

Notes:

- 1. Assembly should be performed by knowledgeable and skilled individual. SuperDroid Robots offers assembly services if you are not comfortable reading schematics and performing work.
- 2. Wire gauges depend on load and size of motors.(See Recommendations)
- 3. Fuse size depends on load and size of motors.(See Recommendations)
- 4. Switch should be rated for at least the same amount of current as the fuse.
- 5. To charge batteries unplug them and use charger or run parallel wire with plug for charger.
- 6. Servo pigtail (TE-040-001) typically used. Receiver powered from motor controller (ensure motor controller rated for receiver).

References:

- <http://www.superdroidrobots.com/shop/category.aspx/32mm-gear-motors/76/>
- <http://www.sdrobots.com/tech-thursday-033-power-big-electric-motor/>

Recommendations for MLT-JR 24V:

- 1. Maximum IG32 motor stall current is 5 Amps per motor, therefore 18 AWG for power wire is sufficient.
- 2. Recommended size for the fuse is 10 Amps.
- 3. Shielded wire recommended.
- 4. Use ferrite beads close to the motor to attenuate electric noise.
- 5. Install capacitors across motor solder tabs as needed for electric noise suppression.

Safety Notice:

- 1. Be sure that all positive (red) battery terminals are properly fused and all wires are properly gauged according to safety standards.

