

Walker Equipment Corporation

Application For Certification

**2.4GHz 40 Channel Analog Modulation Cordless Phone with Caller ID and
Dual Speakerphone**

(FCC ID: ACECLS45I)

03153661
TL/ Ann Choy
October 14, 2003

- The test results reported in this report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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FCC ID: ACECLS45I

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MEASUREMENT/TECHNICAL REPORT

Walker Equipment Corporation - MODEL: CLS-45i
FCC ID: ACECLS45I

This report concerns (check one): Original Grant Class II Change

Equipment Type : Cordless Telephone (example : computer, modem, transmitter, etc.)

Deferred grant requested per 47 CFR
0.457(d)(1)(ii)? Yes No

If yes, defer until : _____
date

Company Name agrees to notify the Commission
by: _____
date

of the intended date of announcement of the product so that the grant can be issued
on that date.

Transition Rules Request per 15.37 ? Yes No

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [08-20-02
Edition] Provision.

Report prepared by:

Tommy Leung
Intertek Testing Services.
2/F., Garment Centre,
576 Castle Peak Road,
Kowloon, Hong Kong.
Phone : 852-2173-8538
Fax: 852-2741-1693

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List of attached file

| Exhibit type | File Description | filename |
|-----------------------------|----------------------------------|--------------------------|
| Test Report | Test Report | report.pdf |
| Operation Description | Technical Description | descri.pdf |
| Test Setup Photo | Radiated Emission for Base | config photos.doc |
| Test Setup Photo | Radiated Emission for Handset | config photos.doc |
| Test Report | Emission Plot | emission.pdf |
| Test Setup Photo | Conducted Emission | config photos.doc |
| Test Report | Conducted Emission Test Result | conduct.pdf |
| External Photo | External Photo | external photos.doc |
| Internal Photo | Internal Photo | internal photos.doc |
| Block Diagram Schematics | Block Diagram Circuit Diagram | block.pdf circuit.pdf |
| ID Label/Location | Label Artwork and Location | label.pdf |
| User Manual | User Manual | manual.pdf |
| User Manual | FCC Information | fcc information.pdf |

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EXHIBIT 1
GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The CLS-45i is a 2.4GHz 40 Channel Analog Modulation Cordless Phone with Caller ID and Dual Speakerphone. The unit is capable of either tone or pulse dialing. The internal power supply's isolation is accomplished through a power transformer having an adequate dielectric rating. The circuit wiring is consistent under the requirement of part 68.

The handset unit consists of a keypad with twelve standard keys (0,...9,*,#), ten function keys (Caller ID, Delete/Back, Flash/Exit, Redial/Fwd, Up, Down, Amplify, Speaker, Intercom/Enter, Mem), and one channel switch key. A Talk key is provided to control pick/release telephone line in a toggle base.

The base unit has a page key, which is used to page the handset unit.

The antennas used in base unit and handset are integral, and the tested sample is a prototype.

The circuit description is saved with filename: descri.pdf

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

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1.2 Related Submittal(s) Grants

This is an Application for Certification of a cordless telephone system. Two transmitters are included in this Application. This specific report details the emission characteristics of each transmitter. The receivers are subject to the verification authorization process, in accordance with 15.101(b). A verification report has been prepared for the receiver sections of each device. The device is also subject to Part 68 Registration.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (1992). All measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the **"Justification Section"** of this Application.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 System Test Configuration

2.1 Justification

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions. The handset was powered by a fully charged battery.

For the measurements, the EUT is attached to a plastic stand if necessary and placed on the wooden turntable. If the base unit attaches to peripherals, they are connected and operational (as typical as possible). The handset is remotely located as far from the antenna and the base as possible to ensure full power transmission from the base. Else, the base is wired to transmit full power without modulation.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater. The spurious emissions more than 20 dB below the permissible value are not reported.

2.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

For emissions testing, the units were setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

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2.3 Support Equipment List and Description

The FCC ID's for all equipment, plus descriptions of all cables used in the tested system (included inserted cards, which have grants) are:

HARDWARE:

The unit was operated standalone. An AC adapter (provided with the unit) was used to power the device. Its description is listed below.

- (1) AC adapter with two meter unshielded power cord permanently affixed.

CABLES:

- (1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated

OTHERS:

- (1) A headset for telephone use with 1.2m unshielded cable permanently affixed. (Supplied by Intertek)
- (2) Hitachi Speaker, Model: HS-AS-300 (Supplied by Intertek)
- (3) 4 x "AA" size 1.5VDC Backup Alkaline Battery for Base Unit.

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2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

2.5 Equipment Modification

Any modifications installed previous to testing by Walker Equipment Corporation will be incorporated in each production model sold/leased in the United States.

No modifications were installed by ETL Division, Intertek Testing Services Hong Kong Ltd.

All the items listed under section 2.0 of this report are confirmed by:

Confirmed by:

*Tommy Leung
Supervisor
Intertek Testing Services
Agent for Walker Equipment Corporation*

✓

Signature

October 22, 2003

Date

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EXHIBIT 3
EMISSION RESULTS

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3.0 Emission Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

where FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$
 RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$
 CF = Cable Attenuation Factor in dB
 AF = Antenna Factor in dB
 AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:-

$$FS = RR + LF$$

where FS = Field Strength in $\text{dB}\mu\text{V}/\text{m}$
 RR = RA - AG in $\text{dB}\mu\text{V}$
 LF = CF + AF in dB

Assume a receiver reading of 52.0 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}/\text{m}$$

$$AF = 7.4 \text{ dB}$$

$$RR = 23.0 \text{ dB}\mu\text{V}$$

$$CF = 1.6 \text{ dB}$$

$$LF = 9.0 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 23 + 9 = 32 \text{ dB}\mu\text{V}/\text{m}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm } [(32 \text{ dB}\mu\text{V}/\text{m})/20] = 39.8 \mu\text{V}/\text{m}$$

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3.2 Radiated Emission Configuration Photograph - Base Unit

Worst Case Radiated Emission

at 2402.550 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: config photos.doc

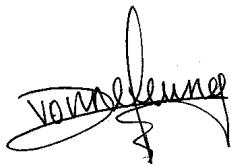
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3.3 Radiated Emission Data - Base Unit

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 0.9 dB

TEST PERSONNEL:



Tester Signature

Yvonne Leung, Engineer
Typed/Printed Name

October 20, 2003
Date

INTERTEK TESTING SERVICES

Company: Walker Equipment Corporation Date of Test: September 23-October 10, 2003
Model: CLS-45i
Mode : TX-Channel 1

Table 1, Base unit

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|--------------|---------------------|--------------------------|----------------------------|-------------|
| V | 2402.550 | 98.0 | 34 | 29.1 | 93.1 | 94 | -0.9 |
| V | *1201.275 | 43.0 | 34 | 25.5 | 34.5 | 54 | -19.5 |
| V | *1601.700 | 46.9 | 34 | 26.5 | 39.4 | 54 | -14.6 |
| V | 2002.125 | 40.1 | 34 | 29.1 | 35.2 | 54 | -18.8 |
| V | *2802.975 | 40.3 | 34 | 29.1 | 35.4 | 54 | -18.6 |
| V | 3203.400 | 38.2 | 34 | 31.4 | 35.6 | 54 | -18.4 |
| V | *4805.100 | 35.7 | 34 | 34.0 | 35.7 | 54 | -18.3 |
| V | 7207.650 | 32.7 | 34 | 37.0 | 35.7 | 54 | -18.3 |
| V | 9610.200 | 29.6 | 34 | 39.2 | 34.8 | 54 | -19.2 |

NOTES: 1. Quasi-peak detector is used for the emission below or equal to 1000MHz.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

5. Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9kHz to 25GHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz. The radio frequency emissions above 1000MHz also meet corresponding 20 dB permitted peak limit with a peak detector function.

Test Engineer: Yvonne Leung

INTERTEK TESTING SERVICES

Company: Walker Equipment Corporation Date of Test: September 23-October 10, 2003
Model: CLS-45i
Mode : TX-Channel 40

Table 2, Base unit

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|--------------|---------------------|--------------------------|----------------------------|-------------|
| V | 2404.500 | 97.6 | 34 | 29.1 | 92.7 | 94 | -1.3 |
| V | *1202.250 | 42.9 | 34 | 25.5 | 34.4 | 54 | -19.6 |
| V | *1603.000 | 48.7 | 34 | 26.5 | 41.2 | 54 | -12.8 |
| V | 2003.750 | 40.0 | 34 | 29.1 | 35.1 | 54 | -18.9 |
| V | *2805.250 | 40.3 | 34 | 29.1 | 35.4 | 54 | -18.6 |
| V | 3206.000 | 38.2 | 34 | 31.4 | 35.6 | 54 | -18.4 |
| V | *4809.000 | 35.7 | 34 | 34.0 | 35.7 | 54 | -18.3 |
| V | 7213.500 | 32.8 | 34 | 37.0 | 35.8 | 54 | -18.2 |
| V | 9618.000 | 29.6 | 34 | 39.2 | 34.8 | 54 | -19.2 |

NOTES:

1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna and average detector are used for the emission over 1000MHz.
5. Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9kHz to 25GHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz. The radio frequency emissions above 1000MHz also meet corresponding 20 dB permitted peak limit with a peak detector function.

Test Engineer: Yvonne Leung

FCC ID: ACECLS45I

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3.4 Radiated Emission Configuration Photograph - Handset

Worst Case Radiated Emission

at 2475.950 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: config photos.doc

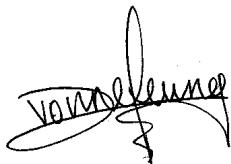
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3.5 Radiated Emission Data - Handset

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 1.0 dB

TEST PERSONNEL:



Tester Signature

Yvonne Leung, Engineer
Typed/Printed Name

October 20, 2003
Date

INTERTEK TESTING SERVICES

Company: Walker Equipment Corporation Date of Test: September 23-October 10, 2003
Model: CLS-45i
Mode : TX-Channel 1

Table 3, Handset

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|--------------|---------------------|--------------------------|----------------------------|-------------|
| H | 2474.000 | 96.9 | 34 | 29.1 | 92.0 | 94 | -2.0 |
| V | *1237.000 | 43.3 | 34 | 25.5 | 34.8 | 54 | -19.2 |
| V | 1649.333 | 55.7 | 34 | 26.5 | 48.2 | 54 | -5.8 |
| V | 2061.667 | 40.3 | 34 | 29.1 | 35.4 | 54 | -18.6 |
| V | *2886.333 | 40.5 | 34 | 29.1 | 35.6 | 54 | -18.4 |
| V | 3298.667 | 38.3 | 34 | 31.4 | 35.7 | 54 | -18.3 |
| V | *4948.000 | 36.1 | 34 | 34.0 | 36.1 | 54 | -17.9 |
| V | 7421.999 | 32.8 | 34 | 37.0 | 35.8 | 54 | -18.2 |
| V | 9895.999 | 30.5 | 34 | 39.2 | 35.7 | 54 | -18.3 |

NOTES:

1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna and average detector are used for the emission over 1000MHz.
5. Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9kHz to 25GHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz. The radio frequency emissions above 1000MHz also meet corresponding 20 dB permitted peak limit with a peak detector function.

Test Engineer: Yvonne Leung

FCC ID: ACECLS45I

INTERTEK TESTING SERVICES

Company: Walker Equipment Corporation Date of Test: September 23-October 10, 2003
Model: CLS-45i
Mode : TX-Channel 40

Table 4, Handset

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|--------------|---------------------|--------------------------|----------------------------|-------------|
| H | 2475.950 | 97.9 | 34 | 29.1 | 93.0 | 94 | -1.0 |
| V | *1237.975 | 43.3 | 34 | 25.5 | 34.8 | 54 | -19.2 |
| V | 1650.633 | 58.9 | 34 | 26.5 | 51.4 | 54 | -2.6 |
| V | 2063.292 | 40.0 | 34 | 29.1 | 35.1 | 54 | -18.9 |
| V | *2888.608 | 40.3 | 34 | 29.1 | 35.4 | 54 | -18.6 |
| V | 3301.267 | 38.3 | 34 | 31.4 | 35.7 | 54 | -18.3 |
| V | *4951.900 | 35.9 | 34 | 34.0 | 35.9 | 54 | -18.1 |
| V | 7427.850 | 31.9 | 34 | 37.0 | 34.9 | 54 | -19.1 |
| V | 9903.800 | 29.6 | 34 | 39.2 | 34.8 | 54 | -19.2 |

NOTES:

1. Quasi-peak detector is used for the emission below or equal to 1000 MHz.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna and average detector are used for the emission over 1000MHz.
5. Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9kHz to 25GHz.

* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz. The radio frequency emissions above 1000MHz also meet corresponding 20 dB permitted peak limit with a peak detector function.

Test Engineer: Yvonne Leung

FCC ID: ACECLS45I

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3.6 Radiated Emission on the bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band and they are at least 50 dB below the carrier level at band edge (2400.0MHz and 2483.5MHz). It meets the requirement of section 15.249(d).

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Emission Plot

For electronic filing, the emission plots are saved with filename: emission.pdf

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3.7 Line Conducted Configuration Photograph - Base Unit

Worst Case Line-Conducted Configuration

For electronic filing, the worst case line conducted configuration photographs are saved with filename: config photos.doc

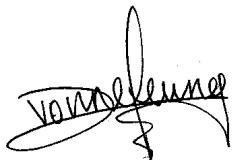
INTERTEK TESTING SERVICES

3.8 Line Conducted Emission Data

The data on the following pages list the significant emission frequencies, the limit, and the margin of compliance.

Judgement : Passed by more than 20 dB margin

TEST PERSONNEL:



Tester Signature

Yvonne Leung, Engineer
Typed/Printed Name

October 20, 2003
Date

INTERTEK TESTING SERVICES

Company: Walker Equipment Corporation Date of Test: September 23-October 10, 2003
Model: CLS-45i

Conducted Emissions

For electronic filing, the conducted emission test result is saved with filename:
conduct.pdf

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EXHIBIT 4
EQUIPMENT PHOTOGRAPHS

INTERTEK TESTING SERVICES

4.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.doc

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EXHIBIT 5
PRODUCT LABELLING

INTERTEK TESTING SERVICES

5.0 Product Labelling

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf

INTERTEK TESTING SERVICES

EXHIBIT 6
TECHNICAL SPECIFICATIONS

INTERTEK TESTING SERVICES

6.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

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EXHIBIT 7
INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

7.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

Please note that the required FCC Information to the User is saved with filename: fcc information.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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EXHIBIT 8
SECURITY CODE INFORMATION

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8.0 Security code information

For the security code, there are 65536 security codes change randomly every time when the HANDSET is placed to the BASE charging cradle.