

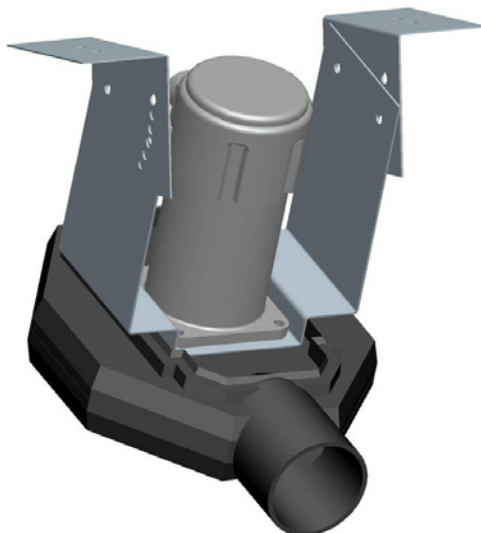
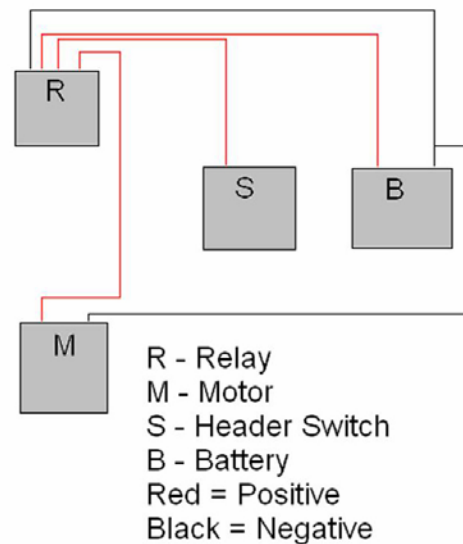
Chosen Design

Electric Drive

- Simple construction and low cost.
- Materials used were appropriate because the return value to the sponsor would not justify an expensive solution.
- Design can be used on multiple makes and models of combines.

Electric Schematic

- The motor is turned on when the header is engaged by means of a relay.
- 10 gauge wire is needed to supply the 22 amp load to and from the motor relay.
- A 30 amp inline fuse is used between the battery and the relay.



Project Cost

1. GE Moisture and Dust Proof 12-volt DC motor \$70.00
2. Fan Blade \$15.00
3. Fan Blade Housing \$30.00
4. ProE Drawings \$45.00
5. Mounting brackets \$30.00
6. Switch \$2.00
7. Solenoid/relay \$5.00
8. Wiring \$3.00
9. 30 amp circuit breaker \$2.00
10. Paint \$8.00
11. Total: \$210.00