Figure 29: Power Circuit Y (With Bypass): Hand-Off-Auto, Speed Potentiometer and Start-Stop (Drawing No. 80461-071-01)

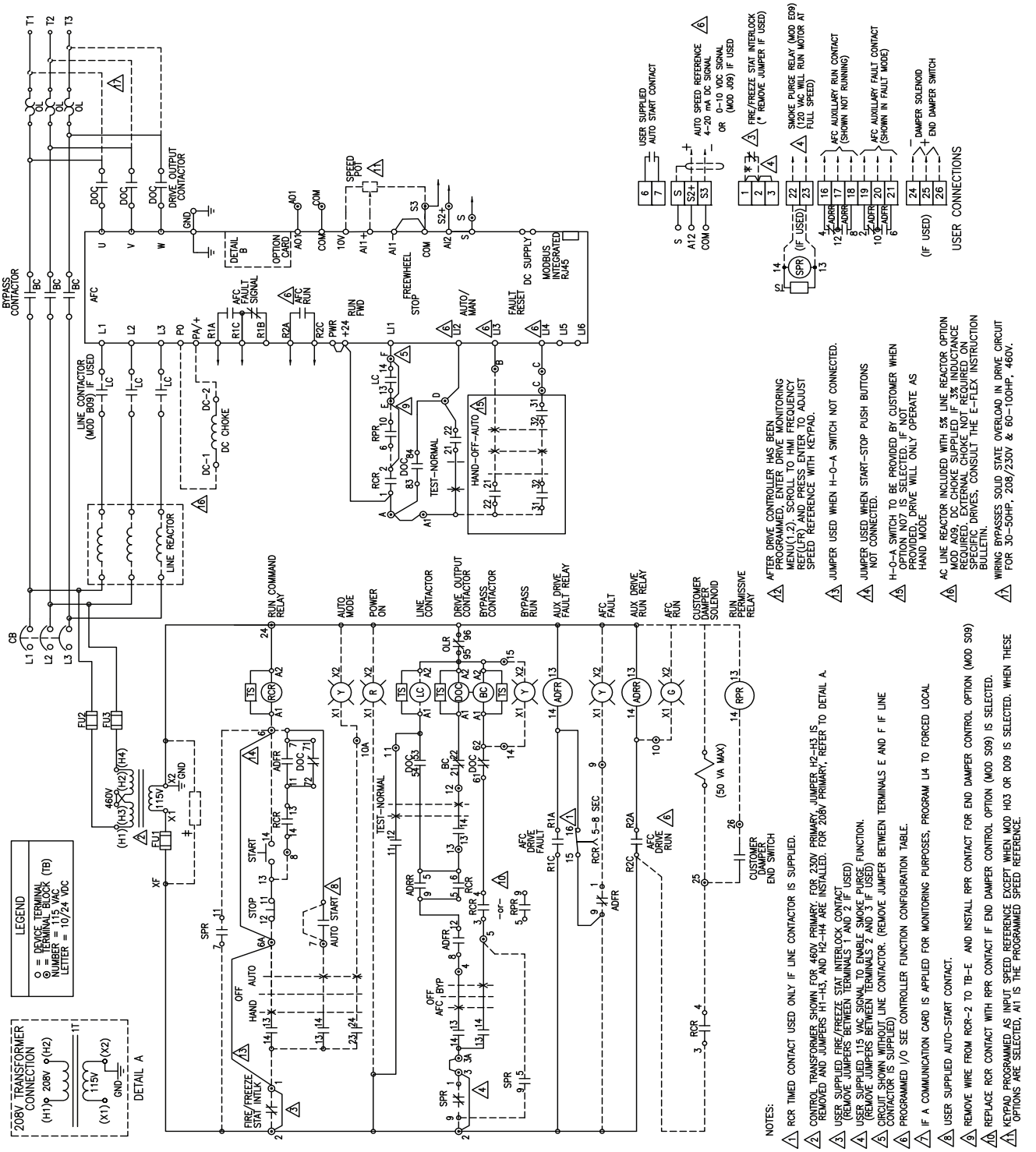

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Figure 29: Power Circuit Y (With Bypass): Hand-Off-Auto, Speed Potentiometer and Start-Stop (Drawing No. 80461-071-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB–MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I–O	1.5	----	2 WIRE TYPE	tCt	LEL
I–O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)(W/O MOD J09)	CrL2	4
I–O	1.5	R2 CONFIG.	R2 ASSIGN – DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE(W/O MOD H03 OR D09 ONLY)	CHCF	SEP
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nST	LI2
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF. 1B CHAN	Fr1b	AI2
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLT	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	OPL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED – EXTENDED I/O CARD					
MENU	No	SUB–MENU	DESCRIPTION	CODE	ADJ.
I–O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr
WHEN MOD J09 SELECTED – 0–10V DC SPEED REF.					
MENU	No	SUB–MENU	DESCRIPTION	CODE	ADJ.
I–O	1.5	AI2 CONFIG.	AI2 TYPE	AI2t	10U

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡ STIRRING FAN	NA	10–100HP 460V, 7.5–50HP 208/230V	NA
‡ VENTILATION FAN	NA	NA	ALL HP
‡ SPACE HEATER	NA	NA	ALL HP

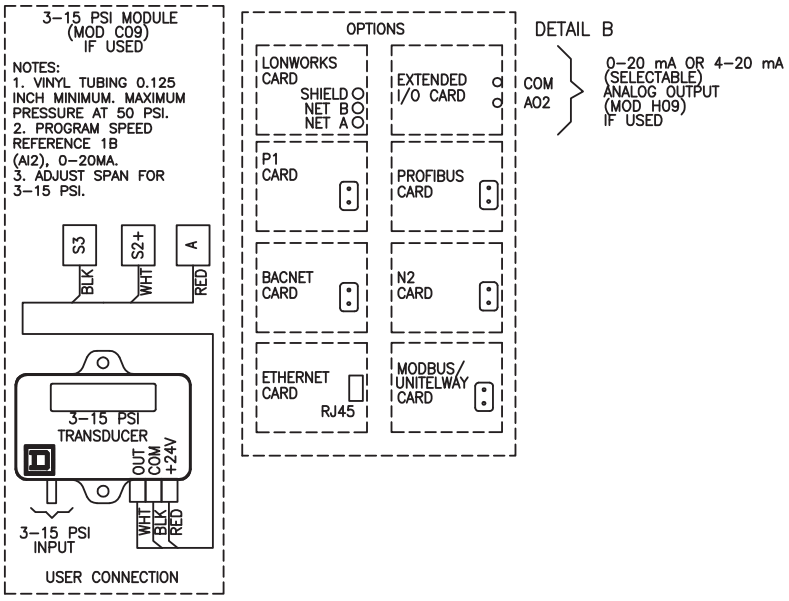

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Figure 30: Power Circuit Y (With Bypass): Hand-Off-Auto and Speed Potentiometer (Drawing No. 80461-072-01)

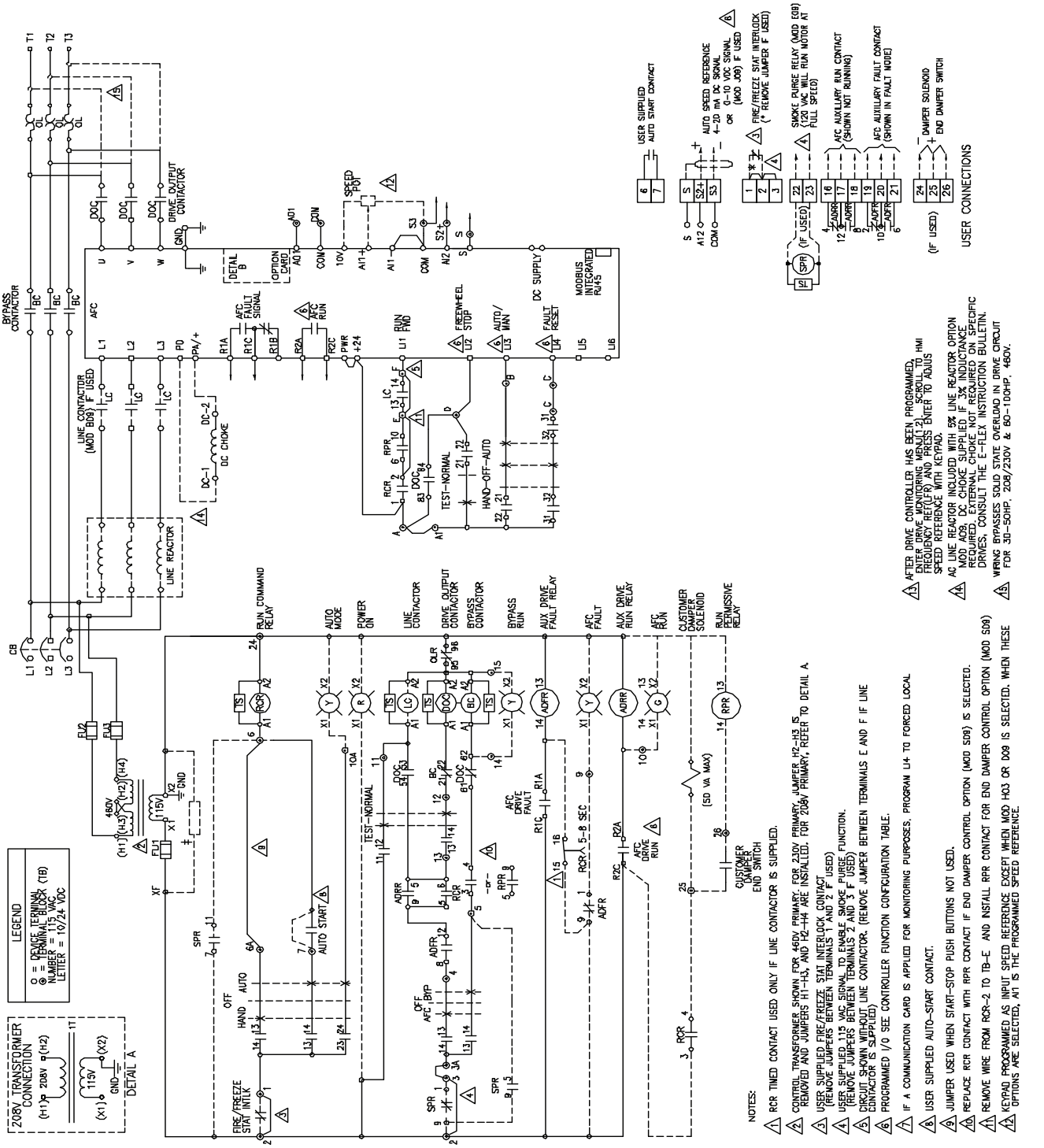

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Figure 30: Power Circuit Y (With Bypass): Hand-Off-Auto and Speed Potentiometer (Drawing No. 80461-072-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)(W/O MOD J09)	CrL2	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE(W/O MOD H03 OR D09 ONLY)	CHCF	SEP
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nST	LI2
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF. 1B CHAN	Fr1b	AI2
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLT	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	OPL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED - EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr
WHEN MOD J09 SELECTED - 0-10V DC SPEED REF.					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AI2 CONFIG.	AI2 TYPE	AI2t	10U

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡STIRRING FANS	NA	10-100HP 460V, 7.5-50HP 208/230V	NA
‡VENTILATION FAN	NA	NA	ALL HP
‡SPACE HEATER	NA	NA	ALL HP

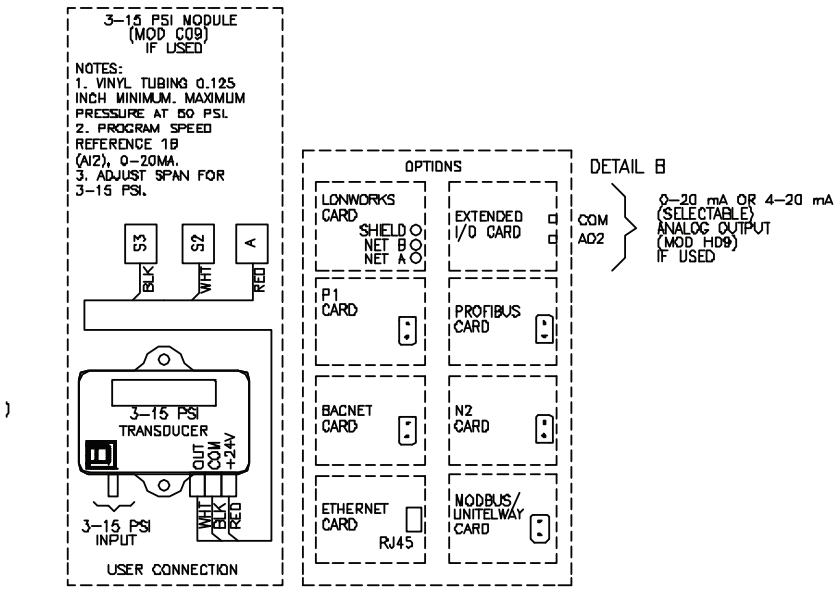

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Figure 31: Power Circuit W (Without Bypass): Hand-Off-Auto, Start-Stop, and Speed Potentiometer (Drawing No. 80461-073-01)

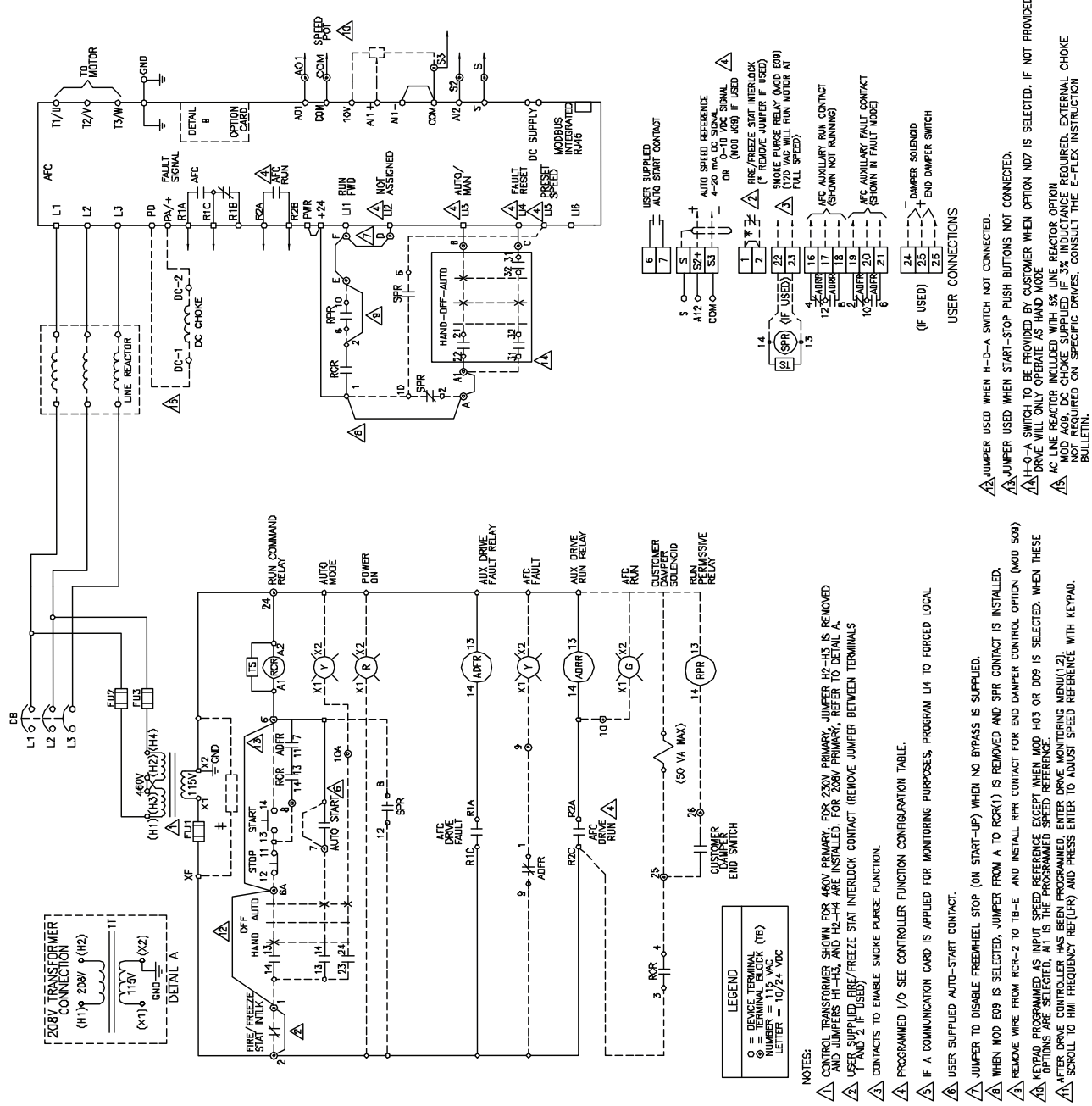

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Figure 31: Power Circuit W (Without Bypass): Hand-Off-Auto, Start-Stop, and Speed Potentiometer (Drawing No. 80461-073-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)(W/O MOD J09)	CrL2	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE(W/O MOD H03 OR D09 ONLY)	CHCF	SEP
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF. 1B CHAN	Fr1b	AI2
FUn	1.7	PRESET SPEEDS	2 PRESET SPEEDS	PS2	LI5
FUn	1.7	PRESET SPEEDS	PRESET SPEED 2	SP2	60
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED - EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr
WHEN MOD J09 SELECTED - 0-10V DC SPEED REF.					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AI2 CONFIG.	AI2 TYPE	AI2t	10U

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
⏚ STIRRING FANS	NA	10-100HP 460V, 7.5-50HP 208/230V	NA
⏚ VENTILATION FAN	NA	NA	ALL HP
⏚ SPACE HEATER	NA	NA	ALL HP

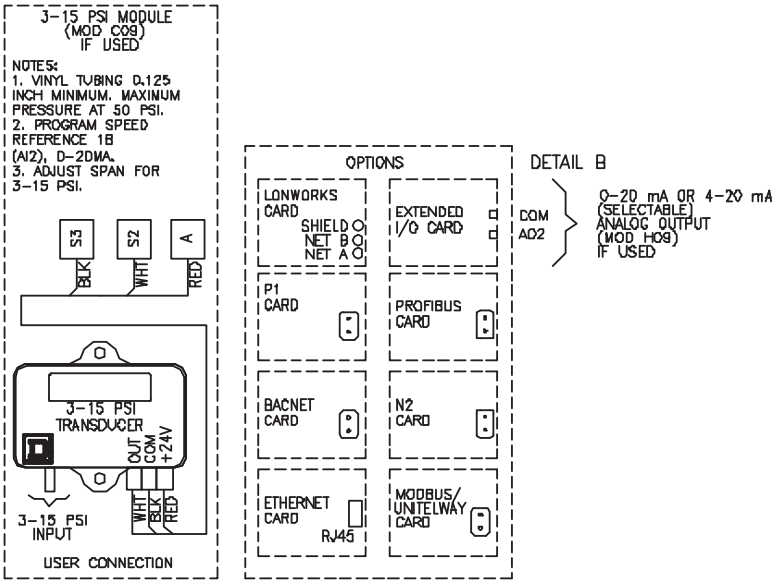

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Figure 32: Power Circuit W (Without Bypass): Start-Stop and Speed Potentiometer (Drawing No. 80461-074-01)

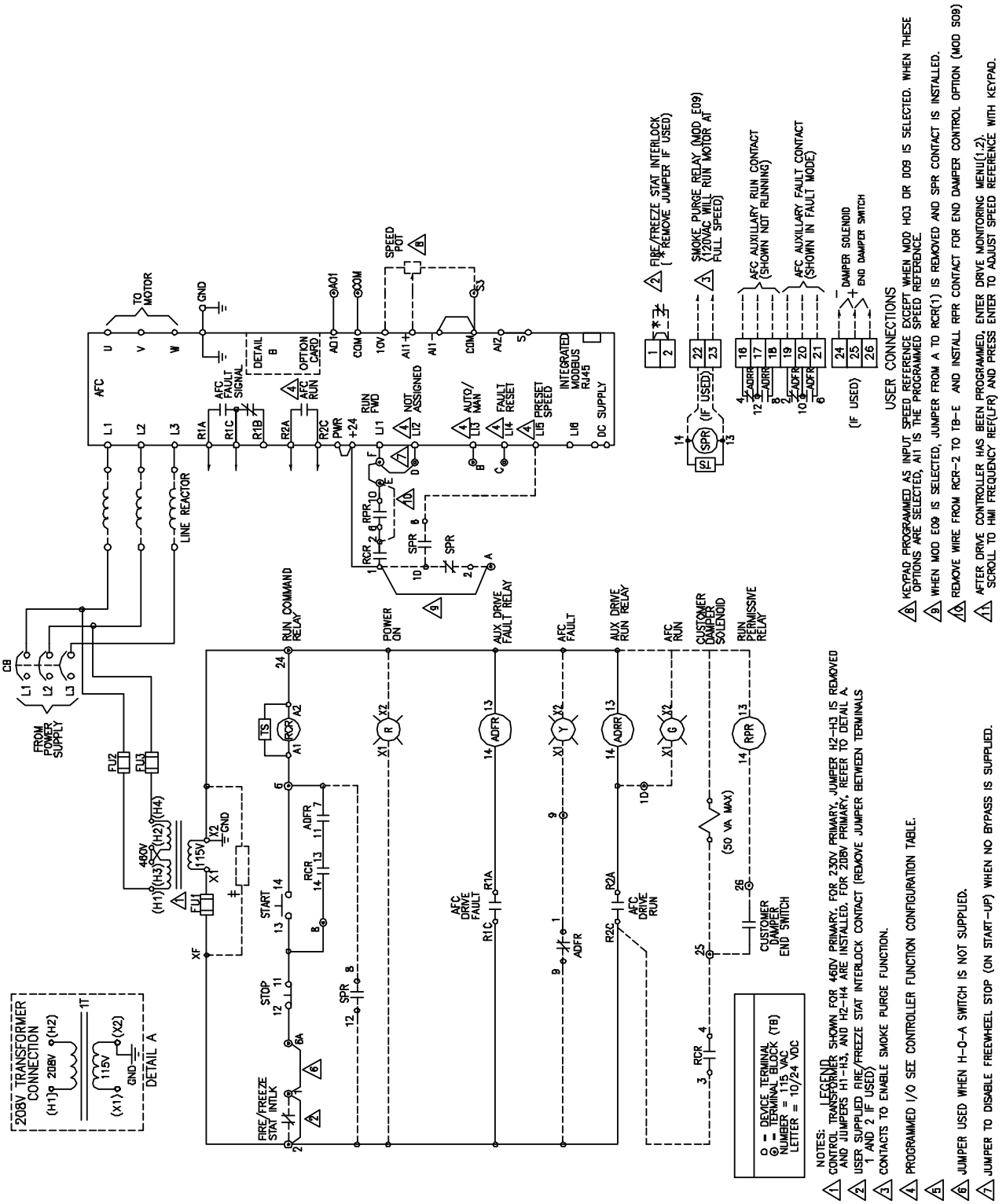

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Figure 32: Power Circuit W (Without Bypass): Start-Stop and Speed Potentiometer (Drawing No. 80461-074-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)(W/O MOD J09)	CrL2	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE(W/O MOD H03 OR D09 ONLY)	CHCF	SEP
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF. 1B CHAN	Fr1b	AI2
FUn	1.7	PRESET SPEEDS	2 PRESET SPEEDS	PS2	LI5
FUn	1.7	PRESET SPEEDS	PRESET SPEED 2	SP2	60
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
WHEN MOD H09 SELECTED - EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr
WHEN MOD J09 SELECTED - 0-10V DC SPEED REF.					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AI2 CONFIG.	AI2 TYPE	AI2t	10U

8

11

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡STIRRING FANS	10-100HP 460V, 7.5-50HP 208/230V	10-100HP 460V, 7.5-50HP 208/230V	NA
‡VENTILATION FAN	NA	NA	ALL HP
‡SPACE HEATER	NA	NA	ALL HP

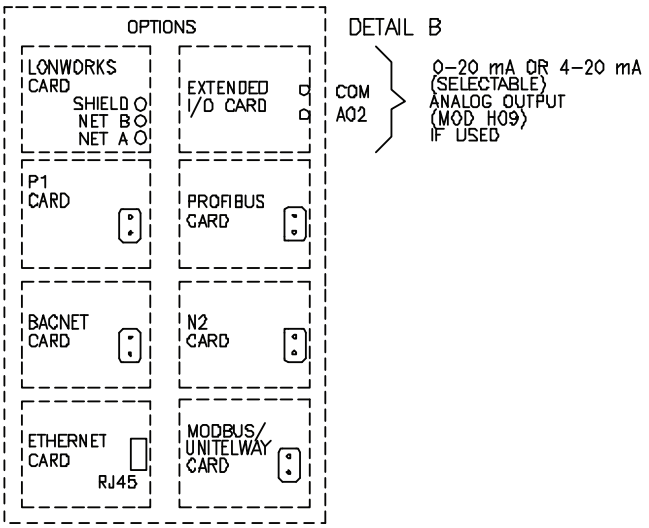

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Figure 33: Power Circuit W (Without Bypass): Hand-Off-Auto and Speed Potentiometer (Drawing No. 80461-075-01)

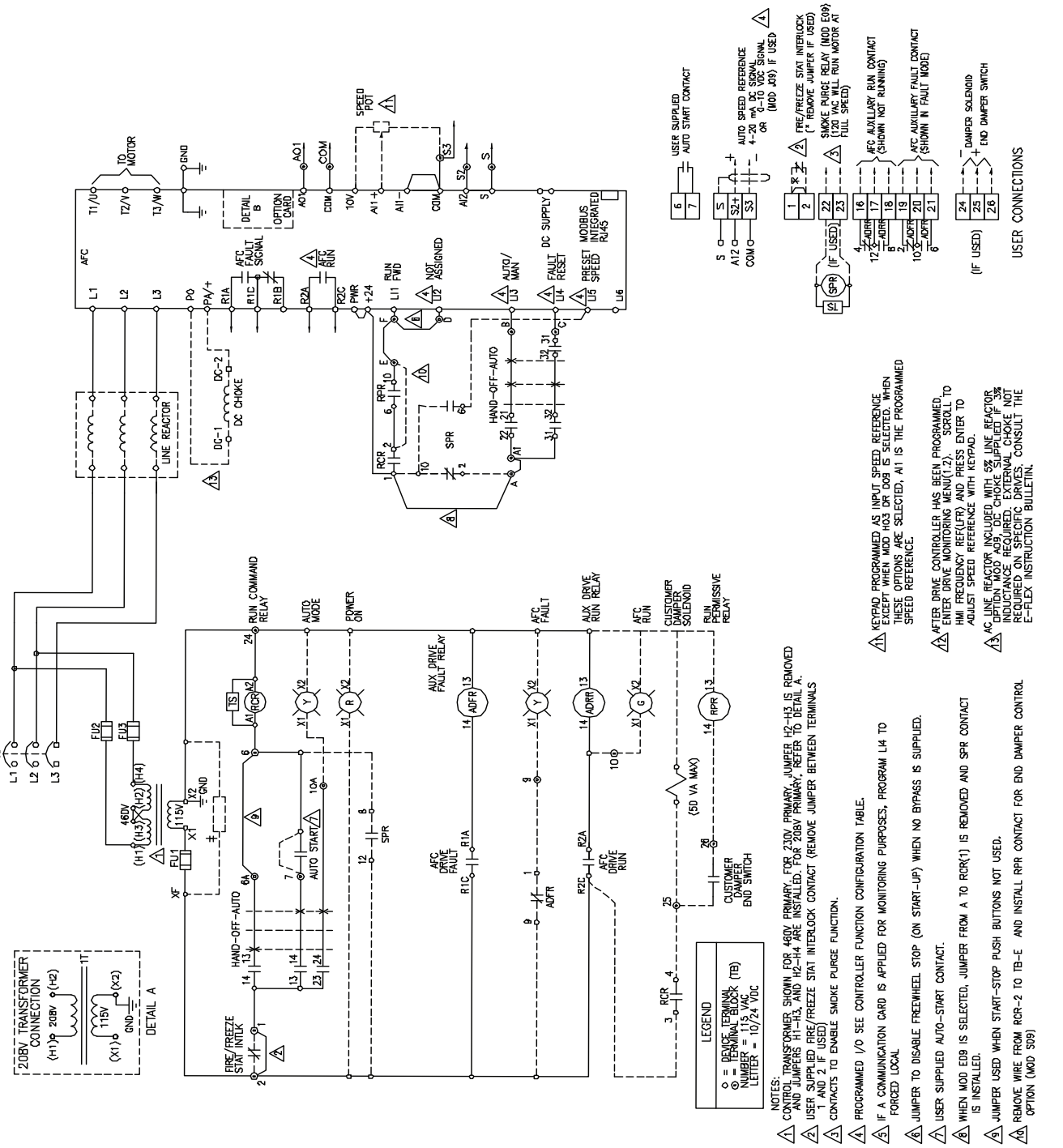

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Figure 33: Power Circuit W (Without Bypass): Hand-Off-Auto and Speed Potentiometer (Drawing No. 80461-075-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)(W/O MOD J09)	CrL2	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE(W/O MOD H03 OR D09 ONLY)	CHCF	SEP
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF. 1B CHAN	Fr1b	AI2
FUn	1.7	PRESET SPEEDS	2 PRESET SPEEDS	PS2	LI5
FUn	1.7	PRESET SPEEDS	PRESET SPEED 2	SP2	60
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED - EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr
WHEN MOD J09 SELECTED - 0-10V DC SPEED REF.					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AI2 CONFIG.	AI2 TYPE	AI2t	10U

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡ STIRRING FANS	NA	10-100HP 460V, 7.5-50HP 208/230V	NA
‡ VENTILATION FAN	NA	NA	ALL HP
‡ SPACE HEATER	NA	NA	ALL HP

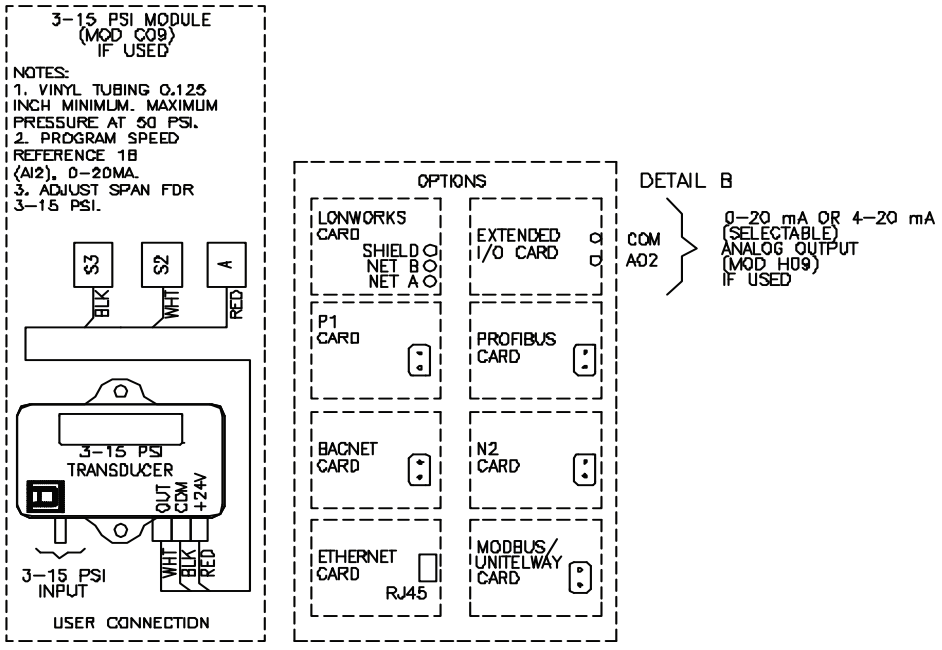

Figure 34: Power Circuit Y (With Bypass): Hand-Off-Comm, Start-Stop, and Speed Potentiometer (Drawing No. 80461-078-01)

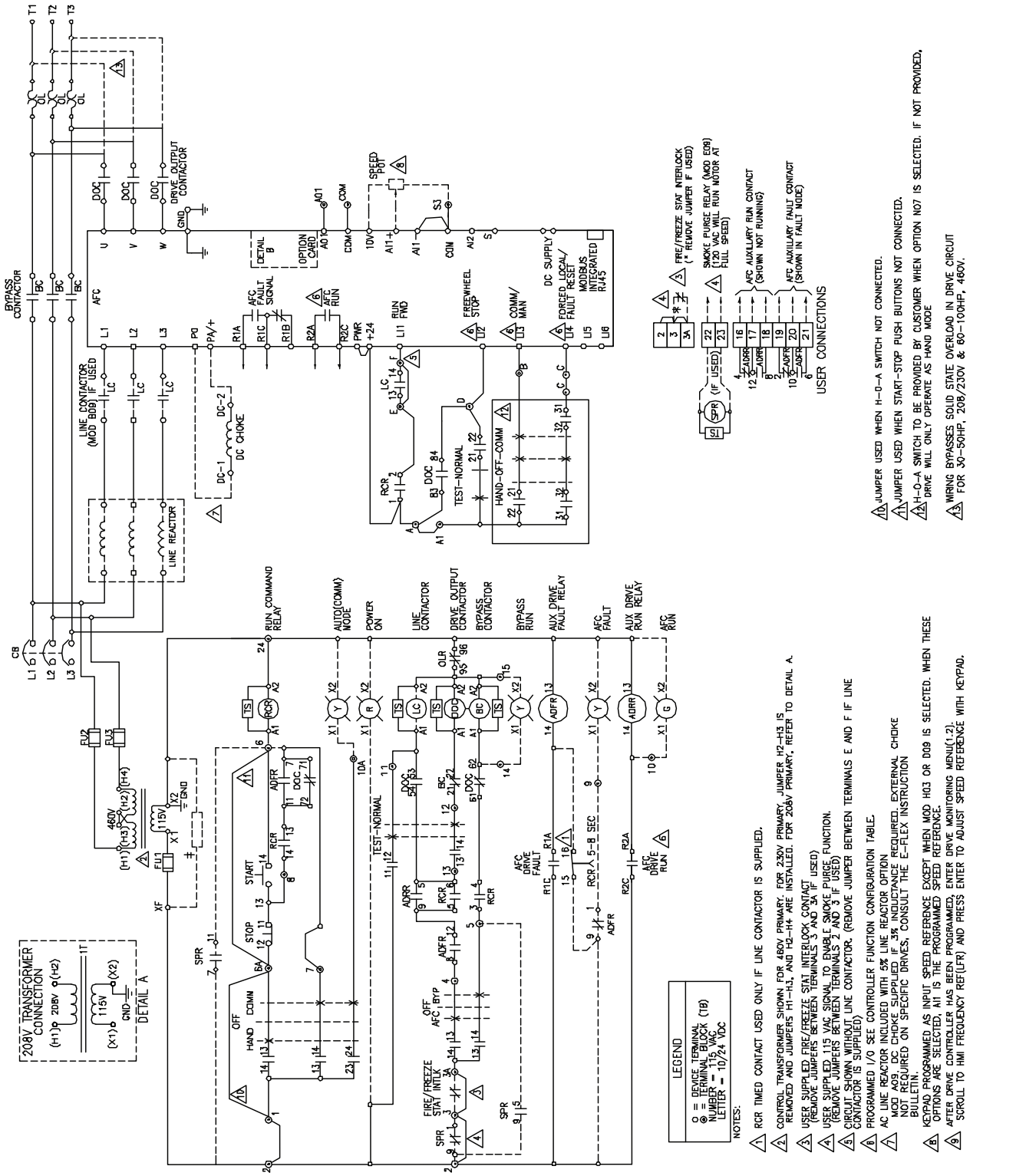

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Figure 34: Power Circuit Y (With Bypass): Hand-Off-Comm, Start-Stop, and Speed Potentiometer (Drawing No. 80461-078-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN(W/O H03 OR D09 ONLY)	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE	CHCF	SEP
CtL	1.6	----	CMD SWITCHING	CCS	LI3
CtL	1.6	----	CMD CHANNEL 2	Cd2	COM.CARD
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH.	REF 1B CHANNEL	Fr1b	COM.CARD
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN.	nST	LI2
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLT	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	OPL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED - EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr

(8) (9)

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡ STIRRING FANS	NA	10-100HP 460V, 7.5-50HP 208/230V	NA
‡ VENTILATION FAN	NA	NA	ALL HP
‡ SPACE HEATER	NA	NA	ALL HP

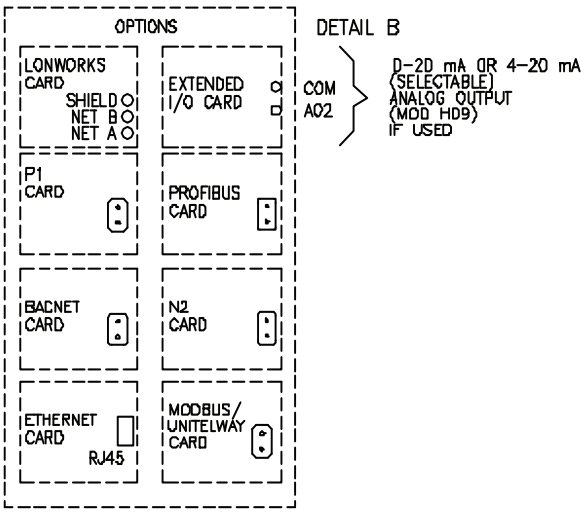

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Figure 35: Power Circuit W (Without Bypass): Hand-Off-Comm, Start-Stop, and Speed Potentiometer (Drawing No. 80461-079-01)

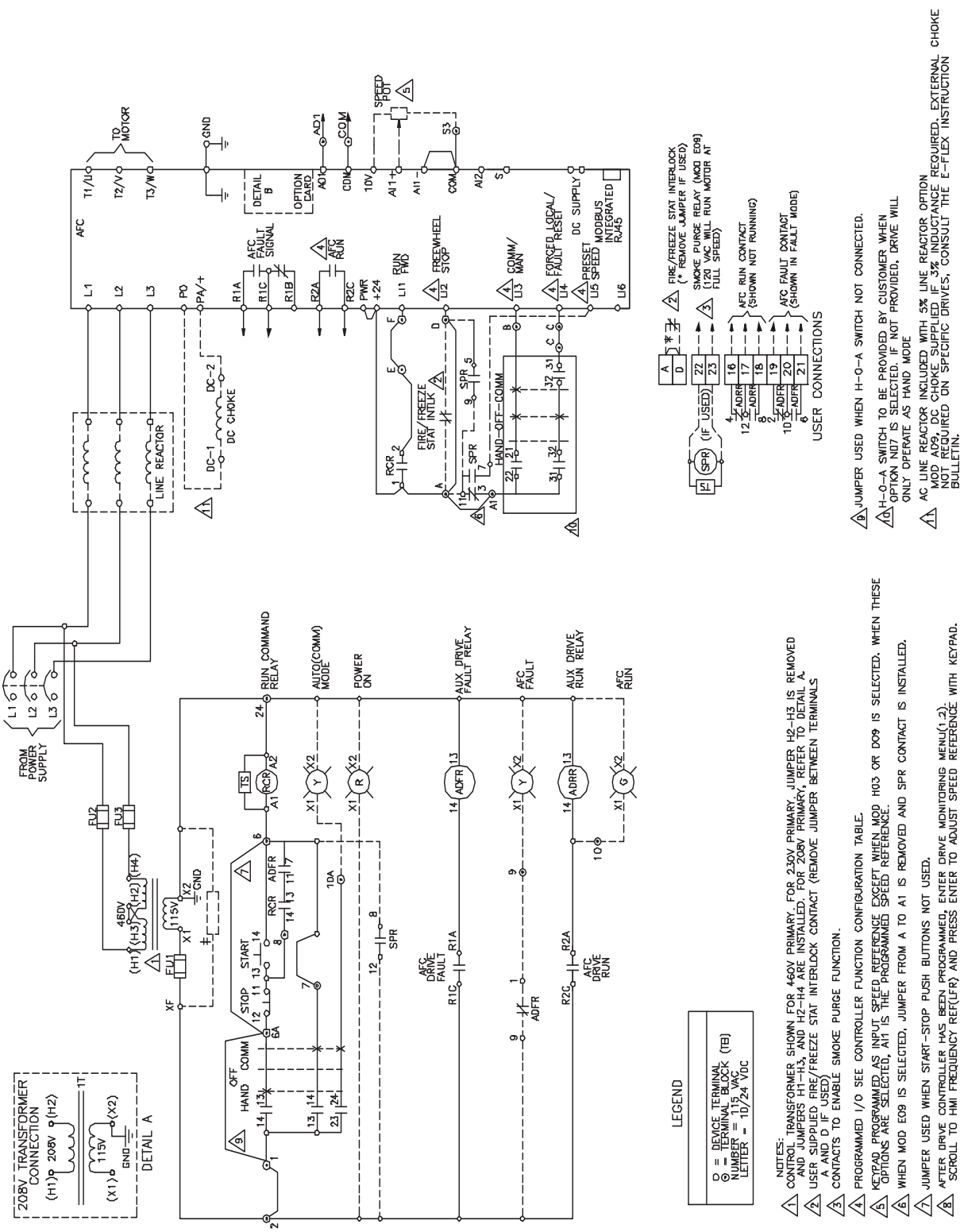

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Figure 35: Power Circuit W (Without Bypass): Hand-Off-Comm, Start-Stop, and Speed Potentiometer (Drawing No. 80461-079-01) *(continued)*

ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS/FANS	CFG	PnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SEt	1.3	----	SWITCHING FREQ. (HZ)	SFr	8
I-O	1.5	----	2 WIRE TYPE	tCt	LEL
I-O	1.5	R2 CONFIG.	R2 ASSIGN – DRIVE RUNNING	r2	rUn
CtL	1.6	----	REF. 1 CHAN(W/O H03 OR D09 ONLY)	FR1	HMI
CtL	1.6	----	REF. 1 CHAN(MOD H03 OR D09 ONLY)	FR1	AI1
CtL	1.6	----	PROFILE	CHCF	SEP
CtL	1.6	----	CMD SWITCHING	CCS	LI3
CtL	1.6	----	CMD CHANNEL 2	Cd2	COM.CARD
FUn	1.7	REFERENCE SWITCH.	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH	REF 1B CHANNEL	Fr1b	COM.CARD
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN.	nST	LI2
FUn	1.7	PRESET SPEEDS	2 PRESET SPEEDS	PS2	LI5
FUn	1.7	PRESET SPEEDS	PRESET SPEED 2	SP2	60
FLT	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLT	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLO	LI4
WHEN MOD H09 SELECTED – EXTENDED I/O CARD					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
I-O	1.5	AO2	AO2 ASSIGNMENT (MOTOR FREQ, mA)	AO2	OFr

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
‡ STIRRING FANS	NA	10–100HP 460V, 7.5–50HP 208/230V	NA
‡ VENTILATION FAN	NA	NA	ALL HP
‡ SPACE HEATER	NA	NA	ALL HP

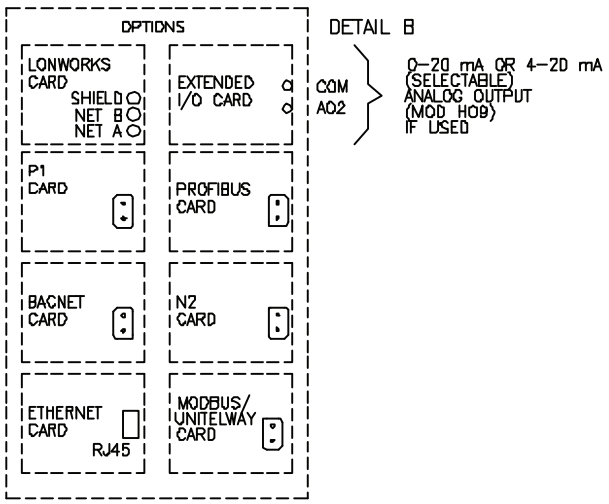

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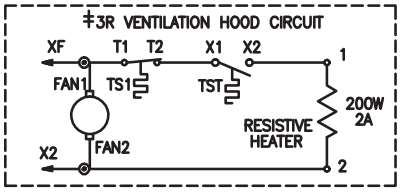
Figure 36: 3R Ventilation and Heater



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