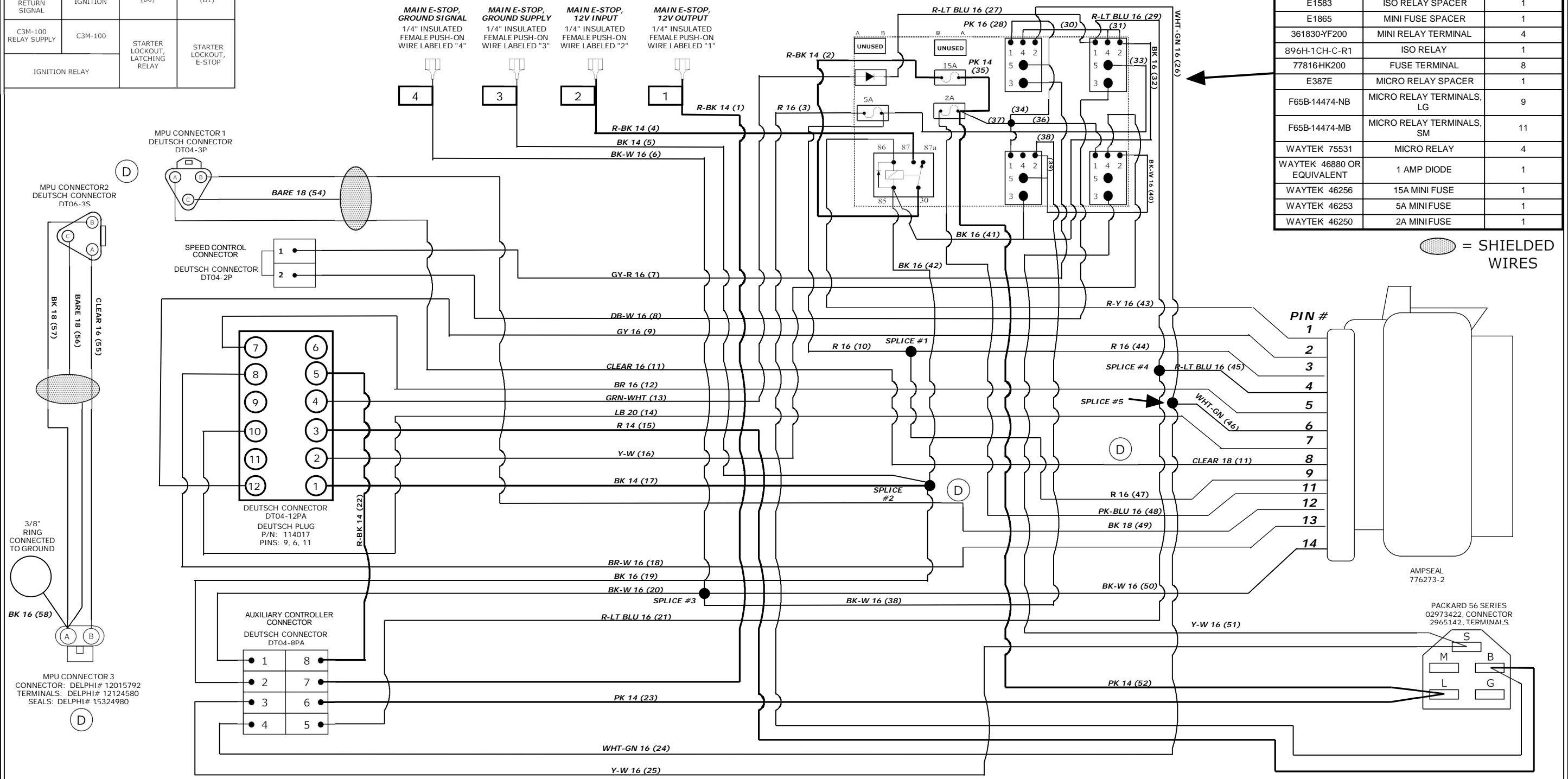


AEES R65096-001A FUSE & RELAY BLOCK ASSY FUNCTION GUIDE			
UNUSED	UNUSED	ENGINE SPEED INCREASE (B0)	ENGINE SPEED DECREASE (B1)
THROTTLE RETURN SIGNAL	IGNITION		
C3M-100 RELAY SUPPLY	C3M-100	STARTER LOCKOUT, LATCHING RELAY	STARTER LOCKOUT, E-STOP
IGNITION RELAY			

FUSE & RELAY BLOCK ASSEMBLY		
P/N	DESCRIPTION	QUANTITY
E1827C	COVER	1
E792B	BOTTOM	1
R65096-001A	2-MODULE	1
E1583	ISO RELAY SPACER	1
E1865	MINI FUSE SPACER	1
361830-YF200	MINI RELAY TERMINAL	4
896H-1CH-C-R1	ISO RELAY	1
77816HK200	FUSE TERMINAL	8
E387E	MICRO RELAY SPACER	1
F65B-14474-NB	MICRO RELAY TERMINALS, LG	9
F65B-14474-MB	MICRO RELAY TERMINALS, SM	11
WAYTEK 75531	MICRO RELAY	4
WAYTEK 46880 OR EQUIVALENT	1 AMP DIODE	1
WAYTEK 46256	15A MINI FUSE	1
WAYTEK 46253	5A MINI FUSE	1
WAYTEK 46250	2A MINI FUSE	1



JUMPER CONNECTOR
DEUTSCH CONNECTOR
DT06-08SA

● 8	● 1 ●
● 7	● 2 ●
● 6	● 3 ●
● 5	● 4 ●

DEUTSCH PLUG
P/N: 114017
PINS: 1 - 6
INSTALL ONTO
AUXILIARY CONTROLLER
CONNECTOR.

REVISIONS				
REV	DESCRIPTION	NAME	DATE	ECO#
A	RELEASED - NEW PART	TJW	9/18/2012	0464
B	MODIFIED TERMINATION STYLE OF E-STOP AND IGN SWITCH. ADDED RESISTOR TO RPM SIGNAL WIRE.	TJW	10/7/2012	0557
C	ADDED JUMPER CONNECTOR.	TJW	11/13/2012	0562
D	REMOVED RESISTOR AND ADDED SHIELDED CABLE FOR SPEED SIGNAL. SEPARATING RELAY GROUND AND CONTROL GROUND.	TJW	9/25/2013	0749-1

Title: **WH00023**
HARNESS, CONTROLS INC, SPEED CTRL

Author: T. WELCH

Date: 9/18/2012

Revision: D


**NORTHERN
POWER**
PRODUCTS, INC.

Sheet: 1 OF 3

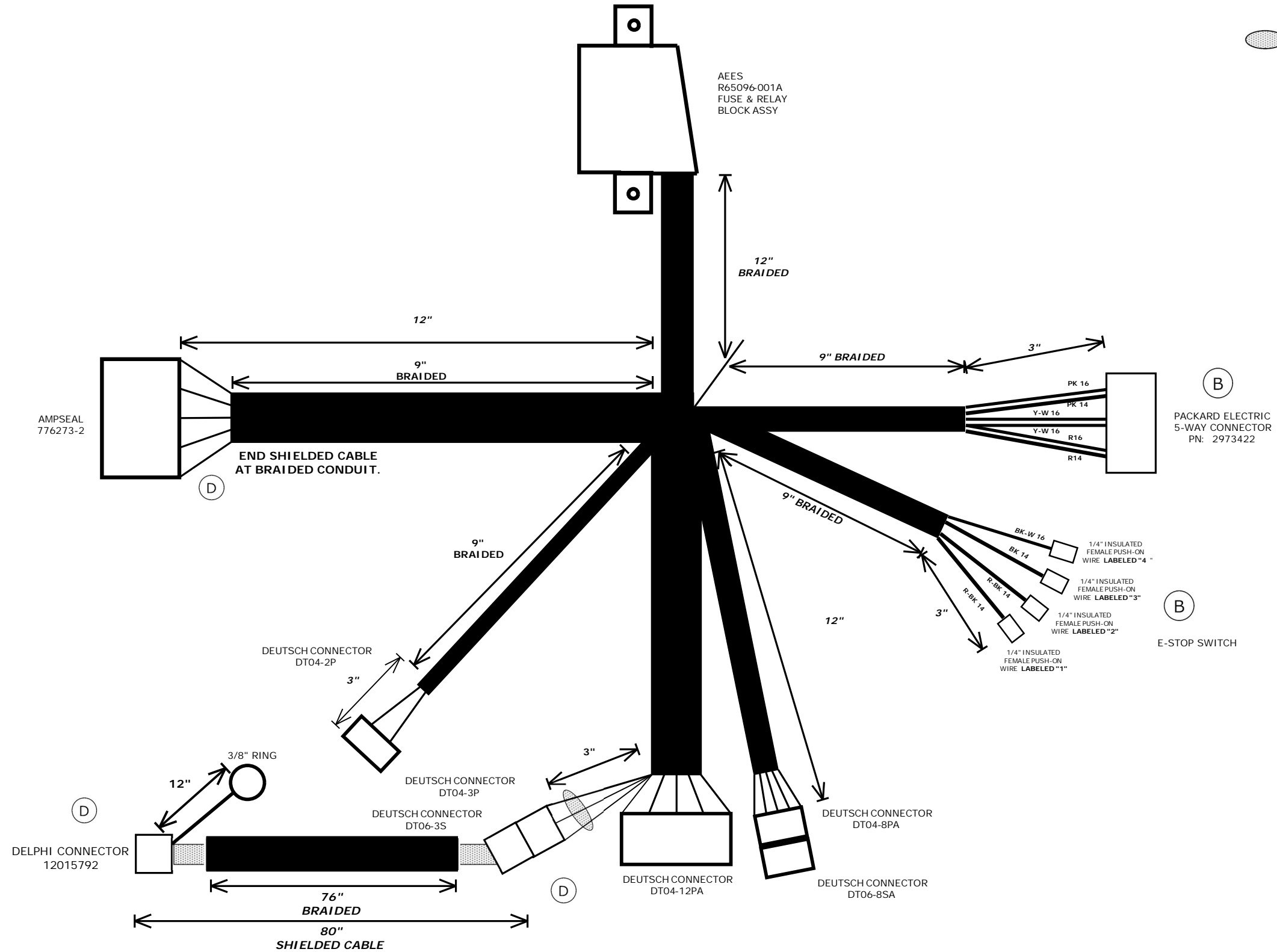
WIRE CUT CHART					
COLOR/GAGE/ CIRCUIT	CONN 1 / PIN #	FROM	CONN 2 / PIN #	TO	COMMENTS
R-BK 14 (1)	1/4" FEMALE PUSH-ON	MAIN E-STOP, 12V OUTPUT	DT04-BPA / 7	AUX E-STOP, 12V INPUT	WIRE LABELED "1"
R-BK 14 (2)	SONG CHUAN: B96H-1CH-C-R1 / 30	IGNITION RELAY	15A FUSE / B	IGNITION CIRCUIT FUSE	
R 16 (3)	5A FUSE / A	C3M-100 RELAY SUPPLY FUSE	#10 RING / IGNITION SWITCH / AC	IGNITION SWITCH	
R-BK 14 (4)	1/4" FEMALE PUSH-ON	MAIN E-STOP, 12V INPUT	SONG CHUAN: B96H-1CH-C-R1 / 87	IGNITION RELAY	WIRE LABELED "2"
BK 14 (5)	1/4" FEMALE PUSH-ON	MAIN E-STOP, GROUND SUPPLY	SPLICE #2 / PARALLEL BUTT CONNECTOR	SPLICE #2	WIRE LABELED "3"
BK-W 16 (6)	1/4" FEMALE PUSH-ON	MAIN E-STOP, GROUND SIGNAL	SPLICE #3 / PARALLEL BUTT CONNECTOR	SPLICE #3	WIRE LABELED "4"
GY-R 16 (7)	DT04-2P / 1	SPEED CONTROL HARNESS, INCREASE RPM	WAYTEK : 75531, 12V SPDT 20A/10A / 3	ENGINE SPEED INCREASE MICRO RELAY	
DB-W 16 (8)	DT04-2P / 2	SPEED CONTROL HARNESS, DECREASE RPM	WAYTEK : 75531, 12V SPDT 20A/10A / 3	ENGINE SPEED DECREASE MICRO RELAY	
GY 16 (9)	DT04-12PA / 12	ENGINE HARNESS / COOLANT TEMP SENDER	776273-2 / 2	CONTROLS INC (C3M-100) / COOLANT TEMP SENDER	
R 16 (10)	5A FUSE / B	C3M-100 RELAY SUPPLY FUSE	SPLICE #1 / PARALLEL BUTT CONNECTOR	SPLICE #1	
CLEAR 18 (11)	DT04-3P / A	MPU CONNECTOR 1 / SPEED SIGNAL	776273-2 / 8	RPM SIGNAL	SHIELDED CABLE
BR 16 (12)	DT04-12PA / 7	ENGINE HARNESS / GLOW RELAY 86	776273-2 / 5	CONTROLS INC (C3M-100) / PRE HEAT SIGNAL	
GRN-WHT (13)	DT04-12PA / 4	ENGINE HARNESS / ENERGIZE TO STOP OUTPUT	WAYTEK : 46880, DIODE / A	1 AMP DIODE INPUT	
LB 20 (14)	DT04-12PA / 10	ENGINE HARNESS / OIL PRESS SENDER	776273-2 / 7	CONTROLS INC (C3M-100) / OIL PRESS SENDER	
R 14 (15)	DT04-12PA / 3	ENGINE HARNESS / BATTERY POWER	#10 RING / 30	IGNITION SWITCH	
Y-W (16)	DT04-12PA / 2	ENGINE HARNESS / STARTER RELAY 86	WAYTEK : 75531, 12V SPDT 20A/10A / 4	STARTER LOCKOUT, E-STOP RELAY	
BK 14 (17)	DT04-12PA / 1	ENGINE HARNESS / GROUND	SPLICE #2 / PARALLEL BUTT CONNECTOR	SPLICE #2	
BR-W 16 (18)	DT04-12PA / 8	ENGINE HARNESS / FUEL LEVEL SENDER	776273-2 / 13	CONTROLS INC (C3M-100) / FUEL LEVEL SIGNAL	
BK 16 (19)	DT04-BPA / 2	AUX CONTROLLER / GROUND	SPLICE #2 / PARALLEL BUTT CONNECTOR	SPLICE #2	
BK-W 16 (20)	DT04-BPA / 1	AUX CONTROLLER / E-STOP SHUTDOWN SIGNAL	SPLICE #3 / PARALLEL BUTT CONNECTOR	SPLICE #3	
R-LT BLU 16 (21)	DT04-BPA / 5	AUX CONTROLLER / DECREASE RPM SIGNAL	SPLICE #4 / PARALLEL BUTT CONNECTOR	SPLICE #4	
R-BK 14 (22)	DT04-12PA / 5	ENGINE HARNESS / IGNITION POWER	DT04-BPA / 8	AUX CONTROLLER E-STOP, 12V OUTPUT	
PK 14 (23)	DT04-BPA / 6	AUX CONTROLLER / ACC POWER	#10 RING / ACC	IGNITION SWITCH	
GRN-Y 16 (24)	DT04-BPA / 4	AUX CONTROLLER / INCREASE RPM SIGNAL	SPLICE #5 / PARALLEL BUTT CONNECTOR	SPLICE #5	
Y-W 16 (25)	DT04-BPA / 3	AUX CONTROLLER / START REQUEST	#10 RING / 50	IGNITION SWITCH	
GRN-Y 16 (26)	WAYTEK : 75531, 12V SPDT 20A/10A / 2	ENGINE SPEED INCREASE MICRO RELAY	SPLICE #5 / PARALLEL BUTT CONNECTOR	SPLICE #5	
R-LT BLU 16 (27)	WAYTEK : 46880, DIODE / B	1 AMP DIODE OUTPUT	WAYTEK : 75531, 12V SPDT 20A/10A / 1	ENGINE SPEED DECREASE MICRO RELAY	
PK 16 (28)	WAYTEK : 75531, 12V SPDT 20A/10A / 1	ENGINE SPEED INCREASE MICRO RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 5	ENGINE SPEED INCREASE MICRO RELAY	
R-LT BLU 16 (29)	WAYTEK : 75531, 12V SPDT 20A/10A / 1	ENGINE SPEED DECREASE MICRO RELAY	SPLICE #4 / PARALLEL BUTT CONNECTOR	SPLICE #4	
BK 16 (30)	WAYTEK : 75531, 12V SPDT 20A/10A / 4	ENGINE SPEED INCREASE MICRO RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 4	ENGINE SPEED DECREASE MICRO RELAY	
BK 16 (31)	WAYTEK : 75531, 12V SPDT 20A/10A / 4	ENGINE SPEED DECREASE MICRO RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 2	ENGINE SPEED DECREASE MICRO RELAY	
BK 16 (32)	WAYTEK : 75531, 12V SPDT 20A/10A / 2	ENGINE SPEED DECREASE MICRO RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 3	STARTER LOCKOUT, LATCHING RELAY	
PK 16 (33)	WAYTEK : 75531, 12V SPDT 20A/10A / 5	ENGINE SPEED DECREASE MICRO RELAY	5A FUSE / B	C3M-100 RELAY SUPPLY FUSE	
PK 16 (34)	2A FUSE / A	C3M-100 FUSE	WAYTEK : 75531, 12V SPDT 20A/10A / 5	ENGINE SPEED INCREASE MICRO RELAY	
PK 14 (35)	2A FUSE / A	C3M-100 FUSE	15A FUSE / A	IGNITION RELAY	
Y-W 16 (36)	WAYTEK : 75531, 12V SPDT 20A/10A / 1	STARTER LOCKOUT, LATCHING RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 1	STARTER LOCKOUT, E-STOP RELAY	
PK 16 (37)	2A FUSE / A	C3M-100 FUSE	WAYTEK : 75531, 12V SPDT 20A/10A / 1	STARTER LOCKOUT, LATCHING RELAY	
BK-W 16 (38)	WAYTEK : 75531, 12V SPDT 20A/10A / 2	STARTER LOCKOUT, LATCHING RELAY	SPLICE #3 / PARALLEL BUTT CONNECTOR	SPLICE #3	
BK-W 16 (39)	WAYTEK : 75531, 12V SPDT 20A/10A / 2	STARTER LOCKOUT, LATCHING RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 5	STARTER LOCKOUT, LATCHING RELAY	
BK-W 16 (40)	WAYTEK : 75531, 12V SPDT 20A/10A / 5	STARTER LOCKOUT, LATCHING RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 2	STARTER LOCKOUT, E-STOP RELAY	
BK 16 (41)	SONG CHUAN: B96H-1CH-C-R1 / 85	IGNITION RELAY	WAYTEK : 75531, 12V SPDT 20A/10A / 3	STARTER LOCKOUT, E-STOP RELAY	
BK 16 (42)	SONG CHUAN: B96H-1CH-C-R1 / 85	IGNITION RELAY	SPLICE #2 / PARALLEL BUTT CONNECTOR	SPLICE #2	
R-Y 16 (43)	SONG CHUAN: B96H-1CH-C-R1 / 86	IGNITION RELAY	776273-2 / 1	CONTROLS INC (C3M-100) / RUN SIGNAL	
R 16 (44)	SPLICE #1 / PARALLEL BUTT CONNECTOR	SPLICE #1	776273-2 / 3	CONTROLS INC (C3M-100) / BAT POSITIVE	
R-LT BLU 16 (45)	SPLICE #4 / PARALLEL BUTT CONNECTOR	SPLICE #4	776273-2 / 4	CONTROLS INC (C3M-100) / DECREASE RPM OUTPUT	
GRN-Y (46)	SPLICE #5 / PARALLEL BUTT CONNECTOR	SPLICE #5	776273-2 / 6	CONTROLS INC (C3M-100) / INCREASE RPM OUTPUT	
R 16 (47)	SPLICE #1 / PARALLEL BUTT CONNECTOR	SPLICE #1	776273-2 / 9	CONTROLS INC (C3M-100) / BAT POSITIVE	
PK-BLU 16 (48)	2A FUSE / B	C3M-100 FUSE	776273-2 / 11	CONTROLS INC (C3M-100) / SWITCHED POWER TO C3M	
BK 18 (49)	DT04-3P / B	MPU CONNECTOR 1 / GROUND	776273-2 / 12	CONTROLS INC (C3M-100) / GROUND	SHIELDED CABLE
BK-W 16 (50)	SPLICE #3 / PARALLEL BUTT CONNECTOR	SPLICE #3	776273-2 / 14	CONTROLS INC (C3M-100) / E-STOP SIGNAL	
Y-W 16 (51)	WAYTEK : 75531, 12V SPDT 20A/10A / 3	STARTER LOCKOUT, ENGINE RUNNING RELAY	#10 RING / 50	IGNITION SWITCH	
PK 14 (52)	2A FUSE / A	C3M-100 FUSE	#10 RING / ACC	IGNITION SWITCH	
R-BK 14 (53)	DT06-08SA / 7	E-STOP, 12V INPUT	DT06-08SA / 8	E-STOP, 12V OUTPUT	
BARE 18 (54)	DT04-3P / C	MPU CONNECTOR 1 / SHIELD WIRE	NOT TERMINATED	NOT TERMINATED	END SHIELD APPROXIMATELY 3" FROM 776273 CONNECTOR.
CLEAR 18 (55)	12015792 / B	MPU CONNECTOR 3 / SPEED SIGNAL	DT04-3S / A	MPU CONNECTOR 2 / SPEED SIGNAL	SHIELDED CABLE
BARE 18 (56)	12015792 / A	MPU CONNECTOR 3 / SHIELD WIRE	DT04-3S / C	MPU CONNECTOR 2 / SHIELD WIRE	SHIELDED CABLE
BLK 18 (57)	12015792 / A	MPU CONNECTOR 3 / GROUND	DT04-3S / B	MPU CONNECTOR 2 / GROUND	SHIELDED CABLE
BLK 16 (58)	3/8" RING	ENGINE BLOCK / GROUND	12015792 / A	MPU CONNECTOR 3 / GROUND	

REVISIONS

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C	ADDED JUMPER CONNECTOR.	TJW	11/13/2012	0562
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Title:	WH00023 HARNESS, CONTROLS INC, SPEED CTRL	
Author:	T. WELCH	
Date:	9/18/2012	Sheet: 2 OF 3
Revision:	D	

○ = SHIELDED WIRES



REVISIONS				
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Title: WH00023 HARNES, CONTROLS INC, SPEED CTRL	NORTHERN POWER PRODUCTS, INC.
Author: T. WELCH	
Date: 9/18/2011	Sheet: 3 OF 3
Revision: D	