SIXTH AMENDMENT TO LEASE

This Sixth Amendment ("Sixth Amendment"), dated as of ______, 2022 ("Effective Date"), is by and between the **COUNTY OF SONOMA**, a political subdivision of the State of California ("Tenant"), and **CROSS CREEK GROUP, INC.**, a California corporation ("Landlord"). All capitalized terms used herein shall, unless otherwise defined, have the meaning ascribed to those terms in the Lease (as defined below).

RECITALS

WHEREAS, Landlord and Tenant entered into that certain Gross Lease dated October 28, 1991 ("Original Lease"), for certain real property located at 1375 North Dutton Avenue, Santa Rosa, California, said premises being more particularly described in the Original Lease ("Premises"); and

WHEREAS, Landlord and Tenant entered into that certain First Amendment to Lease dated June 18, 1996 ("First Amendment"); that certain Second Amendment to Lease dated October 21, 1997 ("Second Amendment"); that certain Third Amendment to Lease dated May 7, 2002 ("Third Amendment"); that certain Fourth Amendment to Lease dated February 21, 2012 ("Fourth Amendment"); and that certain Fifth Amendment to Lease dated December 11, 2019 (collectively the "Executed Amendments"); and

WHEREAS, Tenant properly exercised its options to extend the term of the Lease on September 24, 2001 ("2001 Option Notice"); on October 31, 2006 ("2006 Option Notice); and on November 28, 2007 ("2007 Option Notice") (collectively the "Exercised Options");

WHEREAS, the Original Lease as modified by the Executed Amendments and the Exercised Options is hereafter referred to as the "Lease"; and

WHEREAS, Tenant desires to perform certain tenant improvements and modifications to the Premises, including installation of Electric Vehicle Supply Equipment ("EVSE") in support of Tenant's planned transition from gasoline-fueled vehicles to electric-powered vehicles; and installation of a new generator to supply emergency back-up power for Tenant's operations at the Premises. Installations of the EVSE charging stations and generator require certain modifications to the Premises and consent by the Landlord; and Landlord has provided its consent to the work, pursuant to the Lease; and

WHEREAS, Tenant desires to further amend the Lease in order to: (i) acknowledge Tenant's exercise of its two, 2-year options to extend the term of the Lease; (ii) provide the terms for the installation, operation, maintenance, repair, replacement and expenses for EVSE and designated parking stations for said EVSE in the parking area associated with the Premises; and (iii) provide for certain other terms and conditions as hereafter set forth. NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

$\underline{A} \, \underline{G} \, \underline{R} \, \underline{E} \, \underline{E} \, \underline{M} \, \underline{E} \, \underline{N} \, \underline{T}$

1. The foregoing Recitals are true and correct.

2. Effective as of the Effective Date of this Sixth Amendment, the Lease is modified as follows:

A. The parties hereto acknowledge that Tenant has properly exercised its two, successive 2-year Options pursuant to <u>Section 26</u> of the Lease, and the Lease now expires on **January 31, 2029**. There are no options remaining to extend the term of the Lease.

B. <u>Section 3</u> of the Lease is hereby deleted in its entirety and replaced with the following section:

"3. The term of this Lease shall commence on January 1, 1992 ("Commencement Date"), and expire on January 31, 2029 ("Expiration Date"). Tenant may terminate this Lease upon one hundred eighty (180) days' prior written notice to Landlord, for any reason or for no reason, as the case may be, whatsoever, subject to the terms provided under this Amendment for early termination. There are no options remaining to extend the term of the Lease.

3.1 Except as provided for pursuant to <u>Section 12</u> or Section 14 of this Lease, in the event that Tenant terminates its Lease prior to the Expiration Date ("Termination Date"), and the Project as defined below is completed by the Tenant, Tenant shall reimburse Landlord for the prorated balance remaining of Landlord's funding contribution of Fifty-Three Thousand and No/100 Dollars (\$53,000.00) for the Project as of the Termination Date, as set forth in **Attachment 1**, the Funding Reimbursement Schedule, attached to this Sixth Amendment."

C. The following is added as <u>Section 33</u> to the Lease:

"33. <u>Additional Work of Improvement – Installation, Operation,</u> <u>Maintenance, Repair and Replacement of Electric Vehicle Supply Equipment (EVSE)</u>.

a. Tenant shall hire its contractors to install, and Tenant and Landlord shall pay, for the EVSE installation ("Project"), as set forth herein. The Tenant shall pay for the balance of the cost of the Project, not paid for by the Landlord. The Landlord shall provide a one-time contribution of funding for the Project, in the amount of Fifty-Three Thousand and No/100 Dollars (\$53,000.00), which shall be paid to the Tenant as follows:

i) <u>Project Funding- 1st Payment</u>. Within fifteen (15) days from receipt by Landlord of Tenant's copy of approved permit(s) for the Project by the

applicable permitting agency/ies, Landlord shall pay to Tenant Twenty-Six Thousand Five Hundred and No/100 Dollars (\$26,500.00), which payment shall be mailed to Tenant at the following address: County of Sonoma, Information Systems Department, Attn: Administration, 2615 Paulin Drive, Santa Rosa, CA 95403.

ii) <u>Project Funding – 2nd Payment</u>. Within fifteen (15) days from receipt by Landlord of Tenant's copy of finalled permit(s), verifying final approval by the applicable permitting agency/ies, and completion of the Project, Landlord shall pay to Tenant Twenty-Six Thousand Five Hundred and No/100 Dollars (\$26,500.00), which payment shall be mailed to the address set forth in subsection 33a.i) above.

b. The Project shall be completed by Tenant on or before the date which is one (1) year from the Effective Date of this Sixth Amendment. In the event that the Project is not completed, Tenant shall reimburse Landlord for the 1st Payment of \$26,500 only.

c. The Project shall include the scope of work as described in **Attachment 2**, attached to this Sixth Amendment. Tenant shall pay prevailing wages in compliance with the applicable provisions of California Labor Code Sections 1720.2 and 1770 et seq., regarding prevailing wages with respect to the installation.

d. The Tenant shall have the right, at Tenant's cost to install two (2) ChargePoint Model CT4000 EVSE, as described in **Attachment 3**, attached to this Sixth Amendment, and entitled CT4000 Level 2 Commercial Charging Stations. The EVSE shall be installed in accordance with **Attachment 3-1**, ChargePoint Installation Guide, attached to this Sixth Amendment.

e. The EVSE shall be installed in the parking area where indicated on **Attachment 4**, the Site Plan, attached to this Sixth Amendment. Immediately after installation of the EVSE, Tenant shall be the responsible party to activate the EVSE.

f.

The EVSE shall be installed for the use by Tenant staff

only.

g. Tenant shall be responsible for the maintenance and repair of the EVSE, and the associated costs for same, throughout the term of the Lease.

h. Landlord shall provide and Tenant shall pay for electricity service for the EVSE. Any necessary upgrades to electrical service and wiring will be included in the Project and Tenant's contractors shall complete the work. If not separately metered, monthly PGE usage shall be monitored by Landlord and billed back to the Tenant, the County of Sonoma Information Services Department, for reimbursement. The County shall have the right to review documentation Landlord used to determine this amount, which shall be provided to County within thirty (30) days of a request. h. Tenant shall have the right, during the Lease term, to substitute the EVSE equipment with new EVSE equipment, upon Landlord's review of the proposal and specifications for the new EVSE equipment and installation, and written consent by the Landlord, which consent shall not be unreasonably withheld, within (30) days request by the Tenant. Tenant shall be responsible for the cost of the installation of any new EVSE equipment.

I. Upon expiration or early termination of the Lease, the EVSE equipment installed for the use by Tenant shall remain the property of the Landlord.

D. Tenant shall have the right to install an emergency power generator on the Premises, as described in at **Attachment 5**, at Tenant's sole cost and expense, and Landlord hereby consents to such installation. The emergency power generator shall be installed in the parking area where indicated on **Attachment 4**. Unless otherwise agreed to in writing between Tenant and Landlord, the emergency power generator on the Premises shall remain the property of Tenant and Tenant shall have the right to remove it from the property upon termination of the Lease.

E. <u>Section 22</u> is hereby deleted and replaced with the following section:

"22. Any and all notices herein contemplated or permitted to be given by any one party to the other shall be given in writing and shall be served personal, or by Certified Mail, Return Receipt Requested, addressed to the party to be served at the address set forth below, or at such other address as the parties may from time to time designate by written notice to each other, or via electronic mail (email):

- Landlord: Cross Creek Group, Inc. Attn: Jeffrey Zukin P.O. Box 844 Summerland, CA 93067 Email: <u>RobertZukin@frontier.com</u>
- Tenant: County of Sonoma General Services Department Attn: Real Estate Manager 2300 County Center Drive, Suite A220 Santa Rosa, CA 95403
- With a copy to: County of Sonoma Information Systems Department Attn: Director 2614 Paulin Drive Santa Rosa, CA 95403."

3. Except to the extent the Lease is specifically amended or supplemented hereby, the Lease, together with all exhibits incorporated therein, is, and shall continue to be, in full

force and effect as originally executed, and nothing contained herein shall, or shall be constructed to modify, invalidate or otherwise affect any provision of the Lease or any right of Tenant arising thereunder.

4. This Sixth Amendment shall be governed by and construed under the internal laws of the State of California, and any action to enforce the terms of this Sixth Amendment or for the breach thereof shall be brought and tried in the County of Sonoma.

LANDLORD AND TENANT HAVE CAREFULLY READ AND REVIEWED THIS SIXTH AMENDMENT AND EACH TERM AND PROVISION CONTAINED HEREIN AND, BY EXECUTION OF THIS SIXTH AMENDMENT, SHOW THEIR INFORMED AND VOLUNTARY CONSENT THERETO.

IN WITNESS WHEREOF, the parties hereto have executed this Sixth Amendment as of the Effective Date.

"Landlord":	CROSS CREEK GROUP, Inc., a California corporation
	By:
"Tenant":	COUNTY OF SONOMA , a political subdivision of the State of California

By:_____ Johannes Hoevertsz, Director Department of General Services

The General Services Director is authorized to sign this Sixth Amendment, pursuant to Board of Supervisors Summary Action dated _____, 2022.

APPROVED AS TO FORM FOR TENANT:

Matthew Cody Deputy County Counsel

APPROVED AS TO CONTENT FOR TENANT:

Dan Fruchey, Interim Director Information Systems Department

Keith Lew, Deputy Director Department of General Services

CERTIFICATE OF INSURANCE ON FILE WITH DEPARTMENT:

Reviewed by:_____

Date:_____

Attachment 1

FUNDING REIMBURSEMENT SCHEDULE

FUNDING REIMBURSEMENT SCHEDULE FOR EVSE INSTALLATION PROJECT

Landlord contribution to	
Project:	\$53,000
First month of	
drawdown	October 1 2022
Lease expiration	31-Jan-29
Amortization period (in	
months)	76

Months after Receipt of			
Landlord funding	Termination - Month / Year	Re	eimbursement
1	Oct-22	\$	53,000.00
2	Nov-22	\$	52,293.33
3	Dec-22	\$	51,586.67
4	Jan-23	\$	50,880.00
5	Feb-23	\$	50,173.33
6	Mar-23	\$	49,466.67
7	Apr-23	\$	48,760.00
8	May-23	\$	48,053.33
9	Jun-23	\$	47,346.67
10	Jul-23	\$	46,640.00
11	Aug-23	\$	45,933.33
12	Sep-23	\$	45,226.67
13	Oct-23	\$	44,520.00
14	Nov-23	\$	43,813.33
15	Dec-23	\$	43,106.67
16	Jan-24	\$	42,400.00
17	Feb-24	\$	41,693.33
18	Mar-24	\$	40,986.67
19	Apr-24	\$	40,280.00
20	May-24	\$	39,573.33
21	Jun-24	\$	38,866.67
22	Jul-24	\$	38,160.00
23	Aug-24	\$	37,453.33
24	Sep-24	\$	36,746.67
25	Oct-24	\$	36,040.00
26	Nov-24	\$	35,333.33
27	Dec-24	\$	34,626.67
28	Jan-25	\$	33,920.00
29	Feb-25	\$	33,213.33
30	Mar-25	\$	32,506.67
31	Apr-25	\$	31,800.00
32	May-25	\$	31,093.33
33	Jun-25	\$	30,386.67
34	Jul-25	\$	29,680.00
35	Aug-25	\$	28,973.33
36	Sep-25	\$	28,266.67
37	Oct-25	\$	27,560.00
38	Nov-25	\$	26,853.33

39	Dec-25	\$ 26,146.67
40	Jan-26	\$ 25,440.00
41	Feb-26	\$ 24,733.33
42	Mar-26	\$ 24,026.67
43	Apr-26	\$ 23,320.00
44	May-26	\$ 22,613.33
45	Jun-26	\$ 21,906.67
46	Jul-26	\$ 21,200.00
47	Aug-26	\$ 20,493.33
48	Sep-26	\$ 19,786.67
49	Oct-26	\$ 19,080.00
50	Nov-26	\$ 18,373.33
51	Dec-26	\$ 17,666.67
52	Jan-27	\$ 16,960.00
53	Feb-27	\$ 16,253.33
54	Mar-27	\$ 15,546.67
55	Apr-27	\$ 14,840.00
56	May-27	\$ 14,133.33
57	Jun-27	\$ 13,426.67
58	Jul-27	\$ 12,720.00
59	Aug-27	\$ 12,013.33
60	Sep-27	\$ 11,306.67
61	Oct-27	\$ 10,600.00
62	Nov-27	\$ 9,893.33
63	Dec-27	\$ 9,186.67
64	Jan-28	\$ 8,480.00
65	Feb-28	\$ 7,773.33
66	Mar-28	\$ 7,066.67
67	Apr-28	\$ 6,360.00
68	May-28	\$ 5,653.33
69	Jun-28	\$ 4,946.67
70	Jul-28	\$ 4,240.00
71	Aug-28	\$ 3,533.33
72	Sep-28	\$ 2,826.67
73	Oct-28	\$ 2,120.00
74	Nov-28	\$ 1,413.33
75	Dec-28	\$ 706.67
76	Jan-29	\$ 0.00

For example purposes only. If the beginning month for reimbursement is October 2022 and the Lease Expiration Date is January 31, 2029, the fixed amount for reimbursement is \$706.67 per month.

Attachment 2

SCOPE OF WORK

General Services Architecture Division FUNDING CHANGE REQUEST SUMMARY

Project Name:ISD-Records Mgmt EV Charging StationProject Number:2022905AProject Manager:Scot StanleyReport Status Date:April 15, 2022

	·	Total Funding to Date: \$4,000						
		Budget						sts
			Fore	ecast				
Code	Budget Item	Initial Budget	Approved Budget Changes	Total Budget	Internal Adjustment	Target Budget	Estimated Additional Costs	Forecast of Actual Costs
			BOS or GS authorized increase/ decrease to budget total	Initial Budget plus Approved Funding Changes	Project Manager adjustments within budget total	Total Funded plus Internal Adjustment	PM estimated additional costs	Target Budget plus PM estimated additional costs
1.0	Construction							
1.1	Primary Construction	\$0	\$0	\$0	\$0	\$0	\$65,368	\$65,368
1.2	Hazardous Materials	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1.3	Direct Purchase Materials	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1.4	Data/Communications Infrastructure	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1.5	Security	\$0	\$0	\$0	\$0	\$0	\$35,200	\$35,200
1.6	Other Construction	\$0	\$0	\$0	\$0	\$0	\$11,658	\$11,658
	Subtotal - Construction	\$0	\$0	\$0	\$0	\$0	\$112,226	\$112,226
2.0	Furnishings and Relocation							
2.1	Modular System Furniture	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.2	Other Furnishings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.3	Movers	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.4	Data/Communications Move	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.5	Temporary Staging	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal - Furnishings and Relocation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.0	Design, Management & Fees							
3.1	Architect/Engineer	\$0	\$0	\$0	\$0	\$0	\$27,200	\$27,200
3.2	Other Consultants	\$0	\$0	\$0	\$0	\$0	\$7,194	\$7,194
3.3	FDMD Services	\$1,500	\$2,500	\$4,000	\$0	\$4,000	\$20,632	\$24,632
3.4	Administration Expenses	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.5	Permits and Fees	\$0	\$0	\$0	\$0	\$0	\$5,033	\$5,033
3.6	Testing and Inspections	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3.7	County Counsel Support	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal - Design, Management & Fees	\$1,500	\$2,500	\$4,000	\$0	\$4,000	\$60,059	\$64,059
4.0	Project Contingency	\$0	\$0	\$0	\$0	\$0	\$17,229	\$17,229
	Total	\$1,500	\$2,500	\$4,000	\$0	\$4,000	\$189,514	\$193,514

Reason for additional funding request:

04/13/2022:SS-Project moving into construction phase. \$189,514 in funds will take this project from design through completion. SOW: EV charging stations, ADA work, lighting/safety upgrades and genset pad with fence. For a more detailed SOW please refer to the project's EWB.

Requested by Sr. Capital Project Mngr		Reviewed by Accounting		Approved by GS	or Funding Dept
Signature Date		Signature	Date	Signature	Date

Attachment 3

EVSE PRODUCT, INSTALLATION GUIDE

-chargepoin-

CT4000 Level 2 Commercial Charging Station

Specifications and Ordering Information

Ordering Information

Specify model number followed by the applicable code(s). The order code sequence is: **Model-Options**. **Software**, **Services** and **Misc** are ordered as separate line items.

Hardware

Descriptio	on	Order Code
Model	1830 mm (6 ft) Single Port Bollard Mount 1830 mm (6 ft) Dual Port Bollard Mount	CT4011-GW1 CT4021-GW1
	1830 mm (6 ft) Single Port Wall Mount 1830 mm (6 ft) Dual Port Wall Mount	CT4013-GW1 CT4023-GW1
	2440 mm (8 ft) Dual Port Bollard Mount 2440 mm (8 ft) Dual Port Wall Mount	CT4025-GW1 CT4027-GW1
Included	Integral Modem - North America	-GW1
Misc	Power Management Kit Bollard Concrete Mounting Kit	CT4000-PMGMT CT4001-CCM

Note: All CT4000 stations include Intergral Modem -GW1.

Software & Services

Description	Order Code
ChargePoint Commercial Service Plan	CPCLD-COMMERCIAL-n*
ChargePoint Enterprise Plan	CPCLD-ENTERPRISE-n*
ChargePoint Assure	CT4000-ASSUREn*
Station Activation and Configuration	CPSUPPORT-ACTIVE
ChargePoint Station Installation and Validation	CT4000-INSTALLVALID

Note: All CT4000 stations require a network service plan per port.

*Substitute *n* for desired years (1, 2, 3, 4, or 5 years).

Order Code Examples

If ordering this	the order code is
1830 mm (6 ft) Dual Port Bollard Networked Station with Concrete Mounting Kit	CT4021-GW1 CT4001-CCM
ChargePoint Commercial Service Plan, 3 Year Subscription	CPCLD-COMMERCIAL-5
ChargePoint Station Installation and Validation	CT4000-INSTALLVALID
3 Years of Assure Coverage	CT4000-ASSURE5
1830 mm (6 ft) Single Port Wall Mount Networked Station	CT4013-GW1 CPCI D-COMMERCIAL-5
ChargePoint Commercial Service Plan, 5 Year Subscription	CT4000-ASSURE5
5 Years of Assure Coverage	CPSUPPORT-ACTIVE
Station Activation and Configuration	0.00.00.00.00.00



CT4021



The First ENERGY STAR[®] Certified EV Charger

CT4021 1830 mm (6') CT4025 2440 mm (8') Bollard



CT4023 1830 mm (6') CT4027 2440 mm (8') Wall Mount





-chargepoin+.

CT4000 Family Specifications

	Si	ngle Port (AC Voltage 2	208/240V AC)	Dual Port (AC Voltage 208/240V AC)				
Electrical Input	Input Current	Input Power Connection	Required Service Panel Breaker	input Current	Input Power Connection	Required Service Panel Breaker		
Standard	30A	One 40A branch circuit	40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) x 2		
Standard Power Share	n/a	n/a	n/a	32A	One 40A branch circuit	40A dual pole (non-GFCI type)		
Power Select 24A	24A	One 30A branch circuit	30A dual pole (non-GFCI type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x 2		
Power Select 24A Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)		
Power Select 16A	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) x 2		
Power Select 16A Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)		
Service Panel GFCI		Do not provide external GFCI as it may conflict with internal GFCI (CCID)						
Wiring - Standard		3-wire (L1, L2, Ear	th)		5-wire (L1, L1, L2, L2,	Earth)		
Wiring - Power Share		n/a			3-wire (L1, L2, Ea	rth)		
Station Power	8 W typical (standby), 15 W maximum (operation)							

Electrical Output

Standard	7.2 kW (240V AC @ 30A)	7.2 kW (240V AC @ 30A) x 2
Standard Power Share	n/a	7.2 kW (240V AC @ 30A) x 1 or 3.8 kW (240V AC @ 16A) x 2
Power Select 24A	5.8 kW (240V AC @ 24A)	5.8 kW (240V AC @ 24A) x 2
Power Select 24A Power Share	n/a	5.8 kW (240V AC @ 24A) x 1 or 2.9 kW (240V AC @ 12A) x 2
Power Select 16A	3.8 kW (240V AC @ 16A)	3.8 kW (240V AC @ 16A) x 2
Power Select 24A Power Share	n/a	3.8 kW (240V AC @ 16A) x 1 or 1.9 kW (240V AC @ 8A) x 2

Functional Interfaces

Connector(s) Type	SAE J1772™	SAE J1772™ x 2			
Cable Length - 1830 mm (6 ft) Cable Management	5.5 m (18 ft)	5.5 m (18 ft) x 2			
Cable Length - 2440 mm (8 ft) Cable Management	n/a	7 m (23 ft)			
Overhead Cable Management System	Ye	Yes			
LCD Display	145 mm (5.7 in) full color, 640 x 480, 30 fps f	145 mm (5.7 in) full color, 640 x 480, 30 fps full motion video, active matrix, UV protected			
Card Reader	ISO 15693, ISO	ISO 15693, ISO 14443, NFC			
Locking Holster	Yes	Yes x 2			

Safety and Connectivity Features

Ground Fault Detection	20 mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772™ specifications
Power Measurement Accuracy	+/- 2% from 2% to full scale (30A)
Power Report/Store Interval	15 minute, aligned to hour
Local Area Network	2.4 GHz WiFi (802.11 b/g/n)
Wide Area Network	LTE Category 4

Safety and Operational Ratings

Enclosure Rating	Type 3R per UL 50E
Safety Compliance	UL listed and cUL certified; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625
Surge Protection	6 kV @ 3,000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.
EMC Compliance	FCC Part 15 Class A
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Non-Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Humidity	Up to 85% @ 50°C (122°F) non-condensing
Non-Operating Humidity	Up to 95% @ 50°C (122°F) non-condensing
Terminal Block Temperature Rating	105°C (221°F)
Network	All stations include integral LTE modem and will be automatically configured to operate as gateway or non-gateway as needed

ChargePoint, Inc. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

Contact Us

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- @ Emailsales@chargepoint.com

-chargepoin+.

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chargepoint.com

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-chargepoin+:

CT4000 Family ChargePoint[®] Networked Charging Station



ChargePoint, Inc. 1692 Dell Ave. Campbell, CA 95008-6901 USA US toll free: +1-877-850-4562 www.chargepoint.com

Document P/N: 75-001084-02 Rev. 3

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS

This manual contains important instructions that must be followed during installation of a ChargePoint® Networked Charging Station.

Grounding instructions

The ChargePoint® Charging Station must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor is to be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, you will be required to correct the interference at your own expense.

Important: Changes or modifications to this product not authorized by ChargePoint, Inc., could affect the EMC compliance and revoke your authority to operate this product.

Exposure to Radio Frequency Energy: The radiated power output of the 802.11 b/g/n radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. This device should be operated with a minimum distance of at least 20 cm between the 802.11 b/g/n and cellular antennas and a person's body and must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

Industry Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC/IC Compliance Labels

Go to http://www.chargepoint.com/labels/.

Safety and compliance

This document provides instructions to install the ChargePoint[®] Charging Station and should not be used for any other product. Before installing the ChargePoint[®] Charging Station, you should review this manual carefully and consult with a licensed contractor, licensed electrician and trained installation expert to ensure compliance with local building practices, climate conditions, safety standards, and all applicable codes and ordinances.

The ChargePoint® Charging Station should be installed only by a licensed contractor and a licensed electrician and in accordance with all local and national codes and standards. The ChargePoint® Charging Station should be inspected by a qualified installer prior to the initial use. Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards. This document describes the most commonly-used installation and mounting scenarios. If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact ChargePoint, Inc. ChargePoint, Inc. is not responsible for any damages that may occur resulting from custom installations that are not described in this document.

No accuracy guarantee

Reasonable effort was made to ensure that the specifications and other information in this manual are accurate and complete at the time of its publication. However, the specifications and other information in this manual are subject to change at any time without prior notice.

Warranty information and disclaimer

Your use of, or modification to, the ChargePoint[®] Charging Station in a manner in which the ChargePoint[®] Charging Station is not intended to be used or modified will void the limited warranty. Other than any such limited warranty, the ChargePoint products are provided "AS IS," and ChargePoint, Inc. and its distributors expressly disclaim all implied warranties, including any warranty of design, merchantability, fitness for a particular purposes and non-infringement, to the maximum extent permitted by law.

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Introduction

This document provides step-by-step instructions on how to install a CT4000 ChargePoint® Charging Station.

Summary of Shipping Boxes

Assembly name	Label on box says	Overview of box contents	Shipping Weight	For Installation Instructions, see
Top Cap IMPORTANT: Open this box first-it contains this Installation Guide	CT40XX-CAP*		5 lbs (2.1 kg)	Chapter 4
Body	CT40X1-BD or CT40X3-BD	Bollard Mount (CT40X1-BD): Wall Mount (CT40X3-BD):	Bollard: 50 lbs (22.7 kg) Wall: 15 lbs (6.8 kg)	Chapter 2 - Bollard Chapter 3 - Wall Mount
Cord Management Retractor	СТ4000-СМК		CMK: 40 lbs (18.1 kg) CMK8: 50 lbs (22.7 kg)	Chapter 2 - Bollard Chapter 3 - Wall Mount
Head	CT40X0-HD* or CT40X0-HD-GW* For gateway stations the box also includes a Network Enablement Kit, CT4000-NEK1 (US) or CT4000-NEK2 (Canada)		Dual Port: 31 lbs (14 kg) Single Port: 25 lbs (11.3 kg)	Chapter 4
OPTIONAL: Power Management Kit	CT4000-PMGMT Allows both ports on a dual port station to share a single 40A circuit (Power Share). Also allows a CT4000 to be set up to operate at a lower current (Power Select).		5 oz (.14 kg)	Appendix B

*The last two digits of the four-digit model number depends on the station's features. The third digit (CT40**X**0) is "1" if the station has a single charging port, or '2' if the station has two charging ports. The last digit (CT40**IX**) is either a 1 (bollard mount) or 3 (wall mount).

NOTE: A more detailed list of the contents in each shipping box is provided in the associated chapter with the step-by-step installation instructions.

Installation Sequence

Regardless of the specific type of CT4000 charging station you are installing, and the options included, the high level installation sequence is the same:



You must complete an online training class to become a ChargePoint Certified Installer, and to get a login for ChargePoint. If you do not complete this training, you will be unable to complete the installation process.

- Ensure that the appropriate wiring, circuit protection, and metering is in place at the installation location by reviewing the specifications, wiring diagrams, and grounding requirements in the remainder of this chapter.
- Ensure that adequate CDMA (Verizon, Sprint) or GSM (AT&T, Rogers) cellular coverage is available at the installation location. To ensure adequate signal strength in underground garages or other enclosed parking structures, cellular repeaters may be required.
- For bollard mount charging stations, prepare the installation site by following the instructions in Appendix A. The mounting template for the bollard is stapled into the center fold of this document and a PDF version is available at www.chargepoint.com/support-installation-guides.php. Ensure the PDF version is accurate by printing it at 100% scale on 11" x 17" paper and then verifying at least one dimension.
- Review the CT4000 Data Sheet (available at www.chargepoint.com/support-product-data-sheets.php).
- Review the contents of this document to familiarize yourself with the contents of each shipping box and the required installation steps.

Specifications							
Electrical Input		SINGLE POP	T		DUAL PORT		
AC Voltage	20		с		208/240VAC		
	Current	Input Power Connectio	n Required Service Panel Breaker	Current	Input Power Connection	Required Service Panel Breaker	
Standard	30A	One 40A branch circui	t 40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) >	
Standard Power Share	n/a	n/a	n/a	32A	One 40A branch Circuit	40A dual pole (non-GFCI type)	
Power Select 24A	24A	One 30A Branch circu	t 30A dual pole (non-GFCI type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x	
Power Select 24A Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)	
Power Select 16A	16A	One 20A Branch circu	t 20A dual pole (non-GFCI type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) ×	
Power Select 16A Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	
Service Panel GFCI		Do no	t provide external GFCI a	s it may conf	lict with internal GFCI (CCID)		
Wiring - Standard		3-wire (L1, L2, E	arth)		5-wire (L1, L1, L2, L2, Eart	:h)	
Wiring - Power Share		n/a			3-wire (L1, L2, Earth)		
Station Power			8W typical (standb	y), 15W maxi	mum (operation)		
Electrical Output							
Standard		7.2kW (240VAC	030A)		7.2kW (240VAC@30A) x	: 2	
Standard Power Share		n/a			7.2kW (240VAC@30A) x 2 7.2kW (240VAC@30A) x 1 OR 3.8kW (240VAC@16A) x 2		
Power Select 24A		5.8kW (240VAC	@24A)	5.8kW (240VAC@24A) x 2			
Power Select 24A Power Share	n/a			5.8kW (240VAC@ 24A) x 1 OR 2.9kW (240VAC@12A) x 2			
Power Select 16A	3.8kW (240VAC@16A)			3.8kW (240VAC@16A) x 2			
Power Select 16A Power Share		n/a		3.8kW (240VAC@16A) x 1 OR 1.9kW (240VAC@8A) x 2			
Functional Interfaces							
Connector(s) Type	SAE J1772™			SAE J1772	™ x 2		
Charging Cable Length	18' (5.5 m	18' (5.5 meters)			18' (5.5 meters) x 2		
Overhead Cable Management System	Yes						
LCD Display	5.7" full co	olor, 640x480, 30fps full	motion video, active matr	ix, UV protec	cted		
Card Reader	ISO 15693, 14443, NFC						
Locking Holster	Yes			Yes x 2			
Safety and Connectivit	y Features						
Ground Fault Detection		20mA	CCID with auto retry				
Open Safety Ground Deter	ction	Contin	Continuously monitors presence of safety (green wire) ground connection				
Plug-Out Detection	racy	Power	Power terminated per SAE J1772 [™] specifications				
Power Report/Store Interv		15 min	+/- 2% Irom 2% to Tull Scale (SUA)				
Power Report/Store Interval		24 GH	24 GHz Wi-Fi (80211 b/a/b)				
		36 65	2.4 GHZ WI-FI (802.11 D/g/11)				
Safety and Operational	Ratings						
Enclosure Rating	-	Type 3	R per UL 50E				
Safety Compliance		UL liste Article	UL listed for USA and cUL certified for Canada; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625				
Surge Protection		6kV @ protec	6kV @ 3000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.				
EMC Compliance		FCC Pa	FCC Part 15 Class A				
Operating Temperature		-22°F t	-22°F to 122°F (-30°C to +50°C)				
Storage Temperature			-40°F to 122°F (-40°C to +50°C)				
Operating Humidity			up to 85% @ +50°C (122°F) non-condensing				
Non-Operating Humidity			up to 95% @ +50°C (122°F) non-condensing				
Terminal Block Temperature Rating		221°F (221°F (105°C)				
Maximum Stations per 802.11 Radio Group		oup 10. Eac	10. Each station must be located within 150 feet "line of sight" of a gateway station.				

Dual Circuit Wiring Diagram

The following illustration describes the wiring for installing a CT4000 on a dual circuit. Wiring for a single circuit installation is described on the next page. Grounding requirements are described on page 1-6.

NOTE: Requires two dedicated circuits, each with its own two pole 40 A breaker. See Appendix B for lower power operation options.



Single Port or Shared Power Wiring Diagram

The following illustration describes the wiring for installing a dual port CT4000 on a shared single circuit. For this installation, you will need the power sharing kit to allow both ports to share a two pole 40A circuit breaker. Wiring connections are provided in Appendix B. Grounding requirements are described on page 1-6. See Appendix B for lower power operation options.

Wiring for a dual circuit installation, see the previous page.



Grounding Requirements

The voltage of either line, relative to ground, must not fall below 80 volts or a Floating Line Connection error occurs (see page 5-3). Because the voltage of either line relative to ground must not be allowed to fluctuate, use only centergrounded systems. Neutral is not used to power the station but must be properly connected to ground, at the panel or transformer, to provide the necessary voltage reference relative to ground.

Connect to these systems

In a wye system, connect the station to ANY two lines, as shown below.

In a delta system, connect the station to a center-tapped secondary only, where the center tap is bonded and the station is connected to L1 and L3. This allows voltages to remain constant regardless of other loads that may be using the lines.



Do not connect to these systems

Do not connect ChargePoint stations to the following types of power sources:

- 120/208 VAC 3 phase wye, ungrounded
- 120/240 VAC 3 phase delta, corner-grounded
- Any system where the center point of the AC power source is not grounded



Installing a Bollard Mount

Before You Start

Before installing a bollard mount, prepare the installation site as described in Appendix A. After preparing the installation site, you need the following:

- Ratchet and 3/8" (10 mm) socket*
- 1/2" drive torque wrench and 15/16" (24 mm) 6-point deep socket, for 5/8 (11 /16 mm) nut**
- Adjustable wrench
- Bubble level
- #2 Phillips screwdriver
- Wire stripper
- Voltage tester

*For use with assembled SAE hardware. **For use with CT4000 Bollard to Concrete Mount Kit (35-001013-01).

Overview of Steps

Installing the bollard mount involves a few simple steps, summarized below and detailed in the remainder of this chapter:

- 1. Check Boxes for Correct Contents (page 2-2)
- 2. Prepare Pole/Base Plate for Mounting (page 2-3)
- 3. Mount Pole/Base Plate (page 2-4)
- 4. Install Main Body (page 2-5)
- 5. Prepare Retractor for Mounting (page 2-6)
- 6. Install Retractor (page 2-7)
- 7. Connect Wiring (page 2-8)
- 8. Check Voltages (page 2-9)

When you have completed these steps, you will be ready to install the head and top assemblies as described in Chapter 4.

2

Step 1: Check Boxes for Correct Contents

The bollard mount ships in two boxes as described below.

Main Body

- Main body, pre-assembled with mounting pole/base plate, rubber bumper, and brackets (1)
- Adapter plastic cap (1)
- ¹/₄"-20 x 1 ¹/₄" screws (4)

Cable Management Kit

- Retractor assembly with pre-installed "EV CHARGING ONLY" sign (1)
- Cable clamps (2 sets)**

**The type of cable clamps included will vary (see page 4-11).



Step 2: Prepare Pole/Base Plate for Mounting

- Use a 3/8" socket wrench to loosen (but not remove) the two screws holding the pole inside the main body.
- Remove the pole/base plate assembly from the main body by pulling it out from the bottom of the main body. Keep the rubber spacer in place over the pole.
- Remove and discard the cardboard shipping spacer.



Step 3: Mount Pole/Base Plate

Prepare the installation site as described in Appendix A, then mount the pole/base plate assembly as follows:

- Pull wires through conduit.
- Place the pole/base plate assembly over the conduit, ensuring the long curved edge of the base plate is located where you want the front of the charging station located.
- Adjust the lower nuts as necessary to ensure the mounting pole is level.
- When level, tighten the nuts on top of the base plate to at least 1416 in-lbs (160 Nm).

IMPORTANT: Ensure the pole/base plate is level by adjusting the nuts underneath the base plate. Verify accuracy after each adjustment by positioning the level at various locations on the pole, above each bolt.

> Position a level at various locations, both horizontally and vertically, including over each bolt



When level, tighten the upper nuts

Adjust the lower nuts as necessary to ensure the pole/base plate is level

Align the longer curved

edge to where you want

station

to position the front of the

Step 4: Install Main Body

To install the main body:

- Align the notches on the rubber spacer with the front mounting nuts, then slide it all the way down the pole until it is flush with the base plate. This prevents any rocking motion between the main body and the base plate.
- Slide the body over the mounting pole.
- Re-tighten the screws you loosened in Step 2 to approximately 80 in-lbs (9 Nm) using a 3/8" (10 mm) socket wrench.

IMPORTANT: Ensure the body is firmly aligned to the bottom surface and that no movement (rocking) can take place, even when significant pressure is applied.

IMPORTANT: The bollard is designed to shed moisture between its bottom surface and the concrete pad. It is very important to maintain this moisture egress feature so that there is no unwanted moisture build up. Therefore, do not seal the bollard to the concrete pad with caulking, silicone or other sealing material.





Re-tighten the 2 screws



Step 5: Prepare Retractor for Mounting

To prepare the retractor for mounting:

• Position the retractor packaging so that the bottom of the retractor is near the base of the bollard.

IMPORTANT: Do not unwrap the ropes.

- Remove and discard the two 3/8" drive shipping screws from the front face of the retractor. NOTE: When you remove the shipping screws, the retractor's counterweights are free to move in either direction. Therefore, do not tilt or carry the retractor assembly with the top end lower than the bottom end.
- Remove the foam packaging from the retractor.
- OPTIONAL: If necessary, remove or replace the EV PARKING sign. See Appendix C.



Step 6: Install Retractor

To install the retractor:

- Insert the black cap into the space at the top of the main body, between the main body and the retractor, as shown.
- With a Phillips screwdriver and at least one of the four ¼" 20 x 1 ¼" screws in hand, position the retractor against the back of the main body. Place the slot at the bottom of the retractor over the knob at the bottom of the main body, as shown.

IMPORTANT: Hold the retractor in place until you've secured it with at least one screw.

• From inside the main body, insert the four $\frac{1}{4}$ " - 20 x 1 $\frac{1}{4}$ " screws through the main body and the retractor, and tighten to 60 in-lbs (7 Nm).



Step 7: Connect Wiring

∕!∖ **IMPORTANT**: To power a dual-port station using a single 40A circuit, use the Power Share option provided in the Power Management Kit. Instead of following the instructions below, see Appendix B to properly install Power Share jumpers and relabel the station. After the station powers up, as described in Chapter 4, the on-screen Installation Wizard steps you through the process of configuring the station.

If you are not installing a power sharing kit, connect the wiring as follows:

Strip wires 1/2" (13 mm).



Push the black tab on the terminal block to release the terminal block cover, then slide the cover up until it locks into the raised position:

	In the set of the set
Push tab and lift cover	

- Lift the corresponding white lever on the terminal block, insert the ground wire into the center connector, then push the lever down until it clicks into its fully closed position.
- Lift the corresponding white levers, insert the 240 VAC L1 and L2 wires, then push the levers down until they click into their fully closed position.

WARNINGS:

- Use copper conductors only.
- Do NOT provide GFCI protection at panel. The CT4000 . has built-in GFCI protection.
- In areas with frequent thunder storms, add surge . protection at the service panel for all circuits.
- Use new circuit breakers only. Used breakers can damage equipment and introduce the potential for an electrical fire.
- Ensure all power and ground connections, especially ٠ those at the breaker and buss bar, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.



For single port stations, use the connectors indicated for "RIGHT" side only.


Step 8: Check Voltages

- Turn power ON.
- Using a solenoid type voltage tester, check that the voltages at the charging station's terminal block are as follows:

Measure Between	Volts
L1 and L2	208/240
GND and L1	120
GND and L2	120

If the voltages are not as expected, ensure that the wiring has been properly connected as describing on the previous page. For detailed wiring diagrams and grounding requirements, see pages 1-4 to 1-6.

Before continuing, resolve any wiring issues and ensure that voltages are as expected.

• Turn power OFF.

CT4000 Input Voltage Measurements







OPTIONAL: Apply custom signs to the front of the bollard and/or the back of the retractor. See Appendix C.

You have now finished installing the bollard mount and are ready to install the head assembly and top cap. See Chapter 4.



Installing a Wall Mount

Before You Start

You need the following:

- Drill and Tap for appropriate wall attachment hardware
- Attachment hardware, such as 3/8" x 3" (M10 x 75 mm) lag bolts (coach screws) if mounting to a wood wall
- Ratchet and 9/16" (15 mm) deep socket
- #2 Phillips screwdriver
- Tape measure
- Bubble level
- Marker
- Wire stripper
- Voltage tester

Overview of Steps

Installing the wall mount involves a few simple steps, summarized below and detailed in the remainder of this chapter:

- 1. Check Boxes for Correct Contents (page 3-2)
- 2. Drill Holes in Wall (page 3-3)
- 3. Mount Rear Brackets to Wall (page 3-4)
- 4. Prepare Retractor for Mounting (page 3-5)
- 5. Mount Retractor (page 3-6)
- 6. Install Conduit (page 3-7)
- 7. Install Main Body (page 3-8)
- 8. Connect Wiring (page 3-9)
- 9. Check Voltages (page 3-10)

When you have completed these steps, you will be ready to install the head and top cap as described in Chapter 4.

Step 1: Check Boxes for Correct Contents

The wall mount ships in two boxes as described below.

Main Body and Mounting Kit

- Main body, pre-assembled (1)
- Mounting brackets with pre-installed 1/4-20 screws and 3/8-16x3/4 flange bolts (2 sets)

NOTE: The packing box for the brackets serves as a template for drilling mounting holes. **Do not discard packaging until you've completed Step 2.**

• Slot cover (2)*

*One extra slot cover is included.

Cable Management Kit

- Retractor assembly with pre-installed "EV CHARGING ONLY" sign (1)
- Cable clamps (2 sets)**

**The type of cable clamps included will vary (see page 4-11).



Step 2: Drill Holes in Wall

- The packing box for the brackets is used as a template for drilling the wall holes. Tear the packing box along the perforation to allow it to lay flat.
- Place the template against the wall. As described on the package insert, align the top where indicated, 49" above the floor or ground. Ensure that the template is level and the side of the packaging insert is plumb. Mark the four mounting holes.
- Drill four holes in the wall at the marked locations.

NOTE:

- If mounting to a hollow wall, bridge at least two studs using a 1-5/8" channel strut. For wood studs, use 3/8" lag bolts that are long enough to penetrate at least 2 1/2" into the stud. Then mount the supplied brackets to the channel strut using 3/8-16 x 1" long bolts, 3/8 ID x 13/16" OD washers, and 3/8-16 channel strut nuts.
- If mounting to a masonry wall, use 3/8" expanding masonry fasteners.
- If mounting to a wood wall, use 3/8" x 3" lag bolts.





Step 3: Mount Rear Brackets to Wall

Separate the pre-assembled front and rear brackets by loosening (but not removing) the pre-installed screws. Leave about 3/4" (19 mm) protruding.

Mount each rear bracket to the wall using screws appropriate for the type of wall material.



Step 4: Prepare Retractor for Mounting

To prepare the retractor for mounting:

• Position the retractor packaging so that the bottom of the retractor is near the bottom of the wall.

IMPORTANT: Do not unwrap the ropes.

- Remove and discard the two 3/8" (10 mm) drive shipping screws from the front face of the retractor. NOTE: When you remove the shipping screws, the retractor's counterweights are free to move in either direction. Therefore, do not tilt or carry the retractor assembly with the top end lower than the bottom end.
- Remove the foam packaging from the retractor.
- OPTIONAL: If necessary, remove or replace the EV PARKING sign. See Appendix C.



Step 5: Mount Retractor

To mount the retractor assembly:

- Place the two front brackets where you can easily reach them.
- Tilt the retractor up against the rear brackets, with the front of the retractor facing towards you, as shown (mount holes visible).

NOTE: The bottom of the retractor should rest on the ground.

- Place the top front bracket over the two corresponding screws protruding from the top rear bracket. You'll need to steady the retractor with one hand, while using the other hand to position the bracket.
- Repeat for the bottom bracket.
- Tighten all four screws to 60 in-lbs (7 Nm) using the Phillips screwdriver.
- Insert the slot cover, bottom first, into the slot at the bottom of the retractor.



Step 6: Install Conduit

As shown, the base of the main body has two conduit knockouts: 1" and $\frac{3}{4}$ " (25 mm and 19 mm). Using a flat screwdriver, remove the knockout for the appropriate conduit size.



Step 7: Install Main Body

• Expose the pre-drilled hole located below the terminal block. To do so, push the tab on the terminal block to release the cover plate, then slide the cover plate upwards until it stays in position:



- Remove the pre-installed flange bolts from the front brackets.
- Position the main body so that the top hole aligns with the top retractor bracket.
- Re-insert a 3/8 16 x 3/4" flange bolt into the top hole and finger tighten.
- Re-insert the other flange bolt into the lower mounting hole.
- Tighten both flange bolts to 50 in-lbs (117 Nm).
- Connect the conduit and run wiring through the conduit and into the main body of the station.



Step 8: Connect Wiring

IMPORTANT: To power a dual-port station using a single 40A circuit, use the Power Share option provided in the Power Management Kit. Instead of following the instructions below, see Appendix B to properly install Power Share jumpers and relabel the station. After the station powers up, as described in Chapter 4, the on-screen Installation Wizard steps you through the process of configuring the station.

If you are not installing a power sharing kit, connect the wiring as follows:

• Strip wires ½" (13 mm).



 Push the black tab on the terminal block to release the terminal block cover, then slide the cover up until it locks into the raised position:



- Lift the corresponding white lever on the terminal block, insert the ground wire into the center connector, then push the lever down until it clicks into its fully closed position.
- Lift the corresponding white levers, insert the 240 VAC L1 and L2 wires, then push the levers down until they click into their fully closed position.

- Use copper conductors only.
- Do NOT provide GFCI protection at panel. The CT4000 has built-in GFCI protection.
- In areas with frequent thunder storms, add surge protection at the service panel for all circuits.
- Use new circuit breakers only. Used breakers can damage equipment and introduce the potential for an electrical fire.
- Ensure all power and ground connections, especially those at the breaker and buss bar, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.



For single port stations, use the connectors indicated for "RIGHT" side only.



Step 9: Check Voltages

- Turn power ON.
- Using a solenoid type voltage tester, check that the voltages at the charging station's terminal block are as follows:

Measure Between	Volts
L1 and L2	208/240
GND and L1	120
GND and L2	120

If the voltages are not as expected, ensure that the wiring has been properly connected as describing on the previous page. For detailed wiring diagrams and grounding requirements, see pages 1-4 to 1-6.

Before continuing, resolve any wiring issues and ensure that voltages are as expected.

• Turn power OFF.

CT4000 Input Voltage Measurements







You have now finished installing the wall mount and are ready to install the head assembly and top cap. See Chapter 4.



Installing the Head and Top Cap

Before You Start

Before installing the head and top cap, you must complete the installation of the main body and its cable management system as described in a previous chapter. You need the following:

- Smart phone with camera and internet connection
- ChargePoint login (provided during ChargePoint Installer Certification training)
- Wire stripper
- #2 Phillips screwdriver

Overview of Steps

Installing the head and top cap involves a few simple steps, summarized below and detailed in the remainder of this chapter:

- 1. Check Boxes for Correct Contents (page 4-2)
- 2. Prepare Head Assembly for Mounting (page 4-4)
- 3. Slide Head Assembly into Body (page 4-7)
- 4. Connect Head Assembly (page 4-8)
- 5. Use the Wizard to Complete the Installation (Page 4-9)
- 6. Secure Head Assembly (page 4-11)
- 7. Prepare the Station for Activation on ChargePoint (page 4-13)

When you have completed these steps, installation is complete.

Step 1: Check Boxes for Correct Contents

Тор сар

The station's top cap ships in a box containing:

- Top cap (1)
- Phillips screws (2) in some cases, the top cap does not require screws and instead has integrated snaps that allow you to snap it onto the head assembly (see page 4-5)
- CT4000 Installation Guide (this document)

Pay attention to the top cap's attachment type. Some top caps are attached using screws, whereas others have integrated snaps. Instructions are provided for each type.

If installing both bollard and wall mount stations, also pay attention to the top cap's shape. As illustrated below, the back of the top cap is rounded for bollard stations, and flat for wall mount stations.



Step 1 cont'd: Check Boxes for Correct Contents

Head assembly

The station's head assembly ships in a box containing:

- Head assembly
- Rubber plugs (4) two of these are spares.
- L-wrench (attached with a security tag on the side of the head assembly)
- Spare activation label (a duplicate label is attached to the head assembly)

IMPORTANT: Keep the spare activation label for future reference. It contains critical information that is needed to document the radio groups when preparing the station for activation on ChargePoint (see page 4-15).

For gateway stations, a Network Enablement Kit is also included:

- SIM card
- Installation instructions

IMPORTANT: Locate and retain the envelope containing the Network Enablement Kit, **located under the head assembly in the shipping box**. It contains critical components that allow the gateway station to communicate on the ChargePoint network (see installation instructions on page 4-4).



Step 2: Prepare Head Assembly for Mounting

• To prepare the head assembly for mounting, open the box and stand the head upright on its foam packaging, as shown.



- If you are installing a gateway station, install the Network Enablement Kit:
- a) Remove the SIM card from its carrier by pushing it firmly.
- a) Lift the rubber flap located on the left hand side of the head assembly, as shown.
- b) Insert the notched edge of the SIM card into the slot, with the notch facing upward. Slide it into the slot and push it FULLY into the slot until it "clicks" into place. Refer to the orientation instructions printed on the side of the head assembly.

TIP! To push the SIM card into the slot, use a corner of the SIM card's carrier, as shown.





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Step 2 cont'd: Prepare Head Assembly for Mounting

Install the top cap. There are two types of top caps:

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- SNAP TYPE: The back of the top cap has levered snaps (follow instructions below)
- SCREW TYPE: The back of the top cap has deep bosses for screws (follow instructions on the next page)

TO INSTALL A SNAP TYPE TOP CAP (to install a screw type top cap, see the next page)

- a) Place the top cap over the head assembly as shown, ensuring correct alignment.
- b) Push the top cap down onto the head assembly to secure it in place. Ensure that the front tabs are aligned over the nodules and the rear snaps are fully seated.



c) Push the snaps located at the back of the top cap to secure the top cap to the head assembly. Ensure that both snaps are fully engaged.



TO INSTALL A SCREW TYPE TOP CAP (to install a snap type top cap, see the previous page)

a) Place the top cap over the head assembly as shown, ensuring correct alignment.



b) Using a Phillips screwdriver, secure the top cap to the head assembly by inserting the two supplied screws into the back of the top cap and tightening to 20 in-lbs (2.3 Nm).



Step 3: Slide Head Assembly Into Body

Slide the head assembly into the main body until it is stopped by the head assembly's security tag.

IMPORTANT: Do not insert the charging connectors into the holsters until after you've powered up the station. Doing so causes the holsters to permanently lock.



Step 4: Connect Head Assembly

IMPORTANT: If configuring a dual station to operate from only one circuit, or to operate at a current capacity lower than 30A per circuit, see Appendix B for information on Power Management.

Pull to remove the yellow strap from the blue connector.

Connect the blue connector to the blue receptacle by the terminal block, ensuring it "clicks" into place and is fully seated.



Push the cover down over the terminal block.



Step 5: Use the Wizard to Complete the Installation

Power up the station to run the onscreen Installation Wizard, which helps you verify operation of the station and perform some basic setup tasks.

NOTE: If the station does not power up, check that the head assembly's blue rectangular connector is properly seated onto the terminal block.

To complete the tasks in this Wizard, you must have completed ChargePoint Installer Certification training and received your ChargePoint installer login. You will also need a smart phone with a camera, internet connectivity, and one of the recommended QR Code scanning apps defined in the training.

If you have not completed the ChargePoint Installer Certification training, please STOP and contact ChargePoint to sign up for training now.

The CT4000 Installation Wizard includes these tasks:

- Set language
- Enable Power Sharing (see Appendix B)
- Configure Power Select (see Appendix B)
- Apply the appropriate rating label (see Appendix B)
- Check for faults
- Test locking holsters
- Install cable clamps (see Appendix D)
- Pinpoint the station on a map
- Test network connectivity

The following images are an example of steps you will follow using the wizard:





The CT4000 Installation Wizard also includes a procedure for replacing a broken head assembly, which includes these tasks:

- Set language
- Configure the station for Power Share/Power Select (see Appendix B)
- Check for faults
- Test locking holsters
- Install cable clamps
- Transfer configuration from old station to new head

When using the Installation Wizard to replace a station, it is ready to use when the process is complete. The station owner does not need to activate the new station.

NOTE - ELECTRIC RATING LABELS

If you are using either Power Sharing to share one circuit for two ports, or Power Select to limit the maximum output power of the station, the wizard instructs you to apply the appropriate Electrical Rating label. The wizard describes which Electrical Rating label you must attach to the station.

NOTE - POWER MANAGEMENT KIT

If you are using Power Sharing to allow both ports on a dual port station to share a single 40A circuit, the wizard instructs you to install the jumpers that are provided in the optional Power Management Kit (ordered separately). For more information on Power Sharing, see Appendix B.

NOTE - CABLE CLAMPS

The wizard describes how to install the cable clamps, which are included in the shipping box with the Cable Management Kit. For more information, see Appendix D.

STARTING A CHARGING SESSION

A ChargePoint card is attached to the front page of this Installation Guide. Use this card to authorize a charging session. Make sure that both plug holsters unlock and that the station displays instructions on how to plug into the vehicle.

NOTE: The ChargePoint card supplied on the front cover can authorize up to ten charging sessions.

If you have performed the above steps, and the station operates as described and no errors exist, continue with the installation. If any of the above conditions are not met, resolve the error before continuing by referring to Chapter 5, Troubleshooting.

Step 6: Secure Head Assembly

Remove the L-wrench by rotating it to the right until the security tag breaks. Lift the head assembly slightly and remove the L-wrench.

IMPORTANT: If applicable, ensure the snaps on the top cap are fully engaged before lowering the head assembly. If they are not fully engaged, the head assembly will not be properly seated. See page 4-5.

Lower the head assembly. Ensure the head assembly is fully seated and that no gap exists between the bottom of the head assembly and the main body. The head assembly fits tightly and may require extra downward force to ensure it is fully seated.

Using the L-wrench, tighten the two security set screws, located inside the holsters, to approximately 25 to 30 inlbs (2.8 to 3.4 Nm).

Cover the screws using the two rubber plugs.

Insert the charging plugs into their corresponding holsters.

You have now finished the physical installation of the CT4000 charging station and are ready to prepare the station for activation on ChargePoint.





Step 7: Prepare the Station for Activation on ChargePoint

Before leaving the installation site, you must prepare the station for activation. To do so, you will need activation labels for all gateway and non-gateway stations in this radio group. An activation label is included in the shipping box with each head assembly (see page 4-2).

Preparing the station for activation on ChargePoint involves filling in the double-sided form on pages 4-15 and 4-16, detaching this sheet from this document, and providing it to the person responsible for activating the station on ChargePoint. After doing so, the installation of the CT4000 charging station is complete.

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Document the Radio Groups

For each radio group, attach spare activation labels below to document how stations are organized. After completing the next step on the reverse side, tear out this page and give it to the person responsible for activating the station. If installing multiple radio groups, use one page for each radio group (this page is included in all CT4000 Installation Guides).

stomer Name			
Gateway	GW-CORP-SNG Senal No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	NOTE: Gateways begin with "GW-" Non-gateways begin with "NGW-" GW-RFID-DUAL-F8 Senal No. TYWWYSSNIHKANN HAC: ODDO:0000.0000.0000 Activation Password: 00000	
Non-gateway	NGW-CORP-SNG Serial No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	Non-gateway	
Non-gateway	NGW-CORP-SNG Senal No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	NGW-CORP-SNG Senal No: YYWWSSNINNNN MAC: 0000 0000 0000 Provisioning Password 00000	
Non-gateway	NGW-CORP-SNG Serial No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	NGW-CORP-SNG Senal No: YYWWSSINNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Non-gateway	NGW-CORP-SNG Senal No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	NGW-CORP-SNG Senal No: YYYWYSSNNNNNN IIIIII MAC 0000 0000 0000 0000 Provisioning Password 00000	
Non-gateway	NGW-CORP-SNG Serial No: YYWWSSNNNNNN IIIIIIIIIIIIIIIIIIIIIIIIIIIII	NOTE: A radio group consists of one gateway station and up to nine non-gateways.	

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Post	-Installation Checklist
Before persor is inclu	e leaving the installation site, complete this checklist for each radio group. Then tear out this page and give it to the n responsible for activating the station. If installing multiple radio groups, use one page for each radio group (this page ided in all CT4000 Installation Guides).
V	Check each box below to confirm that the task has been completed for all stations within the radio group.
	All mounting hardware is tightly secured and all stations are level and rock solid.
	The two security screws inside the holster plugs on all head assemblies are tightened and the rubber plugs are in place.
	 Cable retractors: Cable clamp halves are assembled and screwed together with no gaps. All charging cables operate smoothly through full extension and retraction.
	 Voltages at all power plates have been verified with a solenoid type voltmeter (such as a Wiggy): Line-to-Line measures 208/240VAC. Line-to-Earth measures 120VAC.
	 If Power Share Jumpers are installed: All jumpers are fully inserted. Look for 1/8" (3 mm) depth. Power Share mode has been configured, using the on-screen Installation Wizard, for all power-shared stations and the station's display indicates that power sharing is in effect. The supplied Electrical Rating label has been applied above the terminal block and on the top cap as described in Appendix B.
	 If Power Select is applied: Power Select has been configured using the on-screen Installation Wizard. The supplied Electrical Rating label has been applied above the terminal block and on the top cap as described in Appendix B.
	All steps of the Installation Wizard have been completed and that the station is currently showing the animation screen (illustrated on page 5-1), which describes how to use the station.
	The radio group has been documented for activation by attaching the spare activation labels to the previous page.

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Troubleshooting

Check the Station's Display

When the station is powered on and the Installation Wizard has been completed, you should see:

- The instructional video, and no error messages.
- The status icon for each port displaying a green check mark.
- both error LEDS are extinguished (for some errors, one or both error LEDs are solid or blinking red).





Display Station Codes

To check the station for errors anytime after initial power up, follow these steps to display station codes.

- 1. Display the station's Service Menu:
 - if the station is not activated on ChargePoint, simultaneously press and hold the two leftmost buttons and the rightmost button for two seconds
 - if the station is activated on ChargePoint, scan your ChargePoint Service card
- 2. Press the station button immediately below the "HELP" menu option.
- 3. Press the station button immediately below the "DOWN" menu option to highlight "Station Codes".
- 4. Press SELECT.





Simultaneously press and hold these three buttons for two seconds to display the Service Menu on an unactivated station

If you see a station code, you must resolve or report the error before leaving the installation site. Station codes are described on the following pages.

Description of Station Codes

Code	Symptom	Possible cause(s)	Recommended Action(s)
In most cases, a driver can r	esolve the following station codes that begin with	the digit "1":	
101- Over Current Detection	n = the number of the applicable port	During charging, the vehicle attempted to draw more power than allowed. The station stops delivering power to the vehicle.	Can indicate faulty wiring in the vehicle. End the session by inserting the station's plug back into its holster, then restart the session. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.
102- Ventilation Requested	<i>n</i> = the number of the applicable port	Vehicle requires ventilated charging which is not supported by the station. The station stops delivering power to the vehicle.	Driver will be unable to use the station to charge their type of vehicle. Call the vehicle manufacturer.
103- Soft Ground Fault	<i>n</i> = the number of the applicable port	During charging, the station detected a ground fault. The station stops delivering power to the vehicle, but continues to retry every 30 seconds.	End the session by inserting the station's plug back into its holster, then restart the session. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.
104- Immediate Ground Fault	n = the number of the applicable port	On initial plug-in, the station detected a ground fault. The station stops delivering power to the vehicle.	End the charging session by inserting the station's plug back into its holster, then restart the session. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.
In most cases, an electriciar	can resolve the following station codes that begins	n with the digit "2":	
201-SIM	Pass serie, for SM card has here restricted correct;	SIM Not Detected - The SIM is either not installed or is incorrectly installed and the station can not communicate with the ChargePoint network.	Disconnect power and install (or re-install) the SIM card as described on page 5-4. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.
202-EF		Earth Fault - The station has detected a poor ground connection and the station is not operational.	Disconnect power and check that the station is properly grounded as described on page 1-7. After ensuring the station is properly grounded, reconnect power. If the error persists, try unplugging the head assembly and plugging it back in. If the error continues to persist, call ChargePoint Customer Support at 1-877-850-4562.
203-SNP	The banner between the port icons displays "STATION NOT ACTIVATED ON CHARGEPOINT - GRACE SESSIONS REMAINING (N)." When all grace sessions have been used:	Station not activated - The station can be used to charge for the specified number of remaining grace sessions. When all grace sessions have been used, the station is not operational.	Arrange for the station to be activated on ChargePoint by completing the steps in Chapter 4.
204-NGNP	Before activation: The banner between the port icons displays "NO GATEWAY WITHIN RANGE." After activation: All you will see is the code listed on Help > Station Codes.	Non-Gateway Not Paired - The station is set up to communicate with a gateway station that is either not within range, or is not powered on.	Verify that the gateway station is powered on and located within 150 feet line of sight (no obstructions). If the error persists after these requirements are met, call ChargePoint Customer Support at 1-877-850-4562.

Code	Symptom	Possible cause(s)	Recommended Action(s)
205-UNS	Before activation: The banner between the port icons displays "NETWORK SIGNAL NOT DETECTED." After activation: All you will see is the code listed on Help > Station Codes.	Unknown Network Signal - The gateway station is unable to establish a network connection on AT&T/ Verizon (US) or Rogers (Canada).	 Ensure the station is receiving an adequate signal strength from the cellular network. To do so, display the Service menu*, then: Check the network signal for each type of modem by choosing: Basic mode > Display last measured RSSI. The strength of the signal should be A, B, or C. If the network signal is Grade D, or if a better network signal is available on the other type of modem, change modems by choosing: Basic mode > Change modem technology (CDMA or GSM). If the signal strength is either weak (D) or not available for both CDMA and GSM, arrange for cellular repeaters to be installed near the installation site. If the error persists when the station shows a strong network signal, call ChargePoint Customer Support at 1-877-850-4562. *To display the station is activated) or, if the station is not activated, press the three station buttons as described on page B-3.
206-FLC	Before activation: For a ctivation: After activation: You will see the code listed on Help > Station Codes and the port status icons will show: p = the number of the applicable port or $p = the number of the applicable port or p = the number of the applicable port$	 Floating Line Connection - The voltage of an AC input line has fallen below 80 volts AC relative to ground. Even if the line to line voltage measures nominally 208 or 240 volts, the voltage of each line must be greater than 80 volts when measured to ground. The two most common causes of a Power Line Fault are: A poor connection in the wiring supplying power and the ground connection to the station. There could be a poor connection between the buss bar and circuit breaker, the breaker to the branch circuit. The station is connected to an incompatible improperly grounded power source. All power and tight and carry the full rated current of the station. Do not connect the station to an ungrounded (floating neutral) system, a corner grounded Delta system. 	Correct any faulty connections. Verify that the station is connected to a system with its neutral properly grounded according to NEC Article 250. Verify the station is connected to one of the system types described in Chapter 1. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.

Code	Symptom	Possible cause(s)	Recommended Action(s)
ChargePoint Supp	ort may need to resolve the following station codes t	hat begin with the digit "3":	
301-BA	V D	Breakaway Fault - The cable has been removed from the station or is damaged. The station is not operational.	Call ChargePoint Customer Support at 1-877-850-4562 to arrange to have the station replaced.
302-GST	<i>n</i> = the number of the applicable port or	GFCI Self Test Failed - The station detected a ground fault during power up and is not operational.	End the session by inserting the station's plug back into its holster, then restart the session. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562.
303-RSC	<i>n</i> = the number of the applicable port or	Relay Stuck Closed - When attempting to end a charging session, the relay stays closed. Although the driver can return the station's plug to its holster, the station doesn't end the session. Therefore, a new session can not be started.	Call ChargePoint Customer Support at 1-877-850-4562 to arrange to have the station replaced or repaired.
305-LCO		Pilot Unreachable - The station is out of service.	Disconnect and reconnect power. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562 to arrange to have the station replaced or repaired.
306-BF	P	Boot Fault - The station is out of service.	Disconnect and reconnect power. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562 to arrange to have the station replaced or repaired.
307-HE		Hardware Error - The station is out of service.	Disconnect and reconnect power. If the error persists, call ChargePoint Customer Support at 1-877-850- 4562 to arrange to have the station replaced or repaired.

Charging Cable Doesn't Move Freely

If the charging cable does not extend or retract fully and smoothly, it is likely that it's rope has come off the pulley and you must re-position it.

You will need:

T25 L-wrench

Follow these steps:

1. Using the T25 L-wrench, loosen the set screws on each side of the retractor below the top cap.

2. Each rope is attached to a weight that sits on a shelf. Pull the weight shelf up by pulling the rope located in the middle of the top cap.

3. Rotate the top cap so the weight controlling the rope that doesn't move freely is facing towards you.



- 4. Inspect the rope to ensure it is properly aligned onto the pulley.
- 5. Carefully lower the weight back into the retractor.
- 6. Rotate the top cap back into position and re-tighten the set screws to about 10 in-lbs.



Ensure the rope is properly aligned onto the pulley
Preparing the Installation Site for a Bollard Mount

Before You Start

The ChargePoint® Charging Station's bollard mount can be installed either:

- into the ground
- onto an existing concrete surface (on an intermediate floor only)

The kit components you need to use, the tools required, and the installation steps vary depending on the type of installation. This appendix provides basic guidelines for both types of installations.

IMPORTANT: Always check local codes to ensure compliance. You may need to adjust the guidelines provided in this appendix to comply with codes that apply at your installation location.

Installation Overview

To install the CT4000 bollard mount into the ground, you will need the components shown below. These components can be purchased from ChargePoint by ordering a CT4000 Concrete Mount Kit.



***NOTE:** When installing onto an existing concrete surface, you will need only 6 Galvanised Hex Nuts and 6 Galvanised Washers. But you will need several consumables as described on page A-3.

Casting into New Concrete

Before casting into new concrete, review the site for suitability to install a CT4000. The CT4000's Clean Cord Technology requires space behind the power stub-up for the Cord Management Kit (CMK). To ensure adequate space, refer to the illustrations below and to the CT4000 Installation Template (75-001094-01) included in this installation kit.

- Always check local codes to ensure compliance. You may need to adjust these instructions to comply with codes that apply at your installation location.
- The concrete block must measure at least 24" on all sides.
- The bolt threads must extend 3" above the concrete.
- The conduit must be at least 1 1/2" in diameter and extend 12" to 24" above the concrete.
- Refer to the CT4000 Installation Guide for detailed installation instructions.

Kit Components Needed

You will need the entire contents of the CT4000 Concrete Mount Kit.

Follow These Steps

- Install two nuts, with two washers captured between them, onto each of the three bolts, as illustrated. Lock them together so the lower end of the upper nut is located 6 6 ¼" from the bottom of the bolt. This sets the length of the exposed threads.
- 2. Insert the three bolts through the Plastic Bolt Installation Template. This ensures the relative position of the bolts and that the flange of the pole fits over the bolts.
- 3. On the bottom of each bolt, install a nut, a washer, and a nut. Lock the two nuts together so that the lower nut aligns to the bottom of the bolt.
- 4. Immediately after pouring the concrete, push the bolts into the concrete 6" deep, as illustrated. Ensure correct alignment and that the top 3" of the bolts remain exposed. Rotate the bolts as you insert them to draw concrete into the threads.

NOTE:

- It is important to rotate the bolts as you insert them. This allows the concrete to fully coat the threads of the bolts, reducing the amount of trapped air.
- The Plastic Bolt Installation Template template can be left in place.
- 5. When the concrete is fully set, remove the upper nuts and one washer to install the bollard's mounting post.

You are now ready to install the CT4000's bollard mount. Refer to the CT4000 Installation Guide.





Installing on Existing Concrete

If installing on existing concrete, perform the following tasks:

- Review the site for suitability to install a CT4000. The CT4000's Clean Cord Technology requires space behind the power stub-up for the Cord Management Kit (CMK). To ensure adequate space, reference the CT4000 Installation Template (75-001094-01) included in this installation kit.
- Review the dimensions of the existing concrete slab. To safely mount a CT4000 charging station, the concrete must be at least 6" thick. At this thickness, all of the CT4000's mounting bolts must be positioned at least 15" from the front edge, at least 12" from the side edges, and at least 6" from the rear edge of the concrete slab.
- If an existing charging station is already in place at the installation site, turn off all power to the station and disassemble according to the original manufacturer's instructions. Cut away any existing bolts or non-power conduit stub-up to ground level. You may need to plug cut-away conduits at the slab end, and disconnect wiring at the other end.

IMPORTANT: Always check local codes to ensure compliance. You may need to adjust these instructions to comply with codes that apply at your installation location.

Kit Components Needed

The CT4000 Concrete Mount Kit contains 12 Heavy Galvanized Hex Nuts and 9 Galvanized Washers. You will need only 6 of each.

Tools Required

Electric drill or Hammer drill (1/2" chuck may be required depending on drill bits used) (1)

Consumables Required

These consumables can be ordered online directly from McMaster (McMaster Product #s are included in the table below). Delete any items you already have, and change quantities to accommodate the number of stations you are installing.

NOTE: The consumption rate of these products will vary depending on conditions at the installation site.

Quantity	McMaster Product #	Description	Purpose
1*	7505A55	Epoxy Adhesive for Concrete, 9.3 Ounce Cartridge (includes two mixing nozzles)	Filling drilled holes.
1*	7505A56	Mixing Nozzles for 9.3 Ounce Epoxy Adhesive for Concrete	Filling drilled holes. NOTE: You may need extra mixing nozzles to accommodate delays of over three minutes when applying epoxy.
1	7622T23	Ratchet Rod Caulk Gun with Half-Barrel Frame for 10-13 Ounce Cartridge, 6:1 Thrust	Filling drilled holes. NOTE: Any standard caulk gun will work.
1	7437K35	Electrical Cleaning and Maintenance Aerosol, Any Angle Spray Duster, 8 Ounce Net Weight	Cleaning drilled holes.
1	2960A22	Slow Spiral Round-Shank Masonry Drill Bit, 3⁄4" diameter, 1⁄2" Shank, 10" Drill Depth, 12" Length Overall	Drilling ³ / ₄ " holes in concrete. NOTE: The holes must be at least 6" deep.
1	28655A25	Drill Bit for Concrete Embedded Rebar, Round, ³ / ₄ " bit size, ¹ / ₂ " Shank diameter, 12" Length Overall	Drilling ¾" hole through rebar.
1	7221T13	Nylon Loop-Handle Brush, ¾" Brush Diameter, 3" Length Brush, 8 ½" Length Overall	Cleaning drilled holes.
1	9753K47	Push-on Round Cap, fits 5/8" - ¹¹ /16" OD, 1/2" Inside Height, Packs of 100	Keeping the epoxy inside the drilled holes in situations where the slab is only 6" deep.

* Quantity based on installation of one charging station.

Follow These Steps

- 1. Install two nuts with two washers captured between them. Lock them together so the lower end of the nut is located 6" from the bottom of the bolt. This sets the length of the exposed threads.
- 2. Use the Plastic Concrete Bolt Installation Template to mark the hole locations.
- Remove the template and drill three ¾" diameter holes 6" deep into the concrete. When locating the template, consider the charging station's total footprint. For reference, a template for the CT4000 charging station with CMK is included in this kit.

NOTE:

- It is important that the bolts are parallel after installation. Therefore, ensure the drill holes are plumb by using a bubble level to check the angle of the drill after drilling 1 to 1 ½".
- If installing over existing buried conduit, position the center of the template around the conduit stub-up.
- You may need two drill bits one for the concrete (with the pilot) and another for the rebar (without the pilot). Always start the hole using the standard drill bit, then switch to the rebar drill bit only if drilling through rebar.
- 4. Remove all dust from inside the drilled holes using compressed air, or a vacuum and/or a brush.
- 5. If the concrete slab is only 6" deep, insert a plug (McMaster Product #9753K56) in each hole to keep the epoxy in place until it hardens. Place the plug over the long end of a bolt and then use the bolt to push the plug to the bottom of the hole.
- 6. Fill each hole with epoxy to about 2 ¹/₂" to 3" below the top. Continue immediately to the next step because the epoxy sets within about eight minutes.

NOTE: Inserting the threaded bolts displaces the epoxy, causing it to fill the holes to grade level. If the epoxy is below grade level, you can add more after the next step.

- 7. Place the Plastic Concrete Bolt Installation Template over the holes. This ensures the relative position of the bolts and that the flange of the pole fits over the bolts.
- 8. Insert the bolts through the template, into the holes. Rotate the bolts as you insert them to draw epoxy into the threads.

IMPORTANT: The epoxy is very thick. Therefore, it is important to rotate the bolts as you insert them. This allows the epoxy to fully coat the threads of the bolts, reducing the amount of trapped air.

NOTE: The installation template can be left in place.

- 9. If needed, top up the holes with epoxy to grade level.
- 10. Allow the epoxy to cure for at least 15 minutes* before removing the top nuts and washers.
- 11. Allow the epoxy to cure for 45 minutes* before applying torque to the nuts.

*Epoxy cure times assume you are using epoxy ordered from McMaster (Product # 7505A55). If using a different type of epoxy, you may need to adjust these times. Refer to the cure times provided with the epoxy.

You are now ready to install the CT4000's bollard mount (see Chapter 2).





CT4000 Power Management Instructions

As shipped, a CT4000 charging station provides up to 30A of output power to each charging port. The Power Management Kit (ordered separately) provides two features that you can use to adjust the station's output power:

- Power Share allows both ports on a dual-port station to share a single circuit. In a default configuration, a dual-port CT4000 requires two 40A circuits. WIth Power Share, both ports can share one circuit.
- Power Select allows the station to operate at a lower current. When the total current capacity is less than the standard 30A per circuit, you can use Power Select to configure the station to operate at a lower current.

Before you start

Before using the Power Management Kit:

- Refer to the site design to determine the charging station's power requirements.
- Install the charging station's main body as described in Chapter 2 (Bollard Mount) or 3 (Wall Mount). If you are
 configuring Power Share, do not connect the wiring—you will first need to install the jumpers as described on
 page B-2.

IMPORTANT: To configure Power Select, the station must be running software version 4.1.3 or later. To verify software version, power up the station and display the station's Service Menu as described on page B-3. Press the station button immediately below the "HELP" menu option, then press the station button immediately below the "DOWN" menu option to highlight "About", then press "SELECT". If a previous version of software is installed, call ChargePoint Customer Support at 1-877-850-4562 so they can upgrade the station's software.

Kit Contents



Power Share - Overview of Steps

- 1. Install jumpers and connect the wiring
- 2. Apply the Electrical Rating label
- 3. Complete the station installation (for new installations)
- 4. Enable Power Share

Power Share - Step by Step Instructions

Step 1: Install jumpers and connect wiring

WARNING: Disconnect power before you begin.

Push the black tab on the terminal block to release the terminal block cover, then slide the cover up until it locks into the raised position:



Insert the jumpers into the slots located near the upper edge of the terminal block. Using a large flat blade screwdriver, push firmly on each jumper until you feel it lock into place.







IMPORTANT: Ensure both jumpers are fully seated. The jumpers should recede 1/8" (3 mm) below the outer surface of the terminal block, as shown. If they are flush, they are not fully inserted.

Strip wires 1/2" (13 mm).



Lift the white lever on the terminal block that corresponds with the ground connection (center), insert the ground wire, then push the lever down until it clicks into its fully closed position.

Lift the white levers on the terminal block that corresponds with the RIGHT port's L and N connections. Insert the L and N wires fully into the terminal block, then push the levers down until they click into their fully closed positions.

NOTE: The connections for the left port are not used. Power for the left port is carried through the jumpers.

- Use copper conductors only.
- Do NOT provide GFCI protection at the panel—the CT4000 has built-in GFCI protection.
- Use breakers rated at 40A (or lower, if you are configuring the station to operate at a lower current capacity as described on the following page).
- In areas with frequent thunder storms, add surge protection at the service panel for all circuits.
- Use new circuit breakers only. Used breakers can damage equipment and cause a fire risk.
- Ensure all power and ground connections, especially those at the breaker, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.

Step 2: Apply the Electrical Rating labels

Described on page B-5.

Step 3: Complete the station installation

Install the head assembly and top cap as described in the CT4000 Installation Guide.

Step 4: Enable Power Share

Power up the station. If the Installation Wizard displays, follow the onscreen instructions to enable Power Sharing. If the Installation Wizard does not display, configure Power Sharing using the Service Menu as described below.

Display the station's Service Menu:

- if the station is not activated on ChargePoint, simultaneously press and hold the two leftmost buttons and the rightmost button for two seconds.
- if the station is activated on ChargePoint, scan your ChargePoint Service card.

Select Basic mode.

Scroll down to select **Power Sharing Configuration**.

Select Enable.

Select Exit to leave the Service Menu.

Confirm that the station's display indicates that power sharing has been configured.

Press the button immediately below the menu item to choose the associated function

> The station indicates that power sharing is configured





If the Installation Wizard does not display upon power up, simultaneously press and hold these three buttons for two seconds to display the Service Menu on an unactivated station



Power Select - Overview of Steps

- 1. Configure Power Select
- 2. Apply the Electrical Rating label

Power Select - Step by Step Instructions

Step 1: Configure Power Select

Power up the station. If the station displays the Installation Wizard, follow the onscreen instructions to enable Power Select. If the station does not display the Installation Wizard, configure Power Select using the Service Menu as described below.

Display the station's Service Menu:

- if the station is not activated on ChargePoint, simultaneously press and hold the two leftmost buttons and the rightmost button for two seconds.
- if the station is activated on ChargePoint, scan your ChargePoint Service card.

Scroll down to select Circuit Breaker Configuration.

Choose the breaker size that matches what is installed for the station.

Select Exit to leave the Service Menu.

NOTE: If you make an error when using the Installation Wizard, your ChargePoint Network Manager can change the station's settings by logging into ChargePoint, selecting the station from the Manage Stations page, selecting the Configuration tab, and then clicking Edit to modify the station's Power Sharing and Power Select settings.

If the station must be reconfigured using the Installation Wizard, contact ChargePoint Customer Support at 1-877-850-4562 to have the station reset to its factory default configuration.



If the Installation Wizard does not display upon power up, simultaneously press and hold these three buttons for two seconds to display the Service Menu on an unactivated station



Step 2: Apply the Electrical Rating label

See next page.

Apply the Electrical Rating Label

Step 1: Choose the appropriate label



Step 2: Apply a label to the terminal block cover

Apply a label to the left side of the terminal block cover, just above the terminal block.

NOTE: Leave the terminal block cover in the raised position to facilitate connection of the head assembly.

Electrical Rating Label on _____ Terminal Block Cover



Step 3: Apply a label to the top cap

Apply the corresponding label to the right side of the Top Cap, behind the cable exit.

Electrical Rating Label on Top Cap



Installing and Replacing Signs

Follow these steps in this section to install signs onto the charging station. To ensure a proper fit, signs must follow the specification provided by ChargePoint. An example of the sign specification (not to scale) is provided below. Detailed sign specifications are available at www.chargepoint.com/support-guides/. To ensure a proper fit, a replacement sign must be a maximum of 1 mm thick, 102 mm wide and 514 mm high.

Installing a Front Sign on a Bollard



It is easier to install the sign before installing the head assembly, but it can be installed with the head assembly already in place. Follow these steps to install the sign with the head assembly in place. If the head assembly is not installed, the installation steps are the same, with the exception of inserting the top edge of the sign under the bottom lip of the head assembly.

- Remove the tape from the adhesive strip on the back of the sign.
- With the adhesive strip facing toward the bollard, insert the top left corner of the sign under the groove on the top left corner of the bollard, sliding the sign upwards as far as possible to position the top of the sign under the bottom lip of the head assembly.

Starting with the top left corner and working from top to bottom, use a thumb or finger to slide the left side of the sign under the bollard's leftmost groove.

- When the left side of the sign is fully inserted, bow the top of the sign outward slightly to insert the top right corner of the sign under the groove on the top right corner of the bollard, ensuring the top of sign remains positioned under the bottom lip of the head assembly.
- Starting with the top right corner and working from top to bottom, use your thumb or finger to slide the right side of the sign under the bollard's rightmost groove.
- When the sign is fully inserted into the bollard's left and right grooves, and under the bottom lip of the head assembly, run your hand down the center of the sign while applying enough pressure to make sure the sign's adhesive strip contacts the bollard.





Installing a Top Sign on the Retractor

To remove a sign after the station has been installed:

1. Use the L-wrench to loosen the set screw on each side of the top cap, as shown.

- Pull the top assembly up and move it towards the 2. back of the retractor.
- Slide the existing sign out of the grooves. 3.

To install the new sign:

1. Slide the replacement sign into the grooves by bending is slightly.



- 2. Slide the sign all the way down, ensuring its bottom edge is located behind the plastic cap on the retractor's extrusion, as shown.
- 3. Re-install the top assembly. Remember to tighten the set screws.

edge of the sign until it is positioned behind the plastic cap

Installing a Bottom Sign on the Wall Mount Retractor

To ensure a proper fit, the bottom sign must have these minimum characteristics:

- Material Vinyl with a maximum thickness of .03"
- Dimensions Exactly 4.00" (102 mm) wide and up to 30.75" (782 mm) high



A detailed sign specification is available at www.chargepoint. com.au/support/technical-documents/. Example (not to scale):

The method used to install a bottom sign is the same with or without the main body installed:

- 1. Insert one of the long edges into the retractor's grooves along the side portion of the retractor.
- 2. Bend the sign slightly to insert the other long edge.
- 3. Slide the sign all the way down until the bottom edge is against the bottom surface on which the station is installed.

Installing a Rear Sign on a Retractor

Installing a sign on the rear side of a retractor is the same as the instructions provided above for installing a bottom sign on a wall mount retractor.

Custom and Optional Signs

Detailed sign specifications for custom and optional signs are available at www.chargepoint.com/support-guides.php



Installing Cable Clamps

D

IMPORTANT: Do not unwrap the ropes until they are securely attached to the charging cable.

There are two types of cable clamps available for the CT4000. The correct clamps are included in the shipping box with the cable management kit (see page 2-2 or 3-2). The type of clamp that is used depends on whether the end of the nylon rope in the cable management kit is equipped with a circular disc or a round bead:

If equipped with a circular disc, the cable clamps are spherical type



If equipped with a round bead, cable clamps are bracket type



NOTE: In some cases, you may need to remove an existing pre-installed portion of a cable clamp from the charging cables before you can install the type of clamp that is supplied in the cable management kit. When doing so, you must install the new clamp at the exact same location as the removed clamp.

IMPORTANT: After installing the cable clamps, unwrap the rope and check that the charging cable extends and retracts fully and smoothly. If it doesn't, see page 6-4.

To install spherical clamps:

- Uncoil charging cable by gently extending it all the way out and away from the station. Rotate the plug as needed to remove any twist or kinks.
- Position the charging cable near the base of the station and locate the tape on the cable that marks the location where you must intall the clamp.
- Insert a rubber shim into the bottom portion of each clamp. Ensure the top portion of the cable clamp is oriented correctly on the top side of the charge cable. Tighten screws to 20 in-lbs (2.3 Nm).



Align the knot bearing on each rope to its corresponding mating feature on the cable clamp. Turn the knot bearing clockwise approximately 1/4 turn. You may need to push down while turning the knot bearing.



To install bracket clamps:

- Uncoil charging cable by gently extending it all the way out and away from the station. Rotate the plug as needed to remove any twist or kinks.
- Position the charging cable near the base of the station and locate the tape on the cable that marks the location where you must intall the clamp.
- Locate the bead at the end of the retractor rope.
- Hold the charging cable with the marked tape positioned under the retractor top. Ensure the charging cable does not touch the ground when fully retracted.
- Insert the bead inside the clamp, then snap the opposite side of the clamp into place.
- Secure the two sides of the clamp together by inserting the rubber shim and the four screws, then tightening the screws securely using a Phillips screwdriver.



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- Improper site preparation or maintenance.
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ChargePoint, Inc. 1692 Dell Avenue Campbell, California 95008-6901 Tel: 408-370-3802 Fax: 408-370-3847 Email: service@chargepoint.com



1692 Dell Ave. Campbell, CA 95008-6901 USA US toll free: +1-877-370-3802 www.chargepoint.com Attachment 4

SITE PLAN

ISD Records Management: EV Charing Station & New Genset Project



Created by: Scot Stanley, 228-6028 Dated: 04/08/2022 File: <u>3. Site Plan (Conceptual) 2022 0408.pdf</u>

Attachment 5

EMERGENCY POWER GENERATOR