SHORT CUTS

All business
No bullsh*t

TELESCOPIC GATE PACK MANUAL
WELCOME!

Fed up with all the fluff found in manufacturer’s instructions? The backbone of Short Cuts manuals is short and snappy info to get the best results fast.

Produced in-house by the team at Downee, Short Cut manuals are created using plain English and our own real-world install experiences. We’ve chopped off the fat leaving only the meaty bits you need to get a gate system rocking in record time.

Would you rather watch a video of this? No worries! Short Cut manuals are in the Tech Area page for this motor on our website.

INDEX

| Gate Design       | 1 |
| Gate Lengths      | 2 |
| Gate 1 Fabrication| 3 |
| Gate 1 Hardware   | 4 |
| Gate 2 Fabrication| 7 |
| Gate 1 Installation| 8 |
| Gate 2 Installation| 10 |

TROUBLESHOOTING: Call our Tech Support line 1800 241 733
GATE DESIGN

Telescopic Gates are different from a typical sliding gate. We’ll cover the differences here and how to nail them.

TOOLS

If you don’t already have them, you’ll need these before you start building the leaves: 35mm hole drill. Thick black marker. M8 tap - the Pulley Hardware is bolted to Leaf 1. A decent pair of wire cutters to trim the cable.

BOTTOM CHANNEL

Using a 100x50 bottom channel will make it easy to mount the Pulley Hardware and the cable safely enclosed. Exposed cable is a safety issue. Thread is tapped into the bottom channel so it needs to be min. 3mm thick.

MOTOR

You’ll need a motor with a manufacturer’s rating of x5 the leaf weight. Why? One gate travels twice as fast as the other creating a lot of load, and when adding the pulley system to add more load again the effective gate weight is x5 the leaf weight.

WHEELS

Telescopic gates are designed to be used with Recessed Wheels, but can be adapted for Bottom Mount Wheels.

TRACK

Telescopic uses two lengths of track, one for each gate.

PEDESTRIAN GATE

Telescopic are often fitted in small yards without room for a pedestrian gate. With Telescopic the only entrance to the property these tips will get the most out of the gate system.

- Include the partial-open pedestrian function to the remote.
- Add a keypad for visitors
- A backup battery is a good bit of insurance - being stuck outside of your own house isn’t nice.

INLINE ROLLER CHANNEL

Installers will supply their own steel U-channel Top Guide Channel. Set the mounting points and drill the channel before powder coating.

TIP: Welding the channel will remove your chance to adjust for change in the driveway height.
Because Telescopic has two leaves they need a bit more attention to get right. Add A & B and divide by 2 then add C. Remember Leaf 1 needs an extra 300mm for the tail.

**EXAMPLE: WORK OUT THE LEAF LENGTHS**

- **A** 3.5m (driveway entrance)
- **B** 0.06m (you choose this distance)
- **C** 0.3m (from the table right)

\[
L = \frac{(A + B)}{2} + C
\]

\[
L = \frac{(3.5 + 0.06)}{2} + 0.3
\]

Length = 2.08m

**Note:** Check there’s enough tail on gate 1 for motor & rack - Shown above as A max. C D min. (page3)

**QUICK GUIDE TO LEAF LENGTHS**

<table>
<thead>
<tr>
<th>Opening (A)</th>
<th>Leaf Length* (m)</th>
<th>KIT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1.84</td>
<td>TGK-004</td>
</tr>
<tr>
<td>4</td>
<td>2.34</td>
<td>TGK-004</td>
</tr>
<tr>
<td>5</td>
<td>2.84</td>
<td>TGK-008</td>
</tr>
<tr>
<td>6</td>
<td>3.34</td>
<td>TGK-008</td>
</tr>
<tr>
<td>7</td>
<td>3.84</td>
<td>TGK-008</td>
</tr>
<tr>
<td>8</td>
<td>4.34</td>
<td>TGK-008</td>
</tr>
<tr>
<td>9</td>
<td>5.14</td>
<td>TGK-011</td>
</tr>
<tr>
<td>10</td>
<td>5.64</td>
<td>TGK-011</td>
</tr>
<tr>
<td>11</td>
<td>6.14</td>
<td>TGK-011</td>
</tr>
<tr>
<td>12</td>
<td>6.64</td>
<td>TGK-015</td>
</tr>
<tr>
<td>13</td>
<td>7.14</td>
<td>TGK-015</td>
</tr>
<tr>
<td>14</td>
<td>7.64</td>
<td>TGK-015</td>
</tr>
<tr>
<td>15</td>
<td>8.14</td>
<td>TGK-015</td>
</tr>
</tbody>
</table>

*With B = 80mm
LEAF 1 FABRICATION

**TIP** Install Telescopic hardware on gates before leaving the factory.

**PULLEY MOUNT TEMPLATE**

Full size template on pages 11 & 12

**INLINE GUIDE ROLLER POSITION**

**PULLEY HARDWARE**

**PULLEY COVER**

Lengths:
- 100mm high
- 30mm deep
- 1000mm long
LEAF 1 HARDWARE

1. Insert the pulley hardware into both ends of the gate. Nip up the bolts finger-tight.

```
LEAF 1 HARDWARE
```

```
NOTE Cable anchor goes to the bottom
```

2. Pull the cable taut and tighten cable clamps (nuts facing down).

```
Tighten the Cable Anchor with the allen key.
```

```
Space the cable clamps as shown (right).
```

```
4m/8m Kit
```

```
11m/15m Kit
```

```
5mm 6mm
```

```
13mm
```

```
11mm
```

```

cable anchor goes to the bottom
```

```
Cable Clamp
```

```
Cable Loop
```

```
Cable Anchor
```

```
```

3. Loosen the cable tensioner bolts (red) on both ends to loosen cable.

4. **CABLE CLAMP POSITION**
   Slide the Cable Clamp and Anchor to the ends.

   Hold the top Cable Clamp against the pulley, tension the cable. Mark cable as shown.

5. Slide Cable Clamp towards centre of gate. With the mark on the cable sitting beside the pulley clamp, twist the Brake (blue) to crimp the cable.

   [Diagram of cable clamp positioning]
6. Remove freeplay from the cable with 10mm tensioner bolts on both ends. It's okay for it to have some tension.

Check both pulley clamps sit against the pulleys.

Tighten the 13mm pulley bolts then 17mm wheel bolts both ends.

7. **TRIM EXCESS CABLE**

Tape the cable where it'll be trimmed. Snip the excess cable.

Test the cable Anchor & Clamp slide in and out of the Pulley

8. Mount inline rollers and attach the Pulley Cover

11m & 15m kits use two inline rollers
LEAF 2 FABRICATION

Leaf 2 is simple, all it needs is the two recessed wheels and to mount the Quick Coupler.

4m & 8m PACK
MAX. LEAF WEIGHT - 300kg

11m & 15m PACK
MAX. LEAF WEIGHT - 400kg

NOTE
On gates over 8m the Quick Coupler is mounted 100mm in from the gate edge.

QUICK COUPLER POSITION

Match the Quick Coupler (yellow) height to the Cable Clamp (blue).

Got a 100x50 bottom channel? The Quick Coupler may need a fabricated mount.

**IMPORTANT** Keep a 50mm gap between leaves.

10. Slide Leaf 1 into the Top Guide on the short track.

**TIP** Block the wheels to stop the leaf sliding off.
With Leaf 1 in the open position, bolt the bottom Pulley Clamp between the tracks to the concrete pad using Blue Tip bolts (6.5mm). Note the different mount points for each kit (below).

Telescopic Gates are designed to be used with recessed wheels. If bottom mount wheels have been installed, you'll need to fabricate a platform to mount the Pulley Clamp. 80mm wheels need an anchor 50mm high; 100mm wheels need one 70mm high.

**BOTTOM MOUNT WHEELS**

Telescopic Gates are designed to be used with recessed wheels. If bottom mount wheels have been installed, you'll need to fabricate a platform to mount the Pulley Clamp. 80mm wheels need an anchor 50mm high; 100mm wheels need one 70mm high.

**NOTE** Bottom Mount Wheels on automatic gates are a safety hazard. In Europe they are banned on automatic gates. If a foot was ever caught it would risk potential amputation and legal action against the installer.
12. Slide Leaf 2 into place. Connect and lock the Quick Coupler to Cable Anchor.

13. Mount the Inline Roller channel (not supplied) to Leaf 2. Avoid welding directly to gate.

Slide Leaf 1 while checking clearance between gates.
PULLEY HARDWARE TEMPLATE

(Actual Size)
PULLEY HARDWARE TEMPLATE
(ACTUAL SIZE)