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MotoCrane TITAN LT setup, balance and tuning

BALANCE ORDER

Tilt depth, tilt height, roll, pan.

Hand-tight knobs only.

Pan needs a support that can swing (dampened U-joint underslung).

POWER ON

Wired: COM cable in, radios go receive only.

2.4GHz wireless: both antennas on both ends.

QS8 fully seated. 42 to 53VDC.

Boot top side up. Then preset, ARM, confirm, motors ON at controller.

TUNING

Preset Small/Medium/Large.

Stiffness +10 until buzz, back off 5 to 10.

Buzz when still: lower Stiffness or Control.

Overshoot on stop: lower Strength or add Smoothing.

Weak stabilization: raise Stiffness, add isolation.

DRIFT

Stick centered but moving: calibrate input, deadband or trim.

Moving at zero input: GYRO Calibration.

Quick Boot on can cause drift.

Default off = 30 s IMU cal.

Independent summary by Moving Shot. Not an official MotoCrane document and not affiliated with MotoCrane, LLC. Source: TITAN LT Operation Manual v1.2 at motocrane.com/knowledge-base. Always follow the current MotoCrane manual. MotoCrane Support: support@motocrane.com, +1 (612) 361-2325. Full guide: movingshot.com/knowledge/motocrane