

# User Manual:

## SPEEDGEAR X2 Gear Overdrive Mod

(For Qualifying Liftmaster and Chamberlain Belt Drive Garage Door Openers)

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### 1. Introduction

This manual provides step-by-step instructions on installing the **2x Speed-Boost Gear Mod** (also called the Gear Overdrive Mod) for Liftmaster and Chamberlain garage door openers with **DC motors**. This modification increases the speed at which the garage door opens and closes.

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### 2. Compatibility

*(This list is based off the parts lists on the Liftmaster and Chamberlain websites. They are subject to mistakes. Always check which gear you have on your opener before purchasing. If you are unsure which gear you have, it is best to count the amount of teeth on your gear.)*

#### Large Version (L) – 16 Tooth Gear (Part# 041C1751)

##### Compatible Models:

- CH B970, B970C
  - CH B6765
  - CH B750, B750C
  - CH B980, B980C
  - CH HD950WF, HD950WFC
  - CH LW9000WF, LW9000WFC, WD1000WF, WD1000WFC
  - CH HD750WF, HD750WFC, LW6000WF, LW6000WFC
  - CH HD930EV, HD930EVP
  - CH B4545T, B1381, WD850KEV
  - CH B6713T, B6753T, B4603T, B6765T, B4613T, B4643T, B373
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#### Xtra-Large Version (XL) – 19 Tooth Gear (Part# 041C0589-2)

##### Compatible Models:

- LM 87504, 87504-267
- LM 84505R, LM 84501

- LM 85503, 85503-267, 8550, 8550W, 8550WL, 8550WLB
  - LM WLED, WLED-267
  - CH WD962KEV, WD962MLEV, 349544
  - CH WD962KPEV, LC1500EV
  - CH HD920EV, HD920EVC
  - CH LW5000EV, LW5000EVC
  - CH B730, B730C, B740
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### Special Case: 22-Tooth Gear Openers

If your Liftmaster or Chamberlain opener has a **22-tooth gear (Part# 041C0076)**, you must first replace it with a **19-tooth gear (Part# 041C0589-2)**.

#### Affected Models:

- LM 3500, 3500D
  - LM 3850, 3850-267
  - LM 2500, 2500B, 2500D
  - CH WD952KD, WD952KLD
  - CH WD962KD, WD962KLD
  - CH 248754
  - CH HD800, HD800D
  - CH HD900, HD900D
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## 3. How to Know If Your Garage Door is a Good Candidate

Before installing the **Speed-Boost Gear Mod**, check if your garage door meets these conditions:

- **Weight Limit:** If your garage door weighs more than **30 lbs**, **do not install this mod**.
  - **Balance Check:** Disconnect your opener and check how the door behaves:
    - If it **slams down**, it's poorly balanced.
    - If it **flings open**, it's poorly balanced.
    - If the door **can't stay halfway open**, or doesn't stay **fully open or fully closed**, the balance is off.
    - **Solution:** Call a garage door technician to adjust your **springs** before installing this mod.
  - **Safety Consideration:** If you have **young children**, this mod is **not recommended** due to the increased door speed.
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## 4. Installation Instructions

### Tools Needed

- ½-inch open-end wrench
- Needle-nose pliers
- ¼-inch screwdriver
- (Optional) Vise grip

### Step-by-Step Installation

1. **Unplug the unit from the outlet.**
  2. **Remove the sprocket cover.**
  3. **Secure the belt:** Use a **vise grip** to hold the belt **in front of the trolley** to prevent movement.
  4. **Remove the belt tensioner.**
  5. **Attach the Speed-Boost Gear Mod.**
  6. **Lubricate the new gear mod.**
  7. **Attach the chain extension.**
  8. **Remove the vise grip.**
  9. **Re-tighten the belt tensioner.** *(Do not overtighten. If the belt sags during operation, tighten gradually just until sag disappears, and no further.)*
  10. **Plug the opener back into the outlet.**
  11. **Reprogram the garage door opener's travel and force settings.**
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## 5. Benefits of Installing the Speed-Boost Gear Mod

- **Faster opening & closing:** Reduces wait time.
  - **Improved climate control:** Keeps more heat inside the garage during winter.
  - **Enhanced security:** Closes faster, reducing the time your garage is open to intruders.
  - **Less risk of backing into the door:** Since the door moves out of the way quicker, you reduce the chance of hitting it when backing out.
  - **It's just cool:** Faster garage door operation makes your setup feel high-performance.
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## 6. Unboxing: What's Included

When you receive your **2x Speed-Boost Gear Mod** kit, it should contain:

- **Gear mod**
- **Gear clip**
- **Chain extension**
- **2 chain links**
- **Lubricant packet**

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## 7. Safety & Maintenance

- **Test safety sensors frequently:** The faster movement increases the risk of objects getting caught, so test your **safety sensors** regularly.
  - **Inspect for broken springs regularly:** It is recommended to have your springs replaced before you reach 10,000 cycles or every 3-5 years in order to prevent damage to door or opener.
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## 8. Disclaimers

- **Improper installation may damage your opener or create a safety hazard.**
  - **Use at your own risk.** The manufacturer is not responsible for damage or injury caused by modification.
  - **Always ensure your garage door is properly balanced before installing.**
  - **This modification will likely void your Liftmaster or Chamberlain warranty.**
  - **This company and product is not affiliated with Liftmaster or Chamberlain. This product is a 3<sup>rd</sup> party modification.**
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Youtube Installation Video Tutorial:

