

Pivot vs. Dancer Wheel Encoder: Choosing How Your Turntable Reads Position

Your Revolver needs to know where the turntable is. There are two ways to measure it. Both use the same TR3 encoder; the difference is where it reads the turntable. Pick one before you build, because the Pivot changes how you build the turntable.

	DANCER WHEEL (STANDARD)	PIVOT (OPTIONAL)
Where it reads	A urethane wheel pressed against the turntable's drive edge	A spur gear at the turntable's center
Comes with the Revolver	Yes	No, it's an add-on
Can it slip?	Yes, if the wheel or drive edge is dusty, or the edge has bumps and gaps	No, the gear can't slip
Accuracy	Good, with clean wheels and steady tension	Best
Extra planning	None	Cable route and turntable design (below)
Encoder cable	Built into the Revolver	M12 cable from the center to the Revolver

CHOOSE THE DANCER WHEEL IF...

- You want the simplest setup.
- Your drive edge is smooth, round and easy to keep clean.
- Your turntable is already built.

Setup is covered in *Revolver Turntable Setup*.

CHOOSE THE PIVOT IF...

- You need the most accurate positioning.
- Your drive edge is rough, uneven or hard to keep clean.
- You haven't finished building the turntable yet.

PLANNING FOR A PIVOT

Run the cable first. Run the M12 encoder cable from the center of the turntable to the Revolver **before you finish the turntable**. Fishing it underneath afterward is much harder.

Keep the cable from being run over. Pick one turntable design:

- **Wheels down** (casters attached to the turntable): build elevated rails so the casters roll over the cable instead of on it.
- **Wheels up** (casters attached to the floor): the turntable rides on the casters, and the cable stays clear.

[GRAPHIC: cable route] Side views: wheels-down with elevated rails, and wheels-up, with the M12 cable from the center to the Revolver.

CONNECTING THE PIVOT

Connect the Pivot's M12 cable to the Revolver in one of two places:

1. **At the encoder:** unscrew the Revolver's encoder cable from the dancer wheel encoder, and screw the Pivot cable onto the end of it.
2. **At the signal bulkhead:** unscrew the Revolver's encoder cable at the signal bulkhead (where the Stagehand's signal cable plugs in), and screw the Pivot cable on in its place.

[GRAPHIC: Pivot connection points] Callouts on connection point 1 (encoder) and 2 (signal bulkhead).

Then follow *Revolver Turntable Setup*. Skip the encoder wheel steps, and set the position scale with the Pivot connected.

More about the Pivot: docs.creativeconners.com

Questions: support@creativeconners.com

Urgent, show-stopping problem: 401.289.2942 ext 2