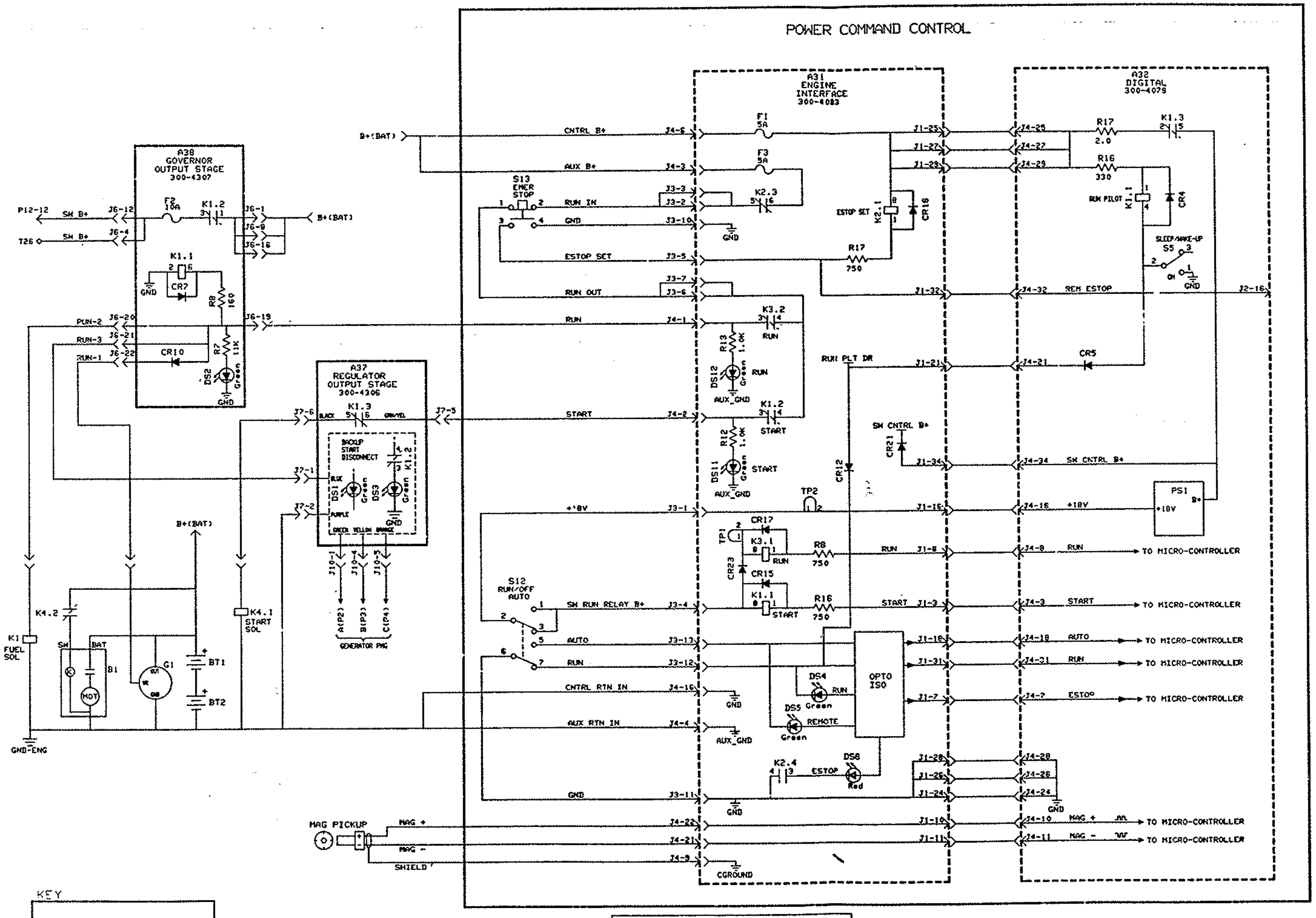
612-6679 D

ER NO.	LTR	NO.	REVISION	[illegible]	DR	[illegible]	APPROVED	DATE
68,197	A	1	PRODUCTION RELEASE	–	TJH	MD	CPH	8-24-94
71,146	B	1	ADDED SHEET 2	–	TJH	MD	CPH	9-15-95



KEY

- N/O CONTACT CLOSED
- MAG PICK-UP SIGNAL
- ▶ DIGITAL SIGNAL
- — COMMON POWER CONNECTION

CLASSIFICATION OF CHARACTERISTICS
CRITICAL
MAJOR
MINOR (NONE)
APPROVED N/A
DATE 8-24-94
LINE BELOW SYMBOL APPLIES TO UPPER LIMIT
LINE ABOVE SYMBOL APPLIES TO LOWER LIMIT
NO LINES WITH SYMBOL APPLIES TO BOTH LIMITS

HP SYS DWG

NOTES:

THE FOLLOWING IS THE SEQUENCE OF EVENTS FOR LOCAL START AND RUN.

1. S12 IS SET TO THE RUN POSITION.
2. RUN PILOT RELAY K1 ON DIGITAL BOARD (A32) IS ENERGIZED.
3. B+ IS NOW APPLIED TO THE POWER SUPPLY SECTION OF ENGINE INTERFACE BOARD (A31) AND THE DIGITAL BOARD (A32).
4. RUN LED DS4 ON ENGINE INTERFACE BOARD (A31) IS ON.
5. THE DIGITAL BOARD INITIATES A START DRIVE.
6. START RELAY K1 ON ENGINE INTERFACE BOARD (A31) IS ENERGIZED.
7. B+ IS NOW APPLIED TO THE STARTER SOLENOID.
8. ENGINE WOULD CRANK.
9. THE DIGITAL BOARD (A32) MONITORS THE MAG PICKUP AND INITIATES A RUN DRIVE.
10. RUN RELAY K3 ON ENGINE INTERFACE BOARD (A31) IS ENERGIZED.
11. B+ IS NOW APPLIED TO THE FUEL SOLENOID, ALTERNATOR G1, REGULATOR OUTPUT STAGE (A37).
12. LEDS DS1 ON REGULATOR OUTPUT STAGE (A37) AND DS2 ON GOVERNOR OUTPUT STAGE (A38) ARE ON.
13. RELAY K1 ON THE GOVERNOR OUTPUT STAGE (A38) IS ENERGIZED.
14. SW B+ IS NOW APPLIED TO TERMINAL 26 AND CUSTOMER CONNECTIONS.
15. ENGINE WOULD RUN.
16. THE DIGITAL BOARD (A32) MONITORS THE MAG PICKUP AND WHEN THE ENGINE REACHES 475 RPM THE START DRIVE IS REMOVED.
17. START RELAY K1 ON ENGINE INTERFACE BOARD (A31) IS DE-ENERGIZED, REMOVING B+ TO THE STARTER SOLENOID. RELAY CONTACT K1.2 IS OPEN, START LED DS11 IS OFF.
18. WHEN PMG OUTPUT REACHES 105VAC(850 RPM), BACK-UP START DISCONNECT RELAY K1 ON REGULATOR OUTPUT STAGE (A37) IS ENEPGIZED, RELAY CONTACT K1.3 IS OPEN, BACK-UP START DISCONNECT LED DS3 IS ON.

	NAME	DATE
DR	T.J.WIELAND	8-24-94
CHECKED	MARK DALSKE	8-24-94
APPROVED	CRAIG HEALY	8-24-94

THIRD ANGLE PROJECTION

FIRST USED ON POWER COMMAND CONTROL

Onan

MINNEAPOLIS, MINNESOTA 55432

TITLE POWER COMMAND SYSTEM
(START CIRCUIT)

DWG NO. 612-6679
SHEET 1 OF 2