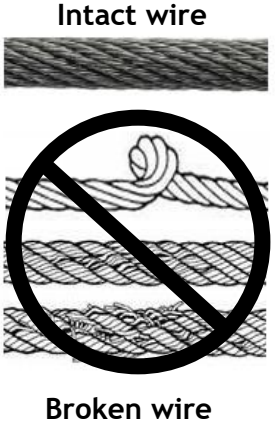
Winch 10 - Cheat Sheet

wahlberg MOTION DESIGN

MODE	Functions	DMX ch.	Function
0	Neutral function – motor stops	1	Position rough (Hi of a 16-bit DMX channel)
1	Positioning with auto TOP reset (16-bit)	2	Position fine (Lo of a 16-bit DMX channel)
2	Positioning with manual TOP reset (16-bit)	3	Set the maximum speed
3	Positioning with auto TOP reset (8-bit)	4	Shift the soft TOP limit
4	Positioning with manual TOP reset (8-bit)	5	Shift the soft BOTTOM limit
5, 6	Stops the motor unless specified otherwise	6	Find hard TOP limit, moving up (reset speed)
7	Manual run up (DMX address = speed)	7	Moving down
8	Manual run down (DMX address = speed)		
9	Used for re-calibrating overload		





Before each use

- Check that the winch is safely and correct installed/mounted.
- Inspect the entire length of the **wire rope** for bends, damage,
- wear, cut cord, corrosion, and abuse.
- Inspect the **wire ferrule crimp** and **thimble** for damage, wear, corrosion or abuse.
- Secure that the load is safely attached and weighs max 10 kg (22 lb).
- Check all limit switches.
- Check the slack detection device

WARNING! Do not use the winch if any damage or error is found!

How to get started

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MOTION DESIGN

1. Place / rig the winch in a truss or similar with a minimum clearance of 2-3 m (3-6 ft) below.
2. Put on counterweight on the winch, minimum 0.45 kg (0.99 lb).
3. Set the DMX start address to 001, and the MODE to 2.
4. Apply DMX from a lighting desk, preferably with manual faders.
   Make sure that the 7 channels are patched from DMX channel 1 to 7. Pull all channels on to 0%
5. Apply power to the winch. ***DMX lamp should be lit, and the mode lamp should be flashing.***
6. Pull channel 6 to 20% - the winch starts pulling the wire.
   When the wire is at the hard TOP limit (pulled into the winch), stop the winch (pull channel 6 to 0%)
   NOW the winch has found its TOP position and is ready to drive with position control.
7. Pull channel 1 (position) to 95%. Pull channel 3 (speed) to 20%
   Now the winch starts to move down, with 20% speed, to the 95% up-position.
8. Pull channel 1 (position) to 80%
   Now the winch starts to move down, with 20% speed, to the 80% up-position.
9. Pull channel 1 (position) to 90%. Pull channel 3 (speed) to 50%
   The Winch starts to move UP again, with 50% speed, and stops 1 meter before the top.

Green LED indicators:

LED next to the DMX-selectors.

Glows constant:	DMX connection is correct.
Flash:	DMX signal is missing.

LED next to the DMX-selectors.

Fast flashing:	The winch needs to be reset, before it can be used.
Slow flashing:	The winch's load is moving towards the set position
Steady light:	The set position has been reached and the motor stopped.

Tech specs (Winch 10):

Lifting speed	Variable 5-30 cm/s (2-11.8 in/s)
Minimum load	0.45 kg (0.99 lb)
Maximum load	10 kg (22 lb)
Expected wire life time	
– 2.5 kg	up to 80.000 cycles (down + up)
– 5.0 kg	up to 20.000 cycles (down + up)
– 10.0 kg	up to 15.000 cycles (down + up)