

MI-1294-H-CON SCHEMATIC

SAE J1939/11 2 CONDUCTOR 18 AWG SHIELDED CABLE

KEYSWITCH

251-RD-16 SWITCHED B(+)
250-RD-16 B(+)

MIL

253-RD-16
252-RD-16
253-RD-16
254-RD-18
255-RD-16
256-RD-16

THROTTLE

351-PR-18 UP, LABEL 1
254-RD-18 B+, LABEL 2
352-PK-18 DOWN, LABEL 3

FUEL SELECT

365-BL/YL-16 OPEN-GAS
255-RD-16 B+ B1-LPG
151-BK-16 B-

DSE4510

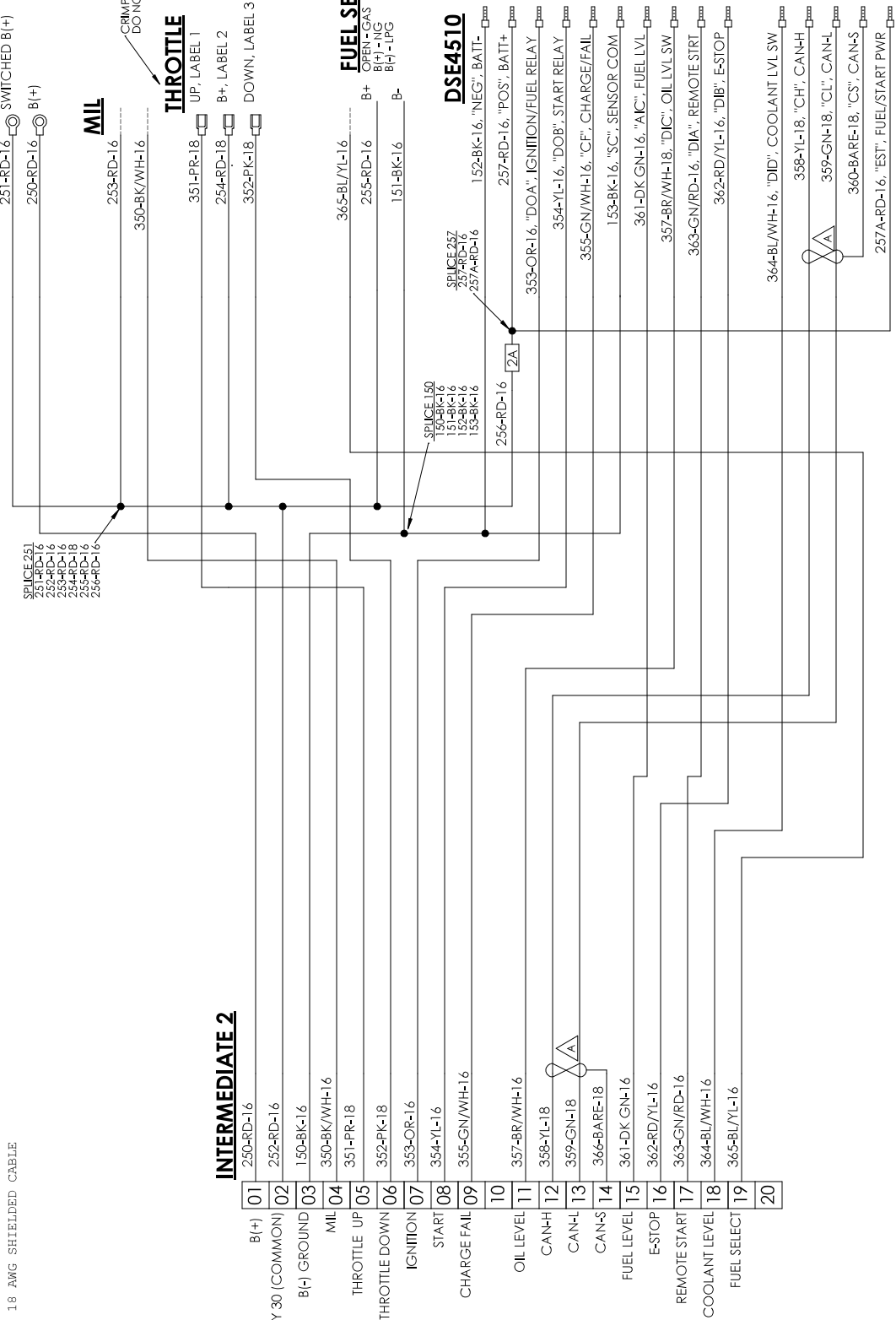
SPICE 257
257-RD-16
257A-RD-16
152-BK-16, "NEG", BATT-
256-RD-16
256-RD-16 [2A]

SPICE 150
150-BK-16
151-BK-16
152-BK-16
153-BK-16

CRIMP TERMINALS ONTO WIRES BUT DO NOT PIN THIS CONNECTOR

INTERMEDIATE 2

- 01 250-RD-16 B(+)
- 02 252-RD-16 IGN RLY 30 (COMMON)
- 03 150-BK-16 B(+)
- 04 350-BK/WH-16 MIL
- 05 351-PR-18 THROTTLE UP
- 06 352-PK-18 THROTTLE DOWN
- 07 353-OR-16 IGNITION
- 08 354-YL-16 START
- 09 355-GN/WH-16 CHARGE FAIL
- 10 357-BR/WH-16 OIL LEVEL
- 11 358-YL-18 CAN-H
- 12 359-GN-18 CAN-L
- 13 366-BARE-18 CAN-S
- 14 361-DK GN-16 FUEL LEVEL
- 15 362-RD/YL-16 E-STOP
- 16 363-GN/RD-16 REMOTE START
- 17 364-BL/WH-16 COOLANT LEVEL
- 18 365-BL/YL-16 FUEL SELECT
- 19
- 20



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY	CORREY
DATE	01/13/17	
WIRE LEGEND:	DO NOT SCALE DRAWING	
(CIRCUIT COLOR/HAWG) (COLOR/HAWG)	FOR BARE AND COMBUSTIBLE	
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF ANDERSON INDUSTRIAL ENGINES. IT IS TO BE USED ONLY FOR THE PURPOSES AND IN THE MANNER SPECIFIED BY THE DRAWING.		
ITEM DESCRIPTION: IRRIGATION POWER UNIT, SUBSTA W G5800, USE WITH DSE4510		
Anderson Industrial Engines		REV. C
		MI-1294-H
		SHEET 3 OF 7

MI-1294-H-EXT SCHEMATIC/CONSTRUCTION

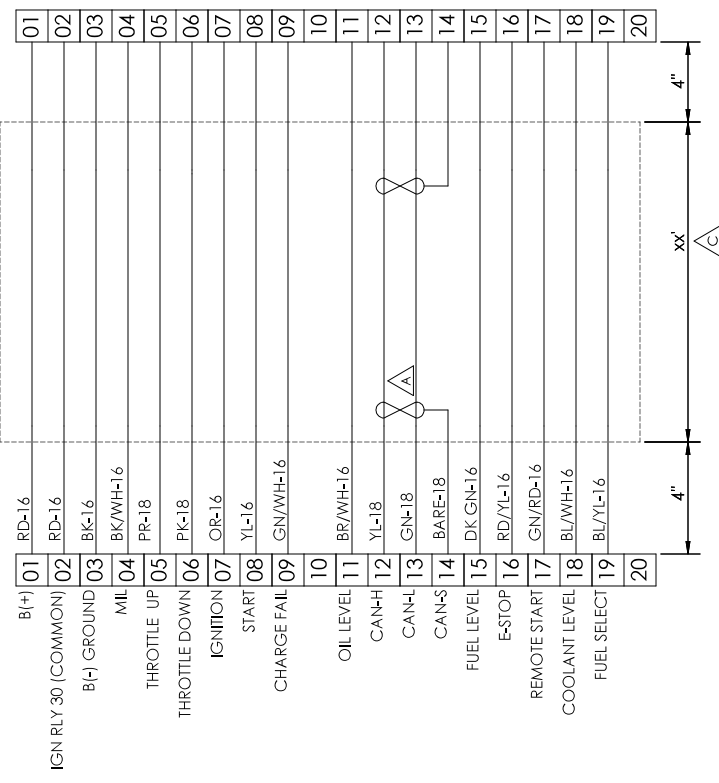
- A** SAE J1939/11 2 CONDUCTOR 18 AWG SHIELDED CABLE
- B** PROTECTIVE BRAIDED SLEEVE -10 MIL POLYETHYLENE TEREPHTHALATE (PET)
- C** LENGTH IN FEET SPECIFIED IN PN WHEN ORDERED MI-1294-H-EXT-XX (E.G., MI-1294-H-EXT-6 IS 6' AND MI-1294-H-EXT-10 IS 10')

RECEPTICLE END

- 170** MOLEX PN 33472-001
- 171** MOLEX PN 33012-001 X 13
- 172** MOLEX PN 33472-002 X 2
- 173** MOLEX PN 3345-0001 X 2

PLUG END

- 174** MOLEX PN 33482-2101 X 1
- 175** MOLEX PN 33482-2102 X 2
- 176** MOLEX PN 3345-0001 X 2



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY	CORDEX	Anderson Industrial Engines
WELDED:	DATE	01/13/17	
(CIRCUIT-COLOR-PW) (COLOR-PW)	DO NOT SCALE DRAWING		
	FOR PARTIAL AND COMPLETE		
	THE PARTS LISTED ARE NOT TO BE USED WITHOUT THE APPROVAL AND SIGNATURE OF THE DESIGN ENGINEER		
ITEM DESCRIPTION:	IRRIGATION POWER LINE WITH DISCONNECT		
	PART # MI-1294-H		
	SHEET 6 OF 7		

MI-1294-H TERMINAL CROSS REFERENCE

AIE STANDARD FUNCTION	LABEL	DSE CROSS REFERENCE										NOTE
		3110	4410	4510	6110	7310	7310	7310	7310	7310	7310	
BATT-	NEG	01	01	01	01	01	01	01	01	01	01	GROUND
BATT+	POS	02	02	02	02	02	02	02	02	02	02	POSITIVE
E-STOP/FUEL-START PWR	EST	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	E-STOP/FUEL-START PWR
CHARGE FAIL	CF	07	05	05	06	06	06	06	06	06	06	CHARGE FAIL/EXCITE
ECU (ECM) POWER	DOA	03	03	03	04	04	04	04	04	04	04	FUEL RELAY
START RELAY	DOB	04	04	04	04	04	04	04	04	04	04	
	DOC	05	06	06	07	07	07	07	07	07	07	
GLOW RELAY	DOD	06	07	07	08	08	08	08	08	08	08	
COMMON ALARM	DOE	N/A	08	08	09	09	09	09	09	09	09	COMMON WARNING FOR MIL LAMP
	DOF	N/A	09	09	10	10	10	10	10	10	10	
	DOG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	DOH	N/A	N/A	N/A	12	11	10	10	10	10	10	
	DOI	N/A	N/A	N/A	N/A	12	11	11	11	11	11	
	DOJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
SENSOR COMMON	SC	SENSOR COM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
OIL PRESSURE SW	A/A	ANALOG INPUT A	N/A	11	11	16	15	15	15	15	15	SENSOR RETURN (GROUND)
COOLANT TEMP/CCV SW	A/B	ANALOG INPUT B	N/A	12	12	17	16	16	16	16	16	
AIR RES./FUEL LVL	A/C	ANALOG INPUT C	N/A	13	13	18	17	17	17	17	17	
	A/D	ANALOG INPUT D	N/A	N/A	N/A	19	18	18	18	18	18	
	A/E	ANALOG INPUT E	N/A	N/A	N/A	N/A	19	19	19	19	19	
	A/F	ANALOG INPUT F	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
REMOTE START	D/A	DIGITAL INPUT A	12	25	14	42	48	48	48	48	48	
E-STOP	D/B	DIGITAL INPUT B	13	26	15	43	49	49	49	49	49	
OIL LEVEL SW	D/C	DIGITAL INPUT C	14	27	16	44	50	50	50	50	50	
COOLANT LEVEL SW	D/D	DIGITAL INPUT D	15	28	17	45	51	51	51	51	51	
	D/E	DIGITAL INPUT E	16	N/A	N/A	46	52	52	52	52	52	
	D/F	DIGITAL INPUT F	17	N/A	N/A	47	53	53	53	53	53	
	D/G	DIGITAL INPUT G	N/A	N/A	N/A	48	54	54	54	54	54	
	D/H	DIGITAL INPUT H	N/A	N/A	N/A	49	55	55	55	55	55	
CAN-H	CL	11	14	18	23	24	24	24	24	24	24	CAN HIGH
CAN-L	CL	10	15	19	24	25	25	25	25	25	25	CAN LOW
CAN S	CS	N/A	16	20	25	26	26	26	26	26	26	
MPU+	MP+	10	14	N/A	20	25	26	26	26	26	26	
MPU-	MP-	11	15	N/A	21	22	22	22	22	22	22	
MPU-5	MP5	N/A	16	N/A	22	23	23	23	23	23	23	MAGNETIC PICK UP -
GEN L1 (U) VOLTAGE MONITOR	U	09	17	21	29	34	34	34	34	34	34	MAGNETIC PICK UP SHIELD
GEN L2 (V) VOLTAGE MONITOR	V	N/A	18	22	30	35	35	35	35	35	35	GENERATOR PHASE 1
GEN L3 (W) VOLTAGE MONITOR	W	N/A	19	23	31	36	36	36	36	36	36	GENERATOR PHASE 2
GEN (N) VOLTAGE MONITOR	NG	08	20	24	32	37	37	37	37	37	37	GENERATOR PHASE 3
MAINS L1 (R) VOLTAGE MONITOR	R	N/A	N/A	25	33	38	38	38	38	38	38	MAINS PHASE 1
MAINS L2 (S) VOLTAGE MONITOR	S	N/A	N/A	26	34	39	39	39	39	39	39	MAINS PHASE 2
MAINS L3 (T) VOLTAGE MONITOR	T	N/A	N/A	27	35	40	40	40	40	40	40	MAINS PHASE 3
MAINS (N) VOLTAGE MONITOR	NM	N/A	N/A	28	36	41	41	41	41	41	41	MAINS NEUTRAL
CT (L1)	L1	N/A	N/A	29	37	42	42	42	42	42	42	CURRENT XFMR PHASE 1
CT (L2)	L2	N/A	N/A	30	38	43	43	43	43	43	43	CURRENT XFMR PHASE 2
CT (L3)	L3	N/A	N/A	31	39	44	44	44	44	44	44	CURRENT XFMR PHASE 3
CT COMMON	CT	N/A	N/A	32	41	45	45	45	45	45	45	CURRENT XFMR COMMON

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

DATE: 01/13/17

DRAWN BY: CDEBY

Anderson Industrial Engines

DO NOT SCALE DRAWING

FOR PARTS ARE COMBINATION OF PARTS FROM DIFFERENT DRAWINGS. PLEASE REFER TO THE ORIGINAL DRAWING FOR PARTS IDENTIFICATION.

INDUSTRIAL ENGINES

MI-1294-H

IRIGATION POWER UNIT (SUBS) W/6800 USE WITH DISEASO

REV: C

SHEET 7 OF 7