# Tesla Charging

EVSE Training for W&M
Inspectors and Service Agents

September 2026
Annapolis, MD

NOTICE
The information contained in this documents is confidential, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Tesla, Inc.

LAST EDITED
July 2025

COPYRIGHT 2



# Agenda

## Practical considerations

- Charging as a business
- Driver experience
- Approach to inspections



COPYRIGHT 2020 TESLA MOTORS, INC.

PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Charging as a business

## Seamless, convenient, and cost effective

- **Objective:** Create a convenient and seamless customer charging experience that is always reliable

- **Pathways:**
  - Simple and efficient designs
  - Plug and Charge
  - 99%+ uptime
  - Larger sites as customer adoption grows
  - Ubiquitous charging that integrates with customer's daily lives
  - Dynamic trip planner



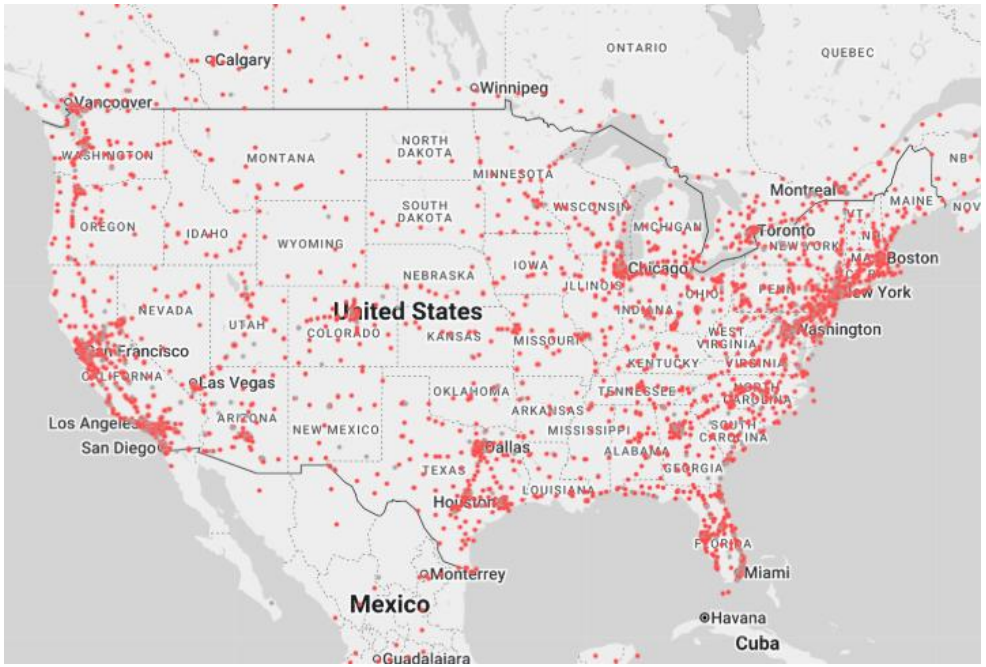




TESLA
COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Charging as a business

## Ubiquity is key




More than 2,900 locations and 36,000 Supercharger (DCFC) Stalls in the U.S.




More than 4,700 locations and 12,000 Destination Chargers (AC) in the U.S.


COPYRIGHT 2025 TESLA, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Charging as a business

## Tesla designs and manufactures charging equipment for every use case.















| | **Wall Connector Gen 3**<br>Level 2 AC – Multifamily, workplace, hospitality | **Supercharger V2**<br>DC Fast Charging | **Supercharger V3**<br>DC Fast Charging | **Supercharger V4**<br>DC Fast Charging | **Megacharger**<br>Semi Public and Fleet Charging |
|---|---|---|---|---|---|
| **Max Power** | 11.5 kW | 150 kW | 250 kW | 500 kW (V4 cabinet)<br>325 kW (V3 cabinet) | 1.2 MW |
| **Voltage** | 240 V AC | 400 V | 480 V | 400 V - 1000V | 180-1000 V |
| **Charge Time** | 5-20 hours | 30-60 mins | 15-40 mins | 15-30 mins | ~60% range in 30 mins |
| **Deployment** | 2020 – present | 2016-2019 | 2019-2026 | 2025- present | 2026 – present |
| **NTEP** | Yes | No | Yes | Yes | In progress |


COPYRIGHT 2025 TESLA, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Charging as a business

## Every major automaker has adopted NACS – North American Charging Standard







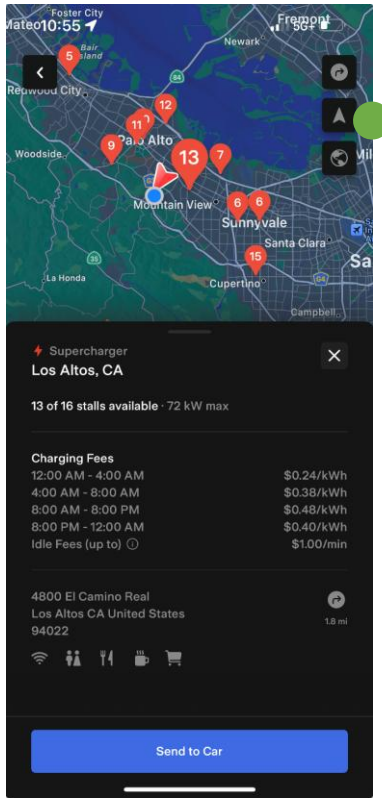
COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Driver Experience

**Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.**

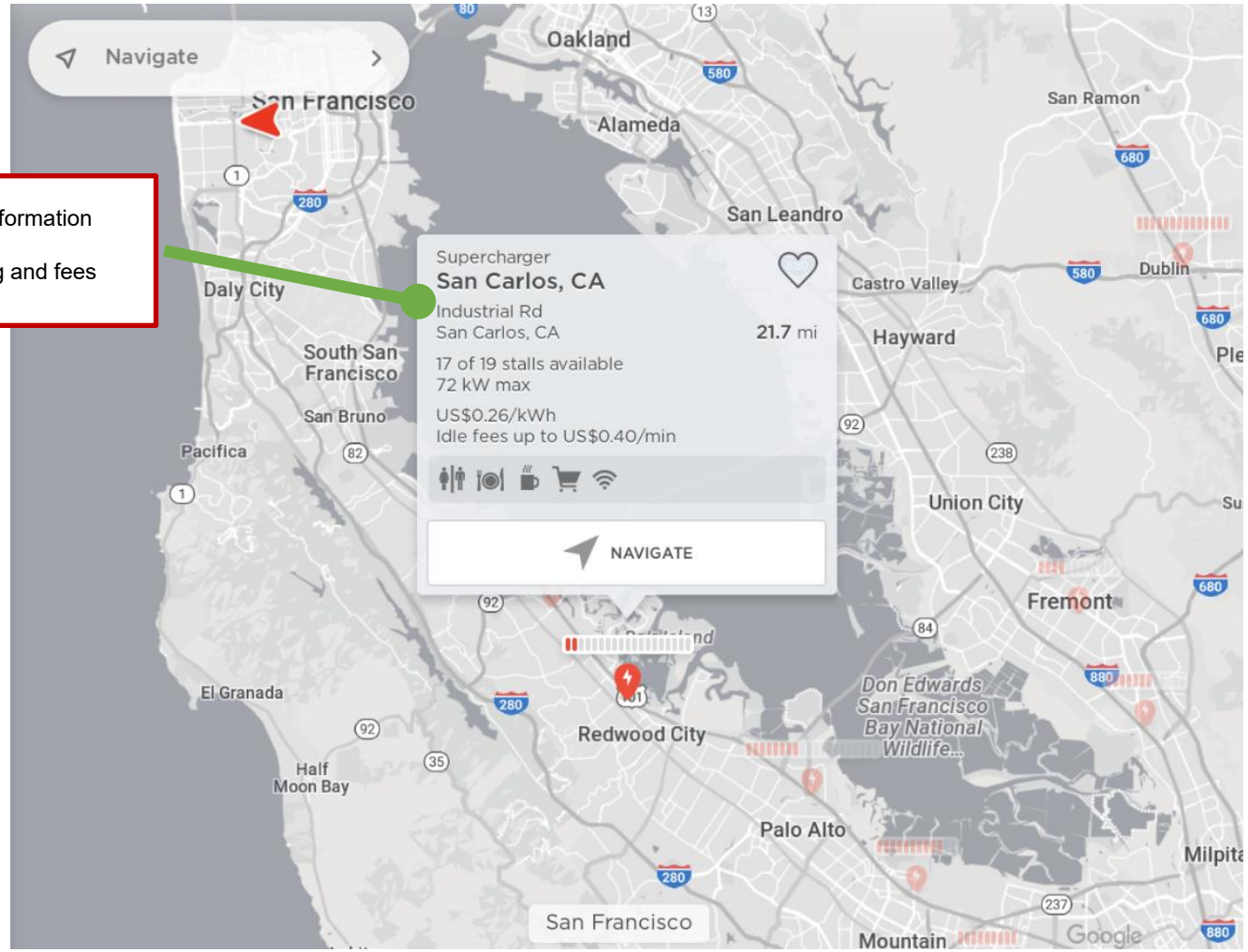
## 1) Prior to Arrival: Wayfinding and Price Discovery

- Display charging location, real-time pricing and fees to help drivers decide where to charge




Site information

Pricing and fees

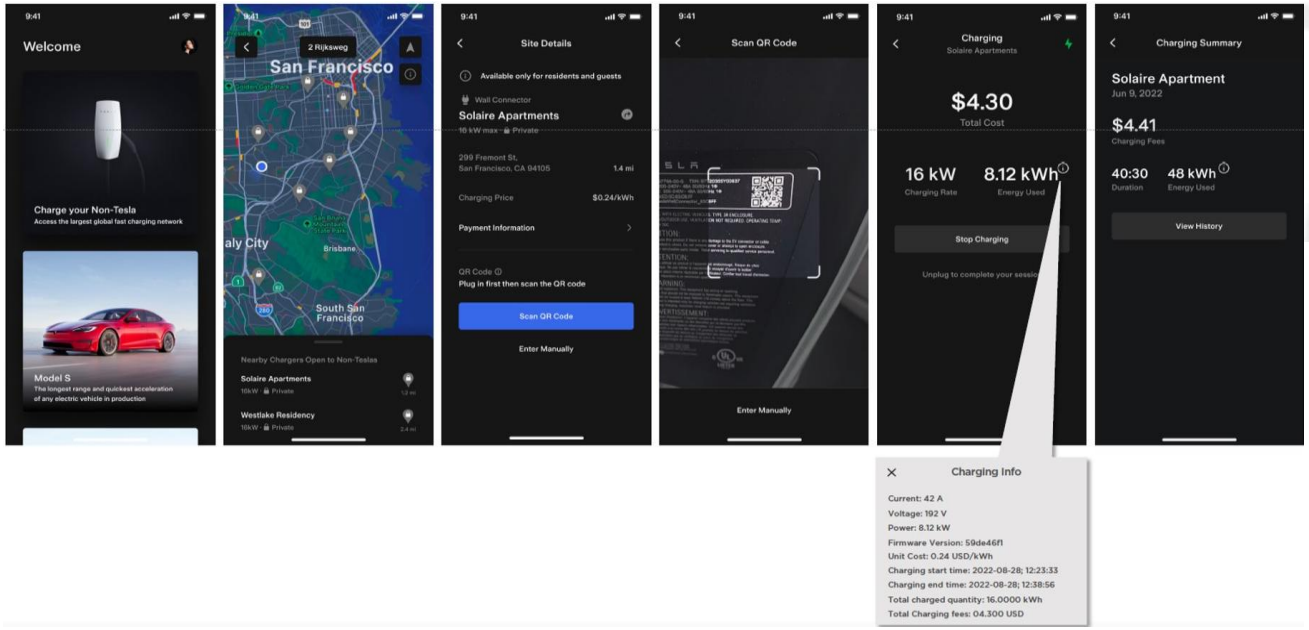


# Driver Experience

**Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.**

## 2) During Charging: User Authentication, Charging Control

- Payment method input to Mobile App or web interface
- Start charging functionality on Mobile App (for non-Tesla EV)
- Real-time display in vehicle UI/Mobile App or web interface on metering, energy, session pricing



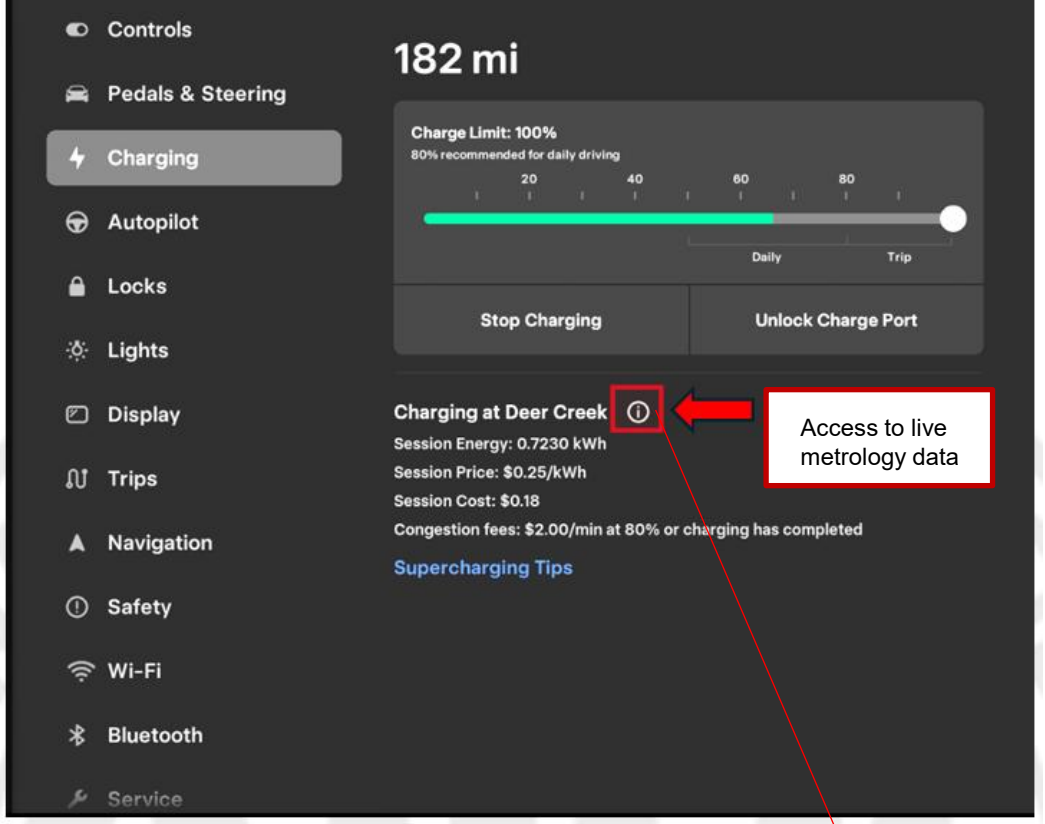
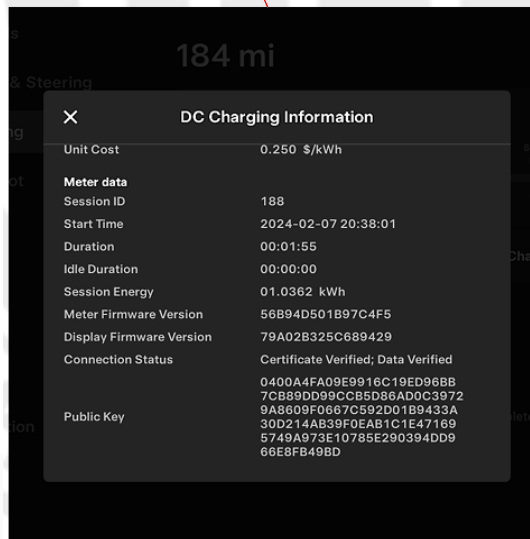




***Figure 5.*** Tesla vehicle user interface display example



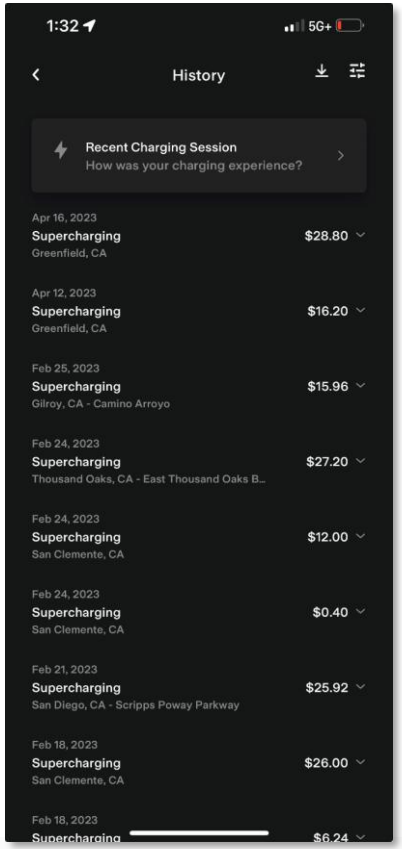

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

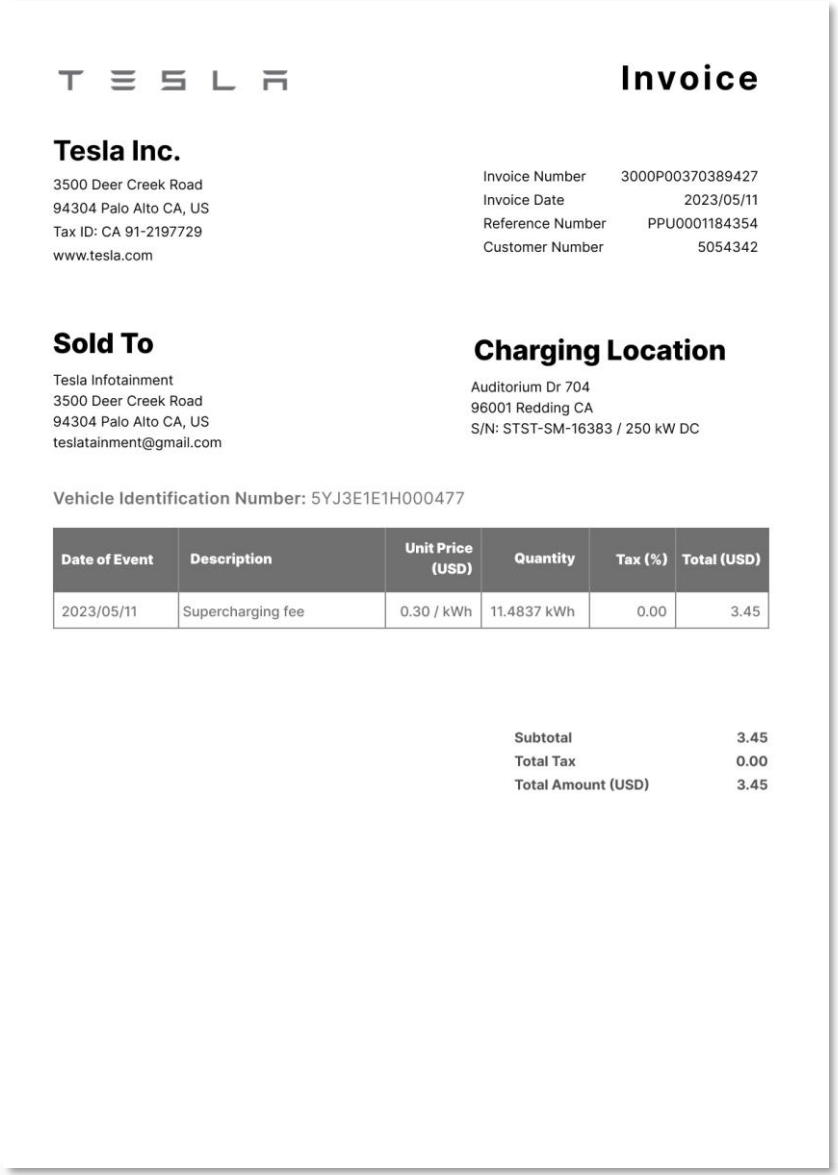
# Driver Experience

**Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.**

### 3) After Charging: Receipt

- Receipt provided in Tesla account
- <1 kWh does not constitute a transaction



TESLA

## Invoice

**Tesla Inc.**
3500 Deer Creek Road
94304 Palo Alto CA, US
Tax ID: CA 91-2197729
www.tesla.com

| | |
|---|---|
| Invoice Number | 3000P00370389427 |
| Invoice Date | 2023/05/11 |
| Reference Number | PPU0001184354 |
| Customer Number | 5054342 |

**Sold To**
Tesla Infotainment
3500 Deer Creek Road
94304 Palo Alto CA, US
teslatainment@gmail.com

**Charging Location**
Auditorium Dr 704
96001 Redding CA
S/N: STST-SM-16383 / 250 kW DC

Vehicle Identification Number: 5YJ3E1E1H000477

| Date of Event | Description | Unit Price (USD) | Quantity | Tax (%) | Total (USD) |
|---|---|---|---|---|---|
| 2023/05/11 | Supercharging fee | 0.30 / kWh | 11.4837 kWh | 0.00 | 3.45 |

| | |
|---|---|
| Subtotal | 3.45 |
| Total Tax | 0.00 |
| Total Amount (USD) | 3.45 |


COPYRIGHT 2025 TESLA, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Driver Experience

EV chargers are not just gas stations that dispense electricity

## Unattended sites



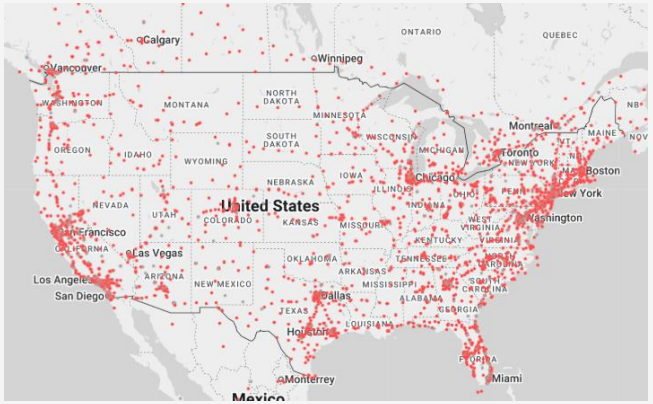
The adjacent business may or may not know anything about the charger on its property.

## Long dwell times



At a workplace, all AC charging spaces may be occupied 9am-5pm Mon-Fri.

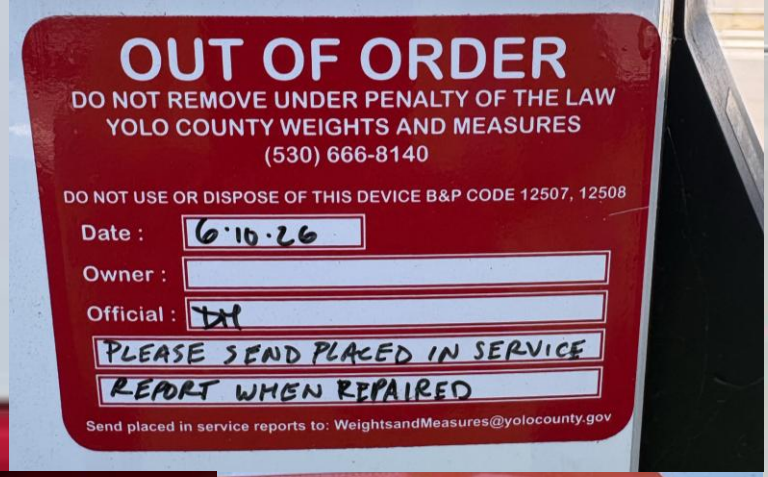
## More devices

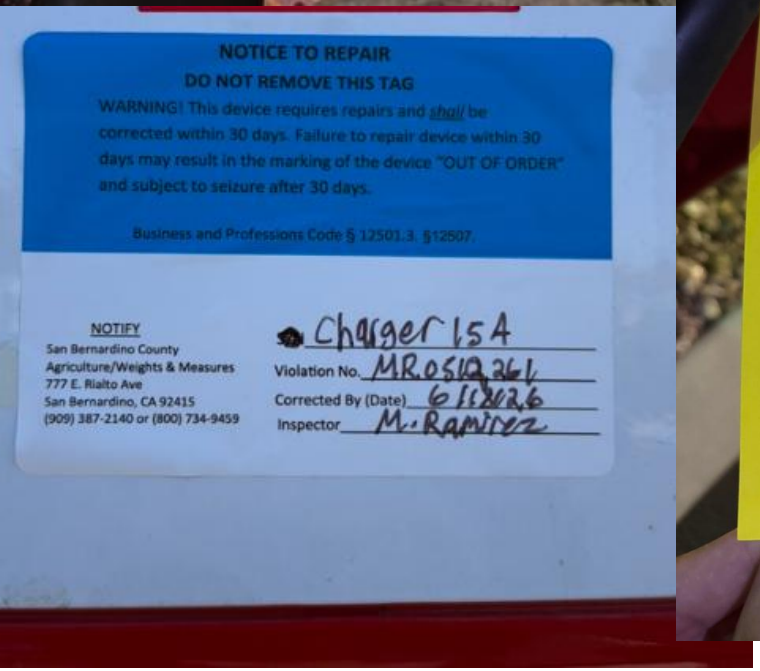


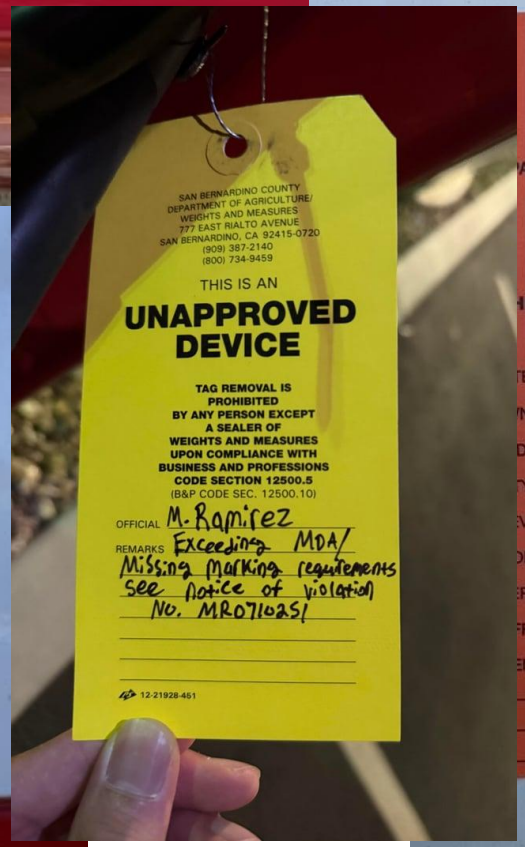

In CA, there are 50% more EV chargers than gas pumps– even though only 10% of vehicles are EVs.

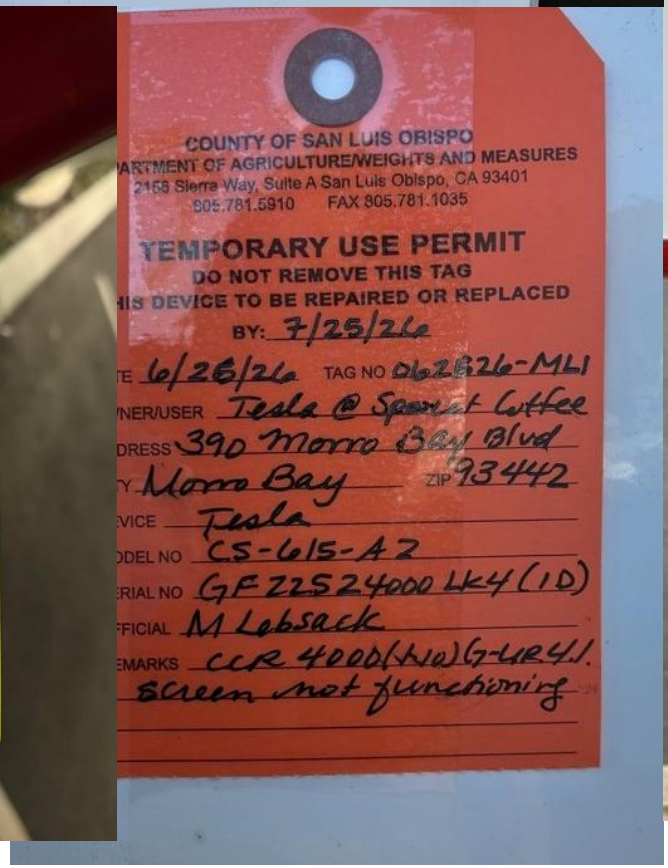

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA



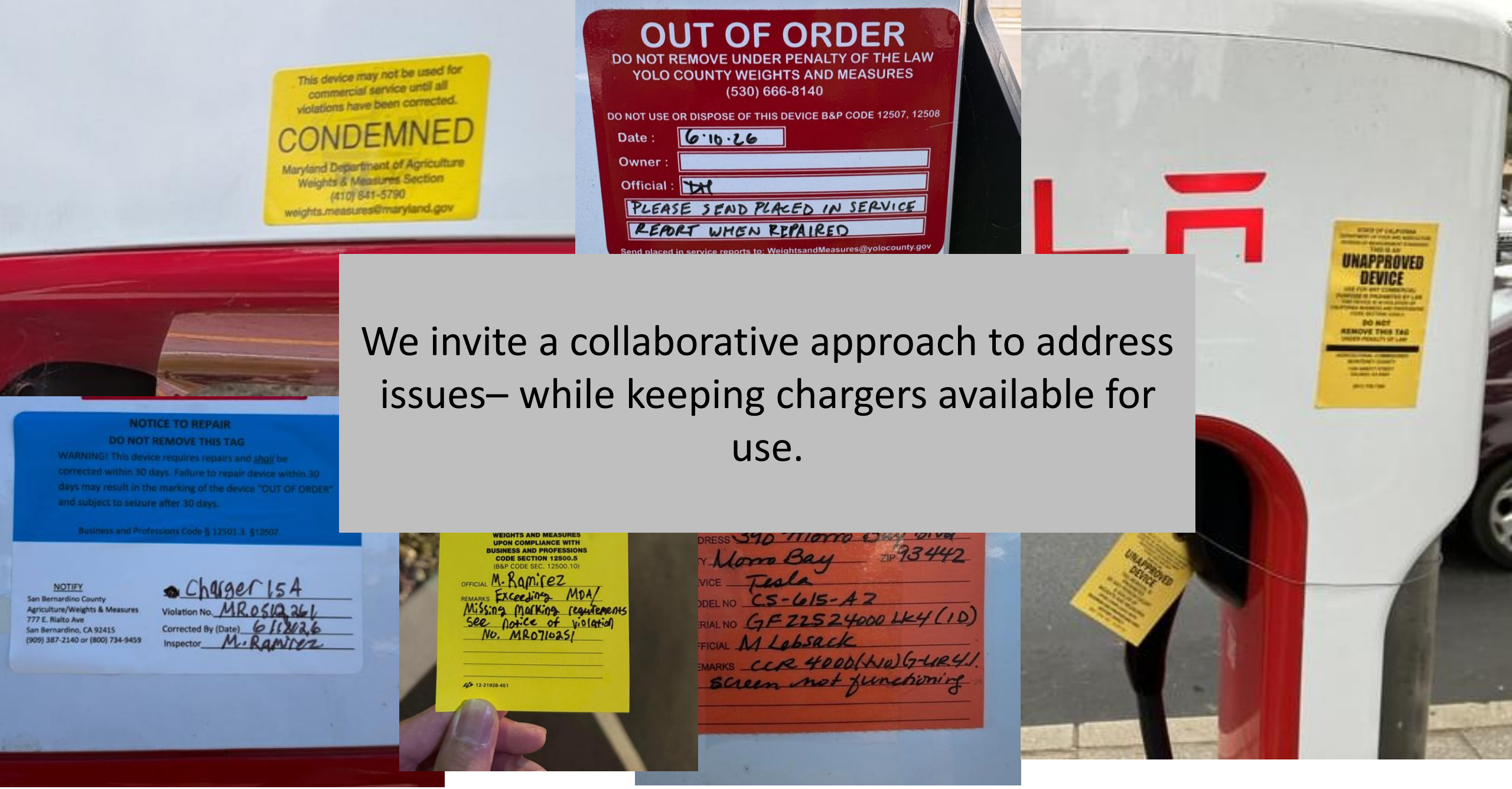








COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA




We invite a collaborative approach to address issues– while keeping chargers available for use.

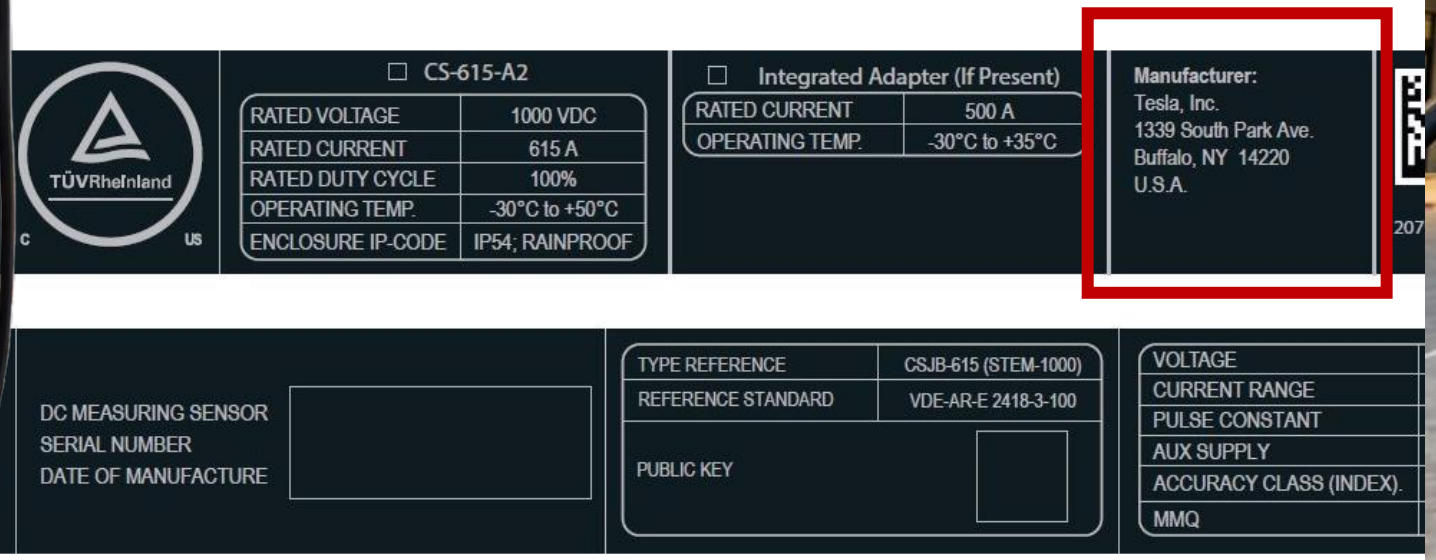

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## Issue: Who owns this device?




- Before ~2024, all Tesla charging equipment was owned and operated by Tesla
- Owner info was the same as the manufacturer info.
- Now, missing responsibility statement is ambiguous.
- Campaign to address this is underway for Tesla-only sites.







Recommendation: Education first. Reach out to confirm ownership. Provide time to correct.

TESLA
COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## Issue: Markings are missing?




AC device identified with ~ and 1ϕ


COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## Issue: NTEP CC is missing?



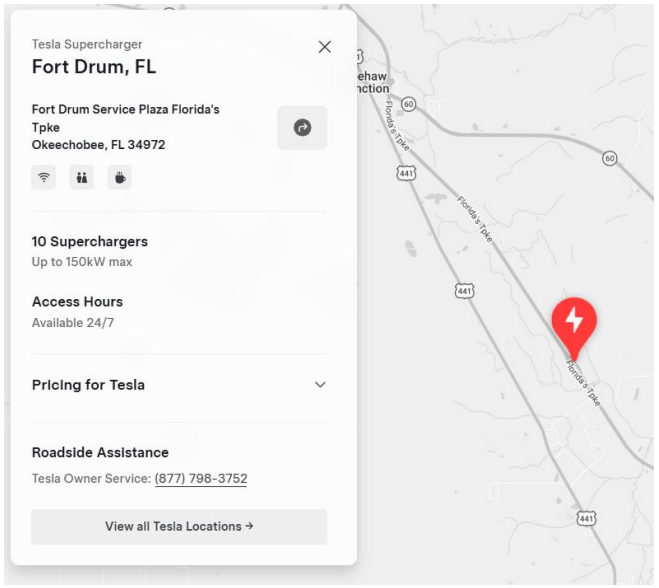

| Supercharger V2 | | Supercharger V3 |
|---|---|---|
| 2016-2019 (pre-Handbook 44 Sec. 3.40) | **Deployment** | 2019-2026 |
| No | **NTEP** | Yes |
| Tesla only | **Access** | Depends |

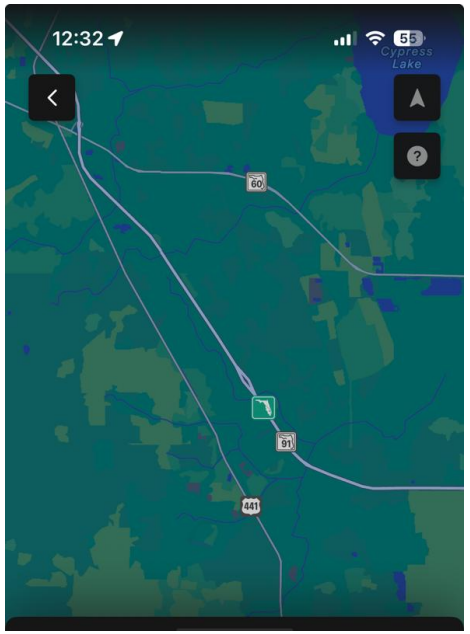

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## Issue: Device is not appearing in Tesla mobile app?

Site exists and is visible to Tesla drivers…



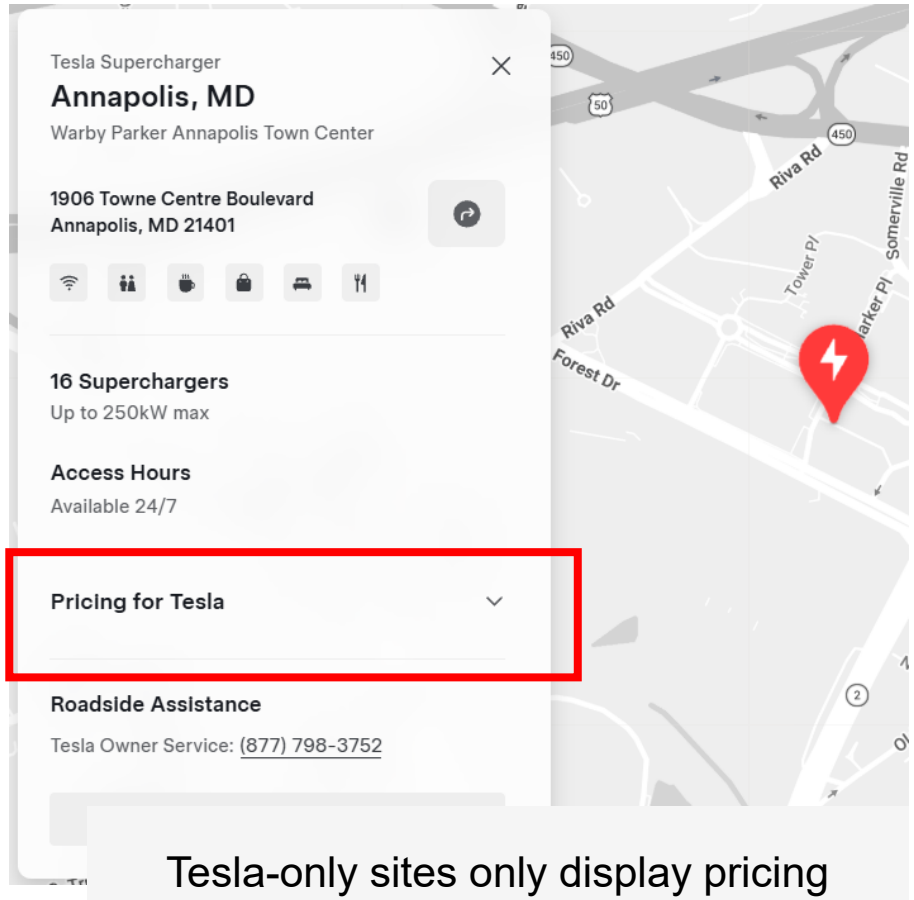

… but is missing in the Tesla mobile app?

Recommendation: check site access before you arrive on-site.

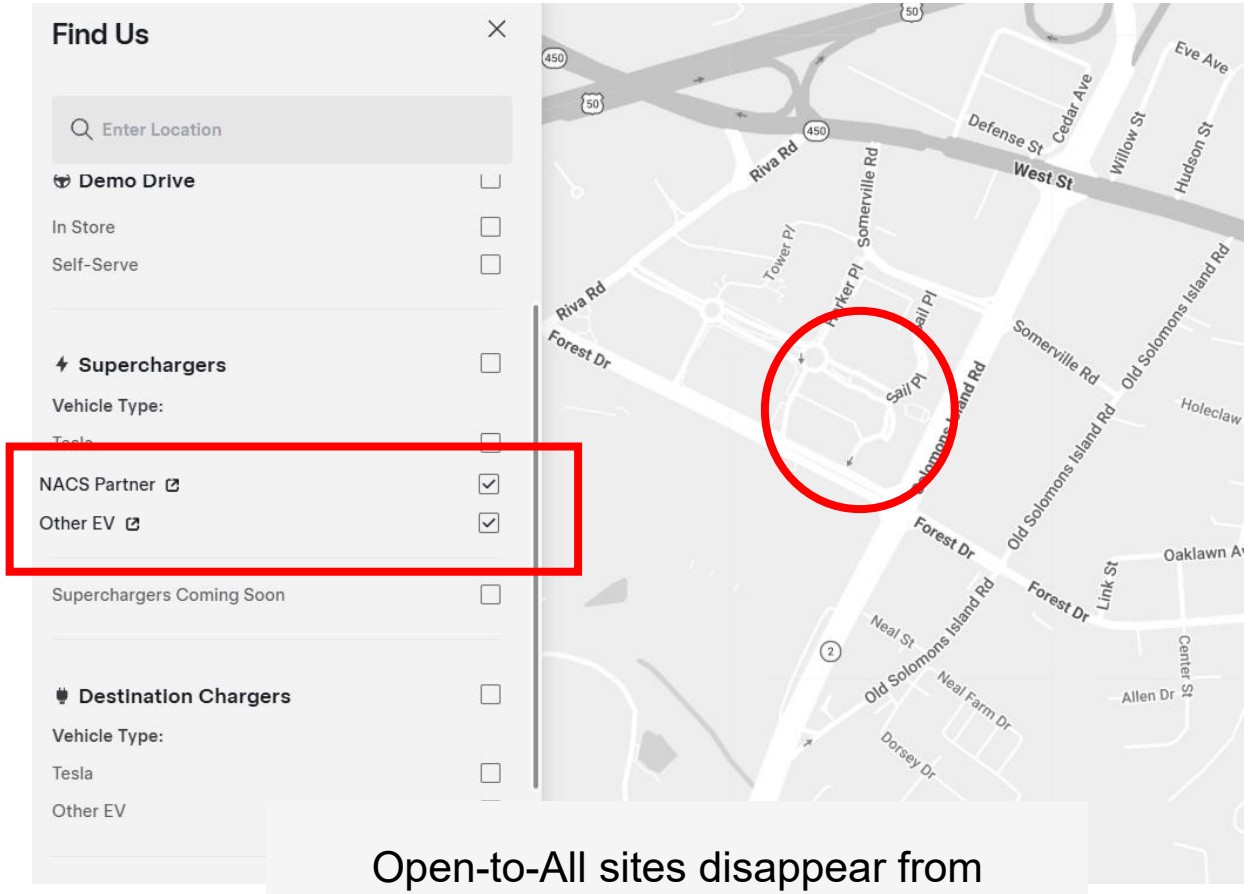

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## To identify Tesla only sites, check tesla.com/findus




Tesla-only sites only display pricing for Tesla



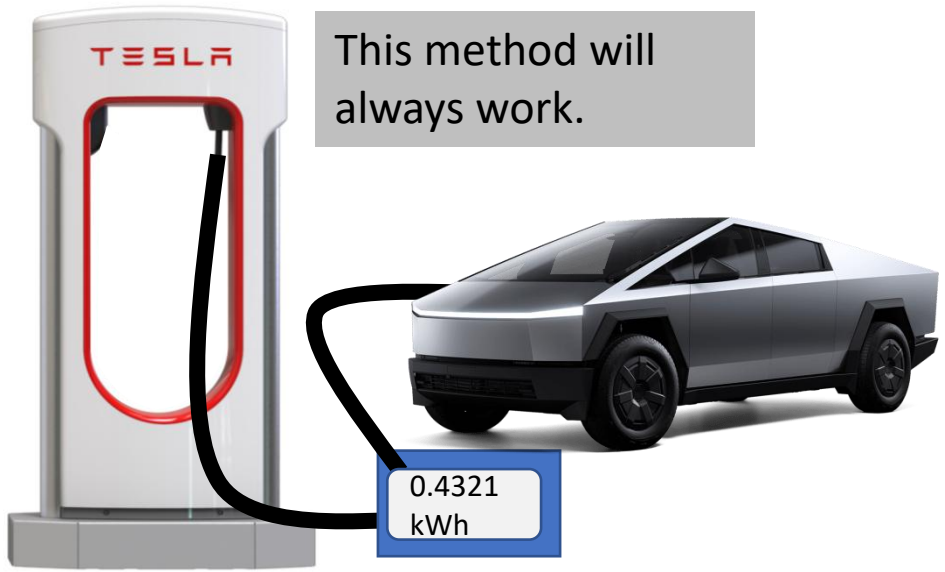

Open-to-All sites disappear from view

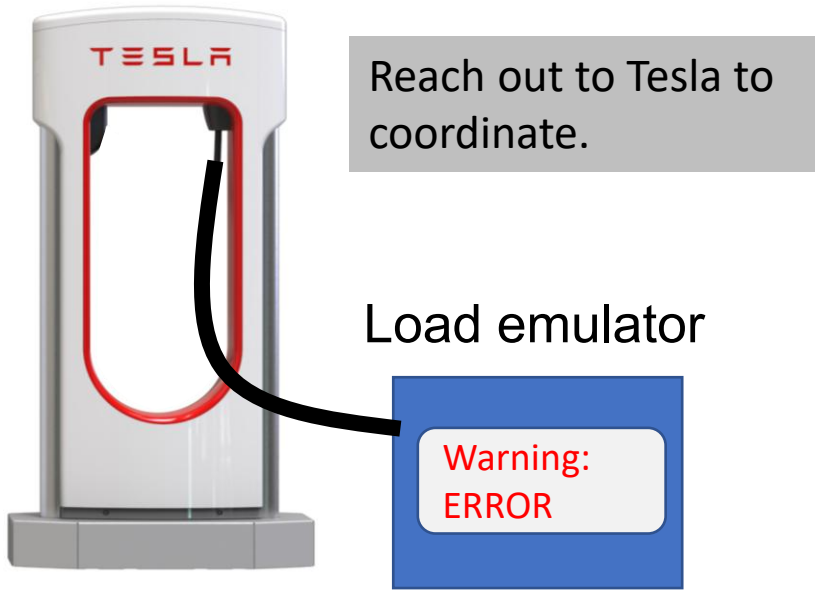

COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

## Issue: How to inspect Tesla-only chargers?

| Supercharger V2 | | Supercharger V3 |
|---|---|---|
| 2016-2019 (pre-Handbook 44 Sec. 3.40) | **Deployment** | 2019-2026 |
| No | **NTEP** | Yes |
| Tesla only | **Access** | Depends |
| Must have vehicle | **Test method** | Vehicle or load emulator |



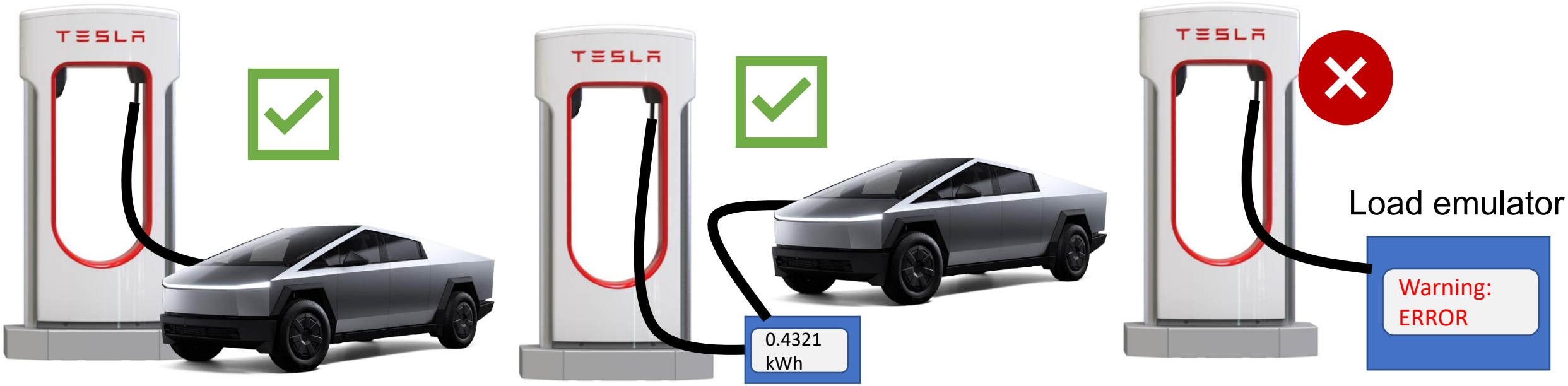





COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

Issue: Tester fails to initiate test?





COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Approach to inspections

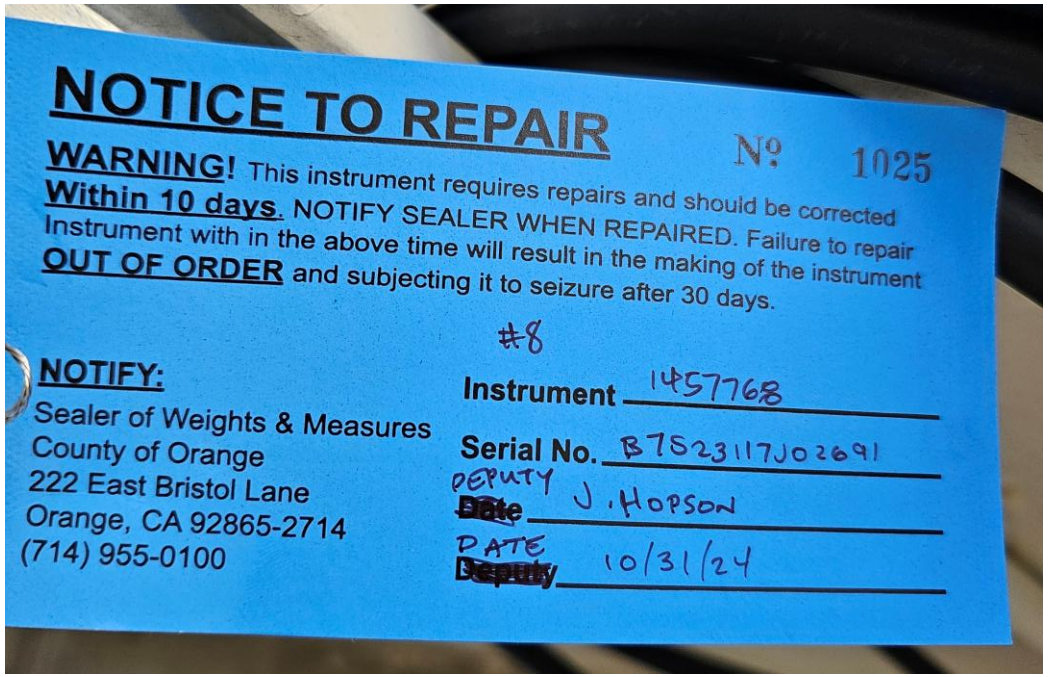
Collaboration between industry + inspector is key to resolve issues– without unduly removing chargers from service.

**Consider**

- Communication-first approach with manufacturer and/or owner-operator.
- Collaborate to resolve the issue.
- Rely on conditional use authorization to keep EV chargers in service for minor issues.

**Benefits**

- Minimizes travel disruptions and confusion to EV drivers.
- Appropriate given how new these programs are.




COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA




Effective weights and measures programs will:

1. Prioritize consumer impact.
2. Educate first.
3. Bring devices into compliance.

COPYRIGHT 2020 TESLA MOTORS, INC.
PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA

# Newest Tesla Supercharger sites in United States




**Lakeville, MN**

**8 stalls**

Aug 11, 2026

View on Tesla.com




**Woodcliff Lake, NJ**

**16 stalls**

Aug 11, 2026

View on Tesla.com




**Meridian, ID**

**8 stalls**

Aug 7, 2026

View on Tesla.com




**Saint Clair, MO**

**8 stalls**

Aug 7, 2026

View on Tesla.com




**Rochelle Park, NJ**

**12 stalls**

Aug 7, 2026

View on Tesla.com

Questions? Email NAM-Charging-Compliance@tesla.com


COPYRIGHT 2020 TESLA MOTORS, INC. PROPRIETARY AND CONFIDENTIAL, DISCLOSED UNDER NDA