can be determinted by displaying the modulated rf carrier on an oscilloscope.

4.3.10 Power Supplies

The 242F-9C contains two power supplies that furnish all of the required ac and dc operating voltages. These power supplies consist of a low- and a high-voltage supply, and provide nine operational dc voltages for the 242F-9C. In addition, two ac filament voltages and an ac crystal oven heater voltage are provided. All operating voltages provided by the 242F-9C and their functions are listed in table 4-1.

Table 4-1. 242F-9C Operating Voltages and Functions.

VOLTAGE	FUNCTION
+2000 volts dc (unregulated)	Power amplifier plate
+850 volts dc (unregulated)	Driver plate
+300 volts dc (regulated)	Power amplifier and driver screens
+48 volts dc (unregulated)	Key relay control
+28 volts dc (regulated)	General transistor power
+15 volts dc (regulated)	Crystal oscillator and differential meter amplifier circuit
0 to -6.5 volts dc (regulated)	Age bias
-7 to -24 volts dc (regulated)	Driver control grid bias
-33 to -66 volts dc (regulated)	Power amplifier control grid bias
6.15 volts ac	Driver filament and crystal oven heater
5.75 volts ac	Power amplifier filament

The voltages listed in table 4-1 are derived from two separate power supplies. One power supply contains high-voltage transformer T401, and the other supply contains low-voltage transformer T402. The high-voltage power supply provides three dc voltages, and the low-voltage power supply provides six dc voltages. The three voltages provided by the high-voltage supply can be monitored by the multimeter circuits.

Refer to figure 7-1. Transformer T401 contains two secondary windings. The output of

each winding is applied to a full-wave rectifier bridge (CR409 or CR410). The output from CR409 is filtered by a pi-section LC filter. The resultant output from this supply is unregulated +2000 volts dc which is applied to the plate of power amplifier V2. The output from CR410 is also filtered and provides unregulated +850 volts dc which is applied to the plate of driver V1. A center tap is provided on the +850-volt dc secondary winding which provides the source for the +300-volt dc supply. This voltage is applied to an RC filter network consisting of resistors R426 and R427 and capacitors C413 and C414. The +300-volt output is then applied through a pair of contacts on key relay K402, regulated by zener diodes VR406 and VR-407, and applied to the screens of driver V1 and power amplifier V2. Spark gap E1 and R455 limit the voltage rise across zener diodes VR406 and VR407 in the event of an arc between the plate and screen of power amplifier V2 and prevents damage to the +850- and +300-volt power supplies.

Low-voltage transformer T402 has four secondary windings. Two of these windings provide the ac filament and heater voltages for driver V1, power amplifier V2, and crystal oven heater A1. Each of the remaining two secondary windings is connected to a full-wave bridge rectifier. The output from CR401 through CR404 provides +48 volts dc for the control of key relay K402 and antenna relay K403. The output from the same bridge rectifier is filtered by capacitor C402 before being applied to a series regulator circuit. The base of the first series regulator, Q401, is clamped at +39 volts dc by diode regulator VR401. The base of the second series regulator, Q402, is clamped at +30 volts dc by diode regulator VR402. The emitters of Q401 and Q402 are held at constant voltage levels due to the diode regulators on their respective bases. Therefore, if the output load current should vary, the output voltage would be maintained at a level of 28 volts. The +15-volt dc supply for the crystal oscillator and the multimeter amplifier circuit is derived by placing diode regulator VR405 across the +28-volt dc output. The output from bridge CR405 through CR408 provides the source voltage for the bias supplies. After preregulation to -75 volts dc by a series regulator circuit, the bias supply voltage is clamped to -66 volts dc by diode regulators VR403 and VR404. At the junction of these diodes the voltage is -33 volts dc. The power amplifier bias voltage range is established by applying -66 volts dc to one end of PA BIAS control R416 and -33 volts dc to the other end. The age bias voltage range is established by first applying -33 volts dc through R422 which drops the voltage to -15 volts dc. This reduced voltage is then applied to the end of AGC control R415, the other end of which is at ground potential (0 volt dc). The driver bias is established by applying -33 volts dc through R418 which then reduces the voltage to -24 volts dc. This reduced voltage is applied to one end of DR BIAS control R419. R421 maintains the other end of R419 at -7 volts dc with respect to ground. Thus the range for R419 will be between -7 and -24 volts dc.

4.3.11 Control Circuits

The 242F-9C provides circuitry for either local or remote controlled operation.

4.3.11.1 Local Operation (Refer to figure 4-22.)

The local operation control circuitry may be used when the 242F-9C is installed at an operator's position. Local operation control circuitry is also employed during initial tuning and adjustment, and during troubleshooting procedures.

Local operation is initiated by positioning LOCAL-REMOTE switch S402 to OFF, POWER switch S401 to ON, and PLATE switch S403 to ON. Ac power is applied directly to the primary winding of low-voltage transformer T402. A reduced ac power is applied to the primary of high-voltage transformer T401 for a period of approximately 75 to 100 milliseconds. Inserted in one side of the ac line at the primary of T401 is a step-start circuit consisting of K401, CR412, R453, R436, and C419. This circuit prevents pitting and burning of PLATE switch S403 contacts due to surge

current during turn on. The low- and high-voltage power supplies will provide the following outputs:

a. Low-Voltage Power Supply Outputs

1. Unswitched regulated +28 volts dc to the modulator circuit and vhf or uhf exciter module.
2. Ac filament voltages to the driver and power amplifier tubes.
3. Ac heater voltage to the crystal oven.
4. Unregulated +48 volts dc to one side of the coil on key relay K402 (and antenna relay K403).

b. High-Voltage Power Supply Outputs

1. Unregulated +850 volts dc to the driver plate.
2. Unregulated +2000 volts dc to the power amplifier plate.

The following indicators will also light at this time:

a. POWER indicator DS403.
b. PLATE indicator DS402.
c. CRYSTAL HEATER indicator DS401.

The 242F-9C may now be keyed in one of two ways. The methods of keying are shown by (A) and (B) in figure 4-22. The first method is shown by (A), and requires that a low-impedance microphone be connected between TB401-3 and TB401-4, and LOCAL-REMOTE switch S402 be positioned to LOCAL KEY. The second keying method for local operation is shown by (B), and involves inserting a low-impedance push-to-talk microphone into MIKE jack J301 and positioning LOCAL-REMOTE switch S402 to OFF.

Note

Microphone plug must be wired according to the schematic of figure 3-2.

Regardless of which method is used to key the 242F-9C, a ground is applied to the coil of relay K402 causing K402 to actuate. When K402 actuates, the following events occur simultaneously.

a. Switched regulated +300 volts dc is applied to the driver and power amplifier screens through contacts 1 and 2 of K402.
b. Switched regulated +28 volts dc is applied to the buffer amplifier stage, and to the first and second doubler stages through contacts 3 and 4 of K402.
c. Switched regulated +15 volts dc is applied to the crystal oscillator. This voltage is derived from the switched regulated +28 volts dc (controlled by contacts 3 and 4 of K402).
d. Contacts 5 and 6 of K402 close and provide control for an auxiliary circuit if desired.
e. Interconnected contacts 9, 10, 11, and 12 of K402 close and complete the ac circuit for blower B401, causing B401 to operate.

Capacitor C401 and resistor R403 provide arc suppression for contacts 9, 10,11, and 12 when K402 actuates or deenergizes. Thermal switch S407 and resistor R405 form a protection circuit for the driver and power amplifier tubes. In the event that blower V401 or fuse F403 fail, the heat dissipated by R405 will cause thermal switch S407 to open. When this occurs, the +48-volt dc power applied to key relay K402 is removed, causing K402 to deenergize. This removes the +300-volt dc driver and power amplifier screen voltage, the +28 volts dc applied to the buffer and doubler stages, and the +15 volts dc applied to the crystal oscillator. The 242F-9C is then inoperative and will remain so until cooling air is restored.

4.3.11.2 ***Remote Operation*** (Refer to figure 4-23.)

The remote control circuitry is employed when the 242F-9C is installed at a site that is remote from the operating position.

All theory discussed in paragraph 4.3.11.1 (ac and dc voltages and sequence of events up to the keying methods) is also applicable to the remote control circuitry with the exception of the method of keying. LOCAL-REMOTE switch S402 must be positioned to REMOTE. The 242F-9C may now be remotely keyed in one of two ways. The methods of keying are show by (A) and (B) in figure 4-23. The first method is shown by (A) and uses the 242F-9C internal +48-volt dc supply for key relay power. The

jumpers on TB402 are connected as shown. When the push-to-talk switch is pressed, terminal 8 of key relay K402 becomes grounded, causing K402 to actuate. The second keying method for remote operation is shown in (B) and involves the use of an external +48-volt dc supply. This method of keying can be used only if the jumpers between TB402-1 and 2, and TB402-3 and 4 are removed. It is then necessary to install a jumper between TB402-2 and 3 to complete the key relay circuit. When power is applied to the external +48-volt dc supply, key relay K402 actuates. The sequence of events that occurs after K402 actuates is the same as previously discussed in paragraph 4.3.11.1.

section 5
maintenance

5.1 GENERAL

This section contains troubleshooting procedures, the power amplifier cavity overhaul procedure, module removal and replacement procedures, and driver and power amplifier tube removal and replacement procedures for the 242F-9C VHF/UHF Transmitter. Test procedures for the 242F-9C are contained in paragraph 2.7 of this manual.

5.2 TROUBLESHOOTING

The troubleshooting procedures for the 242F-9C may be performed by using the following built-in test circuits: POWER AMPLIFIER meter, MULTIMETER SWITCH, and MULTIMETER. Table 5-1 lists the test equipment required for the troubleshooting procedures.

Table 5-1. Test Equipment Required for Troubleshooting.

TEST EQUIPMENT	MANUFACTURER AND MODEL
Dummy load	Bird Model 82A
Thruline rf wattmeter	Bird Model 43
Wattmeter elements	100 watts, 100-250 MHz 100 watts, 200-500 MHz
Audio generator (with 600-ohm output)	Hewlett-Packard Model 200AB
Ac voltmeter (with db scale)	Hewlett-Packard Model 400D
Vtvm	Hewlett-Packard Model 410B
Oscilloscope	Tektronix Model 561
Transfer oscillator	Hewlett-Packard Model 540
T-attenuator	General Radio GR-874A
Frequency counter (with associated tuning heads)	Hewlett-Packard 524B

During the initial tuning and adjustment (paragraph 2.7 of this manual) of the 242F-9C, certain MULTIMETER indications were noted and recorded in table 5-2.

If the 242F-9C fails to provide the proper carrier output signal, and if the tuning and adjustment procedures performed in paragraph 2.7 fail to correct the abnormal condition, the troubleshooting procedures shown in table 5-2 should be performed. Table 5-3 provides a convenient reference of typical 242F-9C MULTIMETER indications for 50-watt operation on 118, 136, 225, and 400 MHz. To further assist the maintenance technician, transistor voltage data is listed in tables 5-4 through 5-6. Figure 5-1 provides voltage data for the driver tube, V1, and the power amplifier tube, V2.

As a preliminary troubleshooting procedure, the following items should be physically inspected:

a. Electrical connections.
b. Electrical cables.
c. Transformer primary winding jumpers.
d. Fuses.
e. Components (evidence of overheating, arcing, etc.).
f. Relay contacts.
g. Switch terminals.

Warning

The 242F-9C uses high voltages which are dangerous to life. Observe every precaution, even when the power is off.

5.3 DISASSEMBLY

5.3.1 General

The 242F-9C should be disassembled only when repair is necessary. Disassembly procedures for the main chassis and electronic parts can

Table 5-2. Troubleshooting Procedure.

STEP	CONTROL SETTING	TEST POINT	NORMAL INDICATION	PROBABLE CAUSE OF ABNORMAL INDICATION
1	LOCAL-REMOTE key selector switch - OFF. PLATE switch - OFF. MULTIMETER SWITCH - OFF. POWER switch - ON.	POWER and CRYSTAL HEATER indicator lamps	POWER indicator lamp lights. CRYSTAL HEATER indicator lamp will cycle on and off.	Check F402, DS401, DS403, J401, S401, and T402.
2	Same as step 1. MULTIMETER SWITCH - BIAS PS X1.	MULTIMETER	66	a. Check bias power supply components. b. Disconnect bias lead from C48. Connect bias lead to vtvm, and check indication; it should range between 7 and 24 volts. 1. Check C46, C47, and C48. 2. Check driver tube V1. c. Disconnect bias lead from C66. Connect bias lead to vtvm, and check indication; it should range between 33 and 66 volts. 1. Check C61, C65, C66, C88, C89, C90, and C91. 2. Check power amplifier tube V2.
3	Same as step 1. MULTIMETER SWITCH - 28 VPS X1/2.	MULTIMETER	56	Check +28-volt dc power supply components.

Table 5-2. Troubleshooting Procedure (Cont).

STEP	CONTROL SETTING	TEST POINT	NORMAL INDICATION	PROBABLE CAUSE OF ABNORMAL INDICATION
4	Same as step 1. MULTIMETER SWITCH - DR PLATE MA X1. PLATE switch - ON.	PLATE indicator lamp, POWER AMPLIFIER meter, and MULTIMETER	PLATE indicator lamp lights. POWER AMPLIFIER meter and MULTIMETER indications are 0.	Check F401, DS402, T401, S402, S403, S404, S405, S406, S410, K401, and K402.
5	Same as step 4. MULTIMETER SWITCH - 300 VPS X5.	MULTIMETER	60	a. Check +300-volt dc power supply components. b. Check F401 and S408. c. Disconnect +300-volt dc lead to vtvm, and check indication; it should be 300 volts. 1. Check C57, C56, C55, C62, C79, C80, C87, and C60. 2. Check driver and power amplifier tubes.
6	Same as step 4. MULTIMETER SWITCH - 850 VPS X10.	MULTIMETER	85	a. Check +850-volt dc power supply components. b. Check F401 and S408. c. Disconnect +850-volt dc lead from C54. Connect +850-volt dc lead to vtvm, and check indication; it should be +850 volts dc. 1. Check C54, C53, and C52. 2. Check driver tube V1.
7	Same as step 4. MULTIMETER SWITCH - 2000 VPS X40.	MULTIMETER	50	a. Check +2000-volt dc power supply components. b. Check F401 and S408. c. Check for evidence of arcing.

Table 5-2. Troubleshooting Procedure (Cont).

STEP	CONTROL SETTING	TEST POINT	NORMAL INDICATION	PROBABLE CAUSE OF ABNORMAL INDICATION
8	Same as step 4. LOCAL-REMOTE key selector switch - LOCAL KEY. MULTIMETER SWITCH - DR PLATE MA X1. Key transmitter.	Blower, POWER AMPLIFIER meter and MULTI-METER	Blower turns on. POWER AMPLIFIER meter indicates 130 to 150. MULTI-METER indicates 50 to 60.	a. Check B401, F403, and K402. b. Recheck power amplifier tuning and adjustment procedures. c. Check age circuit components.
9	Same as step 8. MULTIMETER SWITCH - OSC.	MULTIMETER		a. Abnormally low. Check crystal and oscillator circuit components. b. Abnormally high. Oscillator is mistuned.
10	Same as step 8. Place MULTI-METER SWITCH in each of following positions: BUFFER DBLR 1 DBLR 2 RF AMP 1 RF AMP 2 RF AMP 3 RF AMP 4	MULTIMETER	**Note** *Enter indications from table 2-4, steps 3.1.5 to 3.1.12 in this column. Also refer to table 5-3 for typical indications.*	Check the components in the appropriate circuit.
11	Same as step 8. MULTIMETER SWITCH - RF PWR.	MULTIMETER	Desired rf power output (watts).	a. Check driver and power amplifier tubes. b. Check age circuit components. c. Check power coupler.

Table 5-2. Troubleshooting Procedure (Cont) (See notes 13 and 16, pages 5-7, 5-8).

STEP	CONTROL SETTING	TEST POINT	NORMAL INDICATION	PROBABLE CAUSE OF ABNORMAL INDICATION
12	Same as step 8. MULTIMETER SWITCH - VSWR.	MULTIMETER	Approximately 1.	a. Check filter (Z3, Z4, or Z5). b. Check power coupler. c. Check for proper output loading.
13	Same as step 8. MULTIMETER SWITCH - % MOD	MULTIMETER	Desired modulation percent.	a. Check audio input level. b. Check modulation circuit components. c. Check audio limiter circuit components. d. Check audio feedback circuit components.

Table 5-3. Typical Multimeter Readings Versus Frequency for 50-Watt Operation.

METER FUNCTION	MULTIMETER INDICATIONS			
	118 MHz	136 MHz	225 MHz	400 MHz
BUFFER	39	46	26	60
DBLR 1	26	30	40	57
DBLR 2	39	40	46	68
RF AMP 1	52	44	74	30

METER FUNCTION	METER INDICATIONS			
	118 MHz	136 MHz	225 MHz	400 MHz
RF AMP 2	50	39	28	26
RF AMP 3	44	28	37	28
RF AMP 4	44	28	16	52

Table 5-4. Nominal Transistor DC Voltages (See notes 13 and 16, pages 5-7, 5-8).

TRANSISTOR	NOTE (pages 5-7, 5-8)	BASE	COLLECTOR	EMITTER
Q1		11.3	15.9	10.7
Q2		5.1	16.9	4.5
Q3	1	5.4	16.9	4.8
Q4	2	5.2	16.9	4.4
Q5	15 *	0.89	16.5	0.54

TRANSISTOR	NOTE (pages 5-7, 5-8)	BASE	COLLECTOR	EMITTER
Q6	15 *	0.54	16.5	0.12
Q101	3	2.05	3.55	1.3
Q102	4	1.36	3.8	0.59
Q103	5	3.45	28.0	2.75
Q104	6	3.8	30.1	3.1

Table 5-4. Nominal Transistor DC Voltages (Cont) (See notes 13 and 16, pages 5-7, 5-8).

TRANSISTOR	NOTE (pages 5-7, 5-8)	BASE	COLLECTOR	EMITTER
Q201	7,8	0.94	29.5	0.64
Q202	9	0.47	6.0	0
Q203	10	0.48	6.0	0
Q204	11	0.24	30.0	0
Q205		5.7	14.1	5.1
Q206		6.6	29.9	6.0
Q301		0.72	4.68	0.18
Q302		0.65	5.4	0.29
Q303		15.9	18.5	15.4
Q304		0.79	13.7	0.28
Q305		4.5	28.6	4.0

TRANSISTOR	NOTE (pages 5-7, 5-8)	BASE	COLLECTOR	EMITTER
Q306		4.5	28.6	4.0
Q307		3.85	28.6	3.4
Q308		1.42	16.4	0.9
Q309		1.47	8.4	1.14
Q310		1.03	3.2	0.4
Q311		16.4	28.8	15.8
Q312		0.59	16.4	0
Q401		40.05	59.0	40.0
Q402		30.05	40.0	30.0
Q403		10.0	34.5	9.45

Table 5-5. Nominal Transistor AC Voltages (See notes 12 and 16, pages 5-7, 5-8).

TRANSISTOR	NOTE (pages 5-7, 5-8)	VHF			UHF		
		BASE	COLLECTOR	EMITTER	BASE	COLLECTOR	EMITTER
Q2		2.9	9.5	2.6	3.1	10.1	2.4
Q3	1	2.9	9.5	2.6	3.3	10.1	1.6
Q4	2	2.6	9.5	2.8	3.1	10.1	2.7
Q101	3	1.92	3.55	1.55			
Q102	4	1.36	3.8	0.59			
Q103	5	1.27	10.6	0.61			
Q104	6	3.8	30.1	3.1			
Q201	7, 8				0.17	14.8	1.26
Q202	9				0.5	6.0	0
Q203	10				0.52	6.0	0
Q204	11				0.69	30.0	0

Table 5-6. Nominal Transistor Audio Voltages (See notes 14 and 16, page 5-8).

TRANSISTOR	NOTE	BASE	COLLECTOR	EMITTER
Q301		2.4 mv	71.0	2.0
Q302		16.8 mv	197.0 mv	15.2 mv
Q303		197.9 mv	2.9 mv	194.0 mv
Q304		19.3 mv	1.75 v	18.0 mv
Q305		0.78 mv	72.0 mv	0.78 v
Q306		1.75 v	72.0 mv	1.75 v
Q307		0.54 v	1.15 mv	0.57 v
Q308		54.0 mv	0.54 v	52.0 mv
Q309		0.197 v	1.95 v	0.19 v
Q310		26.7 mv	180.0 mv	24.5 mv

Notes for Transistor Voltage Tables 5-4, 5-5, 5-6.

1. Measurement taken at junction of L9 and C43.
2. Measurements taken at junction of L13 and C40.
3. Measurement taken at junction of L102 and C111.
4. Measurement taken at junction of L106 and C124.
5. Measurement taken at junction of L112 and C142.
6. Measurement taken at junction of L117 and C154.
7. Measurement taken at junction of L201 and C203.
8. Measurement taken at external end of C202.
9. Measurement taken at junction of L204 and C212.
10. Measurement taken at junction of L206 and C227.
11. Measurement taken at junction of L208 and C239.
12. The ac voltages for the transistors in the oscillator-doubler and exciter modules are average values for a 242F-9C adjusted to 50-watt output.
13. The dc voltages for the transistors in the oscillator-doubler and exciter modules are average values obtained under the following conditions:

    a. The crystal is removed.

Notes for Transistor Voltage Tables 5-4, 5-5, 5-6 (Cont).

b. If an external oscillator is used, P12 is disconnected from J12.

c. AGC control R415 is in maximum counterclockwise position.

d. RF DRIVE control R358 is in maximum clockwise position.

e. 242F-9C is turned on.

f. MULTIMETER SWITCH is off.

14. The audio rms voltage levels are average values and are shown for a 0-dbm input with modulation set for 90 percent.

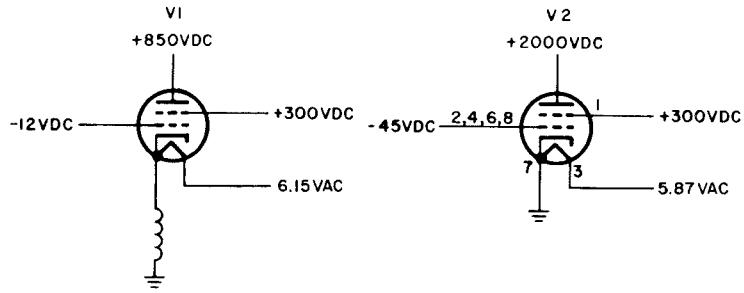
15. De readings obtained by using Weston Model 911A 20,000 Ohm/ Voltmeter except as noted by asterisk (*). These readings are obtained by using Hewlett-Packard Model 410B VTVM.

16. The color coding for the transistors, with the exception of Q401, 402, and 403, are as follows:

Yellow - emitter

Green - base

Blue - collector



NOTES:
1. THE VOLTAGES SHOWN ON THIS CHART ARE AVERAGE VALUES FOR VHF OR UHF TRANSMITTER CONFIGURATIONS ADJUSTED FOR 50 WATTS. RF POWER OUTPUT.
2. ALL VOLTAGE READINGS EXCEPT FOR THE FILAMENT VOLTAGES MAY BE MONITORED DIRECTLY BY THE MULTIMETER.
3. PA AND DRIVER PLATE CURRENTS MAY ALSO BE MONITORED ON THE FRONT PANEL METERS.

TPO-0357-013

Figure 5-1. Nominal Tube Voltages.

be determined by inspection. Disassembly procedures for the PA (power amplifier) tuned cavity are given in the following paragraphs. Figure 6-5 is an exploded view (3 sheets) of the PA tuned cavity to aid in disassembly and assembly procedures. Numbers in parentheses refer to figure 6-5 item numbers. Numbers preceded by a dash are not illustrated.

Warning

Disconnect all power to transmitter and activate HV FILTER SHORT interlock switch S408 before attemping to disassemble any part of the 242F-9C.

Mark or otherwise identify all disconnected electrical wiring. Make note of color coding, placement of leads, and methods of applying insulation (if any) before unsoldering or removing any electrical parts.

*5.3.2 **Driver Tube Removal*** (Refer to figure 6-5, sheet 2.)

a. Remove 14 screws (103) and 14 lockwashers (104) that secure bottom cover (108) to the PA tuned cavity.
b. Loosen electron tube retainer (161) by loosening screw (156).
c. Grasp tube V1 (157) at anode cooler and pull tube straight out of tube socket.

*5.3.3 **Power Amplifier Tube Removal*** (Refer to figure 6-5, sheet 1.)

a. Remove eight screws (-8) and eight lockwashers (-9) that secure top cavity cover (7) to the PA tuned cavity.
b. Loosen electron tube clamp (14) by loosening screw (12) and manually expanding the clamp.
c. Using the tube puller supplied with the transmitter, carefully pull tube V2 (13) straight out of tube socket.

Caution

Do not catch tube puller on electron tube clamp (14).

*5.3.4 **PA Tuned Cavity Removal*** (Refer to figure 6-5.)

a. Disconnect three wires from envelope detector feedthrough capacitors C72, C75, C85 (266, 267, 268); six wires from feedthrough capacitors C70, C57, C66, C51, C48, C54 (251 through 256); and two wires from GND terminal (260) located on PA tuned cavity.
b. Disconnect rf output coaxial cable from connector P6 (49).
c. Remove eight screws that secure the cavity access plate to the right outer wall of the transmitter cabinet.
d. Reach through cavity access hole and unsolder high-voltage lead (red) from C78 (319) on right end of gear train assembly (293, 337, and attached parts).
e. Disconnect cables from J5, P1, and J403 on the exciter module.
f. Remove exciter module by removing four screws.
g. Remove two screws and two flat washers that secure blower motor to mounting brackets.
h. Remove three screws, three lockwashers, and three flat washers that secure the cover on the perforated high-voltage bleeder resistor box.
i. A hole in the right side of the perforated box allows access to one of the screws that secure the PA tuned cavity to the rear wall of the transmitter cabinet. Remove the four screws and four washers that secure the PA tuned cavity to the transmitter cabinet.
j. Remove two screws, two nuts, and one lockwasher that secure driver cover interlock switch S406 to outside bottom surface of driver tube compartment.
k. Cautiously pull tube compartment end of PA tuned cavity slightly toward the front of the transmitter cabinet. Remove two screws that secure power amplifier cover interlock switch S404 to the top of the power amplifier tube compartment.
l. Push cavity to the right until gear train assembly end extends from the cavity access hole enough to allow power amplifier and driver tube compartment end of cavity to be pulled forward until entire cavity is removed from transmitter cabinet.

5.3.5 PA Tuned Cavity Disassembly (Refer to figure 6-5.)

a. Remove electron tube clamp (14) by removing two screws (15), two lockwashers (16), and lug terminal (17).
b. Remove electron tube chimney (18) from power amplifier tube compartment.
c. Remove two screws (24), two lockwashers (25), and two flat washers (26) that secure capacitor assembly C76 (22) to two hanger brackets (33, 39) inside the power amplifier tube compartment.
d. Separate gearplate assembly from cavity by removing five screws (338), five lockwashers (339), and two flathead screws (340) from inner gearplate (343). Access holes are provided in the outer gearplate (capacitor driver electrical contact plate) (298) for removing screws (338).
e. Carefully remove internal mechanism of cavity by pulling mechanism out of cavity from gear assembly end.
f. Place VHF-UHF band switch S411 (318, 317) in VHF position.
g. Remove capacitor assembly (22) by loosening setscrew (23). Unsolder and remove lug terminal (17) from the high-voltage lead.

Note

If C76 (22) needs disassembly, remove two screws (28), two shouldered plastic washers (29), and remove fixed capacitor C76 (31) from capacitor (32), noting that two washers (29) are thicker than spacer (30).

h. Place VHF-UHF band switch S411 in UHF position.
i. Remove center rf conductor (287) from inner rf conductor (280).
j. Loosen two setscrews (281) in end tap plug (334) and remove inner rf conductor (280) from gearplate assembly.
k. Remove Teflon sleeving (273) from high-voltage lead.

5.3.6 Gearplate Assembly, Disassembly (Refer to figure 6-5, sheet 3.)

a. Loosen gear clamps (306, 320) on spur gears (310, 324). The PA tuning lead screws (282) and tuning slide assembly (286) can now be removed from the inner gearplate (343).
b. Remove four screws (294) and four lockwashers (295).
c. Separate gearplates (298, 343).

Caution

Keep gearplates horizontal, with inner gearplate (343) on bottom and outer gearplate (298) on top, to ensure gears and shafts remain on inner gearplate (343) while removing outer gearplate (298).

d. Unsolder choke L39 (275) from capacitor C78 (319). Remove capacitor C78 by unscrewing it from gearplate (343).

5.3.7 Removal of Power Amplifier Tube Socket and Nonmetallic Gears (Refer to figure 6-5.)

a. Unsolder choke L24 (143) from electron tube clamp (161) and remove screw (159), lockwasher (160), and lug terminal (158) that secure C49 to electron tube clamp (161).
b. Remove two screws (162 and two lockwashers (163) from L27 (p/o electron tube retainer, 161) and remove L27 from between contacts of electrical contact assembly (165).
c. Remove two screws (292), two shouldered washers (291), and two spacer washers (290). Lift out the electrical contact assembly (165), spur gear (167), and pressed capacitor plate (168) of capacitor C58.

Note

If it is necessary to separate pressed capacitor plate (168) of capacitor C58, spur gear (167) and electrical contact assembly (165) for maintenance or replacement, remove three screws (166) and retaining ring (164).

d. Remove disc insulator (170) from between plates (168, 189) of capacitor C58.
e. Remove screws (181, 185), lockwashers (182, 186), and flat washers (183) that se-

cure electrical connecting strap L38 (184) and capacitor assembly C64 (180) to chassis.
f. Remove retaining ring (172) and lift out spur gear (171).
g. Disconnect filament choke L34 and capacitor C67 from tube socket (19) terminal number 3.
h. Disconnect screen lead and capacitors C80 and C87 from tube socket (19) terminal number 1.
i. Disconnect four mica capacitors C88, C89, C90, and C91 from tube socket (19).

Caution

Do not splatter solder on flat surface of pressed gearplate (189) of capacitor C58 where mica capacitors attach.

j. Remove tube socket (19) and electrical contact ring (21) by removing four lead screws (20) and four clamps (p/o 19).

Note

To remove nonmetallic gears in driver assembly, continue with steps k, l, m, and n.

k. Disconnect grid bias choke L32 from standoff terminal (239).
l. Remove knob (173) by loosening two setscrews (174).
m. Remove spur gear (177) after removing retaining ring (176).
n. Remove pressed gearplate (189) after removing nut (190), lockwasher (191), washer (192), screw (193), and lockwasher (194).

*5.3.8 **Driver Tube Socket Removal*** (Refer to figure 6-5, sheet 2.)

a. Remove five flathead screws (196) and four screws (197) that secure panel cover (195) to side of driver tube socket compartment.
b. Unsolder L22, remove screw (199), lockwasher (200), and flat washer (201) that secure electrical lead (198) to electrical contact ring (210); and remove screw (203) and lockwasher (204) that secure lug terminal (202) to electrical contact ring (211).
c. Remove three insulated metal screws (288), three lockwashers (289), three washers (218), and three bushing insulators (219) securing electrical contact ring (210) to clamp disc (216).
d. Remove electrical contact ring (210), five bushing insulators (219), electrical contact ring (211), and capacitor (212).
e. Remove clamp disc (216), electrical contact (214), and capacitor (213).

*5.3.9 **Variable Capacitor C77 and Variable Capacitor C63 Removal*** (Refer to figure 6-5, sheet 1.)

a. Remove eight screws (-8) and eight lockwashers (-9) that secure top cavity cover (7) to the PA tuned cavity.
b. Loosen two setscrews (64).
c. Remove four screws (75) that secure capacitor retainer (79) to cavity and remove knob (63) and capacitor retainer (79).
d. Remove flat washer (67) and spring (73) from shaft (68) of C77.
e. Remove retaining ring (66) from shaft (68) of C77 (70).
f. Remove nut (81), knurled knob (80), and washer from shaft (82) of C63 (84).
g. Remove four self-locking nuts (91) that secure bracket (90). Remove bracket (90).
h. Remove pins (83), setscrews (85), collar (86), retainer (88), and washers (89) from capacitor shaft (84, 87).
i. Remove grooved stud (87) from capacitor shaft (84).
j. Remove flathead screws (93) that secure plate (92) to cavity. Remove electrical contact ring (94).
k. After electron tube clamp (14) and electron tube chimney (18) have been removed, C77 and C63 variable plates (68, 84) may be removed through the power amplifier tube compartment.

5.4 ASSEMBLY

5.4.1 General

Before soldering any part, refer to the notes of color coding, placement of leads, and wire insulation made during disassembly.

5.4.2 Power Amplifier Tube Socket Installation
(Refer to figure 6-5.)

a. Loosely secure electrical contact ring (21) and tube socket (19) using four clamps (p/o 19), and four screws (20).

Note

To install nonmetallic gear assembly, continue with steps b, c, d, e, and f. If gear assembly was not removed, continue with step g.

b. Install spur gear (175) in pressed gearplate (189). Position pressed gearplate (189) in driver tube compartment, and loosely secure it with lockwasher (194), screw (193), washer (192), lockwasher (191), and nut (190).
c. Align tube socket (19) and pressed gearplate (189) so the power amplifier tube center pin keyway, located in pressed gearplate (189), is midway between pins 1 and 8 of tube socket (19). Secure tube socket (19) and pressed gearplate (189) in this position.
d. Secure spur gear (175) with retaining ring (176).
e. Install knob (173) and secure with 2 setscrews (174).

Caution

Do not overtighten setscrews (174) in knob (173) or the knob may break.

f. Connect grid bias choke to stud terminal (239).
g. Connect mica capacitors to tube socket (19).

Caution

Do not splatter solder on flat surface of gearplate (189) near the connection of the mica capacitors.

h. Connect screen lead and capacitors C80 and C87 to tube socket (19) terminal 1.
i. Connect filament choke L34 and capacitor C67 to tube socket (19) terminal 3.
j. Install spur gear (171) and secure with retaining ring (172).

Caution

Place a strip of electrical insulating tape on the cavity wall nearest capacitor assembly C64. The tape should be placed parallel to the side of the capacitor assembly to prevent any arcing between the wall and the capacitor assembly.

k. Install capacitor assembly C64 (180) and electrical connecting strap L38 (184), and secure with washers (183), lockwashers (182, 186), and screws (181, 185).

Caution

Place a piece of electrical insulating tape over the end of capacitor plate (168) to prevent arcing from the capacitor plate to tube V1. Place the tape over the end of capacitor plate but under retaining ring (164).

l. Install disc insulator (170), pressed capacitor plate (168) of C58, spur gear (167), electrical contact assembly (165), and retaining ring (164). Secure pressed capacitor plate (168) with two nylon screws (169). Secure electrical contact assembly (165) to spur gear (167) with three flathead screws (166).

Caution

Do not tighten nylon screws excessively. They may twist off.

m. Carefully place L27 (p/o 161) between contacts of electrical contact assembly (165) and secure with two lockwashers (163) and two screws (162).
n. Loosen two setscrews (174) and rotate electrical contact assembly (165) until it reaches the full counterclockwise position on L27, when viewing L27 from the rear.
o. While holding the electrical contact assembly (165) at the full counterclockwise position of L27, rotate knob (172) pointer to DRIVER decal 0 position and tighten setscrews (174).

5.4.3 Driver Tube Socket Installation (Refer to figure 6-5, sheet 2.)

a. Install capacitor (212), electrical contact ring (211), three bushing insulators (219), electrical contact ring (210), three flat washers (218), and three insulated metal screws (288).
b. Install capacitor (213), electrical contact (214), and clamp disc (216).
c. Screw three insulated metal screws (288) into clamp disc (216).

Note

To obtain proper alignment of tube socket components, insert a tube into socket before tightening three insulated metal screws (288).

d. Solder L22 and install electrical lead (198), flat washer (201), lockwasher (200), and screw (199).
e. Install lug terminal (202) with lockwasher (204) and screw (203).
f. Install driver tube compartment panel cover (195), and secure with four screws (197) and five flathead screws (196).

5.4.4 PA Tuned Cavity Assembly (Refer to figure 6-5.)

Note

If C78 (319) was removed, begin assembly procedure with step a. If C78 (319) was not removed, begin assembly procedure with step d.

a. Screw capacitor C78 (319) into inner gearplate (343) and solder high-voltage conductor splice (273) between C78 (319) and rf coil L39 (275).
b. Assemble spur gears (310, 324) and clamps (306, 320), but do not tighten clamp screws (314, 323).
c. Place outer gearplate (capacitor driven electrical contact plate) (298) over gears and secure in place with four lockwashers (295) and four screws (294).

Caution

Keep inner gearplate (343) horizontal with gears positioned on top of inner gearplate.

Note

Lubrication is not required on gears or bearings.

d. Solder high-voltage wire to L39 (275) using a conductor splice (273A). Solder high-voltage wire to L41 (274) using a conductor splice (273). Place Teflon sleeving (273) over high-voltage lead and attached components.
e. Carefully insert inner rf conductor (280) over Teflon sleeving and into end tap plug (334). Tighten two setscrews (281).

Note

If the inner electrical plug assembly (278) has been accidentally moved during maintenance, position it so that the edge closest gearplate (343) is 1-3/16 inches from gearplate end of end tap plug (334).

f. Using extreme care, place the center rf conductor (287) over the inner rf conductor (280).

Caution

Be very careful when sliding the center rf conductor (287) over the finger stock on the electrical plug assembly (278) and end tap plug (334).

Note

If capacitor assembly C76 (22) was disassembled, place capacitor (32) face up. Fill outer two holes with Dow Corning Silastic 140. Install fixed capacitor (31), spacer (30), and blocking capacitor plate (27). Again fill outer two holes with Dow Corning Silastic

holding assembly together. Install shouldered plastic washers (29) and secure assembly with two screws (28).

g. Install capacitor assembly C76 (22) and tighten setscrew (23). The L-shaped cutout in the blocking capacitor plate (27) must be oriented 180 degrees from the flat of the D-shaped hole in capacitor assembly (32).
h. Solder lug terminal (17) to the high-voltage lead.
i. Loosen clamp (311) on VHF-UHF bandswitch pointer and rotate pointer to VHF position, with center rf conductor (287) against inner gearplate (343).
j. Tighten clamp (311) and rotate bandswitch pointer from VHF to UHF and back to VHF position to check pointer alignment.
k. Position tuning slider assembly (286) over center rf conductor (287) and insert PA tuning lead screws (282) through inner gearplate (343), spur gears (310, 324) and seat in outer gearplate (298).
l. Position tuning slider assembly (286) at right angles with center rf conductor (287) by adjusting one PA tuning lead screw (282). Tighten clamps (311, 320). Position tuning slider assembly (286) to gearplate end of cavity by rotating tuning knob (291).
m. Loosen clamps (311,320).
n. Rotate PA tuning lead screws (282) so tuning slider assembly (286) is parallel to and touching inner gearplate (343) and shoulders of gears (310, 324) are touching the opposite side of inner gearplate.
o. Tighten clamps (311, 320) so PA tuning lead screws (282) are tight with no end play.

Note

End play is defined as the axial motion of tuning slider assembly (286) relative to inner gearplate (343) without rotation of PA tuning lead screws (282).

p. After both clamps are tightened, check tuning slider assembly (286) by rotating tuning knob (291) to ensure it moves freely throughout its range.
q. With tuning slider assembly at gearplate end, remove one mounting screw (289) from fixed mounting rotary counter (288) and manually rotate fixed mounting rotary counter to 0000. Reengage gear and replace mounting screw (289). Check counter adjustment by rotating tuning knob (291) a few turns and then return tuning slider assembly (286) to gearplate end. If counter does not return to 0000, repeat fixed mounting rotary counter adjustment procedure.
r. Using extreme care, install the assembled parts inside the outer conductor (p/o 344), making sure both lead screws enter bearing holes in inner conductor hanger (44).

Caution

Be careful not to damage the finger stock on tuning slider assembly.

s. Attach gear train assembly to PA tuned cavity using five screws (338), five lockwashers (339), and two screws (340) in inner gearplate (343).
t. Install two washers (26), two lockwashers (25), and two screws (24) to secure capacitor assembly C76 (22) to hanger brackets (33, 39) inside the power amplifier tube compartment.

5.4.5 Variable Capacitor C77, Variable Capacitor C63, and Power Amplifier Tube Socket Installation (Refer to figure 6-5, sheet 1.)

a. Insert C77 capacitor shaft plate (65) into Oilite bearing (356). Secure plate with retaining ring (66) using Waldes Truarc pliers number 2.
b. Insert C63 capacitor shaft plate (84) into opposite side of power amplifier tube compartment. Secure plate in place by installing electrical contact ring (94), capacitor hanger plate (92), and four flathead screws (93).
c. Install electron tube chimney (18) and electron tube clamp (14) in power amplifier tube compartment. Keep plates of C77 and C63 on electron tube clamp (14) parallel to wall of compartment.
d. Install lug terminal (17), two lockwashers (16), and two screws (15) to secure electron tube clamps (14) to blocking capacitor plate (27) inside the power amplifier tube compartment.

e. Install power amplifier tube V2 (13) in electron tube clamp (14) and secure using clamp (10), clamp (11), and screw (12).
f. Check that the plates of C77 are one-eighth of an inch apart when retaining ring (66) is touching Oilite bearing.
g. Plate spring (73) and flat washer (67) over shaft of C77.
h. With knob (63) in position on capacitor retainer (79), assemble capacitor retainer (79) on C77 shaft and secure with four screws (75).
i. Position plates of C77 for full mesh.
j. Rotate knob (63) until number 9 on knob aligns with the pin indicator (77). Secure knob (63) to shaft of C77 by tightening two setscrews (64).

Note

If vhf operation is used, be sure that the knob stop is properly positioned and secured on knob attached to shaft of C77.

k. Screw grooved stud (87) into capacitor shaft plate (84). Install collar (86), pins (83), and setscrews (85) in shaft of capacitor shaft plate. Place retaining ring (88) and washer (89) on the capacitor shaft plate (84, 87). Install bracket (90) using four self-locking nuts (91). Install washer (82), knurled knob (80), and nut (81).
l. Position plates of C63 for full mesh.
m. The plates of C77 and C63 must be parallel. If they are not, the plates that are part of the electron tube clamp (14) may be adjusted by loosening two screws (15), adjusting orientation of plate and tightening two screws (15). The variable plate of C77 may be repositioned by loosening four screws (75), and positioning capacitor retainer (79) until plates are parallel, and tightening four screws (75). The variable plate of C63 may be repositioned by loosening four self-locking nuts (91), and positioning bracket (90) until plates are parallel, and tightening four self-locking nuts (91).

5.4.6 PA Tuned Cavity Installation (Refer to figure 6-5.)

a. With gear train reassembled and connected to cavity, install driver tube V1 (13). Install driver tube carefully to prevent breaking center filament contact. If tube binds during installation in socket, gently rock the tube in socket. If the tube still binds, remove tube and repeat procedure.
b. Check driver tube for shorts from grid to ground; resistance should be approximately 2800 ohms.
c. With gear train assembly to right and tube compartment to left, begin to install cavity in cabinet by inserting gear train end into front of cabinet and partially out through hole on right wall of cabinet. Ensure that mounting brackets on cavity are toward the rear wall of cabinet and the envelope detector is toward the front of cabinet.
d. Install power amplifier interlock switch S404 on top side of power amplifier tube compartment.
e. Carefully insert driven tube compartment through hole in rear wall of cabinet.
f. Install four screws that secure cavity to rear wall of cabinet.
g. Install 242F-9C exciter module and secure, using four screws. Connect J403, P1, and P2.
h. Install two screws, one lockwasher, and one nut to secure bracket and driver cover interlock switch S406 to bottom of driver tube compartment.
i. Install cover on perforated high-voltage supply box using three flat washers, three lockwashers, and three screws.
j. Mount blower motor and secure with two screws and two washers.
k. Install driver tube compartment cover (108) and secure with 14 lockwashers (104) and 14 screws (103).
l. Connect high-voltage (red) lead to capacitor C78 (319) and cover connection with sleeving.
m. Install access plate on right outer wall of cabinet and secure with eight lockwashers and eight screws.
n. Connect rf output coaxial cable P6 to J6.

o. Connect three wires to feedthrough capacitors C72, C75, and C85 located on the envelope detector. Connect the white-red-green wire to C72, the white-brown-green to C75, and the blue wire to C85.

p. Connect six wires to feedthrough capacitors C48, C51, C54, C57, C66, and C70 located on cavity. Connect one violet wire to C48, one brown wire to C51, the blue wire to C54, the orange wire to C57, the other violet wire to C66, and the other brown wire to C70. Connect the two black wires to ground terminal.

q. Install power amplifier tube compartment cover (7) and secure with eight lockwashers (-9) and eight screws (-8).

section 6
parts list

6.1 INTRODUCTION

6.1.1 General

This parts list is a complete list of parts for the equipment manufactured by Collins Radio Company (figure 6-1).

The purpose of this parts list is for identification, requisitioning, and issuance of parts.

Collins Radio Company part numbering system is comprised of a 3-digit family number, a 4-digit serial number, and a 2- or 3-digit dash number:

FAMILY NO	SERIAL NO	DASH NO
XXX	XXXX	XX or XXX

This parts list consists of four sections: Introduction, Numerical Index, Symbol Index, and Group Assembly Parts List.

If a part is purchased by Collins Radio Company from a vendor, a Federal Manufacturer's Code number is listed in the nomenclature column. If this column does not include a Federal Manufacturer's Code Number, the item is either a MIL approved item, commerical item, or manufactured by Collins. Where COML appears in this column, the part may be obtained commercially from various vendors. Part numbers appearing in this column are Collins assigned part numbers for that item. Serial numbers or MCN (manufacturing control number) or CI (configuration identifier) effectivities, where applicable, are listed in this column. Serial number effectivities are designated on the nameplate. The MCN or CI is stamped on each module and/or chassis. Changes made from service bulletins are so indicated by SB1, SB2, etc.

6.1.2 Manufacturer's Code and Name Index

CODE	MANUFACTURER'S NAME AND ADDRESS
00213	Sage Electronics Corp. P.O. Box 3926 Rochester, NY 14610
00287	C E M Co., Inc. 24 School Danielson, CT 06239
00471	Dow-Key Co., Inc. P.O. Box 265 Broomfield, CO 80020
00779	Amp, Inc. P.O. Box 3608 Harrisburg, PA 17105
01002	General Electric Co. Industrial and Power Capacitor Dept. John St. Hudson Falls, NY 12839
01121	Allen-Bradley Co. 1201 S. 2nd St. Milwaukee, WI 53204
01881	Anconda American Brass Co. 128 Robbins St. Waterbury, CT 06720
04009	Arrow-Hart and Hegeman Electric Co. 103 Hawthorne St. Hartford, CT 06106
04426	Illinois Tool Works, Inc. Licon Div. 6615 W. Irving Park Rd. Chicago, IL 60634

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CODE	MANUFACTURER'S NAME AND ADDRESS
06980	Varian Associates Eimac Div. 301 Industrial Way San Carlos, CA 94070
07700	Technical Wire Products, Inc. 129 Dermody St. Cranford, NJ 07016
08484	Breeze Corp., Inc. 700 Liberty Ave. Union, NJ 07083
08524	Deutsch Fastener Corp. Los Angeles, CA 90053
08664	Bristol Co. The Bristol Plts Mls Waterbury, CT 06720
09214	General Electric Co. Semi-Conductor Products Dept. West Genesee St. Auburn, NY 31022
09922	Burndy Corp. Richards Ave. Norwalk, CT 06852
10583	Columbia Technical Corp. Industrial Mica Div. 223 S. Van Brunt St. Englewood, NJ 07631
10646	Carborundum Co., The P.O. Box 337 Niagara Falls, NY 14302
12014	Chicago Rivet and Machine Co. 950 S. 25th Ave. Bellwood, IL 60104
12615	U.S. Terminals, Inc. 7504 Camargo Rd. Cincinnati, OH 45243
12825	Meyercord Co. 2915 S. Vail Ave. Los Angeles, CA 90022
13499	Collins Radio Co. 5225 C Ave. NE Cedar Rapids, IA 52406
25828	Grammes, L.F. and Sons, Inc. 344 Union Allentown, PA 18102
42689	National Lock Co. 1902 7th Rockford, IL 61101
46384	Penn Engineering and Mfg. Corp. Old Easton Hwy. Doylestown, PA 18901
49671	Radio Corp. of America 30 Rockefeller Plaza New York, NY 10020
50133	Controls Co. of America Motor Div. 201-311 E. Monroe St. Owosso, MI 48867
53021	Sangamo Electric Co. 1301 North 11th Springfield, IL 62705
56289	Sprague Electric Co. North Adams, MA 01247
70417	Chrysler Corp. Amplex Div. 6501 Harper Ave. Detroit, MI 48211
70674	ADC Products Div. of Magnetic Controls Co. 6405 Cambridge St. Minneapolis, MN 55426
70998	Bird Electronic Corp. 30303 Aurora Rd. Cleveland, OH 44139
71286	Camloc Div. Rex Chainbelt, Inc. 22 Spring Valley Rd. Paramus, NJ 07652

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CODE	MANUFACTURER'S NAME AND ADDRESS
71313	Cardwell Condenser Corp. 80 E. Montauk Hwy. Lindenhurst, Long Island, NY 11757
71400	Bussmann Mfg. Div. of McGraw-Edison Co. 2536 W. University St. St. Louis, MO 63017
71468	ITT Cannon Electric, Inc. 3208 Humbolt St. Los Angeles, CA 90031
71590	Globe-Union, Inc. Centralab Div. P.O. Box 591 Milwaukee, WI 53201
71785	Cinch Mfg. Co. and Howard B. Jones Div. 1026 S. Homan Ave. Chicago, IL 60624
72136	Electro Motive Mfg. Co., Inc., The South Park and John Streets Willimantic, CT 06226
72619	Dialight Corp. 60 Stewart Ave. Brooklyn, NY 11237
72962	Elastic Stop Nut Div. of Amerace Esna Corp. 2330 Vauxhall Rd. Union, NJ 07083
72982	Erie Technological Products, Inc. 644 W. 12th St. Erie, PA 16512
73386	Freed Transformer Co., Inc. 1736 Weirfield St. Brooklyn, NY 11227
73899	J F D Electronics Corp. 15th at 62nd St. Brooklyn, NY 11219
74545	Hubbell, Harvey, Inc. State St. and Bostwick Ave. Bridgeport, CT 06602
74868	Amphenol Corp. Amphenol RF Div. 33 E. Franklin St. Danbury, CT 06810
74970	Johnson, E. F. Co. 297 Tenth Ave. S.W. Waseca, MN 56093
75263	Keystone Carbon Co., Inc. 1935 State St. St. Marys, PA 15857
75378	C T S Knights, Inc. 101 E. Church St. Sandwich, IL 60548
76487	Millen James Mfg. Co., Inc. 150 Exchange St. Malden, MA 02148
76854	Oak Mfg. Co. Div. of Oak Electro/Netics Corp. South Main Crystal Lake, IL 60014
77147	Patton-Mac Guyer Co. Div. of Avid Corp. 17 Virginia Ave. Providence, RI 02905
77250	Pheoll Mfg. Co. Div. of Allied Products Corp. 5700 W. Roosevelt Rd. Chicago, IL 60650
77342	American Machine and Foundry Co. Potter and Brumfield Div. P.O. Box 522 Princeton, IN 47570
77554	Reliable Electric Co. 11333 Addison Franklin Park, IL 60131

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CODE	MANUFACTURER'S NAME AND ADDRESS
78189	Illinois Tool Works, Inc. Shakeproof Div. St. Charles Rd. Elgin, IL 60126
78488	Stackpole Carbon Co. St. Marys, PA 15857
79136	Waldes Kohinoor, Inc. 47-16 Austel Place Long Island City, NY 11101
79142	Veeder Root, Inc. Hartford, CT 06601
80223	United Transformer Co. 150 Varick St. New York, NY 10013
82647	Metals and Controls, Inc. Control Products Group 34 Forest St. Attleboro, MA 02703
91506	Augat, Inc. 33 Perry Ave. Attleboro, MA 02703
91637	Dale Electronics, Inc. P.O. Box 609 Columbus, NB 68601
91663	Armel Electronics, Inc. 1601 75th St. North Bergen, NJ 07047
91929	Honeywell, Inc. Micro Switch Div. Chicago and Spring Streets Freeport, IL 61032
94222	Southco, Inc. Lester, PA 19113
94375	Automatic Metal Products Corp. 315-323 Berry St. Brooklyn, NY 11211
95987	Weckesser Co., Inc. 4444 W. Irving Park Rd. Chicago, IL 60641
96341	Microwave Associates, Inc. South Ave. Burlington, MA 01801
97424	General Electric Co. Aerospace Electrical Equip. Dept. 40 Federal St. West Lynn, MA 01905
98291	Sealectro Corp. 225 Hoyt Mamaroneck, NY 10544
98978	International Electronic Research Corp. 135 W. Magnolia Ave. Burbank, CA 91502
99378	Atlee Corp. 2 Lowell Ave. Winchester, MA 01890

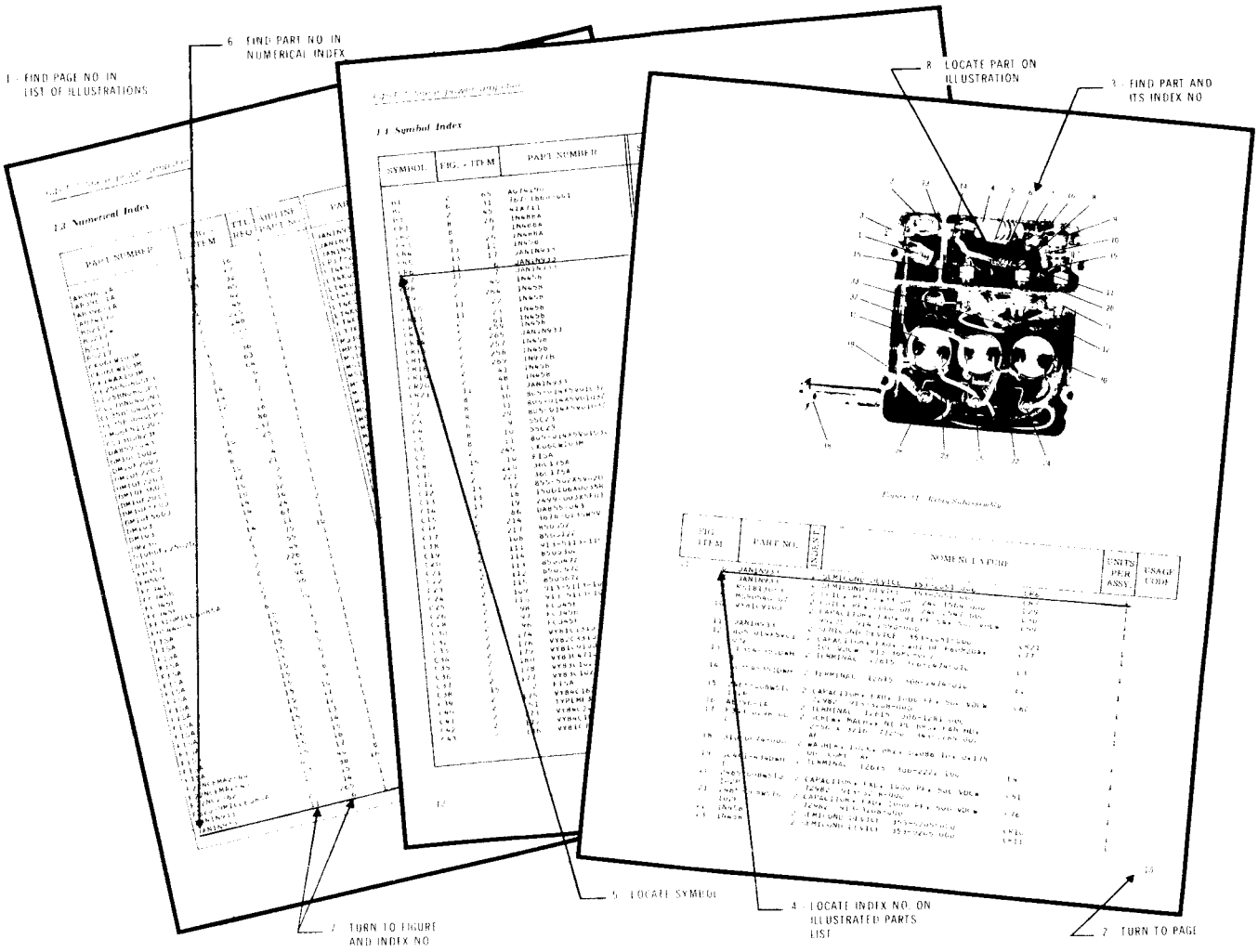
6.1.3 Table I

a. Usage Codes

The following codes have been assigned in this manual:

USAGE CODE	UNIT	FIGURE
A	242F-9C Radio Transmitter (522-4646-001)	6-1
B	242F-9C Radio Transmitter (522-4646-002)	6-1

How to Use This Illustrated Parts List



HOW TO FIND THE PART NUMBER IF THE SECTION OR SYSTEM OF THE EQUIPMENT IN WHICH THE PART IS USED IS KNOWN:

(1) Turn to the List of Illustrations and find the page number for the Major Assembly or System in which the part is used.

(2) Turn to the page determined in step (1).

(3) Locate the part and its index number on the illustration.

(4) Find the index number on the Illustrated Parts List page to determine complete description.

(5) If the reference designation symbol is known, refer to the Symbol Index to find the part number.

HOW TO FIND THE ILLUSTRATION FOR A PART IF THE PART NUMBER IS KNOWN:

(6) Refer to the Numerical Index and find the part number.

(7) Turn to the Illustrated Parts List and find the first figure and index number indicated in the Numerical Index for that part. If this figure shows the part in a section or system of the equipment other than the one desired, refer to the other figure numbers listed in the Numerical Index.

(8) On the face of the illustration, find the index number determined in step (7).

NUMERICAL INDEX

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
AB396-1		6- 5 236	2
AB396-1		6- 7 9	1
AB396-1		6- 8 83	5
AB396-1		6- 9 44	9
AB396-2		6- 5 133	1
AB396-2		6- 5 260	1
AB396-2		6- 9 118	2
AB397-1		6- 2 167	14
AB397-1		6- 6 10	1
AB397-1		6- 7 118	2
AB397-1		6- 7 134	10
AB397-1		6- 8 71	1
AB397-1		6- 9 28	3
AB404D		6- 3 33	3
AB406D		6- 2 128	7
AB406D		6- 3 34	1
AB406D		6- 7 100	1
AB406D		6- 8 29	1
AB406D		6- 8 44	4
AK2HC1AX		6- 1 185	1
AN936B416B		6- 9 79	1
AN936B416B		6- 9 79	1
AN960-616L		6- 5 192	1
A15845		6- 2 78	1
A1648S		6- 1 221	1
A1649C		6- 1 223	1
CA20418-4		6- 1 123	2
CC20CH050D		6- 5 144	1
CC20CH050D		6- 5 145	1
CC20CH050D		6- 5 149	1
CC20CH050D		6- 5 150	1
CK12AX102M		6- 9 37	1
CK12AX102M		6- 9 48	1
CK60AW102M		6- 1 27	1
CK60AW102M		6- 1 35	1
CK60AW102M		6- 2 53	1
CK60AW102M		6- 2 62	1
CK60AW102M		6- 2 68	1
CK60AW102M		6- 2 161	1
CK60AW102M		6- 7 28	1
CK60AW102M		6- 7 48	1
CK60AW102M		6- 7 54	1
CK60AW102M		6- 7 58	1
CK60AW102M		6- 7 78	1
CK60AW102M		6- 7 128	1
CK60AW102M		6- 7 131	1
CK60AW102M		6- 7 145	1
CK60AW102M		6- 8 68	1
CL25BHC080UP3		6- 8 13	1
CL25BNC080SP3		6- 2 116	1
CMC5CC50K03		6- 9 58	1
CMC5CC50K03		6- 9 87	1
CMC5CC50K03		6- 9 104	1
CMC5CC50K03		6- 9 141	1
CMC5D101K03		6- 2 119	1
CMC5D101K03		6- 9 27	1
CMC5D181K03		6- 9 139	1
CMC5D391K03		6- 9 25	1
CMC5D470K03		6- 9 140	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
CM05ED220J03		6- 7 121A	1
CMC5E200J03		6- 6 13	1
CM05E820J03		6- 5 147	1
CMC5F100J03		6- 5 109	1
CMC5F391J03		6- 5 148	1
CMC6F821J03		6- 9 129	1
CP54B1FF105K1		6- 1 113	1
CS13BG105M		6- 2 70	1
CS13BG105M		6- 2 132	1
CS13BG105M		6- 8 20	1
CS138C107M		6- 7 41	1
CS138C107M		6- 7 43	1
CS138C107M		6- 7 72	1
CS138F156M		6- 3 6	1
CS138F156M		6- 6 9	1
DCS1-2 1R240F		6- 1 140	1
DE9PC33		6- 7 92	1
DE9PC33		6- 8 151	1
DE9SC7		6- 1 122	1
DK156-48		6- 1 99	1
DM15C050D01		6- 7 84	1
DM15C100J01		6- 7 57	1
DM15C100J01		6- 7 80	1
DM15C100J01		6- 7 88	1
DM15F471K03		6- 7 94	1
DM15F471K03		6- 9 73	1
DM15F471K03		6- 9 74	1
D25082		6- 4 18	1
D710C-10A1		6- 2 69	2
EH351		6- 6 3	1
FB2B1C2W		6- 5 116	1
FB2B1C2W		6- 5 117	1
FB2B1C2W		6- 5 118	1
FB2B1C2W		6- 5 119	1
FB2B1C2W		6- 5 127	1
FB2B1C2W		6- 5 128	1
FB2B1C2W		6- 5 251	1
FB2B1C2W		6- 5 252	1
FB2B1C2W		6- 5 253	1
FB2B1C2W		6- 5 254	1
FB2B1C2W		6- 5 255	1
FB2B1C2W		6- 5 266	1
FB2B1C2W		6- 5 267	1
FB2B1C2W		6- 7 15	1
FB2B1C2W		6- 7 20	1
FB2B1C2W		6- 7 21	1
FB2B1C2W		6- 7 23	1
FB2B1C2W		6- 7 29	1
FB2B1C2W		6- 7 31	1
FB2B1C2W		6- 7 32	1
FB2B1C2W		6- 7 83	1
FB2B1C2W		6- 7 122	1
FB2B1C2W		6- 7 124	1
FB2B1C2W		6- 7 127	1
FB2B1C2W		6- 7 129	1
FB2B1C2W		6- 7 133	1
FB2B1C2W		6- 7 138	1
FB2B1C2W		6- 7 141	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
FB2B102W		6- 7 143	1
FB2B102W		6- 7 144	1
FB2B102W		6- 9 6	1
FB2B102W		6- 9 8	1
FB2B102W		6- 9 9	1
FB2B102W		6- 9 10	1
FB2B102W		6- 9 11	1
FB2B102W		6- 9 14	1
FB2B102W		6- 9 15	1
FB2B102W		6- 9 17	1
FB2B102W		6- 9 18	1
FB2B102W		6- 9 20	1
FB2B102W		6- 9 71	1
FB2B102W		6- 9 90	1
FB2B102W		6- 9 97	1
FB2B102W		6- 9 99	1
FB2B471Z		6- 5 268	1
FB2B471Z		6- 7 22	1
FB2B471Z		6- 7 25	1
FB2B471Z		6- 7 137	1
FB2B471Z		6- 7 142	1
FB2B471Z		6- 8 8	1
FB2B471Z		6- 8 9	1
FB2B471Z		6- 8 12	1
FB2B471Z		6- 8 14	1
FB2B471Z		6- 8 17	1
FB2B471Z		6- 8 18	1
FB2B471Z		6- 8 21	1
FB2B471Z		6- 8 23	1
FB2B471Z		6- 8 25	1
FB2B471Z		6- 8 54	1
FB2B471Z		6- 8 58	1
FB2B471Z		6- 8 88	1
FB2B471Z		6- 8 128	1
FB2B471Z		6- 8 130	1
FB2B471Z		6- 8 135	1
FB2B471Z		6- 8 142	1
FB2B471Z		6- 8 143	1
FB2B471Z		6- 8 144	1
FB2B471Z		6- 8 146	1
FB2B471Z		6- 8 148	1
FHS44C-4		6- 1 247	9
FHS44C-5		6- 1 248	22
FHS44C-5		6- 5 95	4
FHS44C-6		6- 1 249	2
FHS632-10		6- 1 252	6
FHS632-8		6- 1 251	2
FLEXITETEFON5B		6- 5 273	AR
FT2SM1175		6- 3 40	10
FO2B250V1AS		6- 1 13	1
FO2B250V1AS		6- 1 19	1
F12NCFMA1-62		6- 1 132	4
F12NCFMA1-62		6- 5 353	1
F12NCFMA1-82		6- 1 131	4
F12NCFMA2-62		6- 1 137	4
F12NCFMA2-62		6- 7 149	4
F12NCFMA2-62		6- 8 159	4
F12NCFMA2-62		6- 9 145	6

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
F12NCFMA2-82		6- 1 246	12
F12NCFMA2-82		6- 5 355	4
F22NCFMA1-26		6- 5 358	4
F22NCFMA1-40		6- 5 357	18
F22NCFMA2-40		6- 1 52	2
F22NCFMA2-40		6- 1 245	16
F224-1		6- 5 296	5
F224-1		6- 5 342	2
F347-4		6- 5 297	2
F347-4		6- 5 341	5
F435MILL6085		6- 5 76	1
F435MILL6085		6- 5 356	1
GA-68UUFPORM5PCT		6- 8 112	1
GA-68UUFPORM5PCT		6- 8 119	1
GA-68UUFPORM5PCT		6- 8 126	1
GA-68UUFPORM5PCT		6- 8 154	1
GAC-68MMFD201		6- 7 79	1
GA1-CMMFD201		6- 7 86	1
GA1-CMMFD201		6- 7 89	1
GA1-5UUFPORM5PCT		6- 7 82	1
GA1-5UUFPORM5PCT		6- 9 81	1
GA1-5UUFPORM5PCT		6- 9 85	1
GA2-2UUFPORM5PCT		6- 7 113	1
GA3-3UUFPORM5PCT		6- 7 106	1
GA3-3UUFPORM5PCT		6- 7 117	1
GA3-3UUFPORM5PCT		6- 8 40	1
GA3-3UUFPORM5PCT		6- 8 69	1
GA3-9UUFPORM5PCT		6- 8 36	1
GA3-9UUFPORM5PCT		6- 8 47	1
GA3-9UUFPORM5PCT		6- 8 74	1
GA3-9UUFPORM5PCT		6- 8 75	1
GA3-9UUFPORM5PCT		6- 8 76	1
GA3-9UUFPORM5PCT		6- 9 80	1
GA4-7UUFPORM5PCT		6- 7 98	1
GA5-1UUFPORM5PCT		6- 8 81	1
GA5-1UUFPORM5PCT		6- 8 120	1
G4777-10		6- 5 112	1
G4777-10		6- 5 239	2
G4777-10		6- 7 8	2
G4777-10		6- 7 49	1
G4777-10		6- 7 107	1
G4777-10		6- 8 26	3
G4777-10		6- 8 77	18
G4777-10		6- 9 112	21
HKPH		6- 1 46	1
HKPH		6- 1 48	1
HKPH		6- 1 49	1
HP6N		6- 1 238	1
HP7N		6- 1 72	2
IMC302		6- 2 166A	5
IMC302		6- 8 94	1
IMC302		6- 8 139	1
IMC302		6- 9 96	2
JAN1N3011B		6- 3 26	1
JAN1N3011B		6- 3 27	1
JAN1N933		6- 2 160	1
JAN1N933		6- 2 163	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
JAN1N933		6- 7 87	1
JAN1N933		6- 7 123	1
JAN1N933		6- 7 130	1
JAN1N933		6- 7 139	1
JAN1N933		6- 8 53	1
JAN1N933		6- 8 57	1
JAN1N933		6- 8 141	1
JAN1N933		6- 8 147	1
JAN1N933		6- 9 50	1
JAN1N933		6- 9 52	1
JAN1N933		6- 9 56	1
JAN1N933		6- 9 72	1
JAN1N933		6- 9 101	1
JAN2N1711		6- 9 93	1
JAN2N1711		6- 9 94	1
JAN2N706		6- 9 31	1
JAN2N706		6- 9 108	1
JJC33		6- 2 37	1
KIT		6- 1 256A	1
LS3117		6- 3 7	1
MA4394		6- 7 59	1
MBPLF16		6- 1 234	1
MBPLF16		6- 1 235	1
MB1199		6- 4 14	1
MSX1C-140		6- 1 215	1
MS122C76		6- 5 359	27
MS122C76		6- 7 148	23
MS122C76		6- 8 158	23
MS122C76		6- 9 146	23
MS15571-2		6- 1 10	1
MS15571-2		6- 1 18	1
MS15571-2		6- 1 24	1
MS16562-190		6- 1 115B	2
MS16562-190		6- 4 1	2
MS16562-194		6- 5 178	1
MS16562-194		6- 5 317	1
MS16562-194		6- 7 96	1
MS16562-194		6- 7 104	1
MS16562-194		6- 7 110	1
MS16562-194		6- 7 115	1
MS16562-194		6- 8 37	1
MS16562-194		6- 8 41	1
MS16562-194		6- 8 108	1
MS16562-194		6- 8 122	1
MS16562-194		6- 9 32	1
MS16562-194		6- 9 41	1
MS16562-194		6- 9 59	1
MS16562-194		6- 9 75	1
MS16624-23		6- 5 176	1
MS16633-1012		6- 1 84	2
MS16633-1015		6- 5 88	1
MS16997-11		6- 5 303	1
MS16997-11		6- 5 309	1
MS16997-11		6- 5 314	1
MS16997-11		6- 5 323	1
MS16997-11		6- 5 329	1
MS18130-1		6- 7 60	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
MS18130-10		6- 7 7	1
MS18130-10		6- 7 26	1
MS18130-10		6- 7 27	1
MS18130-10		6- 7 114	1
MS18130-10		6- 7 121	1
MS18130-10		6- 7 140	1
MS18130-12		6- 7 33	1
MS18130-12		6- 9 5	1
MS18130-12		6- 9 19	1
MS18130-12		6- 9 49	1
MS18130-12		6- 9 62	1
MS18130-14		6- 9 12	1
MS18130-14		6- 9 16	1
MS18130-14		6- 9 51	1
MS18130-17		6- 9 7	1
MS18130-17		6- 9 13	1
MS18130-17		6- 9 53	1
MS18130-17		6- 9 63	1
MS18130-2		6- 5 275	1
MS18130-4		6- 8 51	1
MS18130-4		6- 8 59	1
MS18130-4		6- 8 67	1
MS18130-4		6- 8 145	1
MS18130-4		6- 8 153	1
MS18130-7		6- 5 110	1
MS18130-7		6- 5 120	1
MS18130-7		6- 5 121	1
MS18130-7		6- 5 122	1
MS18130-7		6- 5 123	1
MS18130-7		6- 5 125	1
MS18130-7		6- 5 131	1
MS18130-7		6- 5 136	1
MS18130-7		6- 5 139	1
MS18130-7		6- 5 146	1
MS18130-8		6- 9 106	1
MS20426AD2-5		6- 5 352	2
MS20426AD3-4		6- 5 347	6
MS21044D04		6- 1 95	4
MS21044D04		6- 1 108	2
MS21044D04		6- 1 112	2
MS21044D04		6- 1 114	2
MS21044D04		6- 1 117	2
MS21044D04		6- 1 169	4
MS21044D04		6- 2 79	2
MS21044D04		6- 5 91	4
MS21044D04		6-10 17	1
MS21044D06		6- 1 60	2
MS21044D06		6- 1 63	2
MS21044D06		6- 1 100	2
MS21044D06		6- 1 158	1
MS21044D06		6- 1 161	1
MS21044D06		6- 1 226	4
MS21044D06		6- 2 105	2
MS21266-1N		6- 1 133	AR
MS21266-2N		6- 3 32	AR
MS35058-22		6- 1 11	1
MS35059-22		6- 1 20	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
MS35168-88E		6- 1 165	1
MS35168-88F		6- 1 268	1
MS35216-41		6- 1 71	4
MS35216-41		6- 1 75	8
MS35216-41		6- 1 206	2
MS35216-41		6- 1 211	2
MS35216-42		6- 1 127	4
MS35216-42		6- 1 143	4
MS35216-42		6- 1 186	3
MS35216-42		6- 1 189	3
MS35216-44		6- 1 183	2
MS35216-44		6- 1 217	4
MS35216-49		6- 1 90	1
MS35337-78		6- 1 155	1
MS35337-78		6- 5 3	2
MS35337-78		6- 5 6	2
MS35337-78		6- 5 9	8
MS35337-78		6- 5 104	14
MS35337-78		6- 5 224	2
MS35337-78		6- 5 265	5
MS35337-78		6- 5 290	2
MS35337-78		6- 5 295	4
MS35337-78		6- 5 339	5
MS35337-79		6- 1 87	2
MS35337-84		6- 5 191	1
MS35338-134		6- 5 62C	1
MS35338-135		6- 1 84C	2
MS35338-136		6- 1 29C	2
MS35338-136		6- 1 102E	2
MS35338-78		6- 8 4	8
MS35338-78		6- 8 34	15
MS35338-78		6- 9 4	6
MS35338-78		6- 9 23	17
MS35338-79		6- 1 173	4
MS35338-79		6- 3 9	2
MS35338-79		6- 4 23	2
MS35367-913A		6- 1 91	1
MS35367-913A		6- 1 97	1
MS35367-913A		6- 1 98	1
MS35367-913A		6- 1 102	1
MS35367-913A		6- 1 164	1
MS35367-913A		6- 1 166	1
MS35489-1		6- 5 230	1
MS35489-4		6- 5 226	1
MS35649-264		6- 1 90B	2
MS35649-264		6- 1 102D	2
MS35699-64		6- 1 86	2
MS51957-12		6- 1 16	2
MS51957-12		6-10 13	7
MS51957-13		6- 1 107	2
MS51957-13		6- 1 111	2
MS51957-13		6- 1 154	1
MS51957-13		6- 1 170	4
MS51957-13		6- 1 237	1
MS51957-13		6- 4 12	1
MS51957-13		6- 5 246	1
MS51957-13		6- 5 248	1
MS51957-14		6- 1 96	4
MS51957-14		6- 1 229	4
MS51957-14		6- 1 231	4
MS51957-14		6- 4 9	1
MS51957-14		6- 5 8	8

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
MS51957-14		6- 5 103	14
MS51957-14		6- 5 197	4
MS51957-14		6- 5 225	2
MS51957-14		6- 5 264	5
MS51957-14		6- 5 289	2
MS51957-14		6- 5 294	4
MS51957-14		6- 5 338	5
MS51957-14		6- 7 3	8
MS51957-14		6- 7 36	15
MS51957-14		6- 8 3	8
MS51957-14		6- 8 33	15
MS51957-14		6- 9 3	6
MS51957-14		6- 9 22	17
MS51957-14		6-10 19	1
MS51957-15		6- 1 84B	2
MS51957-2		6- 5 62B	1
MS51957-26		6- 3 8	2
MS51957-26		6- 4 22	2
MS51957-27		6- 1 148	4
MS51957-27		6- 1 150	1
MS51957-27		6- 1 152	6
MS51957-28		6- 1 89	1
MS51957-28		6- 1 126	4
MS51957-28		6- 1 136	2
MS51957-28		6- 1 160	1
MS51957-28		6- 1 162	1
MS51957-28		6- 2 107	2
MS51957-3		6- 1 76C	2
MS51957-30		6- 1 144	1
MS51957-6		6-10 3	2
MS51959-11		6- 5 340	2
MS51959-14		6- 5 196	5
MS51959-14		6- 5 333	4
MS51959-15		6- 1 38	2
MS51959-15		6- 1 51	2
MS51959-15		6- 1 118	2
MS51959-15		6- 5 169	2
MS51959-3		6- 5 335	3
MS51959-30		6- 1 61	2
MS51959-30		6- 1 64	2
MS51959-30		6- 1 101	2
MS51959-32		6- 1 175	4
MS51959-34		6- 1 102G	2
MS51959-45		6- 1 68	4
MS51959-45		6- 1 239	1
MS51960-65		6- 1 241	2
MS51963-33		6- 1 31	1
MS51963-33		6- 5 292	2
MS51963-9		6- 5 23	1
MS51963-9		6- 5 64	2
MS51963-9		6- 5 174	2
MS51963-9		6- 5 279	2
MS51963-9		6- 5 281	1
MS51981-9		6- 5 85	2
MS75008-28		6- 5 143	1
NCN10-1-6		6- 1 242	2
NC1032NAT		6- 1 26	2
NC1032NAT		6- 1 34	2
PL4787		6- 9 76	1
PL4788		6- 9 33	1
PL4788		6- 9 60	1
PT1141-34		6- 5 288	1
P312-0113-000		6- 1 22	3

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
P313-C045-000		6- 1 172	4
P313-C050-000		6- 2 129	7
P313-C050-000		6- 2 168	14
P313-C050-000		6- 3 35	4
P313-C050-000		6- 5 98	2
P313-C050-000		6- 6 11	1
P313-C050-000		6- 7 101	1
P313-C050-000		6- 7 135	10
P313-C050-000		6- 8 30	1
P313-C050-000		6- 8 45	4
P313-C050-000		6- 8 72	1
P313-C050-000		6- 9 29	3
P313-C050-000		6- 9 131	3
P313-C050-000		6- 9 134	1
P313-C053-000		6- 9 65	2
P313-C055-000		6- 5 81	1
P313-C062-000		6- 5 190	1
P313-C132-000		6- 5 223	2
P313-C140-000		6- 2 99	2
P313-C140-000		6- 2 102	2
P313-C140-000		6- 5 206	1
P313-C143-000		6- 5 141	1
P313-C156-000		6- 5 35	2
P313-C156-000		6- 5 40	2
P313-C156-000		6- 5 45	4
P313-C156-000		6- 5 53	1
P334-C017-000		6- 5 154	1
P334-C278-000		6- 7 119	1
P334-C485-000		6- 5 301	1
P334-C485-000		6- 5 307	1
P334-C485-000		6- 5 312	1
P334-C485-000		6- 5 321	1
P334-C485-000		6- 5 327	1
P334-4120-000		6- 2 36	9
P342-C142-000		6- 5 93	4
P342-C142-000		6- 5 209	4
P342-C142-000		6- 5 237	2
P342-C146-000		6- 5 166	3
P342-C154-000		6- 5 188	1
P342-C157-000		6- 5 38	2
P342-C157-000		6- 5 43	2
P342-0298-000		6- 8 22C	1
P343-C183-000		6- 1 194	3
P343-C285-000		6- 5 2	2
P343-C285-000		6- 5 5	2
P343-C285-000		6- 5 15	2
P343-C285-000		6- 5 55	1
P343-C285-000		6- 5 75	4
P343-0285-000		6- 5 156	1
P343-C285-000		6- 5 162	3
P343-C285-000		6- 5 193	1
P343-C285-000		6- 5 270	3
P343-0285-000		6-10 20	1
P343-C286-000		6- 5 258	2
P343-C287-000		6- 5 20	4
P343-C287-000		6- 5 28	2
P343-C289-000		6- 5 24	2
P343-C289-000		6- 5 48	4
P343-C289-000		6- 5 285	2
P343-C298-000		6- 5 113	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
P343-C298-000		6- 5 134	1
P343-C298-000		6- 5 159	1
P343-C298-000		6- 5 185	1
P343-C298-000		6- 5 199	1
P343-C298-000		6- 5 203	1
P343-C298-000		6- 5 241	1
P343-C298-000		6- 5 261	1
P343-C298-000		6- 7 10	3
P343-C298-000		6- 7 50	1
P343-C298-000		6- 7 108	1
P343-C298-000		6- 8 27	3
P343-C298-000		6- 8 78	18
P343-C298-000		6- 8 84	5
P343-0298-000		6- 8 91C	1
P343-C298-000		6- 9 45	9
P343-C298-000		6- 9 113	21
P343-C298-000		6- 9 119	2
P343-C299-000		6- 5 50	4
P343-C299-000		6- 5 57	1
P343-C299-000		6- 5 59	2
P343-C300-000		6- 5 221	2
P343-C300-000		6- 9 133	3
P343-C300-000		6- 9 137	1
P343-C303-000		6- 5 101	2
P343-C303-000		6- 5 233	2
P343-C303-000		6- 8 105	1
P343-C328-000		6- 5 181	2
P343-C329-000		6- 9 67	2
P343-C332-000		6- 2 104	2
P343-C382-000		6- 4 15	4
P347-0174-000		6- 5 12	1
P347-C176-000		6- 5 12	1
QS20CM32S		6- 1 191	2
RCC7GF153K		6- 8 113	1
RCC7GF153K		6- 8 118	1
RCC7GF153K		6- 8 156	1
RC20GF100K		6- 1 115	1
RC20GF100K		6- 2 1	1
RC20GF100K		6- 2 20	1
RC20GF100K		6- 2 66	1
RC20GF100K		6- 8 19	1
RC20GF101K		6- 7 16	1
RC20GF101K		6- 7 44	1
RC20GF101K		6- 7 47	1
RC20GF101K		6- 7 55	1
RC20GF101K		6- 7 61	1
RC20GF101K		6- 7 66	1
RC20GF102K		6- 1 167	1
RC20GF102K		6- 2 90	1
RC20GF102K		6- 2 126	1
RC20GF102K		6- 2 136	1
RC20GF102K		6- 2 144	1
RC20GF102K		6- 8 5	1
RC20GF102K		6- 8 10	1
RC20GF103K		6- 2 39	1
RC20GF103K		6- 2 121	1
RC20GF103K		6- 6 6	1
RC20GF103K		6- 8 87	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
RC20GF103K		6- 9 89	1
RC20GF104K		6- 7 6	1
RC20GF104K		6- 9 92	1
RC20GF104K		6- 9 143	1
RC20GF105K		6- 5 129	1
RC20GF121K		6- 2 42	1
RC20GF121K		6- 6 14	1
RC20GF121K		6- 8 15	1
RC20GF122K		6- 2 115	1
RC20GF122K		6- 3 30	1
RC20GF122K		6- 9 117	1
RC20GF122K		6- 9 121	1
RC20GF122K		6- 9 124	1
RC20GF123K		6- 2 6	1
RC20GF123K		6- 2 158	1
RC20GF123K		6- 9 138	1
RC20GF151K		6- 2 60	1
RC20GF152K		6- 2 131	1
RC20GF152K		6- 8 91	1
RC20GF153K		6- 6 8	1
RC20GF181K		6- 2 48	1
RC20GF181K		6- 7 42	1
RC20GF182K		6- 2 134	1
RC20GF183K		6- 9 68	1
RC20GF183K		6- 9 69	1
RC20GF184K		6- 2 7	1
RC20GF184K		6- 2 43	1
RC20GF184K		6- 2 84	1
RC20GF221K		6- 7 90	1
RC20GF222K		6- 2 56	1
RC20GF222K		6- 2 73	1
RC20GF222K		6- 2 89	1
RC20GF222K		6- 2 95	1
RC20GF222K		6- 2 118	1
RC20GF222K		6- 7 132	1
RC20GF223K		6- 8 55	1
RC20GF223K		6- 8 56	1
RC20GF223K		6- 8 82	1
RC20GF223K		6- 8 131	1
RC20GF223K		6- 9 100	1
RC20GF224K		6- 9 91	1
RC20GF271K		6- 2 16	1
RC20GF271K		6- 2 94	1
RC20GF272K		6- 2 127	1
RC20GF272K		6- 2 153	1
RC20GF272K		6- 2 155	1
RC20GF272K		6- 2 165	1
RC20GF272K		6- 7 146	1
RC20GF272K		6- 9 57	1
RC20GF272K		6- 9 109	1
RC20GF272K		6- 9 116	1
RC20GF273K		6- 2 152	1
RC20GF273K		6- 8 64	1
RC20GF330K		6- 7 99	1
RC20GF331K		6- 7 53	1
RC20GF331K		6- 7 56	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
RC20GF332K		6- 2 85	1
RC20GF332K		6- 7 18	1
RC20GF332K		6- 7 81	1
RC20GF332K		6- 7 85	1
RC20GF332K		6- 7 95	1
RC20GF332K		6- 7 125	1
RC20GF332K		6- 8 35	1
RC20GF332K		6- 8 60	1
RC20GF332K		6- 8 66	1
RC20GF332K		6- 8 127	1
RC20GF332K		6- 9 82	1
RC20GF332K		6- 9 83	1
RC20GF332K		6- 9 86	1
RC20GF333K		6- 2 125	1
RC20GF391K		6- 2 91	1
RC20GF391K		6- 8 99	1
RC20GF391K		6- 8 136	1
RC20GF392K		6- 2 13	1
RC20GF393K		6- 2 88	1
RC20GF393K		6- 8 6	1
RC20GF470K		6- 2 159	1
RC20GF470K		6- 9 107	1
RC20GF471K		6- 7 65	1
RC20GF471K		6- 8 16	1
RC20GF471K		6- 8 132	1
RC20GF471K		6- 9 105	1
RC20GF471K		6- 9 111	1
RC20GF472K		6- 2 11	1
RC20GF472K		6- 6 7	1
RC20GF472K		6- 8 97	1
RC20GF472K		6- 8 140	1
RC20GF472K		6- 9 88	1
RC20GF560K		6- 7 5	1
RC20GF561K		6- 2 149	1
RC20GF562K		6- 2 38	1
RC20GF563K		6- 2 71	1
RC20GF563K		6- 2 108	1
RC20GF563K		6- 2 124	1
RC20GF680K		6- 8 22A	1
RC20GF681K		6- 2 137	1
RC20GF681K		6- 2 140	1
RC20GF681K		6- 6 15	1
RC20GF681K		6- 9 122	1
RC20GF682K		6- 2 12	1
RC20GF682K		6- 2 47	1
RC20GF682K		6- 2 74	1
RC20GF682K		6- 2 76	1
RC20GF682K		6- 2 120	1
RC20GF682K		6- 2 123	1
RC20GF682K		6- 3 5	1
RC20GF682K		6- 8 96	1
RC20GF682K		6- 8 134	1
RC20GF820K		6- 8 65	1
RC20GF821K		6- 9 125	1
RC20GF822K		6- 9 98	1
RC32GF220K		6-10 6	1
RC32GF271K		6- 2 72	1
RC32GF271K		6- 3 13	1
RC32GF331K		6- 3 28	1
RC32GF472K		6- 2 147	1
RC32GF681K		6- 1 177	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
RC32GF681K		6- 3 4	1
RC42BF561K		6- 8 91A	1
RC42GF104K		6- 3 10	1
RC42GF104K		6- 3 29	1
RC42GF472K		6- 1 178	1
RC42GF472K		6- 3 14	1
RL40C5-31-9-73S1		6- 7 12	1
RL6GIT		6- 8 86	1
RL6GIT		6- 8 90	1
RL6GIT		6- 8 98	1
RN65D10R0F		6-10 11	1
RN65D1001F		6- 7 30	1
RN65D1001F		6-10 11	1
RN65D1002F		6- 2 166	1
RN65D1004F		6- 1 40	1
RN65D1330F		6- 7 14	1
RN65D1471F		6- 8 62	1
RN65D1472F		6- 1 42	1
RN65D17R8F		6- 1 119	1
RN65D1960F		6- 3 25	1
RN65D1964F		6- 2 154	1
RN65D2052F		6- 8 7	1
RN65D2150F		6- 7 13	1
RN65D2151F		6- 7 19	1
RN65D3163F		6- 1 41	1
RN65D3480F		6- 2 112	1
RN65D3830F		6- 7 62	1
RN65D4221F		6- 8 89	1
RN65D4222F		6- 7 34	1
RN65D4640F		6- 2 26	1
RN65D5112F		6- 8 11	1
RN65D5112F		6- 8 22	1
RN65D6812F		6- 1 43	1
RN65D7503F		6- 3 15	1
RN65D8252F		6- 8 24	1
RN65D8660F		6- 1 41	1
RN65D8661F		6- 7 24	1
RN65D9C92F		6- 1 44	1
RN70D2612F		6- 2 63	1
RN70D2612F		6- 2 67	1
RN70D4641F		6- 2 132	1
RN70D5621F		6- 2 93	1
RST2SM1175		6- 3 41	8
RSE2B2-7K3PCTG		6- 5 227	1
RS1ACCB22000F		6- 7 17	1
RS1ACCB22000F		6- 7 126	1
RTMT12M		6-10 12	7
RTMT12M		6-10 15	1
RV2LAYSA103B		6- 2 29	1
RV2LAYSA103B		6- 2 34	1
RV2LAYSA103B		6- 2 35	1
RV2LAYSA252B		6- 2 30	1
RV2LAYSA252B		6- 2 31	1
RV2LAYSA252B		6- 2 32	1
RV2LAYSA501A		6- 2 27	1
RV2LAYSA501A		6- 2 28	1
RV2LAYSA502B		6- 2 33	1
RW67V3R3		6- 4 20	1
RW69V681		6- 4 17	1
RW69V8R2		6- 9 102	1
R3484X1-4NI		6- 5 106	8
R3484X1-8NI		6- 3 39	2

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
R3484X1-8NI		6- 6 5	1
R3484X3-16NI		6- 5 350	8
R4C12X1-8PLAIN		6- 1 8	2
SC136Y		6- 5 138	1
SK604		6- 1 265	1
SK606		6- 5 18	1
SL173-197		6- 2 174	60
SL173-197		6- 6 16	9
SL173-197		6- 7 151	18
SL173-197		6- 8 160	4
SL173-197		6- 9 148	10
SL174-198		6- 2 173	50
SL174-198		6- 7 150	4
SL174-198		6- 8 161	5
SL174-198		6- 9 149	4
SL211-255WHT		6- 1 255	4
SL212-256WHT		6- 1 254	6
SL49C-45BBLK		6- 2 171	1
SL49C-45BRED		6- 2 172	1
SPL4040-2HOTTINNED		6- 5 115	1
SPL4040-2HOTTINNED		6- 5 158	1
SPL4040-2HOTTINNED		6- 5 202	1
SPL4040-2HOTTINNED		6- 5 240	2
SPL4040-4HOTTINNED		6- 5 17	1
SPL4040-4HOTTINNED		6- 5 52	1
SWITCH		6- 1 115A	1
TBA		6- 4 8	1
TE1934A30-2		6- 5 275A	AR
TF300		6- 8 22B	1
TF300		6- 8 91B	1
TS101C01		6- 9 64	1
TXB2-C19-028B		6- 8 104	1
TXB2PC19-28		6- 9 127	1
TXB2PC32-037		6- 2 5	3
TXB2PC32-037		6- 2 64	1
TXB2PC32-037		6- 2 151	1
TXB2PC32-037-3B		6- 8 93	1
TXB2PC32-037-3B		6- 8 138	1
TXB2PC32-037-3B		6- 9 95	2
T1CA148K1PCT		6- 1 139	1
T1532		6- 2 8	1
T1532		6- 2 14	1
T1532		6- 2 18	1
T1532		6- 2 40	1
T1532		6- 2 45	1
T1532		6- 2 54	1
T1532		6- 2 58	1
T1532		6- 2 113	1
T1532		6- 7 38	2
T1532		6- 7 75	1
T1533		6- 7 67	1
UG21EU		6- 1 257	1
UG21EU		6- 1 258	1
UG447U		6- 5 49	1
UG447U		6- 9 130	1
XLC81865-1		6- 5 273	3
009-1804-010		6- 1 190	1
009-3009-000		6- 1 179	1
015-2983-010		6- 1 65	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
018-1395-010		6- 5 21	AR
024-0023-000		6- 1 262	1
031-0250MDP		6- 5 69	1
031-0250MDP		6- 5 71	1
0653ST0853		6- 5 262A	1
0750		6- 5 243	1
0750		6- 7 45	1
0750		6- 7 70	1
0750		6- 8 70	1
0750		6- 8 80	1
0750		6- 9 78	1
1N2612		6- 1 35A	1
1N2612		6- 3 18	1
1N2612		6- 3 19	1
1N2612		6- 3 20	1
1N2612		6- 3 21	1
1N2615		6- 3 1	1
1N2615		6- 3 3	1
1N2615		6- 3 16	1
1N2615		6- 3 17	1
1N2615		6- 3 28	1
1N2615		6- 3 28	1
1N2615		6- 4 19	1
1N3031B		6- 2 139	1
1N3034B		6- 2 135	1
1N4310		6- 6 2	1
1N457		6- 2 21	1
1N457		6- 2 23	1
1N457		6- 2 24	1
1N457		6- 2 25	1
1N457		6- 2 77A	1
1N457		6- 2 77B	1
1N457		6- 2 83	1
1N457		6- 2 111	1
1N457		6- 8 129	1
1N457		6- 8 133	1
1N966B		6- 3 31	1
1N973B		6- 2 146	1
1N973B		6- 2 148	1
1N982B		6- 2 145	1
100-200-5-12		6- 3 38	1
1005CNIPL		6- 5 60	1
116		6- 1 263	1
1214-00-00-0		6- 8 110	1
1214-00-00-0		6- 8 124	1
1214-00-00-0		6- 8 124	1
1214-00-00-0		6- 9 34	1
1214-00-00-0		6- 9 43	1
1214-00-00-0		6- 9 61	1
1214-00-00-0		6- 9 77	1
1214-00-00-0543		6- 8 39	1
1214-00-00-0543		6- 8 43	1
1214-00-00-0543		6- 8 110	1
1214-00-00-0543		6- 9 34	1
1214-00-00-0543		6- 9 43	1
1214-00-00-0543		6- 9 61	1
1214-00-00-0543		6- 9 77	1
124-105-1		6- 5 19	1
125-0375MDP		6- 5 78	1
128A2244G22		6- 1 201	4
128A2244G23		6- 1 208	2

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
14C7-6910-33N10E		6- 5 140	1
15R1-1AC		6- 1 53	1
15R1-1AC		6- 3 11	1
15R1-1AC		6- 4 6	2
15R10-1AC		6- 1 54	1
15R10-1AC		6- 3 12	1
15R10-1AC		6- 4 7	2
15S1-1-1AC		6- 1 5	1
15S1-1-1AC		6- 1 78	3
15S11-2AE		6- 1 6	1
15S11-2AE		6- 1 79	1
15CD103X0035A2		6- 2 49	1
15CD103X0035A2		6- 2 52	1
15CD105X0035A2		6- 2 75	1
15CD156X0020B2		6- 2 10	1
15CD156X0020B2		6- 2 22	1
15CD156X0020B2		6- 2 57	1
15CD156X0020B2		6- 2 86	1
15CD156X0020B2		6- 2 87	1
15CD156X0020B2		6- 2 109	1
15CD156X0020B2		6- 2 110	1
15CD156X0035R2		6- 2 17	1
15CD156X0035R2		6- 2 77	1
15CD156X0035R2		6- 2 138	1
15CD156X0035R2		6- 2 141	1
15CD156X0035R2		6- 2 143	1
15CD225X0035B2		6- 2 92	1
15CD474X0035A2		6- 2 44	1
15CD474X0035A2		6- 2 61	1
15CD474X0035A2		6- 2 122	1
15CD474X0035A2		6- 2 133	1
15CD474X0035A2		6- 2 162	1
15CD474X0035A2		6- 2 164	1
15CD686X0015R2		6- 2 81	1
15CD686X0015R2		6- 2 82	1
15CD686X0015R2		6- 2 156	1
15CD686X0015R2		6- 2 157	1
15CD686X0015R2		6- 8 95	1
16-404		6- 5 97	1
16-404		6- 5 232	1
16-404		6-10 1	1
16C-107-55		6- 7 97	1
16C-107-55		6- 7 105	1
16C-107-55		6- 7 111	1
16C-107-55		6- 7 116	1
16C-130-55		6- 9 42	1
1720-2		6- 2 36A	9
1720-2		6- 2 37A	1
1750S82000-5		6-10 4	1
1750S82000-5		6-10 5	1
1750S82000-5		6-10 7	1
1750S82000-5		6-10 8	1
1750S82000-5		6-10 9	1
1750S82000-5		6-10 10	1
19C372		6- 5 111	1
19C372		6- 5 151	1
19C372		6- 5 153	1
19C372		6- 9 35	1
193-0010-051		6- 8 38	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
193-CC10-051		6- 8 42	1
193-CC10-051		6- 8 109	1
193-CC10-051		6- 8 123	1
2AC3		6- 4 21	1
2N1711		6- 2 2	1
2N1711		6- 2 3	1
2N1711		6- 2 4	1
2N1711		6- 2 9	1
2N1711		6- 2 15	1
2N1711		6- 2 19	1
2N1711		6- 2 41	1
2N1711		6- 2 46	1
2N1711		6- 2 55	1
2N1711		6- 2 59	1
2N1711		6- 2 65	1
2N1711		6- 2 114	1
2N1711		6- 8 92	1
2N1711		6- 8 137	1
2N3054		6- 2 97	1
2N3054		6- 2 98	1
2N3440		6- 2 150	1
2N3563		6- 7 68	1
2N3563		6- 8 103	1
2N3563		6- 9 39	1
2N3563		6- 9 126	1
2N3866		6- 7 39	1
2N3866		6- 7 40	1
2N3866		6- 7 76	1
2N3866		6- 8 49	1
2N3866		6- 8 101	1
2N3866		6- 8 116	1
2C419		6- 1 121	2
2C419		6- 7 93	2
2C419		6- 8 152	2
2104-04-01-2520N		6- 1 115H	1
21C4-C4-01-252CN		6- 1 227	1
21C4-C4-01-252CN		6- 4 10	1
21C4-C4-01-252CN		6-10 16	1
21C4-C6-02-252CN		6- 1 151	1
21C4-C6-02-252CN		6- 1 159	1
21C4-C6-02-252CN		6- 1 195	1
23F1218G2		6- 1 202	1
23F1218G2		6- 1 203	1
23F1241G2		6- 1 204	1
23F1241G2		6- 1 205	1
24C-1653-000		6- 5 51	1
24C-2677-330		6- 2 50	1
2465-CC8W5T0102P		6- 7 71	1
2465-CC8W5T0102P		6- 7 73	1
2465-CC8W5T0102P		6- 7 74	1
2465-CC8W5T0102P		6- 8 155	1
2550C10-5PCT		6- 3 23	1
26C058LK3		6- 1 32	1
28F1521G2		6- 1 209	1
28F1521G2		6- 1 210	1
28C-3796-030		6- 5 62	1
28C-3796-060		6- 7 1	1
28C-3796-07C		6- 8 1	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
3BTL2-OPEN210DEGFCLOS		6- 5 228	1
3BTL2-103C180		6- 5 228	1
302-CC11-000		6- 4 13	1
310-0045-000		6- 1 29B	2
31C-CC45-000		6- 1 156	1
31C-CC45-000		6- 5 235	2
31C-CC45-000		6- 5 250	1
31C-CC45-000		6-10 14	7
31C-CC45-000		6-10 18	1
31C-CC46-000		6- 1 145	1
31C-CC46-000		6- 1 174	4
31C-CC48-000		6- 1 67	4
31C-CC48-000		6- 1 128	4
31C-CC48-000		6- 1 184	2
31C-CC48-000		6- 1 207	2
31C-CC48-000		6- 1 212	2
31C-CC48-002		6- 1 70	4
31C-CC53-000		6- 5 100	2
31C-CC53-000		6- 5 201	1
31C-CC54-000		6- 5 26	2
31C-CC54-000		6- 5 47	8
310-0054-000		6- 5 218	5
310-0054-000		6- 5 218	3
31C-CC55-000		6- 2 103	2
31C-CC55-000		6- 2 106	2
31C-CC55-000		6- 5 183	2
31C-CC60-000		6- 5 82	1
31C-CC60-000		6- 5 89	1
310-0071-000		6- 1 90A	2
31C-CC63-000		6- 5 192	1
31C-CC75-000		6- 2 130	7
31C-CC75-000		6- 2 169	14
31C-CC75-000		6- 3 36	4
31C-CC75-000		6- 5 99	2
31C-CC75-000		6- 5 114	1
31C-CC75-000		6- 5 135	1
31C-CC75-000		6- 5 160	1
31C-CC75-000		6- 5 186	1
31C-CC75-000		6- 5 200	1
31C-CC75-000		6- 5 204	1
31C-CC75-000		6- 5 222	2
31C-CC75-000		6- 5 234	2
31C-CC75-000		6- 5 238	2
31C-CC75-000		6- 5 242	1
31C-CC75-000		6- 5 262	1
31C-CC75-000		6- 6 12	1
31C-CC75-000		6- 7 11	3
31C-CC75-000		6- 7 51	1
31C-CC75-000		6- 7 102	1
31C-CC75-000		6- 7 109	1
31C-CC75-000		6- 7 120	1
31C-CC75-000		6- 7 136	10
310-0075-000		6- 8 22D	1
31C-CC75-000		6- 8 28	3
31C-CC75-000		6- 8 31	1
31C-CC75-000		6- 8 46	4
31C-CC75-000		6- 8 73	1
31C-CC75-000		6- 8 79	18
31C-CC75-000		6- 8 85	5
310-0075-000		6- 8 91D	1
31C-CC75-000		6- 9 30	3

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
31C-CC75-CCC		6- 9 46	9
31C-CC75-CCC		6- 9 120	2
31C-CC75-CCC		6- 9 132	3
31C-CC75-CCC		6- 9 135	1
310-0077-000		6- 5 12A	1
31C-CC78-CCC		6- 2 100	2
31C-CC78-CCC		6- 5 142	1
31C-CC78-CCC		6- 5 182	2
31C-CC78-CCC		6- 5 207	1
31C-CC78-CCC		6- 9 66	2
31C-C131-CCC		6- 5 37	2
31C-C131-CCC		6- 5 42	2
31C-C131-CCC		6- 5 272	3
31C-C395-CCC		6- 4 16	4
31C-C396-CCC		6- 5 16	2
31C-C396-CCC		6- 5 25	2
31C-C396-CCC		6- 5 36	2
31C-C396-CCC		6- 5 41	2
31C-C396-CCC		6- 5 46	4
31C-C396-CCC		6- 5 54	1
31C-C396-CCC		6- 5 155	1
31C-C396-CCC		6- 5 163	3
31C-C396-CCC		6- 5 194	1
310-0396-000		6- 5 217A	5
310-0396-000		6- 5 217A	3
31C-C396-CCC		6- 5 247	1
31C-C396-CCC		6- 5 249	1
31C-C396-CCC		6- 5 259	2
31C-C396-CCC		6- 5 271	3
31C-C396-CCC		6- 5 302	1
31C-C396-CCC		6- 5 308	1
31C-C396-CCC		6- 5 313	1
31C-C396-CCC		6- 5 322	1
31C-C396-CCC		6- 5 328	1
31C-C396-CCC		6- 7 4	8
31C-C396-CCC		6- 7 37	15
31C-C419-CCC		6- 5 67	1
31C-C447-CCC		6- 1 181	3
310-6360-000		6- 1 102F	2
313-CC75-CCC		6- 9 114	21
3136-25		6- 1 12	1
31891		6- 1 35B	3
321-C424-030		6- 5 217	5
327-C41-1CC0PF1KV		6- 5 137	1
327-C41-1CC0PF1KV		6- 5 256	1
33C-CC33-CCC		6- 1 180	3
37888		6- 1 225	1
37889		6- 1 213	1
4-140		6- 1 171	1
4CX250B		6- 5 13	1
4JA723EX39		6- 1 109	1
4JA723EX40		6- 1 105	1
4CC7-4HOTTINNED		6- 2 80	1
4CC7-6HOTTINNED		6- 2 101	2
4C12HOTTINNED		6- 7 46	1
4C40-2HOTTINNED		6- 7 52	1
4C40-2HOTTINNED		6- 9 136	1
4162M		6- 1 168	1
44-1-10-1		6- 1 37	1
4590C		6- 1 232	1
4590C		6- 1 233	1
491CADPL		6- 1 253	1
495L		6- 1 102C	1
5X10102		6- 1 115C	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
50-157-111CYCY1JBA		6- 1 28	1
50-157111KDKD1JAX		6- 1 36	1
5C1459A		6- 5 94	1
5C6-3189-002		6- 5 300	1
5C6-3189-002		6- 5 306	1
5C6-3189-002		6- 5 311	1
5C6-3189-002		6- 5 320	1
5C6-3189-002		6- 5 326	1
5C6-7364-002		6- 5 354	3
51C0-25C		6- 5 172	1
51C0-28C		6- 5 283	2
51C0-37C		6- 5 164	1
522-4646-001		6- 1 0	1
522-4646-002		6- 1 0	1
526-2845-033		6- 2 50	1
528-C6C3-004		6- 1 147	1
528-C6C3-0C4		6- 8 0	REF
528-C6C4-C04		6- 1 147	1
528-C6C4-004		6- 7 0	REF
528-C6C5-001		6- 1 149	1
528-C6C5-0C1		6- 9 0	REF
5284		6- 1 266	1
54C-9C14-003		6- 5 231	2
540-9041-003		6- 5 332	4
54C-9C49-0C3		6- 5 257	2
54C-9C51-003		6- 5 4	2
54C-9178-0C3		6- 1 236	1
54C-9225-0C3		6- 1 197	1
54C-9225-003		6- 1 200	2
54C-9478-003		6- 1 88	1
541-5957-002		6- 8 106	1
541-6004-002		6- 1 29A	2
541-6C51-002		6- 1 196	1
541-6C51-002		6- 1 199	2
541-6123-002		6- 5 61	1
5447A		6- 1 93	1
5448A		6- 1 92	1
5451A		6- 1 94	1
548-3954-002		6- 1 198	3
549-2453-002		6- 1 102A	1
554-8539-002		6- 5 205	1
5541C-111-30		6- 1 39	1
5541C-112-30		6- 1 45	1
5541C-113-30		6- 1 47	1
5555-25MD		6- 5 66	1
5555-37MD		6- 5 277	2
564		6- 1 264	1
6S104C4		6- 5 319	1
6CCD266F200DL4		6- 3 22	1
6CCD476G100DL4		6- 3 2	1
6CCD476G100DL4		6- 3 24	1
6CCD6C6G060DG4		6- 2 142	1
6CCD686G075DJ4		6- 2 96	1
6CC9-8A		6- 6 4	1
61-972RH		6- 1 58	1
663		6- 1 102B	1
68-1660-26		6- 1 76B	2
68-166C-26		6-10 2	2
68NEC4C		6- 1 104	2
68NEC4C		6- 1 214	4
68NEC4C		6- 1 222	4
68NM82		6- 1 66	4
68NM82		6- 1 69	4
68NM82		6- 1 129	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
68NM82		6- 1 216	4
68NM82		6- 1 224	4
6816		6- 5 157	1
69C 5-8X1 11-16CLR		6- 1 261	1
69C 5-8X1 11-16WHT		6- 1 17	1
69C 5-8X1 11-16WHT		6- 1 260	1
7486		6- 1 157	1
756-2890-001		6- 5 85A	1
757-0228-003		6- 5 291	1
757-0229-014		6- 1 30	1
757-4034-001		6- 1 57	1
757-6960-001		6- 7 35	1
757-6961-001		6- 3 42	1
757-6963-001		6- 1 1	1
757-6965-001		6- 5 86	1
757-6966-001		6- 5 90	1
757-6967-001		6- 5 87	1
757-6968-001		6- 5 80	1
757-6969-001		6- 5 84	1
757-6970-001		6- 5 92	1
757-6972-001		6- 2 175	1
757-6977-001		6- 1 15	1
757-6978-002		6- 1 75	14
757-6981-001		6- 1 85	1
757-6982-001		6- 1 23	3
757-6983-001		6- 1 21	2
757-6984-001		6- 1 73	1
757-6985-001		6- 1 74	1
757-6987-001		6- 1 134	1
757-6990-001		6- 1 55	1
757-6991-001		6- 1 136	1
757-6998-001		6- 1 256	1
757-7000-001		6- 5 360	1
761-8250-001		6- 1 240	1
761-8255-001		6- 1 56	1
761-8262-000		6- 2 170	1
761-8263-001		6- 1 82	1
761-8263-001		6- 2 0	REF
761-8264-001		6- 1 120	1
761-8265-001		6- 5 344	1
761-8266-001		6- 1 103	1
761-8266-001		6- 3 0	REF
761-8267-001		6- 1 50	1
761-8268-001		6- 1 125	1
761-8269-001		6- 1 244	1
761-8270-001		6- 3 37	1
761-8271-001		6- 1 231	1
761-8272-001		6- 1 163	1
761-8273-001		6- 1 135	1
763-1421-001		6- 5 282	2
763-1422-001		6- 5 105	1
763-1422-001		6- 5 348	1
763-1423-001		6- 5 107	1
763-1423-001		6- 5 349	1
763-1424-001		6- 5 263	1
763-1425-001		6- 5 33	1
763-1425-001		6- 5 39	1
763-1426-001		6- 5 284	2
763-1427-000		6- 5 305	1
763-1428-001		6- 5 331	1
763-1429-001		6- 5 287	1
763-1431-001		6- 5 325	1
763-1432-001		6- 5 330	1
763-1433-001		6- 5 299	1
763-1434-001		6- 5 315	1
763-1435-000		6- 5 324	1
763-1435-001		6- 5 310	1
763-1436-001		6- 5 304	1
763-1437-001		6- 5 44	1
763-1440-001		6- 5 30	1
763-1441-001		6- 5 346	1
763-1444-001		6- 5 214	1
763-1445-001		6- 5 219	5
763-1445-001		6- 5 219	6
763-1446-001		6- 5 170	1
763-1451-001		6- 1 115D	1
763-1451-001		6- 4 5	1
763-1452-001		6- 1 115E	1
763-1452-001		6- 4 2	1
763-1453-001		6- 1 115J	1
763-1453-001		6- 4 3	1
763-1455-001		6- 1 220	2
763-1456-001		6- 1 219	2
763-1458-001		6- 4 11	1
763-1459-001		6- 4 4	1
763-1460-000		6- 1 176	2
763-1469-001		6- 1 9	1
763-1470-001		6- 1 81	1
763-1474-001		6- 1 218	2
763-1498-001		6- 1 153	1
763-1501-001		6- 4 24	1
763-1503-001		6- 1 192	1
763-1515-001		6- 9 21	1
763-1516-001		6- 9 2	1
763-1517-001		6- 7 152	1
763-1518-001		6- 9 150	1
763-1519-003		6- 1 142	1
763-1519-003		6- 5 0	REF
763-1528-001		6- 8 32	1
763-1529-001		6- 8 2	1
763-1531-001		6- 5 79	1
763-1533-001		6- 5 72	1
763-1534-001		6- 5 68	1
763-1535-001		6- 5 70	1
763-1536-001		6- 5 63	1
763-1537-001		6- 5 58	1
763-1543-001		6- 8 162	1
763-1544-001		6- 9 47	1
763-1545-001		6- 9 55	1
763-1546-001		6- 9 36	1
763-1547-001		6- 7 103	1
763-1548-001		6- 7 77	1
763-1548-001		6- 7 112	1
763-1550-001		6- 1 25	1
763-1550-001		6- 1 33	1
763-1552-001		6- 1 106	1
763-1552-001		6- 1 110	1
763-1553-001		6- 1 29	1
763-1556-001		6- 5 171	1
763-1557-001		6- 5 27	1

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763-1558-001		6- 5 167	1
763-1559-001		6- 5 177	1
763-1560-001		6- 5 179	1
763-1561-001		6- 5 276	1
763-1562-001		6- 5 318	1
763-1566-001		6- 5 298	1
763-1568-001		6- 1 182	1
763-1578-001		6- 5 195	1
763-1582-001		6- 5 343	1
763-1586-001		6- 5 161	1
763-1592-001		6- 6 17	1
763-1594-001		6- 5 245	1
763-1595-001		6- 5 187	1
763-1598-001		6- 1 7	1
763-1599-001		6- 5 96	1
763-1601-001		6- 5 212	1
763-1601-001		6- 5 213	1
763-1601-001		6- 5 215	1
763-1603-001		6- 5 345	1
763-1621-001		6- 5 108	1
763-1622-001		6- 5 7	1
763-1635-001		6- 5 280	1
763-1637-001		6- 7 69	1
763-1642-001		6- 5 205	1
763-1652-001		6- 9 26	1
763-1658-001		6- 5 334	1
763-1659-001		6- 5 184	1
763-1663-001		6- 1 267	1
763-1666-001		6- 5 208	1
763-1669-001		6- 5 274	1
763-1673-001		6- 5 132	1
763-1674-001		6- 5 130	1
763-1675-001		6- 5 126	1
763-1676-001		6- 5 152	1
763-1677-001		6- 5 124	1
763-1678-001		6- 5 198	1
763-1679-001		6- 5 34	1
763-1683-001		6- 1 80	1
763-1685-001		6- 8 48	1
763-1685-001		6- 8 100	1
763-1685-001		6- 8 115	1
763-1687-001		6- 8 50	1
763-1687-001		6- 8 102	1
763-1687-001		6- 8 117	1
763-1688-001		6- 8 111	1
763-1688-001		6- 8 114	1
763-1688-001		6- 8 121	1
763-1689-001		6- 8 107	1
763-1690-001		6- 5 73	1
763-1691-001		6- 8 125	1
763-1692-001		6- 5 1	1
763-1694-001		6- 5 11	1
763-1695-001		6- 5 10	1
763-1706-001		6- 1 62	1
763-1707-001		6- 1 83	1
763-1730-001		6- 7 2	1
763-1737-001		6- 1 59	1
763-1741-001		6- 5 351	1
763-1743-001		6- 1 243	1
763-1980-002		6- 5 14	1
763-1981-001		6- 5 29	2
763-3180-001		6- 1 2	1

PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
767-0944-001		6- 1 124	1
767-6010-001		6- 7 91	1
767-6021-001		6- 1 4	1
767-6029-001		6- 1 193	1
767-6029-001		6-10 0	REF
767-6030-001		6-10 21	1
767-6031-001		6- 1 187	1
767-6032-001		6- 1 188	1
767-6034-001		6- 1 77	1
767-6036-001		6- 9 144	1
767-6038-001		6- 7 147	1
767-6039-001		6- 5 269	1
767-6039-001		6- 6 0	REF
767-6040-001		6- 5 216	1
767-6041-001		6- 5 173	1
767-6042-001		6- 5 165	1
767-6043-001		6- 5 56	1
767-6044-001		6- 5 210	1
767-6045-001		6- 5 211	1
767-6046-001		6- 5 220	1
767-6047-001		6- 5 286	1
767-6048-001		6- 5 278	1
767-6049-001		6- 5 32	1
767-6050-001		6- 5 175	1
767-6051-001		6- 5 189	1
767-6052-001		6- 5 168	1
767-6053-001		6- 5 337	1
767-6054-001		6- 5 180	1
767-6061-001		6- 5 316	1
767-6062-000		6- 5 102	1
767-6063-001		6- 5 74	1
767-6065-001		6- 5 65	1
767-6066-001		6- 5 293	1
767-7421-001		6- 5 229	1
767-7424-001		6- 6 1	1
767-7427-001		6- 8 157	1
767-7428-001		6- 8 150	1
767-7430-001		6- 1 116	1
767-7430-001		6- 4 0	REF
767-7432-001		6- 5 22	1
772-6706-001		6- 1 84A	1
772-6798-001		6- 5 217	5
772-6798-001		6- 5 217	3
773-1458-001		6- 1 115F	1
773-1459-001		6- 1 115G	1
775-2826-001		6- 5 62A	1
775-9671-001		6- 5 170	1
775-9918-001		6- 5 169A	2
775-9919-001		6- 5 169B	2
791-0688-001		6- 1 76A	1
791-3306-001		6- 5 244	1
805-014X5V0103Z		6- 7 64	1
805-014X5V0103Z		6- 7 89A	1
805-014X5V0103Z		6- 8 52	1
805-014X5V0103Z		6- 8 61	1
805-014X5V0103Z		6- 8 63	1
805-014X5V0103Z3		6- 8 149	1
805-014X5V0103Z		6- 9 24	1
805-014X5V0103Z		6- 9 38	1
805-014X5V0103Z		6- 9 40	1
805-014X5V0103Z		6- 9 54	1
805-014X5V0103Z		6- 9 103	1
805-014X5V0103Z		6- 9 110	1
805-014X5V0103Z		6- 9 123	1
805-014X5V0103Z		6- 9 128	1

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PART NUMBER	AIRLINE PART NO.	FIG. - ITEM	TTL REQ
805-014X5V0103Z		6- 9 142	1
825-213X5V0104Z		6- 2 135A	1
825-213X5V0104Z		6- 9 84	1
825-213X5V0104Z		6- 9 115	1
83244A		6- 1 14	1
845-014X5V0503Z		6- 7 63	1
86225		6- 1 228	1
86225		6- 1 230	1
905-CC07		6- 1 259	1
905-CC07		6- 9 1	1
912-4130-010		6- 5 31	1
98-417-352		6- 9 147	3
99-012-062-0187		6- 5 77	1
99-012-062-312		6- 5 83	2
997F14		6- 2 51	1
997F14		6- 2 117	1
997F14		6- 9 70	1

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SYMBOL	FIG. - ITEM	PART NUMBER
B401	6- 1 185	AK2H01AX
CR1	6- 9 72	JAN1N933
CR2	6- 9 101	JAN1N933
CR3	6- 9 56	JAN1N933
CR4	6- 9 52	JAN1N933
CR5	6- 9 50	JAN1N933
CR8	6- 6 2	1N4310
CR101	6- 7 87	JAN1N933
CR102	6- 7 139	JAN1N933
CR103	6- 7 59	MA4394
CR104	6- 7 130	JAN1N933
CR105	6- 7 123	JAN1N933
CR201	6- 8 147	JAN1N933
CR202	6- 8 141	JAN1N933
CR203	6- 8 57	JAN1N933
CR204	6- 8 53	JAN1N933
CR205	6- 8 133	1N457
CR206	6- 8 129	1N457
CR301	6- 2 77A	1N457
CR302	6- 2 24	1N457
CR303	6- 2 77B	1N457
CR304	6- 2 25	1N457
CR305	6- 2 83	1N457
CR306	6- 2 111	1N457
CR307	6- 2 21	1N457
CR308	6- 2 23	1N457
CR309	6- 2 163	JAN1N933
CR310	6- 2 160	JAN1N933
CR401	6- 3 18	1N2612
CR402	6- 3 19	1N2612
CR403	6- 3 20	1N2612
CR404	6- 3 21	1N2612
CR405	6- 3 3	1N2615
CR406	6- 3 16	1N2615
CR407	6- 3 17	1N2615
CR408	6- 3 1	1N2615
CR409	6- 1 109	4JA723EX39
CR410	6- 1 105	4JA723EX40
CR411	6- 3 28	1N2615
CR411	6- 3 28	1N2615
CR412	6- 4 19	1N2615
CR413	6- 1 35A	1N2612
C1	6- 9 25	CM05D391K03
C2	6- 9 129	CM06F821J03
C3	6- 9 139	CM05D181K03
C4	6- 9 128	805-014X5V0103Z
C5	6- 9 141	CM05C050K03
C6	6- 9 104	CM05C050K03
C7	6- 9 140	CM05D470K03
C8	6- 9 142	805-014X5V0103Z
C9	6- 9 103	805-014X5V0103Z
C10	6- 9 71	FB2B102W
C11	6- 9 97	FB2B102W
C12	6- 9 90	FB2B102W
C13	6- 9 60	PL4788
C14	6- 9 58	CM05C050K03
C15	6- 9 27	CM05D101K03
C16	6- 9 35	19C372
C17	6- 9 24	805-014X5V0103Z
C18	6- 9 87	CM05C050K03
C19	6- 9 99	FB2B102W
C20	6- 9 33	PL4788

SYMBOL	FIG. - ITEM	PART NUMBER
C21	6- 9 73	DM15F471K03
C22	6- 9 54	805-014X5V0103Z
C23	6- 9 8	FB2B102W
C24	6- 9 9	FB2B102W
C25	6- 9 123	805-014X5V0103Z
C26	6- 9 10	FB2B102W
C27	6- 9 14	FB2B102W
C28	6- 9 85	GA1-5UUFPORM5PCT
C29	6- 9 6	FB2B102W
C30	6- 9 11	FB2B102W
C31	6- 9 76	PL4787
C32	6- 9 74	DM15F471K03
C33	6- 9 38	805-014X5V0103Z
C34	6- 9 110	805-014X5V0103Z
C35	6- 9 81	GA1-5UUFPORM5PCT
C36	6- 9 20	FB2B102W
C37	6- 9 17	FB2B102W
C38	6- 9 42	160-130-55
C39	6- 9 80	GA3-9UUFPORM5PCT
C40	6- 9 48	CK12AX102M
C41	6- 9 18	FB2B102W
C42	6- 9 15	FB2B102W
C43	6- 9 37	CK12AX102M
C44	6- 9 115	825-213X5V0104Z
C45	6- 9 40	805-014X5V013Z
C46	6- 5 215	763-1601-001
C47	6- 5 127	FB2B102W
C48	6- 5 255	FB2B102W
C49	6- 5 138	SC136Y
C50	6- 5 128	FB2B102W
C51	6- 5 254	FB2B102W
C52	6- 5 140	1407-6910-33N10E
C53	6- 5 137	327-041-1000PF1KV
C54	6- 5 256	327-041-1000PF1KV
C55	6- 5 213	763-1601-001
C56	6- 5 119	FB2B102W
C57	6- 5 252	FB2B102W
C58	6- 5 170	763-1446-001
C58	6- 5 170	775-9671-001
C59	6- 9 84	825-213X5V0104Z
C61	6- 5 111	19C372
C62	6- 5 117	FB2B102W
C63	6- 5 34	757-6969-001
C64	6- 5 180	767-6054-001
C65	6- 5 118	FB2B102W
C66	6- 5 253	FB2B102W
C67	6- 5 151	19C372
C68	6- 5 153	19C372
C69	6- 5 116	FB2B102W
C70	6- 5 251	FB2B102W
C71	6- 6 13	CM05E200J03
C72	6- 5 266	FB2B102W
C73	6- 5 262A	0653ST0853
C74	6- 6 9	CS138F156M
C75	6- 5 267	FB2B102W
C76	6- 5 31	912-4130-010
C78	6- 5 319	6S10404
C79	6- 5 109	CM05F100J03
C80	6- 5 147	CM05F820J03
C85	6- 5 268	FB2B471Z
C87	6- 5 148	CM05F391J03

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SYMBOL	FIG. - ITEM	PART NUMBER
C88	6- 5 150	CC20CH050D
C89	6- 5 149	CC20CH050D
C90	6- 5 145	CC20CH050D
C91	6- 5 144	CC20CH050D
C101	6- 7 94	DM15F471K03
C102	6- 7 144	FB2B102W
C103	6- 7 21	FB2B102W
C104	6- 7 145	CK60AW102M
C105	6- 7 89A	805-014X5V0103Z
C106	6- 7 89	GA1-0MMFD201
C107	6- 7 143	FB2B102W
C108	6- 7 20	FB2B102W
C109	6- 7 97	160-107-55
C110	6- 7 98	GA4-7UUFPORM5PCT
C111	6- 7 64	805-014X5V0103Z
C112	6- 7 142	FB2B471Z
C113	6- 7 22	FB2B471Z
C114	6- 7 88	DM15C100J01
C115	6- 7 63	845-014X5V0503Z
C116	6- 7 141	FB2B102W
C117	6- 7 71	2465-008W5T0102P
C118	6- 7 72	CS138C107M
C119	6- 7 86	GA1-0MMFD201
C120	6- 7 138	FB2B102W
C121	6- 7 23	FB2B102W
C122	6- 7 106	GA3-3UUFPORM5PCT
C123	6- 7 105	160-107-55
C125	6- 7 137	FB2B471Z
C126	6- 7 25	FB2B471Z
C128	6- 7 84	DM15C050D01
C129	6- 7 57	DM15C100J01
C130	6- 7 83	FB2B102W
C131	6- 7 28	CK60AW102M
C132	6- 7 29	FB2B102W
C133	6- 7 133	FB2B102W
C134	6- 7 58	CK60AW102M
C135	6- 7 73	2465-008W5T0102P
C136	6- 7 41	CS138C107M
C137	6- 7 82	GA1-5UUFPORM5PCT
C138	6- 7 129	FB2B102W
C139	6- 7 31	FB2B102W
C140	6- 7 111	160-107-55
C141	6- 7 113	GA2-2UUFPORM5PCT
C142	6- 7 128	CK60AW102M
C143	6- 7 15	FB2B102W
C144	6- 7 80	DM15C100J01
C145	6- 7 54	CK60AW102M
C146	6- 7 127	FB2B102W
C147	6- 7 74	2465-008W5T0102P
C148	6- 7 43	CS138C107M
C149	6- 7 79	GA0-68MMFD201
C150	6- 7 124	FB2B102W
C151	6- 7 32	FB2B102W
C152	6- 7 116	160-107-55
C153	6- 7 117	GA3-3UUFPORM5PCT
C154	6- 7 78	CK60AW102M
C155	6- 7 122	FB2B102W
C156	6- 7 121A	CM05ED220J03
C157	6- 7 131	CK60AW102M
C158	6- 7 48	CK60AW102M
C201	6- 8 155	2465-008W5T0102P
C202	6- 8 148	FB2B471Z
C203	6- 8 9	FB2B471Z
C204	6- 8 68	CK60AW102M
C205	6- 8 154	GA-68UUFPORM5PCT
C206	6- 8 146	FB2B471Z
C207	6- 8 8	FB2B471Z
C208	6- 8 109	193-0010-051
C209	6- 8 74	GA3-9UUFPORM5PCT
C210	6- 8 69	GA3-3UUFPORM5PCT
C211	6- 8 144	FB2B471Z
C212	6- 8 63	805-014X5V0103Z
C213	6- 8 143	FB2B471Z
C214	6- 8 36	GA3-9UUFPORM5PCT
C215	6- 8 112	GA-68UUFPORM5PCT
C216	6- 8 142	FB2B471Z
C217	6- 8 12	FB2B471Z
C218	6- 8 95	150D686X0015R2
C219	6- 8 17	FB2B471Z
C220	6- 8 14	FB2B471Z
C221	6- 8 13	CL25BH080UP3
C222	6- 8 38	193-0010-051
C223	6- 8 18	FB2B471Z
C224	6- 8 75	GA3-9UUFPORM5PCT
C225	6- 8 149	805-014X5V0103Z
C226	6- 8 40	GA3-3UUFPORM5PCT
C227	6- 8 61	805-014X5V0103Z
C228	6- 8 135	FB2B471Z
C229	6- 8 119	GA-68UUFPORM5PCT
C230	6- 8 58	FB2B471Z
C231	6- 8 23	FB2B471Z
C232	6- 8 120	GA5-1UUFPOM5PCT
C233	6- 8 88	FB2B471Z
C234	6- 8 81	GA5-1UUFPORM5PCT
C235	6- 8 130	FB2B471Z
C236	6- 8 42	193-0010-051
C237	6- 8 76	GA3-9UUFPORM5PCT
C238	6- 8 47	GA3-9UUFPORM5PCT
C239	6- 8 52	805-014X5V0103Z
C240	6- 8 128	FB2B471Z
C241	6- 8 126	GA-68UUFPORM5PCT
C242	6- 8 54	FB2B471Z
C243	6- 8 25	FB2B471Z
C244	6- 8 21	FB2B471Z
C247	6- 8 123	193-0010-051
C248	6- 8 20	CS13BG105M
C301	6- 2 77	150D156X0035R2
C302	6- 2 143	150D156X0035R2
C303	6- 2 75	150D105X0035A2
C304	6- 2 110	150D156X0020B2
C305	6- 2 44	150D474X0035A2
C306	6- 2 122	150D474X0035A2
C307	6- 2 49	150D103X0035A2
C308	6- 2 52	150D103X0035A2
C309	6- 2 141	150D156X0035R2
C310	6- 2 138	150D156X0035R2
C311	6- 2 53	CK60AW102M

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SYMBOL	FIG. - ITEM	PART NUMBER
C312	6- 2 57	150D156X0020B2
C313	6- 2 61	150D474X0035A2
C314	6- 2 68	CK60AW102M
C315	6- 2 133	150D474X0035A2
C316	6- 2 62	CK60AW102M
C317	6- 2 157	150D686X0015R2
C318	6- 2 119	CM05D101K03
C319	6- 2 156	150D686X0015R2
C320	6- 2 10	150D156X0020B2
C321	6- 2 86	150D156X0020B2
C322	6- 2 87	150D156X0020B2
C323	6- 2 17	150D156X0035R2
C324	6- 2 22	150D156X0020B2
C325	6- 2 109	150D156X0020B2
C326	6- 2 82	150D686X0015R2
C327	6- 2 81	150D686X0015R2
C328	6- 2 92	150D225X0035B2
C329	6- 2 164	150D474X0035A2
C330	6- 2 162	150D474X0035A2
C331	6- 2 161	CK60AW102M
C401	6- 1 113	CP54B1FF105K1
C402	6- 3 24	600D476G100DL4
C403	6- 2 96	600D686G075DJ4
C404	6- 2 142	600D606G060DG4
C405	6- 3 6	CS13BF156M
C406	6- 3 22	600D266F200DL4
C407	6- 3 2	600D476G100DL4
C409	6- 1 210	28F1521G2
C410	6- 1 209	28F1521G2
C411	6- 1 205	23F1241G2
C412	6- 1 204	23F1241G2
C413	6- 1 203	23F1218G2
C414	6- 1 202	23F1218G2
C415	6- 1 27	CK60AW102M
C416	6- 1 35	CK60AW102M
C417	6- 2 116	CL25BN080SP3
C418	6- 2 70	CS13BG105M
C419	6- 4 18	D25082
C420	6- 2 135A	P25-213X5V0104Z
C421	6- 2 132A	CS13BG105M
DS401	6- 1 18	MS15571-2
DS402	6- 1 10	MS15571-2
DS403	6- 1 24	MS15571-2
F401	6- 1 12	3136-25
F402	6- 1 19	F02B250V1AS
F403	6- 1 13	F02B250V1AS
J4	6- 9 78	0750
J5	6- 5 243	0750
J6	6- 5 49	UG447U
J11	6- 1 230	86225
J12	6- 9 130	UG447U
J15	6- 1 228	86225
J101	6- 7 70	0750
J102	6- 7 45	0750
J201	6- 8 70	0750
J202	6- 8 80	0750
J301	6- 2 37	JJ033
J401	6- 1 157	7486
J403	6- 1 122	DE9SC7

SYMBOL	FIG. - ITEM	PART NUMBER
K401	6- 4 14	MB1199
K402	6- 3 7	LS3117
K403	6- 1 99	DK156-48
L1	6- 9 106	MS18130-8
L2	6- 9 26	763-1652-001
L3	6- 9 62	MS18130-12
L4	6- 9 63	MS18130-17
L5	6- 9 55	763-1545-001
L6	6- 9 7	MS18130-17
L7	6- 9 53	MS18130-17
L8	6- 9 13	MS18130-17
L9	6- 9 36	763-1546-001
L10	6- 9 51	MS18130-14
L11	6- 9 16	MS18130-14
L12	6- 9 12	MS18130-14
L13	6- 9 47	763-1544-001
L14	6- 9 49	MS18130-12
L15	6- 9 5	MS18130-12
L16	6- 9 19	MS18130-12
L19	6- 5 132	763-1673-001
L20	6- 5 131	MS18130-7
L21	6- 5 122	MS18130-7
L22	6- 5 130	763-1674-001
L23	6- 5 126	763-1675-001
L24	6- 5 143	MS75008-28
L25	6- 5 139	MS18130-7
L26	6- 5 125	MS18130-7
L28	6- 5 136	MS18130-7
L29	6- 5 121	MS18130-7
L30	6- 5 110	MS18130-7
L31	6- 5 120	MS18130-7
L32	6- 5 146	MS18130-7
L33	6- 5 123	MS18130-7
L34	6- 5 152	763-1676-001
L35	6- 5 124	763-1677-001
L37	6- 5 51	240-1653-000
L39	6- 5 275	MS18130-2
L40	6- 6 3	EH351
L41	6- 5 274	763-1669-001
L102	6- 7 69	763-1637-001
L105	6- 7 140	MS18130-10
L106	6- 7 103	763-1547-001
L108	6- 7 26	MS18130-10
L109	6- 7 60	MS18130-1
L111	6- 7 27	MS18130-10
L112	6- 7 112	763-1548-001
L113	6- 7 114	MS18130-10
L114	6- 7 7	MS18130-10
L116	6- 7 33	MS18130-12
L117	6- 7 77	763-1548-001
L118	6- 7 121	MS18130-10
L201	6- 8 153	MS18130-4
L202	6- 8 67	MS18130-4
L203	6- 8 111	763-1688-001
L204	6- 8 145	MS18130-4
L205	6- 8 114	763-1688-001
L206	6- 8 59	MS18130-4

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SYMBOL	FIG. - ITEM	PART NUMBER
L207	6- 8 121	763-1688-001
L208	6- 8 51	MS18130-4
L209	6- 8 125	763-1691-001
L301	6- 2 50	240-2677-330
L301	6- 2 50	526-2845-033
L401	6- 1 213	37889
L402	6- 1 225	37888
M401	6- 1 28	50-157-111CYCY1JBA
M402	6- 1 36	50-157111KDKD1JAX
P1	6- 1 233	45900
P2	6- 1 234	MBPLF16
P4	6- 1 232	45900
P5	6- 1 235	MBPLF16
P6	6- 1 164	MS35367-913A
P7	6- 1 165	MS35168-88E
P8	6- 1 166	MS35367-913A
P9	6- 1 91	MS35367-913A
P10	6- 1 97	MS35367-913A
P11	6- 1 257	UG21EU
P12	6- 1 268	MS35168-88E
P13	6- 1 102	MS35367-913A
P14	6- 1 98	MS35367-913A
P15	6- 1 258	UG21EU
P103	6- 7 92	DE9PC33
P203	6- 8 151	DE9PC33
Q1	6- 9 126	2N3563
Q2	6- 9 31	JAN2N706
Q3	6- 9 108	JAN2N706
Q4	6- 9 39	2N3563
Q5	6- 9 93	JAN2N1711
Q6	6- 9 94	JAN2N1711
Q101	6- 7 68	2N3563
Q102	6- 7 39	2N3866
Q103	6- 7 40	2N3866
Q104	6- 7 76	2N3866
Q201	6- 8 103	2N3563
Q202	6- 8 101	2N3866
Q203	6- 8 116	2N3866
Q204	6- 8 49	2N3866
Q205	6- 8 137	2N1711
Q206	6- 8 92	2N1711
Q301	6- 2 41	2N1711
Q302	6- 2 46	2N1711
Q303	6- 2 55	2N1711
Q304	6- 2 59	2N1711
Q305	6- 2 2	2N1711
Q306	6- 2 65	2N1711
Q307	6- 2 19	2N1711
Q308	6- 2 15	2N1711
Q309	6- 2 9	2N1711
Q310	6- 2 114	2N1711
Q311	6- 2 3	2N1711
Q312	6- 2 4	2N1711
Q401	6- 2 97	2N3054
Q402	6- 2 98	2N3054
Q403	6- 2 150	2N3440
RT1	6- 9 70	997F14
RT101	6- 7 12	RL4005-31-9-73S1
RT201	6- 8 98	RL6GIT
RT202	6- 8 90	RL6GIT
RT203	6- 8 86	RL6GIT
RT301	6- 2 51	997F14
RT400	6- 2 117	997F14
R1	6- 9 138	RC20GF123K
R2	6- 9 105	RC20GF471K
R3	6- 9 89	RC20GF103K
R4	6- 9 88	RC20GF472K
R5	6- 9 143	RC20GF104K
R6	6- 9 102	RW69V8R2
R7	6- 9 92	RC20GF104K
R8	6- 9 91	RC20GF224K
R9	6- 9 98	RC20GF822K
R10	6- 9 69	RC20GF183K
R11	6- 9 68	RC20GF183K
R12	6- 9 100	RC20GF223K
R13	6- 9 124	RC20GF122K
R14	6- 9 57	RC20GF272K
R15	6- 9 107	RC20GF470K
R16	6- 9 125	RC20GF821K
R17	6- 9 86	RC20GF332K
R18	6- 9 121	RC20GF122K
R19	6- 9 109	RC20GF272K
R20	6- 9 122	RC20GF681K
R21	6- 9 83	RC20GF332K
R22	6- 9 117	RC20GF122K
R23	6- 9 116	RC20GF272K
R24	6- 9 111	RC20GF471K
R25	6- 9 82	RC20GF332K
R26	6- 6 14	RC20GF121K
R27	6- 6 15	RC20GF681K
R31	6- 6 8	RC20GF153K
R32	6- 6 7	RC20GF472K
R33	6- 6 6	RC20GF103K
R35	6- 1 167	RC20GF102K
R38	6- 5 129	RC20GF105K
R101	6- 7 66	RC20GF101K
R102	6- 7 146	RC20GF272K
R103	6- 7 65	RC20GF471K
R104	6- 7 18	RC20GF332K
R105	6- 7 90	RC20GF221K
R106	6- 7 95	RC20GF332K
R107	6- 7 19	RN65D2151F
R108	6- 7 16	RC20GF101K
R109	6- 7 61	RC20GF101K
R110	6- 7 62	RN65D3830F
R111	6- 7 17	RS1A00B22000F
R112	6- 7 99	RC20GF330K
R113	6- 7 85	RC20GF332K
R114	6- 7 24	RN65D8661F
R115	6- 7 6	RC20GF104K
R116	6- 7 55	RC20GF101K
R117	6- 7 132	RC20GF222K
R118	6- 7 56	RC20GF331K
R119	6- 7 42	RC20GF181K
R120	6- 7 81	RC20GF332K

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SYMBOL	FIG. - ITEM	PART NUMBER
R121	6- 7 30	RN65D1001F
R122	6- 7 47	RC20GF101K
R123	6- 7 53	RC20GF331K
R124	6- 7 126	RS1A00B22000F
R125	6- 7 44	RC20GF101K
R126	6- 7 125	RC20GF332K
R127	6- 7 34	RN65D4222F
R128	6- 7 14	RN65D1330F
R129	6- 7 13	RN65D2150F
R130	6- 7 5	RC20GF560K
R202	6- 8 65	RC20GF820K
R203	6- 8 10	RC20GF102K
R204	6- 8 5	RC20GF102K
R205	6- 8 66	RC20GF332K
R206	6- 8 7	RN65D2052F
R207	6- 8 99	RC20GF391K
R208	6- 8 97	RC20GF472K
R209	6- 8 35	RC20GF332K
R210	6- 8 11	RN65D5112F
R211	6- 8 136	RC20GF391K
R212	6- 8 140	RC20GF472K
R213	6- 8 60	RC20GF332K
R214	6- 8 22	RN65D5112F
R215	6- 8 55	RC20GF223K
R216	6- 8 87	RC20GF103K
R217	6- 8 56	RC20GF223K
R218	6- 8 132	RC20GF471K
R219	6- 8 134	RC20GF682K
R220	6- 8 127	RC20GF332K
R221	6- 8 24	RN65D8252F
R222	6- 8 82	RC20GF223K
R223	6- 8 131	RC20GF223K
R224	6- 8 15	RC20GF121K
R225	6- 8 16	RC20GF471K
R226	6- 8 96	RC20GF682K
R227	6- 8 64	RC20GF273K
R228	6- 8 91	RC20GF152K
R229	6- 8 19	RC20GF100K
R230	6- 8 62	RN65D1471F
R231	6- 8 89	RN65D4221F
R232	6- 8 156	RC07GF153K
R233	6- 8 113	RC07GF153K
R234	6- 8 118	RC07GF153K
R235	6- 8 6	RC20GF393K
R236	6- 8 22A	RC20GF680K
R237	6- 8 91A	RC42BF561K
R301	6- 2 112	RN65D3480F
R302	6- 2 26	RN65D4640F
R303	6- 2 28	RV2LAYSA501A
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