

TROUBLE SHOOTING STEP SPEED UNITS

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SYMPTOM: MOTOR IS MISSING ONE OR MORE SPEEDS

STEP 1
PERFORM SPEED COIL CHECK
Remove the red, black, blue and yellow motor leads from their connections

STEP 2
Connect battery negative to the black motor lead and battery positive to the yellow motor lead.
If the motor runs, the low speed coil and motor are good.
If motor does not run, proceed to step 4.

STEP 3
Connect battery negative to the black motor lead and battery positive to the blue motor lead. If the motor runs at speed faster than test on yellow lead, the medium speed coil and motor are good.
If motor does not run, proceed to step 4.

STEP 4
If steps 2 or 3 fail, the speed coil assembly is bad. Replace the commutator cap and check armature.
If all steps above pass then the rotary switch is defective. Replace rotary switch.

SYMPTOM: MOTOR WILL NOT RUN

STEP 1
CHECK FOR CORRECT WIRING AND SUPPLY VOLTAGE, THEN PERFORM MOTOR TEST. Remove the red and black motor leads from their connections.
Connect battery negative to the black motor lead and battery positive to the red motor lead. If the motor does not run repair or replace the motor as necessary.

STEP 2
If the motor runs, trace backwards on wiring, switches, relays and connections to locate problem.

