

Weight / Balance & Equipment List Revision
GARDNER AVIATION SPECIALIST, INC. - G3SR222J
500 AVIATION WAY B-5 PEACHTREE CITY GA 30269
770-486-6061

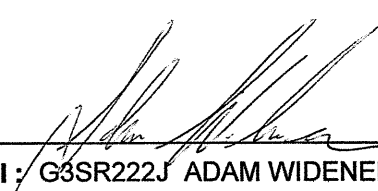
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A/C Tail # : N498HP
Register Name : BLUE RIDGE AIR SERVICE, INC
Name 2 :
Address 1 : SUITE 300 CITIZENS BANK PLAZA
Address 2 :
City, State, PC : ELIZABETHTON, TN 37643

A/C Make : PIPER
A/C Model : PA-32R-301
A/C Serial # : 3246121
WO Ref # : 20634
WB Date : Aug-25-2005
WB ID # : 375

Previous data taken from document dated Nov-02-1998

Model / Part #	Description	(LB / IN)	Weight	CG/Arm	Moment
	Previous data ->		2465.90	87.98	216950.60
* REMOVED					
KN72	CONVERTER		-1.30	217.40	-282.62
KX155A	NAV/COM		-4.10	63.00	-258.30
KLN89B	GPS		-2.70	63.10	-170.37
REMOVED	3 Items @		-8.10	87.81	-711.29
* INSTALLED					
RYAN 9900B TCAD	XPDR COUPLER		0.80	59.60	47.68
RYAN 9900B TCAD	REMOTE PROCESSOR		5.31	215.60	1144.84
RYAN 9900B TCAD	ANTENNA, BOTTOM		0.12	115.60	13.87
RYAN 9900B TCAD	ANTENNA, TOP		0.11	116.60	12.83
RYAN 9900B TCAD	DISPLAY		1.00	63.40	63.40
GDL69	DATA LINK REC.		2.81	39.60	111.28
GDC31	DATA CONVERTER		0.40	41.60	16.64
GNS530	NAV/COM/GPS		8.45	63.00	532.35
GA56	GPS ANTENNA		0.20	100.60	20.12
GA55	WX ANTENNA		0.40	100.60	40.24
INSTALLED	10 Items @		19.60	102.21	2003.24
NEW DATA >>			2477.40	88.09	218242.55


Authorized Individual : G3SR222J ADAM WIDENER

**THE NEW PIPER AIRCRAFT, INC.****PA-32R-301, SARATOGA II HP
EQUIPMENT LIST
S/N 3246098 AND UP****EQUIPMENT LIST**

The following is a list of standard and optional equipment for the PA-32R-301 Saratoga II HP. Optional equipment items marked with an * are installed on the airplane. All items are as described below at the time of licensing by the manufacturer. The New Piper Aircraft, Inc. will not revise this equipment list after the aircraft is licensed. It is the owner's responsibility to retain and amend this equipment list to reflect changes in equipment installed in this airplane.

Unless otherwise indicated, the installation certification basis for the equipment included in this list is the aircraft's approved type design.

THE NEW PIPER AIRCRAFT, INC.

PA-32R-301, SARATOGA II HP

SERIAL NO. 3246121 REGISTRATION NO. N498HP DATE 10/15/98

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In.)
(a) Propeller and Propeller Accessories				
1.	Propeller, Hartzell HC-I3YR-1RF/F7663DR, PS50077-97 Cert. Basis - TC P33EA	74.5	-17.8	-1326.1
3.	Spinner, Hartzell, C-3575-1(P)	4.2	-17.8	-74.8
5.	Propeller Governor, (Hartzell V-5-4), Cert. Basis - TC P33EA	4.5	-3.1	-14.0
(b) Engine and Engine Accessories, Fuel and Oil Systems				
9.	Engine, Lycoming Model IO-540-K1G5, Cert. Basis - TC 1E4	477.4	10.9	5203.7
11.	Engine Driven Fuel Pump, Lycoming P/N 75247, Cert. Basis - TC 1E4 (Included in dry engine weight)	1.7	27.6	46.9
13.	Electric Fuel Pump, Airborne P/N 1B5-6	3.0	112.6	337.8
15.	Fuel Valve, Piper Dwg. 69735-5 (Cameron or Airborne P/N 1-H65-5)	2.4	110.8	265.9
17.	Oil Coolers (2), (Harrison P/N 8543897 or Niagara P/N N.D.M. 20014A)	4.8	22.5	108.0
19.	Air Filter, Fram P/N CA-161PL (PMA 638873)	1.0	16.0	16.0
21.	Starter, Lycoming P/N 31B-22101 (Included in dry engine weight)	7.9	-1.0	-7.9
23.	Oil Filter, Lycoming P/N LW-13215, Cert. Basis - TC 1E4 (Included in dry engine weight)	1.6	43.5	69.6
25.	Alternator, Lycoming supplied P/N 32C22375 (Incl. in dry engine weight)	14.9	-2.5	-37.3
(c) Landing Gear and Brakes				
33.	Main Wheel Assemblies Heavy Duty Group Cleveland Aircraft Products Wheel Assy. 40-120C (2) PS50035- 14			

**PA-32R-301, SARATOGA II HP
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THE NEW PIPER AIRCRAFT, INC.

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In.)
(c) Landing Gear and Brakes (cont)				
33.	Main Wheel Assemblies (cont) Brake Assy. 30-83 (2) PS50121-5, Cert. Basis - TSO C62 6.00 x 6 Type III 8 Ply Rating Tire (2) PS50119-13, and Tubes (2) PS 50119-101, Cert. Basis - TSO C62d	44.8	109.7	4914.6
35.	Nose Wheel Assembly (a) Cleveland Aircraft Products Wheel Assy. No. 40-77B PS50035-24, Cert. Basis - TSO C26a (b) 5.00 - 5 Type III 6 Ply Rating Tire PS50119-10 and Tube PS50119-100, Cert. Basis - TSO C62d	3.0 6.8	14.3 14.3	42.9 97.2
37.	Handbrake Master Cylinder, Cleveland Aircraft Products No. 10-22	0.6	60.9	36.5
39.	Toe Brake Cylinders a. Cleveland Aircraft Products No. 10-27 b. Gar-Kenyon Instruments 17000	0.7 0.4	55.1 55.1	38.6 22.0
41.	Landing Gear Hydraulic Pump (Oildyne 636294), Piper Dwg. 38998-5	9.0	46.6	419.4
43.	Main Gear Hydraulic Cylinders (2), (Syncro Devices SFA 232-3)	2.2	108.0	237.6
45.	Nose Gear Hydraulic Cylinder (Gar Kenyon 94951), Piper Dwg. 35797-2	2.0	41.8	83.6
(d) Electrical Equipment				
47.	Battery Master Relay, Cutler Hammer P/N 6041H202A	0.8	204.0	163.2
49.	Voltage Regulator, Piper Dwg. 68804-5	0.4	19.4	7.8
51.	Battery, Gill G-243, Piper Dwg. 101000	28.0	203.7	5703.6
53.	Starter Relay - Piper Dwg. 26898-3	0.8	32.4	25.9
55.	Stall Warning Lift Detectors (2), Safe Flight 148-7, Piper Dwg. 100838	0.4	85.9	34.4
57.	Stall Warning Horn (Safe Flight P/N 35214) Piper Dwg. 100838	0.2	62.8	12.6
59.	Radio Master Switch Relay, 6041H299, Piper Dwg. 39870-10	0.5	62.6	31.3
61.	Instrument Panel Lights Instl., Piper Dwg. 100838	0.3	67.8	20.3
63.	Cockpit Flood Light (2), Whelen A300-W-28, Piper Dwg. 95229-5	0.2	99.0	19.8
65.	Reading Lights (4), Piper Dwg. 85311-4	0.6	133.0	79.8
67.	Courtesy Lights Instl., Piper Dwg. 87348-5	0.4	125.2	50.1
69.	Forward Baggage Light, Piper Dwg. 87348-5	0.2	43.5	8.7
71.	Nose Taxi Light, Piper Dwg. 85347-3 (G.E. Model 4594)	0.8	24.9	19.9

**THE NEW PIPER AIRCRAFT, INC.****PA-32R-301, SARATOGA II HI
EQUIPMENT LIST
S/N 3246098 AND UP**

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Momen (Lb.-In.)
(d) Electrical Equipment (cont)				
73.	Navigation Lights (Wings) (2) Red/White and Green/White with White Strobe, Whelen, Piper Dwg. 85505-2 Left, Whelen Part No. 90071-00, Right, Whelen Part No. 90071-01	6.6	106.6	703.6
75.	Wing Tip Landing Lights (2), G.E. Model 4594	1.6	94.1	150.6
77.	Heated Pitot Head, Piper Dwg. 46609-0 (AN Heated)	0.9	115.1	103.6
79.	Auxiliary Power Receptacle, Piper Dwg. 101000, MS3506-1 (484-125)	0.9	210.2	189.2
(e) Instruments				
83.	Altimeter, Piper PS50008-10-2 (United Instruments U15934-PD-I) Cert. Basis - TSO C10b	0.9	65.9	59.3
85.	True speed, Airspeed Indicator, Piper PS50049-65T (United Instruments 8125), Cert. Basis - TSO C2b	0.6	66.8	40.1
89.	Manifold Pressure Indicator, Piper Dwg. 100930-8	0.4	65.6	26.2
91.	Compass, Piper Dwg. 67462-9 (Airpath P/N C-2200-L4-1B), Cert. Basis TSO C7c	0.9	64.9	58.4
92.	Indicator, EGT/FF, Piper Dwg. 100930-10	0.6	65.6	39.4
93.	Tachometer, Piper Dwg. 100930-11	0.4	65.6	26.2
95.	Oil press./Oil temp., Piper Dwg. 100930-5	0.6	65.6	39.4
96.	Indicator, VAC/CHT, Piper Dwg. 100930-6	0.6	65.6	39.4
97.	Fuel Quantity Indicator, Piper Dwg. 100930-7	0.6	65.6	39.4
99.	Altitude Reporter, (Narco AR-850), Piper Dwg. 69875-7, Cert. Basis - TSO C88	0.7	56.2	39.3
101.	Rate of Climb, Piper Dwg. 99010-5 (United Instruments P/N UI-7000), Cert. Basis - TSO C8b	0.7	65.9	46.1
102.	Indicator, Digital Display, Piper Dwg. 100930-9	1.2	64.7	77.6
103.	Alternate Static Source Installation, Piper Dwg. 85462-2	0.4	66.0	26.4
105.	Turn Coordinator, Piper PS50030-3-5 (Electric Gyro Corp.1394T100-7Z) Cert. Basis - TSO C8b	1.1	65.9	72.5
109.	Engine Hour Meter (P/N 550-580)	0.3	67.3	20.2
111.	Clock, DVR-300i-XT - Piper Dwg. 87347-5	0.9	67.4	60.7
117.	Vacuum Regulator, Airborne P/N 2H3-19	0.6	53.2	31.9
119.	Vacuum Filter, Airborne P/N 1J7-1 (Piper Dwg. 66673-0)	0.3	53.5	16.1

**PA-32R-301, SARATOGA II HP
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THE NEW PIPER AIRCRAFT, INC.

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In)
(e) Instruments (cont)				
121.	Auxiliary Vacuum System, (Piper Dwg. 87778-4)	11.0	44.0	484.0
123.	Vacuum Pump (Airborne P/N 211CC), Piper Dwg. 79399-0	2.3	27.4	63.0
(f) Cabin Interior				
129.	Pilot Adjustable Seat (leather) with headrest, armrest and lumbar support - Piper Dwg. 89026-12	29.1	91.2	2653.9
131.	CoPilot Adjustable Seat (leather) with headrest, armrest and lumbar support - Piper Dwg. 89026-13	29.7	91.2	2708.6
133.	Center Club Seat (leather) - (left) with headrest, Piper Dwg. 89036-2	21.7	112.8	2447.8
137.	Aft Seat (leather) - (left) with headrest, Piper Dwg. 89046-2	18.2	163.4	2973.9
139.	Aft Seat (leather) - (right) with headrest and center armrest, Piper Dwg. 89046-2	20.8	162.2	3373.8
141.	Front Seat Belts (2), Piper PS50039-4-53 and -4-55, Cert. Basis - TSO C22f	1.8	91.2	164.2
143.	Center Seat Belts (1) aft facing, Piper PS50039-4-53 and -4-56, Cert. Basis - TSO C22f	0.8	113.2	90.6
145.	Aft Seat Belts (2), Piper PS50039-4-53 and 4-55, Cert. Basis - TSO C22f	1.8	163.4	294.1
147.	Shoulder Harness - Inertia Front (2), Piper PS50039-4-21	1.5	120.1	180.1
149.	Shoulder Harness - Center (aft) (1), Piper PS50039-4-22	0.4	108.9	43.6
151.	Shoulder Harness - Inertia (Rear) (2), Piper PS50039-4-19	1.4	181.5	254.1
157.	Window Shades Installation, Piper Dwg. 85293-2	7.8	143.6	1120.1
159.	Assist Straps, Piper Dwg. 79455-0	0.3	120.0	36.0
161.	Baggage Straps, Piper Dwg. 66804-0	1.3	177.0	230.1
163.	Ent./Exec. Cabinet, Precision Pattern P/N 20930-1	41.5	120.5	5000.8
	LT-71 DC to DC Converter	1.5	117.9	176.9
	Bracket - (100994)	0.2	117.9	23.6
	Armrest	0.5	120.5	60.3
	Power/Receptacle, Points, Bracket (100998), and Wire Harness	0.7	123.0	86.1
	Cabinet Hardware	1.2	124.2	149.0
	Fire Extinguisher Instl. (Piper Dwg. 100801-10)	2.0	107.6	215.2
(g) Autopilot				
165.	Bendix/King KFC-150 Autopilot with KCS 55A Compass System, Piper Dwg. 39880-28, Cert. Basis - STC SA1575CE-D	30.2	159.1	4804.8

**THE NEW PIPER AIRCRAFT, INC.****PA-32R-301, SARATOGA II HF
EQUIPMENT LIST
S/N 3246098 AND UP**

Item No.	Item	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In.)
(h) Standard Avionics Equipment				
167.	Bendix/King KN72 VOR/LOC Converter, Cert. Basis C36a, C40a	1.3	217.4	282.6
169.	Bendix/King KX 155A VHF Comm/Nav with Glide Slope Receiver (#1)	4.1	63.0	258.3
170.	Bendix/King KX 155A VHF Comm/Nav with Glide Slope Receiver (#2)	4.1	63.0	258.3
171.	Bendix/King KI-204 - Nav Indicator Cert. Basis - TSO C34c, C36c, C40a	1.7	64.7	110.0
173.	Bendix/King KN-62A DME, Cert. Basis - TSO C66g a. Antenna KA60	3.3 0.2	63.3 123.0	208.9 24.6
175.	Bendix/King KLN 89B GPS/RNAV Navigation System Instl., Cert. Basis - TSO C129A1 a. KA-92 Antenna, Piper Dwg. 101062-2 b. GPS/NAV Relay, Electro Systems P/N 20141 c. Accessory Box, Piper Dwg. 100530-14	3.3 0.3 0.5 1.0	63.1 96.1 196.7 210.2	208.2 28.8 98.3 210.2
177.	PS Engineering PMA6000M-S Audio Control Panel	0.8	64.8	51.8
179.	Bendix/King KT 76C Transponder, Cert. Basis - TSO 74c Class 1A a. Antenna KA60	3.8 0.2	62.6 56.1	237.9 11.2
191.	Antenna and Cable a. Nav Receiving AV-12PPR b. #1 VHF Comm PS 50040-18 c. #2 VHF Comm PS 50040-18 d. Antenna Coupler - Dual G/S Comant CI-1125 e. Bendix/King KA-60 Transponder Antenna (P/N 071-1174-00), Piper Dwg. 37864	0.4 0.8 0.8 0.3 0.2	209.4 146.3 181.1 58.8 60.2	83.8 117.0 144.9 17.6 12.0
195.	Marker Beacon Antenna, Comant CI 102 Piper Dwg. 39737-6 (weight includes antenna coax wire to Marker Beacon Receiver)	1.2	199.0	238.8
197.	Emergency Locator Transmitter a. Artex Model 110-4 and mounting tray b. Antenna and Coax Cert. Basis - TSO-C91a	4.2 0.2	267.2 255.4	1122.2 51.1
199.	Pilot's Headset, Telex Comm P/N 61650-3	0.5	85.5	42.8
201.	Pilot's Microphone - Telex Acoustics P/N 62800-4 (Model 100T/NH) Single	0.3	70.8	21.2
203.	Cabin Speaker, Piper Dwg. 85430-2 (2)	1.4	97.5	136.5
207.	Avionics Cooling Fan (Bendix/King KA-33), Piper Dwg. 85317-2	0.9	52.4	47.2
211.	Dual Mike and Phone jacks	0.5	66.8	33.4

REVISED: 12/18/97

*Building on Excellence*240-0154
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**PA-32R-301, SARATOGA II HP
EQUIPMENT LIST
S/N 3246098 AND UP**

THE NEW PIPER AIRCRAFT, INC.

Item No.	Item	Mark if installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In.)
(h) Standard Avionics Equipment (cont)					
213.	Static Wicks (4) - Wing		0.1	139.9	14.0
	Static Wicks (3) - Empennage		0.1	303.7	30.4
	Piper Dwg. 78947-12				
215.	Ground Clearance Installation, Piper Dwg. 87458-5		0.3	63.0	18.9
(i) Miscellaneous					
217.	Locking Fuel Caps, Piper Dwg. 39824-2 (2)		0.9	94.1	84.7
221.	Tow Bar, Piper Dwg. 69975-2		2.3	193.9	446.0
223.	Fresh Air Blower System				
	Fresh Air Blower Instl. (Dwg. 36983-16)		8.8	214.2	1885.0
	Cable Assembly (Dwg. 89402-3)		2.0	188.0	376.0

END OF STANDARD EQUIPMENT

(j) Electrical (Optional Equipment)

229.	Tail Light Assembly - Piper Dwg. 63886-4		0.4	308.0	123.2
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(k) Instruments (Optional Equipment)

Copilot's Advanced Instrumentation

231.	True Speed Indicator, Piper PS50049-65T United Instruments 8125-B.765, Cert. Basis - TSO C2b		0.7	66.8	46.8
233.	Attitude Gyro, RCA26BK-6, Cert. Basis - TSO C4c		2.2	64.4	141.7
235.	Altimeter, Piper PS50008-10-2D - United UI5934PD-3A134, Cert. Basis - TSO C10b		0.9	65.9	59.3
237.	Turn and Bank Coordinator, Piper PS50030-3-5, Cert. Basis - TSO C3b		1.2	64.7	77.6
239.	Directional Gyro, Piper PS50126-5, Cert. Basis - TSO C5c		2.4	64.7	155.3
241.	Vertical Speed, Piper Dwg. 99010-5, Cert. Basis - TSO C8b		0.7	65.9	46.1

(l) Avionics (Optional Equipment)

242.	Bendix/King KLN 90B GPS/RNAV Navigation System Instl. Cert. Basis - TSO C129A1		6.0	63.1	378.6
	Remove KLN 89B		-3.3	63.1	-208.2
	Delta Weight		2.7	63.1	170.4



THE NEW PIPER AIRCRAFT, INC.

PA-32R-301, SARATOGA II H EQUIPMENT LIST S/N 3246098 AND UP

Item No.	Item	Mark if installed	Weight (Pounds)	Arm (In.) Aft Datum	Momen (Lb.-In.)
(l) Avionics (Optional Equipment) (cont)					
243.	Strike Finder System				
a.	Strike Finder Display / Processor	_____	1.2	64.5	77.4
b.	Strike Finder Antenna	_____	0.6	232.0	139.2
c.	Strike Finder Harness	_____	2.3	108.3	249.1
245.	Bendix/King KR-87 ADF Receiver				
a.	Receiver/Cert.Basis - TSO C47c	_____	3.2	64.0	204.8
b.	KA 44B Antenna				
(1)	Single (weight includes cable)	_____	3.8	179.1	680.6
247.	Bendix/King KI-227-01 Slaved Indicator	_____	0.7	66.7	46.7
248.	Encoding Altimeter, KEA 130A replaces Narco AR-850 Altitude Reporter and Standard Altimeter KEA 130A Encoding Altimeter	X	2.3	65.9	151.6
	Removed Narco AR-850 Altitude Reporter - Piper Dwg. 69825-7		-0.7	56.2	-39.3
	Removed Altimeter - Piper PS50008-10-2, Cert. Basis - TSO C10b		-0.9	65.9	-59.3
	Delta Weight		0.7	75.7	53.0
249.	Bendix/King KAS-297B Altitude Preselect	X	1.2	64.6	77.5
(m) Miscellaneous (Optional Equipment)					
251.	(6th Seat Option)				
	Center Club Seat (Leather - right) w/Headrest Piper Dwg. 89036-2	X	21.4	112.8	2413.9
	Center Seat Belt (1) Aft Facing, Piper PS50039-4-53 and -4-56 Cert. Basis - TSO C22F	X	0.9	113.2	101.9
	Shoulder Harness - Center (aft) (1), Piper PS50039-4-22	X	0.4	108.9	43.6
	Refreshment Console w/ Dividers, Piper Dwg. 79750-34, -35, -36, -37	X	7.4	118.5	876.9
	Executive Writing Table, Piper Dwg. 85366-2	X	2.9	142.1	412.1
	Add Fire Extinguisher Instl. (Piper Dwg. 100801-3), Saber 1211-1301 Halon Model 600	X	2.3	103.6	238.3

**PA-32R-301, SARATOGA II HP
EQUIPMENT LIST
S/N 3246098 AND UP**

THE NEW PIPER AIRCRAFT, INC.

Item No.	Item	Mark if installed	Weight (Pounds)	Arm (In.) Aft Datum	Moment (Lb.-In.)
(m) Miscellaneous (Optional Equipment) (cont)					
251.	(6th Seat Option) (cont.)				
	Remove Ent./Exec. Cabinet, Precision Pattern P/N 20930-1		-41.5	120.5	-5000.8
	Remove LT-71 DC to DC Converter		-1.5	117.9	-176.9
	Remove Bracket - (100994)		-0.2	117.9	-23.6
	Remove Armrest Assy. (Piper Dwg. 85210-259)		-0.5	120.5	-60.3
	Remove Power/Receptacle, Points, Bracket (100997), and Wire Harness		-0.7	123.0	-86.1
	Remove Cabinet Hardware		-1.2	124.2	-149
	Remove Fire Extinguisher Instl. (Piper Dwg. 100801-10), Saber 1211-1301 Halon Model 600		-2.0	107.6	-215.2
	Delta Weight		-12.3	132.1	-1624.8
253.	Flight Phone, Terra Jetfone TD 3000	_____	4.5	113.6	511.2
	Flight Phone, Mount P/N 2700-0013-000	_____	0.5	113.6	56.8
	Flight Phone, Terra Jetfone Handset C6A	_____	1.5	113.6	170.4
	Flight Phone Modem Adapter, Terra	_____	0.3	111.0	33.3
	Flight Phone Antenna, Terra A-460	_____	0.5	122.5	61.3
	Antenna Doubler - 100977-2	_____	0.1	122.5	12.3
255.	Ent./Exec. Cabinet, Precision Pattern P/N 20930-1 - Options				
	a. VMA 9181 Color LCD Monitor	_____	1.9	110.8	210.5
	LCD Monitor Mount Bracket - Piper	_____	1.2	110.8	133.0
	TTX 7101 TV Tuner	_____	2.4	114.8	275.5
	Brackets and Hardware	_____	0.1	114.8	11.5
	b. AVP-6750 Video Cassette Player	_____	7.5	123.7	927.8
	Bracket and Hardware	_____	0.1	123.7	12.4
	c. AM/FM CD Player Instl.				
	DRX-7375 AM/FM Receiver/CD Player	_____	4.1	125.3	513.7
	CD Remote Control (P/N RCB-114)	_____	0.1	125.3	12.5
	DCP Holder	_____	0.2	120.5	24.1
	AM/FM Antenna, Comant CI222	_____	0.5	226.0	113.0
	Bracket, Hardware and Doubler	_____	0.2	199.3	39.9
	d. Harness Assy.	_____	1.4	119.3	167.0