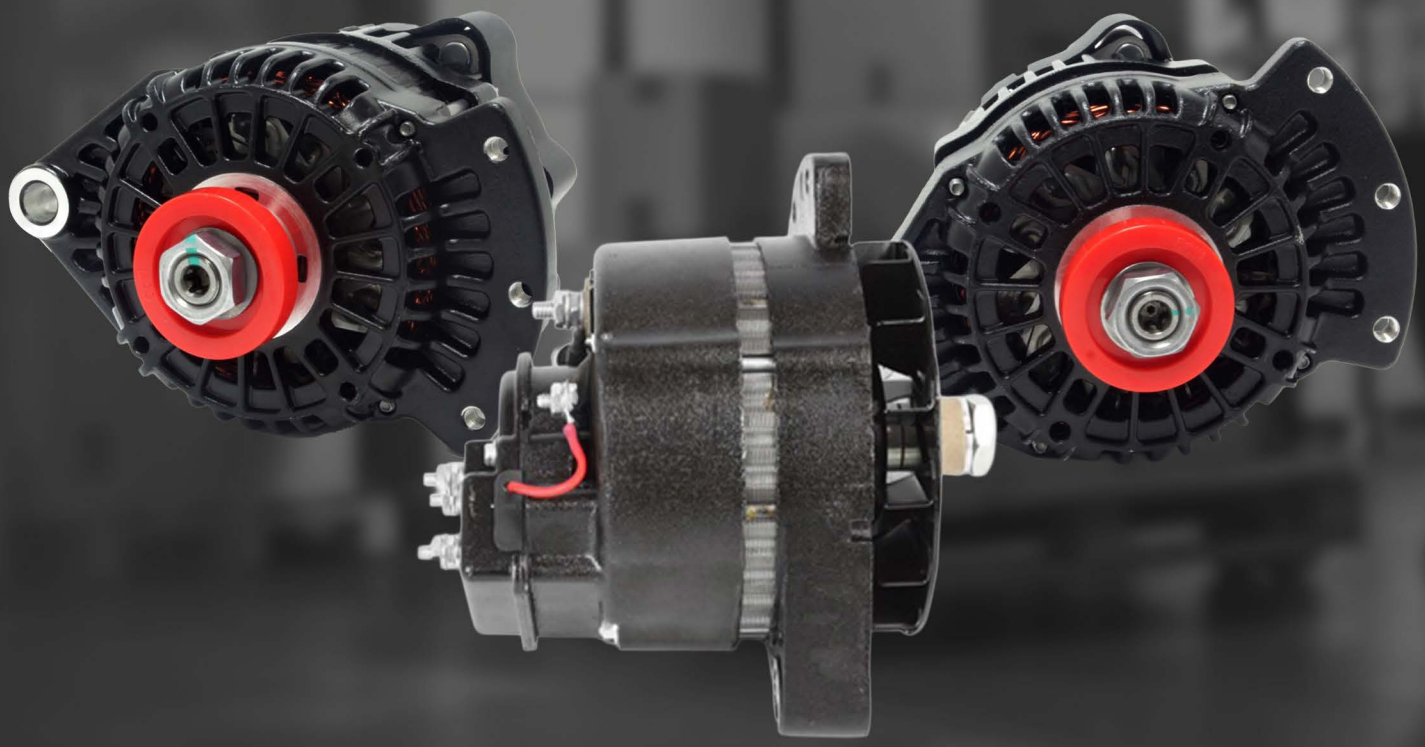
MYRIAD
TRANSPORT REFRIGERATION PARTS

TK® ALTERNATORS

WIRING GUIDE



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TK® ALTERNATORS - WIRING GUIDE

Branded by Myriad Parts

What's in This Guide?

- Quick overview of Thermo King® refrigeration alternators
- Step-by-step wiring for B+, earth, IG, D+, S, P (and F, if fitted)
- Mounting and connection advice to avoid voltage drop and parasitic drain
- Torque settings and final checks

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23 A Light-Duty

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1.0 INTRODUCTION

These Thermo King refrigeration alternators are earth-return (grounded) machines with an internal diode-trio excitation. To avoid battery drain when the engine is stopped, the lamp, ignition (IG) and sense (S) circuits **must** be routed through an ignition switch.

2.0 TERMINAL IDENTIFICATION

Refer to the illustration for exact terminal locations (to be incorporated in your guide design):

TERMINAL	FUNCTION
B+	Battery positive output
B–	Earth return (chassis)
D+	Warning lamp / excitation sense
IG	Ignition-switched 12 V supply
S	Battery sense input
P	Tacho (speed) output
F	Field (if fitted)

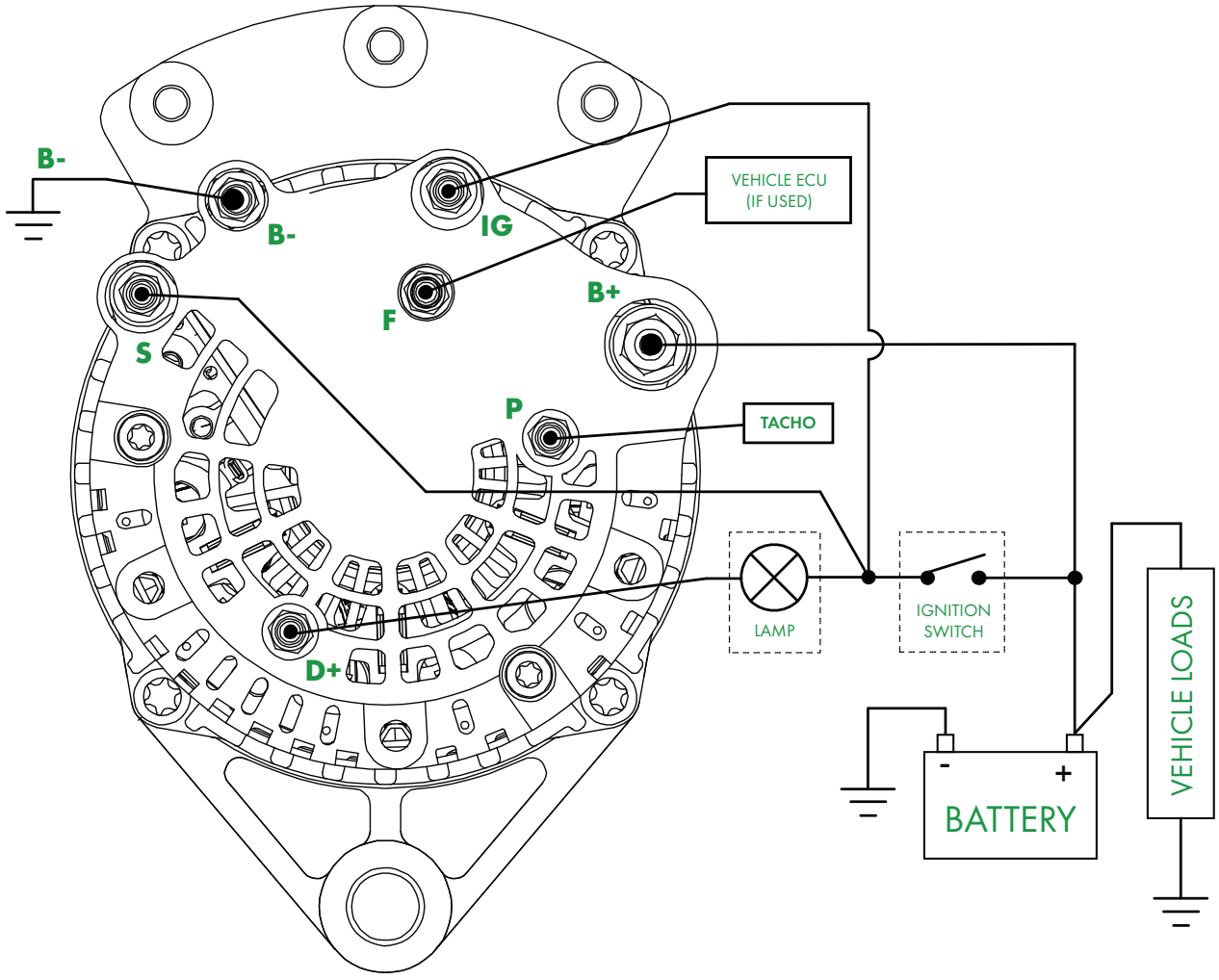

Figure 1.1 Wiring Diagram

3.0 WIRING CONNECTIONS

Earth (B–)
- Connect directly to chassis earth.
- Ensure a clean, low-resistance joint.

Battery Positive (B+)
- Route a suitably thick cable straight to the battery's + terminal or main bus.
- Fit an inline fuse/circuit-breaker close to the battery.

Ignition Supply (IG)
- Feed a fused 12 V line from the ignition switch to IG.
- Enables the regulator only when the engine is on.

Warning Lamp / Excitation (D+)
- Wire between D+ and earth.
- Alternatively, a switched 12 V feed may replace the lamp (only one is required).

Battery Sense (S)
- Run from the battery + terminal back to S.
- Must also pass through ignition switch to avoid parasitic drain.

Tacho Output (P)
- Connect to vehicle tachograph or ECU input as needed.

Field (F)
- Only used if your system explicitly requires external field control.

4.0 LAMP DETAILS

- **Type:** 12 V, max 2 W (incandescent or LED).
- **Mount:** Visible to operator; live to D+, earth to chassis.

5.0 TORQUE SETTINGS

TERMINAL GROUP	TORQUE (NM)
B+	7 – 9 Nm
B– (Earth)	4.5 – 6 Nm
D+, IG, S, P, F	4.5 – 6 Nm

6. FINAL CHECKS

- Confirm B– continuity to chassis.
- With engine at idle, verify ~13.8 V at B+.
- Warning lamp should extinguish shortly after start.
- Protect all wiring from heat, vibration and abrasion.

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