VBA and DTS Control Cabinet 6

CAB6-J1 (RJ45) — SIN-8A RS232 TO RS422 — CAB6-P1 DB9(MALE) MCC COM 8

CAB6-J2 (RJ45) — SIN-8A RS232 TO RS422 — CAB6-P2 DB9(MALE) MCC COM 9

VBAH Resolver Controller Address = e

RJ45 VBAHRS-P8 — J8 SERIAL IN (RS485)

RJ45 VBAHRS-P7 — J7 SERIAL OUT (RS485)

J1 DB15(MALE) VBAHRS-P1

J2 VBAHRS-P2: +12V, -12V, GND, GND, +5V, -5V

P4 J4 — J5 P5

PT02SE-16-26S MS3122E16-26S CAB6-J3 — PT06SE-16-26P(SR) MS3126F16-26P CAB6-P3 — PT06SE-16-26S(SR) MS3126F16-26S VBAH-P5 — PT02SE-16-26P MS3122E16-26P VBAH-J5 — PT08SE-16-26S(SR) RIGHT ANGLE VBAH-P1 — PT02SE-16-26P MS3122E16-26P VBAH-J1

24 AWG Kapton Ins. T.P.

RM12BRD-7S VBAH-J4 — RM12BPE-7PH VBAH-P4 — 14"

VBA Subsytem (Horizontal Components)

CMAX-810 Indexer Address = a VBA HORIZONTAL

RJ45 VBAHID-P1 — J1 SERIAL IN (RS485)

RJ45 VBAHID-P2 — J2 SERIAL OUT (RS485)

Phoenix Contact (PSC 1,5) VBAHID-P6 — J6: 1A, 1B, GND, 2A, 2B

DB25(MALE) VBAHID-P4 — J4: P2 IN, VCC, P4 OUT, HOME, MVG_OD, LIMA, P5 OUT, LIMB, P3 IN, JOG1, P1 IN, JOG2, JOGHS, P6 OUT, GND, SS, GO, P4 IN, V_OUT, VIX, P2 OUT, GND, DIU, GND, P3 OUT

COMP, TYP., VCC/2

J7: CH A+, CH A-, CH B+, CH B-, INDEX+, INDEX-, VCC, GND — RJ45 VBAHID-P7

TB1

AC HOT, AC GND, AC NEUTRAL — POWER ENTRY MODULE

DIGIKEY P/N: 277-1279-ND
Phoenix Contact P/N: MPT 0,5/8-2,54

20 AWG Kapton Ins — 14"

RM12BRD-5S VBAH-J2 — RM12BPE-5PH VBAH-P2

RM12BRD-6S VBAH-J3 — RM12BPE-6PH VBAH-P3

24 AWG Kapton Ins

Empire Magnetics RH-U32-S: red, yellow, blue, black, green, brown, orange, white — VBAH MOTOR (series wired)

LEAD SCREW — HORIZ CLOSE LIMIT SWITCH — HOME SWITCH — HORIZ OPEN LIMIT SWITCH

HD SYSTEMS GEARHEAD CSD SERIES 100:1

Empire Magnetics RH-EMR57 VBAH Resolver: COS, REF, SIN

ORANGE/WHITE, BLUE, YELLOW, RED, BLACK

VBA Subsytem (Vertical Components)

CMAX-810 Indexer Address = b VBA VERTICAL

RJ45 VBAVID-P1 — J1 SERIAL IN (RS485)

RJ45 VBAVID-P2 — J2 SERIAL OUT (RS485)

Phoenix Contact (PSC 1,5) VBAVID-P6 — J6: 1A, 1B, GND, 2A, 2B

DB25(MALE) VBAVID-P4 — J4: P2 IN, VCC, P4 OUT, HOME, MVG_OD, LIMA, P5 OUT, LIMB, P3 IN, JOG1, P1 IN, JOG2, JOGHS, P6 OUT, GND, SS, GO, P4 IN, V_OUT, VIX, P2 OUT, GND, DIU, GND, P3 OUT

COMP, TYP., VCC/2

J7: CH A+, CH A-, CH B+, CH B-, INDEX+, INDEX-, VCC, GND — RJ45 VBAVID-P7

TB1

AC HOT, AC GND, AC NEUTRAL — POWER ENTRY MODULE

DIGIKEY P/N: 277-1279-ND
Phoenix Contact P/N: MPT 0,5/8-2,54

PT02SE-16-26S MS3122E16-26S CAB6-J4 — PT06SE-16-26P(SR) MS3126F16-26P CAB6-P4 — PT06SE-16-26S(SR) MS3126F16-26S VBAV-P5 — PT02SE-16-26P MS3122E16-26P VBAV-J5 — PT08SE-16-26S(SR) RIGHT ANGLE VBAV-P1 — PT02SE-16-26P MS3122E16-26P VBAV-J1

RM12BRD-5S VBAV-J2 — RM12BPE-5PH VBAV-P2

RM12BRD-6S VBAV-J3 — RM12BPE-6PH VBAV-P3

Empire Magnetics RH-U32-S: red, yellow, blue, black, green, brown, orange, white — VBAV MOTOR (series wired)

LEAD SCREW — VERT CLOSE LIMIT SWITCH — HOME SWITCH — VERT OPEN LIMIT SWITCH

HD SYSTEMS GEARHEAD CSD SERIES 100:1

Empire Magnetics RH-EMR57 VBAV Resolver: COS, REF, SIN

ORANGE/WHITE, YELLOW, BLUE, RED, BLACK

VBAV Resolver Controller Address = f

RJ45 VBAVRS-P8 — J8 SERIAL IN (RS485)

RJ45 VBAVRS-P7 — J7 SERIAL OUT (RS485)

J1 DB15(MALE) VBAVRS-P1

J2 VBAVRS-P2: +12V, -12V, GND, GND, +5V, -5V

P4 J4 — J5 P5

RM12BRD-7S VBAV-J4 — RM12BPE-7PH VBAV-P4

40" — 25"

CMAX-810 Indexer Address = c DTS

RJ45 DTSID-P1 — J1 SERIAL IN (RS485)

RJ45 DTSID-P2 — J2 SERIAL OUT (RS485)

Phoenix Contact (PSC 1,5) DTSID-P6 — J6: 1A, 1B, GND, 2A, 2B

DB25(MALE) DTSID-P4 — J4: P2 IN, VCC, P4 OUT, HOME, MVG_OD, LIMA, P5 OUT, LIMB, P3 IN, JOG1, P1 IN, JOG2, JOGHS, P6 OUT, GND, SS, GO, P4 IN, V_OUT, VIX, P2 OUT, GND, DIU, GND, P3 OUT

COMP, TYP., VCC/2

J7: CH A+, CH A-, CH B+, CH B-, INDEX+, INDEX-, VCC, GND — RJ45 DTSID-P7

TB1

AC HOT, AC GND, AC NEUTRAL — POWER ENTRY MODULE

DIGIKEY P/N: 277-1279-ND
Phoenix Contact P/N: MPT 0,5/8-2,54

PT02SE-16-26S MS3122E16-26S CAB6-J5 — PT06SE-16-26P(SR) MS3126F16-26P CAB6-P5 — PT06SE-16-26S(SR) MS3126F16-26S CSK-P6 — PT02SE-16-26P MS3122E16-26P CSK-J6

20AWG 4-COND Kapton Ins

20AWG 4-COND Kapton Ins

24AWG 4-COND Kapton Ins

(8x)20awg Kapton Ins

PT06SE-10-6S(SR) DTS-J1 — PT02SE-10-6P DTS-P1

Empire Magnetics RH-U33-S: red, yellow, blue, black, green, brown, orange, white — DTS MOTOR (parallel wired)

12"

(6x)24awg Kapton Ins

RT ANG GEARHEAD 3:1 REVERSE DIRECTION — BALL SCREW — DOWN-STREAM LIMITA SWITCH — HOME SWITCH — UP-STREAM LIMITB SWITCH

HD SYSTEMS GEARHEAD CSD SERIES 160:1

Empire Magnetics RH-EMR57 DTS Resolver: COS, REF, SIN

ORANGE/WHITE, YELLOW, BLUE, RED, BLACK

RM12BRD-3S DTS-J2 — RM12BPE-3PH DTSP2 — 8"

RM12BRD-3S DTS-J3 — RM12BPE-3PH DTS-P3 — 15"

RM12BRD-3S DTS-J4 — RM12BPE-3PH DTS-P4 — 3"

RM12BRD-7S DTS-J5 — RM12BPE-7PH DTS-P5 — (6x)24awg Kapton Ins — 3"

DTS Resolver Controller Address = g

RJ45 DTSRS-P8 — J8 SERIAL IN (RS485)

RJ45 DTSRS-P7 — J7 SERIAL OUT (RS485)

J1 DB15(MALE) DTSRS-P1

J2 DTSRS-P2: +12V, -12V, GND, GND, +5V, -5V

P4 J4 — J5 P5

24AWG TP Kapton Ins

40" — 18"

+5V, +5V, +5V, +5V, +12V, +12V, GND, GND, GND, GND, GND

CONDOR Power Supply GPFC125B

AC LINE, AC NEUTRAL, AC GROUND

CAB6-J6 — CAB6-P6

POWER ENTRY MODULE — 120VAC IN

AC HOT, AC GND, AC NEUTRAL

(3X) Phoenix Contact P/N: PMK3DS 3/3-5,08
DIGIKEY P/N: 277-1378-ND

Revisions

Rev.	Description	Date	Apprv.

Johns Hopkins University
Instrument Devlopment Group

Name: MACS - VBA and DTS Control Electronics

Material	Drawn	Date	Size	Drawing Number	Rev
N/A	J. Orndorff	2-18-2005	E		-
Finish	Checked	Date	Scale	File	Sheet
N/A			N/A		1 OF 1