

SERVICE GUIDE



SERVICE REFERENCE GUIDE

service.multiquip.com



WARNING



CALIFORNIA — Proposition 65 Warning

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: **ALWAYS** work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

IMPORTANT!

Read the operator's manual for safety instructions before you attempt to troubleshoot. Use extreme caution when troubleshooting power equipment. Never start or run power equipment inside a closed area, breathing exhaust fumes can kill.

Basically, a tool is an object that enables you to take advantage of the laws of physics and mechanics in such a way that you can seriously injure yourself.

This service guide is intended to provide basic information for Multiquip equipment.

You must be familiar with the operations of MQ equipment before attempting to troubleshoot or make repairs. Basic operating and maintenance procedures are described in the operation and parts manual supplied with each unit. Use the supplied manual to order replacement parts. If you are missing the operation and parts manual, please contact Multiquip Inc to order a replacement or you may visit our website at service.multiquip.com

For your safety and the safety of others carefully read, understand and observe all instruction described in the operation and parts manual.



Safety precautions should be followed at all times when servicing equipment. Consult operations manual for more safety information



THE INFORMATION CONTAINED ON THIS MANUAL IS BASED ON EQUIPMENT MANUFACTURED UP TO THE TIME OF PUBLICATION. MULTQUIP INC. RESERVES THE RIGHT TO CHANGE ANY PORTION OF THIS INFORMATION WITHOUT NOTICE

CONTENTS

SERVICE REFERENCE

Buggies	5
Chemical Spray System	6
Concrete Pumps	
Hydraulic Swing Tubes	7
Mechanical Ball Valves	8
Generators with DA700SSA2	9
Light Towers	10
Mixer	
Concrete	11
Essick Plaster/Mortar	12
Whiteman Plaster/Mortar	13
Plate Compactor	
One-Way	14
Reversible	15
Rammers	16
Rebar Equipment	17
Rollers	18
Saws	
Flat Saws	19
Tiles and Masonry.....	20
Screeds	21
Trowels	
Ride-On Hydrostatic	22
Ride-On Mechanical	23
Walk-Behind (B's, C's, HDA's, J's).....	24
Walk-Behind (ProTrowels and Electric)	25
Water Pumps	
Centrifugal	26
Diaphragm	27
Trash.....	28
Submersible.....	29
Welders	30
Frequently Used Diagrams	31

For all product references go to our service specific website @ service.multiquip.com
Or call Multiquip Technical Assistance Center (MTAC) 888-861-8992

BUGGIES

	WBH16	WBH16E	WBH16F	WBH16EF
Engine Model	Honda GX390K1QA2	Honda GX390K1QAE2	Honda GX390	Honda GX390
S/N 110401 and up	Honda GX390RT2QTT	Honda GX390RT2QNB2	Honda GX390RT2QTT	Honda GX390RT2QNB2
Horse Power	11.7HP	11.7HP	11.7HP	11.7HP
Engine (RPM) High	3850 No- Load	3850 No- Load	3850 No- Load	3850 No- Load
Engine (RPM) Low	1200 - 1300	1200 - 1300	1200 - 1300	1200 - 1300
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	4.8 gal	4.8 gal	4.8 gal	4.8 gal
Fuel Filter Service	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30
Eng. Oil Capacity	1.16 qt.	1.16 qt.	1.16 qt.	1.16 qt.
Eng. Oil & Filter	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Spark plug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Spark plug gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Eng Compression	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI
Air Filters	50 hrs.	50 hrs.	50 hrs.	50 hrs.
Battery	N/A	Interstate SP-40	N/A	Interstate SP-40
Battery CCA	N/A	340 CCA	N/A	340 CCA
Hyd. Oil / filter service	Every 200 hours			
Hyd. Capacity	5.3 gal. (20.4 Lit)	5.3 gal. (20.4 Lit)	5.3 gal. (20.4 Lit)	5.3 gal. (20.4 Lit)
Hyd. Oil Type	AW46	AW46	AW46	AW46
Hyd. Main PSI	2.250 psi	2.250 psi	2.250 psi	2.250 psi
Hyd. Dump PSI	1000 +/- 50 psi	1000 +/- 50 psi	1000 +/- 50 psi	1000 +/- 50 psi
	WBH16EAWD	WBH16EAWDF	WBH-21EF	
Engine Model	Vanguard	Vanguard	Vanguard	
Horse Power	18Hp	18HP	18HP	
Engine (RPM) High	3850 No- Load	3850 No- Load	3850 No- Load	
Engine (RPM) Low	1200 - 1300	1200 - 1300	1200 - 1300	
Fuel Type	Gasoline	Gasoline	Gasoline	
Fuel Capacity	4.8 gal	4.8 gal	4.8 gal	
Fuel Filter Service	300 hrs.	300 hrs.	300 hrs.	
Eng. Oil Type	SAE10W30	SAE10W30	SAE10W30	
Eng. Oil Capacity	3.52 pt.	3.52 pt.	3.52 pt.	
Eng. Oil & Filter	100 hrs.	100 hrs.	100 hrs.	
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	
Spark plug	RC12YC	RC12YC	RC12YC	
Spark plug gap	.028"-.030"	.028"-.030"	.028"-.030"	
Eng Compression	85-121 PSI	85-121 PSI	85-121 PSI	
Air Filters	50 hrs.	50 hrs.	50 hrs.	
Battery	Interstate SP-40	Interstate SP-40	Interstate SP-40	
Battery CCA	340 CCA	340 CCA	340 CCA	
Hyd. Oil / filter service	Every 200 hours			
Hyd. Capacity	5.3 gal. (20.4 Lit)	5.3 gal. (20.4 Lit)	5.3 gal. (20.4 Lit)	
Hyd. Oil Type	AW46	AW46	AW46	
Hyd. Main PSI	2.250 psi	2.250 psi	2.250 psi	
Hyd. Dump PSI	1000 +/- 50 psi	1000 +/- 50 psi	1000 +/- 50 psi	

CHEMICAL SPRAY SYSTEM

	WSC55	WSC55BM
Engine Model	GX160UT2LX2	GX160UT2LX2
Compressor Model	Schulz MSI 5,2 ML	Schulz MSI 5,2 ML
Horse Power	4.8HP (3.6 kw)	4.8HP (3.6 kw)
Engine (RPM) High	3600	3600
Engine (RPM) Low	1400	1400
Fuel Type	Unleaded 86 octane or higher	Unleaded 86 octane or higher
Fuel Filter P/N	16955ZE100	16955ZE100
Fuel Capacity (Liters)	0.825 gal (3.1)	0.825 gal (3.1)
Fuel Filter Service	100 hrs	100 hrs
Eng. Oil Type	10W30	10W30
Eng. Oil Capacity (Liters)	0.61 qt (0.58)	0.61 qt (0.58)
Eng. Oil Change	50 hrs	50 hrs
Valve Clearance (Cold)	in: .006 - ex: .008	in: .006 - ex: .008
Spark plug	NGKBPR6ES	NGKBPR6ES
Spark plug gap	0.028 – 0.031	0.028 – 0.031
Engine Compression	85 - 121 PSI	85 - 121 PSI
Air Filters (hrs)	50 hrs	50 hrs
Air Filter P/N Engine	17210ZE2515	17210ZE2515
Air Filter P/N Compressor	49269-1	49269-1
Weight lb. (kg)	290 (131)	82 (37)
Flow Rate gpm (liters/min)	9 (34.1)	9 (34.1)
Max. Pressure lb/in ² (kPa)	150 (1034)	150 (1034)
Pump Type	Roller	Roller
Pump Oil (capacity)	0.094 quarts (0.09 liters).	0.094 quarts (0.09 liters).
Pump Oil	SAE 30W or ISO 100	SAE 30W or ISO 100

CONCRETE PUMP-HYDRAULIC SWING TUBES

	LS300P	LS400	LS500	LS600P
Engine Model	Perkins 404D-22TA Turbo	Deutz F4L2011F Turbo	Deutz BF4L2011F Turbo	Perkins 1104D-44TA Turbo
Horse Power	64.2	60	79	108
Engine (RPM)	2400	3000	3000	2200
Fuel Type	#2 Diesel	#2 Diesel	#2 Diesel	#2 Diesel
Fuel Capacity	16 gal	40 gal	40 gal	40 gal
Fuel/Water Separator(s)	Inspect Daily	Inspect Daily	Inspect Daily	Inspect Daily
Fuel Filter (Inline) Service	300 hrs. or 1 Year	300 hrs. or 1 Year	300 hrs. or 1 Year	300 hrs. or 1 Year
Fuel Filter (Inline) Part #	EM20763	EM20763	EM20763	EM20763
Fuel Filter (Secondary) Service	800 hrs.	1000 hrs.	1000 hrs.	500 hrs. or 1 Year
Fuel Filter(s) (Secondary) Part #	34505E & 2651117	01174696 & P53712	01174696 & P53712	26560201 & EM167472
Eng. Oil & Filter Service	250 hrs.	1000 hrs.	500 hrs.	500 hrs. or 1 Year
Eng. Oil Type	10W40 (-13~116°F)	10W40 (-13~116°F)	10W40 (-13~116°F)	10W40 (-13~116°F)
Eng. Oil Capacity	2.4 gal	2.8 gal	2.8 gal	1.8 gal.
Eng. Oil Filter Part #	2654407	1174416	1174416	2654407
Valves Service (Adj.)	1000 hrs.	1000 hrs.	1000 hrs.	1000 hrs.
Valve Clearance (Cold)	Intake (0.008") Exhaust (0.008")	Intake (0.011") Exhaust (0.019")	Intake (0.011") Exhaust (0.019")	Intake (0.008") Exhaust (0.018")
Air Filter Service	Ref. Air Cleaner Service Indicator or 250 hrs.	Ref. Air Cleaner Service Indicator or 1000 hrs.	Ref. Air Cleaner Service Indicator or 1000 hrs.	Ref. Air Cleaner Service Indicator or 500 hrs.
Air Filter (Insert) Part #	26510380	1319257	1319257	26510380
Greasing Points	Lithium Based EP	Lithium Based EP	Lithium Based EP	Lithium Based EP
Lubrication Box	4.5 gal / 30wt motor oil	5.5 gal / 30wt motor oil	5.5 gal / 30wt motor oil	5.5 gal / 30wt motor oil
Hyd. Oil	Shell Oil Tellus 46	Shell Oil Tellus 68	Shell Oil Tellus 68	Shell Oil Tellus 68
Hyd. Oil Qty.	33 gal	50 gal	50 gal	50 gal
Hyd. Oil & Filter Serv.	1000 hrs	1000 hrs	1000 hrs	1000 hrs.
Hyd. Oil Filter (Return) Part #	EM98245	EM98121 s.#~281100 EM98275 s.#281101~	EM98121 s.#~281100 EM98275 s.#281101~	EM98275
Max System Pressure	3100 PSI	4400 PSI	4400 PSI	4400 PSI
Accumulator System Pressure	500 PSI	1750 PSI	1750 PSI	1750 PSI
Accumulator Pressure	500 PSI	1100 PSI	1100 PSI	1100 PSI
Battery	12V BCI Group 27	12V BCI Group 27	12V BCI Group 27	12V BCI Group 27

CONCRETE PUMPS -MECHANICAL BALL VALVE

	C30HDG	C30HDZ
Engine Model	Zenith ZPP416	Deutz D2011L02 T4i Deutz F2L1011F T2
Horse Power	50	30
Engine (RPM)	2750 +/- 50	2550
Fuel Type	Gasoline	#2 Diesel
Fuel Capacity	11 gal.	11 gal.
Fuel Filter (Inline) Service	1000 hrs.	300 hrs.
Fuel Filter (Inline) Part #	ZPPC6304	EM20763
Fuel Filter (Secondary) Service	N/A	1000 hrs.
Fuel Filter (Secondary) Part #	N/A	1174696 Spin-on 34505E Water Separator
Eng. Oil & Filter Service	250 hrs.	High Grade Lube Oil Norm. Oil Consumption 2011 (500 hrs) 1011F (1000 hrs)
Eng. Oil Type	10W30 (-14~104°F)	10W40 (-4~104°F)
Eng. Oil Capacity	3.49 qt.	2011 (6.9 qt.) 1011F (6.9 qt.)
Eng. Oil Filter Part #	2630035502	1174416
Valves Service (Adj.)	N/A	1000 hrs.
Valve Clearance (Cold)	Self-adjusting	Intake (0.011") Exhaust (0.019")
Spark plug	NGK BKR5ES-11	N/A
Spark plug gap	.039" - .043"	N/A
Spark Plug Service	3000 hrs or 12 Months	N/A
Air Filter Service	3000 hrs or 12 Months	Reference Maintenance Indicator or check at 1000 hrs / replace @ 2 yrs.
Air Filter Part #	2E1	2934587
Grease fittings	Lithium Based EP	Lithium Based EP
Lube Box	7 gal. / 30wt. Motor oil	7 gal. / 30wt. Motor oil
Coolant (Ethylene glycol base for aluminum)	50% (None tropical) 40% (Tropical areas)	N/A
Coolant Service	2500 hrs. or 10 Months	N/A
Battery	EM491344	EM491344

GENERATORS

	GA2.5HR / GAC2.5HR	GA3.6HR / GAC3.6HR	GA6HR(S) / GAC6HR(S)
Engine Model	Honda GX160	Honda GX240	Honda GX340-TESSST
Horse Power	5.5	7.9	11
Engine (RPM) High	3750 No Load	3750 No Load	3750 No Load
Engine (RPM) Low	2500	2500	2500
Fuel Type	Gasoline	Gasoline	Gasoline
Fuel Capacity	3.2 gal.	5 gal.	5 gal.
Sediment Cup	Clean 100 hrs or 6 Months		
Fuel Tank & Filter	Clean 100 hrs or 6 Months		
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"
Eng. Oil Type	SAE10W30 (-10~105° F)	SAE10W30 (-10~105° F)	SAE10W30 (-10~105° F)
Eng. Oil Capacity	.63 qt.	1.2 qt.	1.2 qt.
Eng. Oil Service	100 hrs or 6 Months		
Engine Compression	85~121 PSI	85~121 PSI	85~121 PSI
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filters Service	Clean 50 hrs or 3 Months / Replace 300 hrs or Yearly		
Air Filter Part #	17211ZB2000	17211899000	17211899000
		DIESEL POWERD	HIGH CYCLE
	GA9.7HEA/GAC9.7HEA	DA7000SSA2(GH)	GDP5HA
Engine Model	Honda GX630	Kubota Z482	Honda GX340
Horse Power	20.8	12.5	10.7
Engine (RPM) High	3750 No Load	3600	3750 No Load
Engine (RPM) Low	2500	2200	1750
Fuel Type	Gasoline	#2 Diesel Fuel	Gasoline
Fuel Capacity	10 gal.	6.6 gal.	5 gal.
Fuel Strainer Cup Clean	N/A	N/A	100 hrs. or 6 months
Fuel Tank & Filter Clean	N/A	N/A	100 hrs. or 6 months
Fuel filter Element Service	300 hrs. or Yearly	200 hrs. or 2 Years	N/A
Fuel Filter Element Part #	16910Z6L003	1523143560	N/A
Sparkplug Service	300 hrs. or Yearly	N/A	300 hrs. or Yearly
Spark Plug Part #	980795587G	N/A	9807955846
Spark plug	NGK ZFR5F	N/A	NGK BPR6ES
Spark plug Gap	.028"-.031"	N/A	.028"-.031"
Eng. Oil Type	SAE10W30 (-10~105° F)	SAE 10W-30 (-14°~77°+F)	SAE 10W30 (-10~105°F)
Eng. Oil Service	100 hrs. or 6 Months	200 hrs. or 2 Years	100 hrs. or 6 months
Eng. Oil Capacity	1.8 qt	2.64 qt	1.2 qt
Engine Oil Filter Part #	15400RTA004	23725-23	N/A
Coolant capacity	N/A	2.95 quarts	N/A
Spark Arrestor Clean	100 hrs. or 6 Months	N/A	100 hrs. or 6 months
Engine Compression	85-121 PSI	413~469 PSI	85-121 psi
Valve Clearance (Cold)	Intake: .003" Exhaust: .004"	Intake: .005" Exhaust: .007"	Intake: .006" Exhaust: .008"
Air Filters Service	Clean 100 hrs or 6 Months Replace 500 hrs or 2 Years	Check 50 hrs. or 6 months Replace 100 hrs. or Yearly	Clean 50 hrs. or 3 months Replace 300 hrs. or Yearly
Air Filter Part #	17210Z6L010	7000011221	17211899000
Battery	Interstate SP30	Interstate 22F-60	N/A N/A

LIGHT TOWERS

	LT6K	MLTDA72	MLTSDW7
Engine Model	Kohler KDW-1003	Kubota Z482	Kubota Z482
Power Module	N/A	DA7000SSA1	SDW225SSA1
Horse Power	12 hp	12.5 hp	12.5 hp
Engine (RPM)	High 1,800	High 3,600	High 3,600
	Low 1,800	Low 2,200	Low 2,200
Fuel Type	Diesel # 2	Diesel # 2	Diesel # 2
Fuel Capacity	30 gal	30 gal	30 gal
Fuel Filter Service	250 hrs	200 hrs	200 hrs
Fuel Fiter	ED0021752880S	1523143560	1523143560
Fuel Filter W/Water Drain		N/A	N/A
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30
Eng. Oil Capacity	2.5 qt	2.64 qt	2.64 qt
Eng. Oil & Filter Service	250 hrs	200 hrs	200 hrs
Oil Filter Part Number	ED0021752830S	1585332435	7000015214
Coolant capacity	5.18 qt	2.95 qt	2.95 qt
Air Filters Service Interval	100 hrs	50 hrs	50 hrs
Air Filter Part Number	ED0021751640S	7000011221	7000011221
Valve Clearance (Cold)	.0078" Both Sides	.0057"-.0073" Both Sides	.0057"-.0073" Both Sides
Battery Group	Interstate 22F-60	Interstate 22F-60	Interstate 22F-60
Run Time @ 3/4 Load	64 hrs	48 hrs	48 hrs
Flood Lights, Metal Halide	1,000 watt	1,000 watt	1,000 watt
Lumens	440,000	440,000	440,000
Sound Level @ 23 ft.	73 dB	65.7 dB	68.7 dB
Max Tow Height	32 ft	30 ft	30 ft
Wind Stability with Genset	65 mph	72 mph	72 mph
Weight Dry	1,610 lbs	1,644 lbs lbs	1,744 lbs
Bulb Part Number	MVR1000BT37	MVR1000BT37	MVR1000BT37

MIXERS -CONCRETE

Gasoline Mixers					
	MC44H	MC64H5	MC64H8	MC94H8	MC12PH
Engine Model	Honda GX120	Honda GX160	Honda GX240	Honda GX240	Honda GX340
Horse Power	3.8	4.8	7.9	7.9	10.7
Engine (RPM)	3600	3600	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	.65 gal.	.95 gal.	1.5 gal.	1.5 gal.	1.5 gal.
Fuel Screen Service	300 hrs.	300 hrs.	300 hrs.	300 hrs.	300 hrs.
Fuel Filter #	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30
Eng. Oil Capacity	.61 qt.	.61 qt.	1.16qt.	1.16 qt.	1.16 qt.
Eng. Oil Service	100 hrs.	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI
Valve Clearance (cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filters	Service Weekly	Service Weekly	Service Weekly	Service Weekly	Service Weekly
Air Cleaner Element	17210ZE1517	17210ZE1517	17210ZE2515	17210ZE2515	17210ZE3505
Electric Mixers					
	MC44E	MC64E	MC94E	MC3EA	
Electric Motor	Baldor	Baldor 35L2295302	Baldor 35L2295302	Ganfon	
Horse Power	0.5	1.5	1.5	3.4	
Motor (rpm)	1725	1725	1725	3450	
Voltage (V)	115 V	115/230V	115/230V	115V	
Phase	1	1	1	1	
Starting Amps @ 115V	27	54	54	25	
Running Amps @ 115V	9	18	18	8.4	
Starting Amps @ 230V	N/A	27	27	N/A	
Running Amps @ 230V	N/A	9	9	N/A	

MIXERS -ESSICK PLASTER/MORTAR

Gasoline Mixers						
	EM70SH5	EM70SH8	EM90SH8	EM120MH11	PRO12	EM12M
Engine Model	Honda GX160	Honda GX340	Honda GX240	Honda GX270	Honda GX390	Honda GX340
Horse Power	5.5	8	8	9.5	9	11.7
Engine (RPM)	3600	3600	3600	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	.95 gal.	1.5 gal.	1.5 gal.	1.5 gal.	5.0 gal	1.61 gal
Fuel Strainer Service	300 hrs.	300 hrs.	300 hrs.	300hrs.	300hrs.	300hrs.
Fuel Filter#	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01	EM20763	EM20763
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30	SAE10W30	SAE10W30	SAE10W30
Eng. Oil Capacity	.61 qt.	1.16 qt.	1.16 qt.	1.16qt.	1.16qt.	1.16qt.
Eng. Oil Service	100 hrs.	100 hrs.	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Eng. Compression	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI
Valve Clearance (Cold)	Intake: .003" Exhaust: .004"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake .006" Exhaust .008"
Air Filters	Service weekly	Service weekly	Service weekly	Service weekly	Service weekly	Service weekly
Air Cleaner Element	17210ZE1517	17210ZE2515	17210ZE2515	17210ZE2515	17210ZE3505	17210ZE3505
Hydraulic Oil	N/A	N/A	N/A	N/A	Tellus 46 - 12 gln	N/A
Gearbox Oil	N/A	N/A	N/A	90 wt.	N/A	SAE 90wt
Clutch Oil	N/A	N/A	N/A	30 wt.	N/A	SAE 30wt
Bearing Grease	40 hrs.	40 hrs.	40 hrs.	40 hrs.	40 hrs.	40 hrs.
Electric Mixers						
	EM70SE	EM90SE	EM12 ME51	EM12ME53	PRO12E51	PROE53-460V
Electric Motor	Baldor 35L2295302	Baldor	Baldor	Baldor	Teco Westinghouse	Teco Westinghouse
Horse Power	1.5	3	5	5	5	5
Motor rpm	1725	1140	1140	1140	1745	1725
Voltage (V)	115/230V	230V	230V	230/460V	230V	460V
Phase	1 Ø	1 Ø	1 Ø	3 Ø	1 Ø	3 Ø

MIXERS -WHITEMAN PLASTER/MORTAR

Gasoline Mixers						
	WM45H	WM63 H5	WM63 H8	WM70 H5	WM70 / WM90H8	WM120 HHD
Engine Model	Honda GX160	Honda GX160	Honda GX240	Honda GX160	Honda GX240	Honda GX390
Horse Power	4.8	4.8	7.9	4.8	7.9	13
Engine (RPM)	3600	3600	3600	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	.95 gal	.95 gal	1.5 gal	.95 gal.	1.5 gal.	1.6 gal.
Fuel Strainer Service	300 hrs.	300 hrs.	300 hrs.	300 hrs.	300 hrs.	300 hrs.
Fuel Filter #	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01	17672ZE2W01
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30	SAE10W30
Eng. Oil Capacity	.61 qt.	.61 qt.	1.16 qt.	.61 qt.	1.16 qt.	1.16 qt.
Eng. Oil Service	100 hrs.	100 hrs.	100 hrs	100 hrs.	100 hrs.	100 hrs.
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Eng. Compression	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI	85-121PSI
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filters	Service weekly	Service weekly	Service weekly	Service weekly	Service weekly	Service weekly
Air Cleaner Element#	17210ZE1517	17210ZE1517	17210ZE2515	17210ZE1517	17210ZE2515	17210ZE3505
Hydraulic Oil						12 gallon (AW46)
Hydraulic Oil Filter#						8051
Hydraulic Inline Filter#						13210
Electric Mixers						
	WM45E	WM63 E	WM70 E	WM90 E	WM120 E51D	WM120 E53D
Electric Motor	Baldor 35S772T980G1	Baldor 35L2295302	Baldor 35L2295302	Baldor	Marathon	Marathon
Horse Power	1	1.5	1.5	3	5	5
Motor rpm	1725	1725	1725	1140	1725	1750
Voltage (V)	115/230V	115/230V	115/230V	115/230V	230V	230/460V
Phase	1	1	1	1	1	3
Starting Amps @ 115V	37	54	54			
Running Amps @ 115V	12.3	18	18	34		
Starting Amps @ 230V	24	27	27			
Running Amps @ 230V	6.2	9	9	17	23	13.4
Starting Amps @ 460V						
Running Amps @ 460V						6.7
Hydraulic Oil					12 gallon (AW46)	12 gallon (AW46)
Hydraulic Oil Filter #					8051	8051
Hydraulic Inline Filter #					13210	13210

PLATE COMPACTOR -ONE WAY

	MVC64VH	MVC82VH	MVC88VGH	MVC90VH
Engine Model	Honda GX120	Honda GX 160	Honda GX 160	Honda GX 160
Horse Power	4	4.8	4.8	4.8
Engine RPM	3600	3600	3600	3600
Fuel Type	Gasoline			
Fuel Capacity	.6 gal.	0.95	0.95	0.95
Fuel Strainer Service	300 hrs.	300 Hrs.	300 Hrs.	300 Hrs.
Eng. Oil Type	SAE 10W30			
Eng. Oil Capacity	.6 qt.	.6 Qt.	.6 Qt.	.6 Qt.
Eng. Oil Service	100 hrs.			
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85-121 PSI	85-121 PSI	85-121 PSI	85-121 PSI
Valve Clearance (Cold)	Intake: .003"- .005"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filters M Q P/N's	17210ZE0821	17210ZE1517	17210ZE517	7210ZE1517S
Exciter Oil	SAE 10W30			
Exciter Oil Qty.	Fill to oil plug level			
Exciter Oil Service	200 hrs.			

PLATE COMPACTOR -REVERSIBLE

	MVH120VGH / 128GH	MVH158GH	MVH208GH	MVH308GH
Engine Model	Honda GX160	Honda GX200	Honda GX240	Honda GX270
Horse Power	5.5 HP	5.5 HP	7.1 HP	8.5 HP
Engine (RPM)	3600	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	0.8 Gal.	0.82 Gal.	1.4 Gal.	1.4 Gal.
Sediment Cup	Clean 100 hrs or 6 Months			
Fuel Tank & Filter	Clean 100 Hrs. or 6 Months			
Eng. Oil Type	SAE10W30 (-10~105° F)	SAE10W30(-10~105° F)	SAE10W30(-10~105°F)	SAE10W30 (-10~105°F)
Eng. Oil Capacity	0.61 Qt.	0.63 Qt.	1.2 Qt.	1.2 Qt.
Eng. Oil Service	100 Hrs. or 6 Months			
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85-121 PSI	51 PSI	85-121 PSI	85-121 PSI
Valve Clearance (Cold)	Intake: .006" Ex: .008"	Intake: .006" Ex: .008"	Intake: .006" Ex: .008"	Intake: .006" Ex: .008"
Air Filters MQ P/N's	17218ZE1505	17218ZE1505	17210ZE3505	17210ZE3505
Exciter Oil	SAE 10W30			
Exciter Oil Qty.	Fill to Between Lines on Dipstick			
Exciter Oil Service	300 hrs.			
Selector valve Oil	Shell Tellus #46 Hyd. Oil			
	MVH308DZ	MVH408GH	MVH408DZ	MVH508DZ
Engine Model	Hatz 1B30	Honda GX390	Hatz 1B50T	Hatz 1D81S
Horse Power	6.6 HP	11.7 HP	9 HP	11.9 HP
Engine (RPM)	3300	3600	2500	2500
Fuel Type	Diesel # 2	Gasoline	Diesel #2	Diesel # 2
Fuel Capacity	1.4 Gal.	1.4 Gal.	1.4 Gal.	1.8 gal.
Fuel Strainer Cup svc.	N/A	100 Hrs or Yearly	N/A	N/A
Fuel Strainer (in Tank) svc.	N/A	300 Hrs.or Yearly	N/A	N/A
Fuel Filter (in tank) svc.	500 hrs	N/A	500 hrs	N/A
Fuel Filter (in-line) svc.	N/A	N/A	N/A	500 hrs.
Fuel Tank Water Trap	N/A	N/A	N/A	Check Weekly
Eng. Oil Type	SAE10W30 (-13~95° F)	SAE10W30 (-5~85° F)	SAE10W30 (-13~95° F)	SAE10W30 (-13~95° F)
Eng. Oil Capacity	1.16 Qt.	1.16 Qt.	1.58 Qt.	2 qt.
Eng. Oil Service	250 hrs	100 Hrs. or 6 Months	250 hrs	250 hrs
Eng. Oil Filter	1000 hrs (Cleaning)	N/A	1000 hrs (Cleaning)	250 hrs (Replace)
Oil Suction Filter MQ P/N	01542704	N/A	01542703	N/A
Oil Filter MQ P/N	N/A	N/A	N/A	01480001
Sparkplug	N/A	NGK BPR6ES	N/A	N/A
Sparkplug Gap	N/A	.028"-.031"	N/A	N/A
Engine Compression	Good 380~500 PSI Limit 280 PSI	85~121 PSI	Good 380~500 PSI Limit 280 PSI	Good 380~500 PSI Limit 280 PSI
Valve Clearance (cold)	Intake .004" Ex .004"	Intake .006" Ex .008"	Intake .004" Ex .004"	Intake: .004" Ex: .008"
Air Filter MQ P/N	50426000	17210ZE3505	50484100	01493000
Exciter Oil	SAE 10W30			
Exciter Oil Qty.	Fill to Between Lines on Dipstick			
Exciter Oil Service	300 hrs.			
Battery (Interstate)	MT85		N/A	MT85
Selector valve Oil	AW46 Hyd. Oil			

RAMMERS

	MTR40HF	MTX50HD	MTX60HD	MTX70HD
Engine Model	Honda GX100	Honda GX100	Honda GX100	Honda GX100
Horse Power	2.8 hp	2.8 hp	2.8 hp	2.8 hp
Engine (RPM)	4100	4100	4100	4100
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	.6 gal	.6 gal	.6 gal	.6 gal
Eng. oil Type	SAE 30	SAE 30	SAE 30	SAE 30
Eng. oil Capacity	.3 qt (10oz)	.3 qt (10oz)	.3 qt (10oz)	.3 qt (10oz)
Engine oil Service	100 hours	100 hours	100 hours	100 hours
Spark Plug	NGK CR5HSB	NGK CR5HSB	NGK CR5HSB	NGK CR5HSB
Spark Plug Gap	.024 - .028	.024 - .028	.024 - .028	.024 - .028
Engine Compression	71 psi	71 psi	71 psi	71 psi
Valve Clearance (Cold)	Intake: .006"	Intake: .006"	Intake: .006"	Intake: .006"
	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"
Air Filters 1 & 2	Part # 362030030 Part # 17211ZL8023	1 Filter Part # 959021814 2 Filter Part # 366120410	1 Filter Part # 959021814 2 Filter Part # 366120410	1 Filter Part # 959021814 2 Filter Part # 366120410
Foot Assy. Oil Bath	n/a (grease)	100 hours	100 hours	100 hours
Oil Bath Capacity	n/a (grease)	1.7 pints (800 cc.)	1.7 pints (800 cc.)	1.7 pints (800 cc.)
Oil Bath Service	n/a (grease)	200 hrs	200 hrs	200 hrs
Operating weight	101 lb.	126 lb.	141 lb.	165 lb.
	MTX70HDR	MTX80HDR		
Engine Model	Honda GXR120	Honda GXR120		
Horse Power	3.6 hp	3.6 hp		
Engine RPM	4100	4100		
Fuel Type	Gasoline	Gasoline		
Fuel Capacity	.6 gal	.6 gal		
Eng. oil Type	SAE 30	SAE 30		
Eng. oil Capacity	.4 qt (12oz)	.4 qt (12oz)		
Engine oil Service	100 hours	100 hours		
Spark Plug	NGK CR5HSB	NGK CR5HSB		
Spark Plug Gap	.024 - .028	.024 - .028		
Engine Compression	71 psi	71 psi		
Valve Clearance (Cold)	Intake: .006"	Intake: .006"		
	Exhaust: .008"	Exhaust: .008"		
Air Filters 1 & 2	1 Filter Part # 959021814 2 Filter Part # 366120410	1 Filter Part # 959021814 2 Filter Part # 366120410		
Foot Assy. Oil Bath	100 hours	100 hours		
Oil Bath Capacity	1.7 pints (800 cc.)	1.7 pints (800 cc.)		
Oil Bath Service	200 hrs	200 hrs		
Operating weight	165 lb.	181 lb.		

REBAR EQUIPMENT

REBAR CUTTERS				
	HBC19A	HBC19B	HBC25A	HBC25B
Hydraulic Oil	Shell Tellus Oil #46	Shell Tellus Oil #46	Shell Tellus Oil #32	Shell Tellus Oil #32
Hydraulic Oil Qty.	5 oz.	5 oz.	5 oz.	5 oz.
Voltage	120V	120V	120V	120V
Hertz	60	60	60	60
Phase	1	1	1	1
Amps	11	11	13	13
Brushes Part number	6415730	6415730	6402510	6402510
Intermediate Grade 40 70,000 psi	# 6, size 3/4", 19mm	# 6, size 3/4", 19mm	# 8, size 1", 25mm	# 8, size 1", 25mm
Hard Grade 50 80,000 psi	# 6, size 3/4", 19mm	# 6, size 3/4", 19mm	# 8, size 1", 25mm	# 8, size 1", 25mm
High Tensile Strength 60 90,000 psi	# 6, size 3/4", 19mm	# 6, size 3/4", 19mm	# 8, size 1", 25mm	# 8, size 1", 25mm
REBAR BENDERS				
	MB25A			
Voltage	115V			
Hertz	60			
Phase	1			
Amps	13			
Brushes Part number	6402510			
Capacity	Ø6(1/4") - Ø25(1") No.2 - No.8			
Range of Bend	0° - 180°			

ROLLERS

	R2000H	AR14H	RX1515	RX1575
Engine Model	Honda GX240	Honda GX630	Hatz 2G40	YANMAR 3TNV76
Horse Power	7.5	20.8	18.5	20.4
Engine (RPM)	3600	3250	2600	2460
Fuel Type	Gasoline	Gasoline	Diesel	Diesel
Fuel Capacity	1.5 gal.	9.5 gal.	5.9 gal	7.4 gal
Fuel Filter Service	300 hrs.	300 hrs.	200 hrs	250 hrs
Sparkplug	NGK BPR6ES	NGK ZGR5A	N/A	N/A
Sparkplug Gap	.028"-.031"	.028"-.031"	N/A	N/A
Eng. Oil Type	10W30	10W30	10W30	10W40
Eng. Oil Capacity	1.1 qt.	2.0 qt.	3.17 qt	3.6 qt
Eng. Oil & Filter Ser.	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Eng. Compression	85-121 PSI	85-121 PSI	50 -60 PSI	498 +/- 15 PSI
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .010" Exhaust: .010"	Intake: .006" Exhaust: .010"
Air Filters M Q P/N's	17210ZE2822	1701ZJ1000	3-69217,3-69228	1224448
Exciter Bearing Grease / Oil	N/A	N/A	N/A	N/a
Exciter Grease Service	N/A	N/A	N/A	N/A
Hyd. Oil	N/A	ISO 46	ISO 46	ISO 46
Hyd. Oil Qty.	N/A	5.7 gal.	15.9 gal	4.2 gal
Hyd. Oil & Filter	N/A	1000 hrs.	500 hrs	500 hrs
Steering PSI	30 wt.	700 PSI	N/A	67 +/- 8 Bar
Vibration PSI	N/A	900-1,500 PSI	N/A	220 +/- 10 Bar
Drive PSI	N/A	2,900 PSI	N/A	330 +/- 15 bar
Battery	Interstate SP22NF	GROUP 42 R	N/A	EA770
dB(A)			109	
	Discontinued		Discontinued	
	MRH601DS	MRH800GS2	V304EH	V305EH
Engine Model	Kubota EA-330-E3	Honda GX390	Honda GX340	Honda GX340
Horse Power	13 HP@ 3600 RPM	13 HP@ 3600 RPM	11 HP@ 3600 RPM	11 HP@ 3600 RPM
Engine (RPM)	3600	3600	2650	3100
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	1.2 gal	1.2 gal	1.59 gal	1.6gal
Fuel Filter Service	200 hrs	200 hrs	200 hrs	200 hrs
Eng. Oil Type	SAE 10W30	SAE 10W30	SAE 10W30	SAE 10W30
Eng. Oil Capacity	1.3 qt	1.3 qt	1.1 qt	1.1 qt
Eng. Oil Service	50 to 100 hrs.	50 to 100 hrs.	50 to 100 hrs.	50 to 100 hrs.
Valve Clearance (Cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filters M Q P/N's	MQ 172107E3010	MQ 172107E3010	17210ZE3505	17210ZE3505
Exctr.Oil Repl. 10W30				
	300 Hrs.	300 Hrs.	N/A	N/A
Grease Service	Weekly	Weekly	Weekly	Weekly
Hyd. Oil	ISO VG 32	ISO VG 32	N/A	N/A
Hyd. Oil Qty.	25 Liters	25 Liters	N/A	N/A
Hyd. Oil Filter	954001380	954001380	N/A	N/A
Hyd. Oil Service	1000 to 1500 Hrs.	1000 to 1500 Hrs.	N/A	N/A
Coolant	N/A	N/A	N/A	N/A

SAW -FLAT SAW

	SP1G	SP118	SP15E16
Engine Model	Honda GX200	Honda GX390	Baldor - 36G664W957G1
Horse Power	6.4	11.7	5
Engine (RPM)	3,600	3,600	3,450
Fuel Type	Gasoline	Gasoline	n/a
Fuel Capacity	.95 gal.	1.72 gal	n/a
Fuel Filter Service	300 hrs.	300 hrs.	n/a
Fuel Filter #	16955ZE1000	16955ZE1000	n/a
Eng. Oil Type	SAE 10W30	SAE10W30	n/a
Eng. Oil Capacity	.6 qt.	1.1 Qt.	n/a
Eng. Oil Service	100 hrs.	100 hrs.	n/a
Sparkplug	NGK BPR6ES	NGK BPR6ES	n/a
Sparkplug Gap	.028"-.031"	.028"-.031"	n/a
Engine Compression	85-121 PSI	85-121 PSI	n/a
Valve Clearance (cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	n/a
Air Filter Service	100hrs	100hrs	n/a
Air Filter #	17210ZE2515	17210ZE3505	n/a
Phase	n/a	n/a	1Ø
Voltage & Hertz	n/a	n/a	230V ~ 60Hz
Starting Amps @ 230V	n/a	n/a	59
Running Amps @ 230V	n/a	n/a	19.5
Receptical Type	n/a	n/a	L6-30P Twist Lock
	SP213H20A	SP2S13H20A	SP2S20H
Engine Model	Honda GX390	Honda GX390	Honda GX630
Horse Power	13	13	20.8
Engine (RPM)	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline
Fuel Capacity	1.6 gal.	1.72 gal.	2.20 gal.
Fuel Filter Service	300 hrs.	300 hrs.	300 hrs.
Fuel Filter #	16955ZE1000	16955ZE1000	16910Z6L003
Eng. Oil Type	SAE10W30	SAE10W30	SAE 10W30
Eng. Oil Capacity	1.1 Qt.	1.1 Qt.	2.1 Qt.
Eng. Oil Service	100 hrs.	100 hrs.	100 hrs.
Sparkplug	NGK BPR6ES	NGK BPR6ES	NGK BPR6ES
Sparkplug Gap	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85-121 PSI	85-121 PSI	85-121 PSI
Valve Clearance (cold)	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Air Filter Service	100hrs	100hrs	100hrs

SAWS -TILES AND MASONRY

	TP7X	TP24	TP24X		
Voltage	115	115	115		
Hertz	50/60hZ	50/60hZ	60hZ		
H.P.	1	2	1.5		
Amps @ full load	15	13	15		
Blade Shaft RPM	6,000	3,000	3,450		
Blade shaft bearing	Water Cooled	Water Cooled	Water Cooled		
Arbor size	5/8"	5/8"	5/8"		
Max depth of Cut	1 3/4"	2 7/8"	2 7/8"		
Straight Cut	17"	24"	24"		
Diagonal Cut	12"	16"	18"		
MASONRY SAWS (ELECTRIC)					
Motor (HP) & (Phase)	1.5 / 1Ø	2.0 / 1Ø	5 / 1Ø	5 / 3Ø	3 / 1Ø
Voltage & Hertz	115/230V 60hZ	115/230V 60hZ	230V / 60hZ	230V / 60hZ	115V / 50-60hZ
Starting Amps @ 115V	@52	@51			15
Running Amps @ 115V	17.2	16.8			15
Starting Amps @ 230V	@26	@26	@36	@36	
Running Amps @ 230V	8.6	8.4	12.0	12.0	
MASONRY SAWS (GAS)					
Engine Model	HONDA GX160	HONDA GX270			
Horse Power	4.8	8.5			
Engine (RPM)	3,600	3,600			
Fuel Type	Gasoline	Gasoline			
Fuel Capacity	.095 Gal	1.4 Gals.			
Fuel Screen Service	100 hours	Cyclone Filtration			
Eng. Oil Type	see Engine Manual	see Engine Manual			
Eng. Oil Capacity	.63 Qt.	1.16 Qts.			
Eng. Oil Service	see Engine Manual	Inspect daily - 100hrs.			
Sparkplug	BPR6ES (NGK)	BPR6ES (NGK)			
Sparkplug Gap	.07 - .08 mm	.07 - .08 mm			
Engine Compression	8.0 : 1	8.0 : 1			
Valve Clearance (cold)	Intake 0.006 - Exhaust 0.008	.006 / .008			
Air Filters	Inspect daily - 100 hrs	17210ZE3505			

SCREEDS

	DSGPULW	WSHE-9	WSHE-11	WRS5200
Engine Model	Honda GX35	Honda GX270	Honda GX340	Kubota-WG972GL-E3
Horse Power	1.3HP	9HP	11HP	32.5HP
Engine (RPM)	7000	3600	3600	3600
Fuel Type	Gasoline	Gasoline	Gasoline	Gas & Liquid Propane
Fuel Capacity	.172 gal.	1.95 gal.	1.95 gal.	Gas-10 gal. LPG-33.5lb.
Fuel Filter Service	100 hrs.	300 hrs.	300 hrs.	300 hrs.
Fuel Filter P/N (LPG)	17672ZM3003	16955ZE100	16955ZE100	1258143012 - LPG (42185)
Eng. Oil Type	SAE10W30	SAE10W30	SAE10W30	SAE10W30
Eng. Oil Capacity	.11 qt.	1.06 qt.	1.06 qt.	3.6 qt.
Eng. Oil & Filter	50 hrs.	100 hrs.	100 hrs.	100 hrs.
Valve Clearance (Cold)	Intake: .003" Exhaust: .004"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"	Intake: .006" Exhaust: .008"
Spark plug P/N	NGKCR5HSB	NGK BPR6ES	NGK BPR6ES	E915167710
Spark plug gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85-121 PSI	85-121 PSI	85-121 PSI	TBD
Air Filters	50 hrs.	Service weekly	Service weekly	100 hrs.
Air Filter P/N	17211Z0Z000	17210ZE2515	17210ZE3505	1G65911222
Battery	N/A	N/A	N/A	12v 52 AH
MQ- Battery Part Number	N/A	N/A	N/A	404006
Hydraulic Oil Type	N/A	ISO46	ISO46	ISO46
Hydraulic oil Tank Capacity	N/A	1/2 gal per side	1/2 gal per side	5 gal.
Hydraulic Flow Rate	N/A	N/A	N/A	17 gpm
Hydraulic PSI	N/A	N/A	N/A	2000 psi.
Bearing luberication	N/A	Daily	Daily	Per daily usage
Type of Grease	Red lithium	Red lithium	Red lithium	Red lithium

TROWELS -RIDE-ON HYDROSTATIC

	HTXD6i	STXD6i	HTX6H	STX6H	EHTX44Y5 (Export)
Engine Model	4THV84T	4THV84T	4H50TIC	4H50TIC	3TNV84T - BKSA
Horse Power	55	55	70	70	44
Engine High (RPM)	2800	2800	2050	2050	2800
Fuel Type	#2 Diesel	#2 Diesel	#2 Diesel	#2 Diesel	#2 Diesel
Fuel Capacity (liters)	11 Gal (41.64)	11 Gal (41.64)	10 Gal (37.85)	20 Gal (75.70)	11 Gal (41.64)
Fuel Filter (HRS)	Every 500 operating hours or when indicate,at least every 2 years				
Fuel Filter	11980255801	11980255801	42602-15 (Pre) 42602-18 (Main)		119802-5580
Eng. Oil Type	15w-40	15w-40	15w-40	15w-40	15w-40
Eng. Oil Capacity	7.08 Qts	7.08 Qts	6.62 Qts	6.62 Qts	7.08 US qt. (6.7 liter)
Eng. Oil Service	250 Hrs	250 Hrs	50hr,after that change every 500		250 Hrs
Eng. Oil Filter	12915035153	12915035153	42602-68	42602-68	129150-35152
Coolant	50/50 Eth. Glycol	50/50 Eth. Glycol	Dexcool or long life coolant only		50/50 Eth. Glycol
Air Filter (HRS)	Every 500 operating hours or when indicated,at least every 2 years				
Air Filter Part P/N	PMAF25436	PMAF25436	42702-1		PMAF25436
Hydraulic oil	Parker Duraclean™ ISO 46 - MQ Part # 60082 5gal container				
Hydraulic oil qty.	5.5 Gal	7.0 Gal	8 Gal (30)	8 Gal (30)	7.0 gal. (26.5 liters)
Hydraulic Filter Type	10 Mic. Absolute	10 Mic. Absolute	10 Mic. Absolute	10 Mic. Absolute	10 Mic. Absolute
Hydraulic Filter P/N (cross)	22371 (P165875)	22371 (P165875)	42615-1 (HP) - 42616-1 (MED)		21107
Hydraulic oil service	2000 Hrs				
Hydraulic Charge (PSI)	300 +/- 25	300 +/- 25	400 +/- 25	400 +/- 30	300 +/- 25
Hydraulic Steering (PSI)	235 +/-10 (Hot)	290 +/- 10 (Hot)	260 +/-10 (Hot)	290 +/- 10 (Hot)	235 +/-10 (Hot)
Hydraulic Pitch (PSI)	1850 +/- 50	1850 +/- 50	1900 +/-100	1850 +/- 50	1850 +/- 50
Rotor (RPM)	0-160	0-130	10-160	10-130	0-160
Lube Points	Arms/Thrust Collar - Service Daily				
Battery	12V-64 AH	12V-64AH	Sealed,Group 34M - 12V		12V-64 AH
Battery Part P/N	Optima- 8022-091	Optima- 8022-091	MQ # 404006	MQ # 404006	Optima- 8022-091
HTXG6DF					
Engine Model	PSI 2.4L				
Horse Power	68				
Engine High (RPM)	2800				
Fuel Type	Gasoline / Propane HD-5 or HD-10				
Spark Plug (Gap)	Torch, DK7RTC-1401 (gap .035)				
Fuel Capacity	Gasoline 11 Gal / Propane 33.5 lbs				
Fuel Filter (HRS)	Gas-LPG Change every 200 hrs				
Fuel Filter (LPG)	Gas - 42009-03 LPG - (42322)				
Eng. Oil Type	10w30,5w30				
Eng. Oil Capacity	4.75 Qts				
Eng. Oil Service	250 Hrs				
Eng. Oil Filter	42009-25				
Coolant	Delo Elc (Red)				
Air Filter (HRS)	500				
Air Filter Part P/N	42037				
Hydraulic oil	Parker Duraclean™ ISO 46				
Hydraulic oil qty.	8.0 Gal				
Hydraulic Filter Type	10 Mic. Absolute				
Hydraulic Filter P/N	High psi 42127-1 Mid psi 32433-1				
Hydraulic oil service	250 Hrs				
Hydraulic Charge (PSI)	300 +/- 25				
Hydraulic Steering (PSI)	235 +/-10 (Hot)				
Hydraulic Pitch (PSI)	1850 +/- 50				
Rotor (RPM)	0-160				
Lube Points	Arms/Thrust Collar - Service Daily				
Battery	12V-64 AH				
Battery Part P/N	Optima- 8022-091				

TROWELS -RIDE-ON MECHANICAL

	HNG5	HHXDF5	HTN27K	JWN24HT	HNK5 (Export)
Engine Model	613477	WG972	CH740	GX690RH	KDW1404
Horse Power	35	31	27	24	35
Engine (RPM)	3550	3850	3850	3850	3600
Fuel Type (LPG)	Gasoline	Gasoline or (LPG)	Gasoline	Gasoline	Diesel # 2
Fuel Capacity	7.0 gal	10 gal - (33.5lbs)	5.0 gal	5.0 gal	7.5 gal (28.4 Liters)
Fuel Filter (HRS)	300 Hrs	300 Hrs	300 Hrs	300 Hrs	200 Hrs
Fuel Filter P/N	691035 & 845125	23725-16	691035 & 845125	16910Z6L003	ED0021752880-S
Air Filter (HRS)	500 Hrs	500 Hrs	100 Hrs	500 Hrs	100 Hrs
Air Filter P/N (Pre)	692519 (692520)	23725-14	2408303S (2408305S)	17210Z6L010	2175164
Eng. Oil Type	10w-30	10w-30	10w-30	10w-30	10W-40
Eng. Oil Capacity	2.5 Qts	3.6 Qts	1.75 Qts	1.6 Qts	3.5 Qts (3.3 Liters)
Eng. Oil Service	100 Hrs	100 Hrs	100 Hrs	100 Hrs	200 Hrs
Eng. Oil Filter P/N	842921	23725-23	5205002S	15400PLMA01PE	ED0021752850-S
Coolant	Air- Cooled	50/50 Eth. Glycol (Green)	Air- Cooled	Air- Cooled	50/50 Eth. Glycol (Green)
Spark Plug P/N	Q16PRU11	NGK BKR4E	1213202-S	980795587G	Not Used
Sparkplug gap	0.029 - 0.030	0.024 to 0.027	0.029 - 0.030	0.029 - 0.030	Not Used
Valve Adj. (Cold)	0.005	0.005 to 0.007	N/A	0.006 - 0.008	0.008 In and Ex (0.20mm)
Hydraulic Oil	Not Used	Duraclean ISO 46	Not Used	Not Used	Not Used
Hydraulic Oil qty.	Not Used	0.1 Gal - (0.35L)	Not Used	Not Used	Not Used
Hydraulic Filter Type	Not Used	10 Mic Absolute	Not Used	Not Used	Not Used
Hydraulic Filter P/N	Not Used	23275-02	Not Used	Not Used	Not Used
Steering PSI	Not Used	150 to 300 psi	Not Used	Not Used	Not Used
Gearbox oil	ISO 220 AGMA	ISO 220 AGMA	CETUS Hyp 460	CETUS Hyp 460	CETUS Hyp 460
Gearbox oil qty Each	1 Gal	1 Gal	69 oz	64 oz	144 oz (4.26 Liters)
Gearbox/Hyd Service	Service at 250 Hours				
Rotor (RPM)	0-180	0-180	40-140	40-180	0-180
Lube Points	Arms and Thrust Collar - Service Daily				
Battery Part P/N	10315 Group 24	404006 Group 34M	8022-091 Optima	4671 Group U1	10315 Group 24

TROWELS -WALK BEHIND (B's, C's, HDA's; J's)

4 Cycle Gasoline Powered					
	B46H90	BH11C / B46H11H	BS90C / B46S90	CA4HC / CA4HM	HDA48413H
Engine Model	Honda GX270	Honda GX340	Subaru EX 27	Honda GX120	Honda GX390
Horse Power	8.5HP	10.7HP	9HP	3.5HP	11.7HP
Engine RPM High - (Idle)	3900 +/- 150 (1400)	3900 +/- 150 (1400)	3800 +/- 100 (1400)	3900 +/- 150 (1400)	3900 +/- 150 (1400)
Fuel Filter #	16955ZE100	16955ZE100	X50-51200-20	16955ZE100	16955ZE100
Fuel Type	Gasoline	Gasoline	Gasoline	Gasoline	Gasoline
Fuel Capacity	1.4 gal	1.6 gal	1.6 gal	0.53 gal.	1.6 gal.
Fuel filter	100 hrs.	100 hrs.	100 hrs.	100 hrs.	100 hrs.
Eng. oil Type	10W30	10W30	10W30	10W30	10W30
Eng. oil Capacity	1.16 qt	1.16 qt	1 qt	.63 qt.	1.16 qt.
Engine oil Service	100 hrs.				
Spark Plug	NGKBPR6ES	NGKBPR6ES	NGKBR6HS	NGKBPR6ES	NGKBPR6ES
Spark Plug Gap	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"	.028"-.031"
Engine Compression	85 ~ 121 PSI at 600 RPM				
Valve Clearance (Cold)	Intake: .006"	Intake: .006"	Intake: .004"	Intake: .006"	Intake: .006"
	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"
Air Filters (HRS)	50	50	50	50	50 hrs
Air Filter P/N	17210ZE2515	17210ZE3505	2793260718	17210ZE0505	17210ZE2505
Gearbox Oil	Chevron Cetus Hipersyn 460 • MQ Part # 20111 24oz • MQ Part # 23991 1/2gal				
Gearbox Oil Qty.	26oz	26oz	26oz	27.oz	57.oz
Blade (RPM)	60-130	90-155 w/ opt 60-130	60-130	70-130	35-180
	J36H90 / JH90C / J36H90H	J36S60 / JS60C	J36H55 / JH55C		
Engine Model	Honda GX270	Subaru EX17	Honda GX160		
Horse Power	8.4 hp	5.7 hp	4.8 hp		
Engine RPM High - (Idle)	3900 +/- 150 (1400)	3800 +/- 100 (1400)	3900 +/- 150 (1400)		
Fuel Filter #	16955ZE100	20A0640200	16955ZE100		
Fuel Capacity	1.4 gal.	.95 gal.	.95 gal.		
Fuel filter (in tank)	100 hrs.	100 hrs.	100 hrs.		
Eng. oil Type	10W30	10W30	10W30		
Eng. oil Capacity	1.16 qt.	.63 qt.	.63 qt.		
Engine oil Service	100 hrs.	100 hrs.	100 hrs.		
Spark Plug	NGKBPR6ES	NGKBR6HS	NGKBPR6ES		
Spark Plug Gap	.028"-.031"	.028"-.031"	.028"-.031"		
Engine Compression	85 ~ 121 PSI				
Valve Clearance (Cold)	Intake: .006"	Intake: .004"	Intake: .006"		
	Exhaust: .008"	Exhaust: .008"	Exhaust: .008"		
Air Filters (hrs)	50 hrs	50 hrs	50 hrs		
Air Filter P/N	17210ZE2515	20A3263600	17210ZE1517		
Gearbox Oil	Chevron Cetus Hipersyn 460 - MQ Part # 20111 24oz - MQ Part # 23991 1/2gal				
Gearbox Oil Qty.	28.oz	28.oz	28.oz		
Blade (RPM)	90-155	60-115	60-115		

TROWELS -WALK BEHIND (ProTrowels and Electric)

ProTrowels			
	PRO36	PRO46	
Engine Model	Honda GX270	Honda GX340	
Horse Power	8.4 hp	10.7 hp	
Engine RPM High - (Idle)	3900 +/- 150 (1400)	3900 +/- 150 (1400)	
Fuel Filter #	16955ZE100	16955ZE100	
Fuel Type	Gasoline	Gasoline	
Fuel Capacity	1.4 gal.	1.6 gal	
Fuel filter	100 hrs.	100 hrs.	
Eng. oil Type	10W30	10W30	
Eng. oil Capacity	1.16 qt.	1.16 qt.	
Engine oil Service			
Spark Plug	NGKBPR6ES	NGKBPR6ES	
Spark Plug Gap	.028"-.031"	.028"-.031"	
Engine Compression			
Valve Clearance (Cold)	Intake: .006"	Intake: .006"	
	Exhaust: .008"	Exhaust: .008"	
Air Filters (HRS)	50 hrs	50 hrs	
Air Filter P/N	17210ZE2515	17210ZE2515	
Gearbox Oil			
Gearbox Oil Qty.	57.oz	57.oz	
Blade (RPM)	60-115	60-130	
Trowels -Electric Powered			
	E41E	J42E	J36E2
Horse Power		2 hp	
Motor (RPM)		3450	
Electric Voltage	115V	115V / 230V	115V / 230V
Hertz / Phase		60 Hz • 1Ø	
Starting Amps	54	54 (115v)- 27(230v)	54 (115v)- 27(230v)
Running Amps	18	18 / (9)	18 / (9)
Gearbox Oil	Chevron Cetus Hipersyn 460 - MQ Part # 20111 24oz - MQ Part # 23991 1/2gal		
Gearbox Oil Qty.		22 oz	
Blade (RPM)	55	93	30-160

WATER PUMPS -CENTRIFUGAL

	QP2H	QP303H	QP402H
Engine Model	Honda GX120	Honda GX160	Honda GX240
Horse Power	4	5.5	8
Engine (RPM)	3600	3600	3600
Fuel Type	Gasoline		
Fuel Capacity	.6 gal.	.95 gal.	1.5 gal.
Fuel filter (in tank)	Clean strainer 300 hrs.		
Spark plug	NGKBPR6ES		
Spark plug Gap	.028"-.031"	.028"-.031"	.028"-.031"
Eng. Oil Type	SAE10W30		
Eng. Oil Capacity	.6 qt.	.6 qt.	1.1 qt.
Eng. Oil Service	100 hrs.		
Eng. Compression	85-121 PSI		
Valve Clearance (Cold)	Intake .006"		
	Exhaust .008"		
Air Filters Part #	17210ZE0822	17210ZE1505	1720ZE2822
Impeller Clearance	.005" - .010"		
Impeller & Volute Service	Inspect and check vacuum after each rental service as required.		
Mechanical Seal	Replace when water leaks from weep hole		
Gearbox Oil Type	N/A		
Gearbox Oil Capacity	N/A		
Gearbox Oil Service	N/A		
High Pressure			
	QP205SH	QP205SLT	QP305SLT
Engine Model	Honda GX160	Honda GX240	Honda GX340
Horse Power	5.5	8	11
Engine (RPM)	3600		
Fuel Type	Gasoline		
Fuel Capacity	3.8 Qts.	1.5 gal.	1.5 gal.
Fuel filter Service	Clean strainer 300 hrs.		
Sparkplug	NGKBPR6ES	NGKBPR6ES	NGKB6HS
Sparkplug Gap	.028"-.031"		
Eng. Oil Type	SAE10W30		
Eng. Oil Capacity	.6 qt.	1.1 qt.	1.1 qt.
Eng. Oil Service	100 hrs.		
Eng. Compression	85-121 PSI		
Valve Clearance (Cold)	Intake .006"		
	Exhaust .008"		
Air Filters Part #	17210ZE1505	17210ZE2822	17210ZE3010
Impeller & volute Clearance	.005" - .010"		
Impeller & Volute Service	Inspect and check vacuum after each rental service as required.		
Mechanical Seal	Replace when water leaks from weep hole		

WATER PUMPS -DIAPHRAGM

	MQD2H	MQD3H
Engine Model	Honda GX120	Honda GX120
Horse Power	4	
Engine (RPM)	2800	
Fuel Type	Gasoline	
Fuel Capacity	.6 gal.	
Fuel filter (in tank)	Clean strainer 300 hrs.	
Spark plug	NGKBPR6ES	
Spark plug Gap	.028"-.031"	

WATER PUMPS -TRASH

Gas Powered						
	QP2TH	QP3TE	QP3TH	QP4TH		
Engine Model	Honda GX160	Robin EX270D	Honda GX240	Honda GX340		
Horse Power	5.5	9	8	11		
Engine (RPM)	3600	3600	3600	3600		
Fuel Type	Gasoline	No. 2 Diesel	Gasoline	Gasoline		
Fuel Capacity	.95 gal.	.95 gal.	1.5 gal.	1.5 gal.		
Fuel filter (in tank)	Clean strainer 300 hrs.		Clean strainer 300 hrs.	300 hrs.		
Sparkplug	NGKBPR6ES	NGKBR6HS	NGKBPR6ES	NGKB6HS		
Sparkplug Gap	.028"-.031"		.028"-.031"	.028"-.031"		
Eng. Oil Type	SAE10W30					
Eng. Oil Capacity	.6 qt.	1.1 qt.	1.1 qt.	1.1 qt.		
Eng. Oil Service	100 hrs.					
Engine Compression	85-121 PSI					
Valve Clearance (Cold)	Intake .006"					
	Exhaust .008"					
Air Filters M Q P/N's	17210ZE0505	11425012581	17210ZE2505	17210ZE3505		
Impeller Clearance	.005" - .010"					
Impeller & Volute Service	Inspect and check vacuum after each rental service as required.					
Mechanical Seal	Replace when water leaks from weep hole					
Diesel Powered						
	QP2TZ	QP3TZ	QP4TZ	MQ62TDD	MQ600TD80	MQ600TH
Engine Model	Hatz 1B20	Hatz 1B30	Hatz 1B40	Deutz F2L2011L04I	Deutz F4D914	Hatz 4H50
Horse Power	4.6	6.8	9.9	29	60	74.5
Engine (RPM)	3600	3600	3600	2800	1900	2000
Fuel Type	Diesel # 2	Diesel # 2	Diesel # 2	Diesel # 2	Diesel # 2	Diesel # 2
Fuel Capacity	1.3 gal.	1.3 gal.	1.3 gal.	16 gal.	40 gal.	40 gal.
Fuel filter Service	500 hrs.			1000 hrs.	1000 hrs.	
Engine Oil Type	SAE 10W30			SAE10W30	SAE10W30	
Engine Oil Capacity	.5 qt.	.5 qt.	.8 qt.	10 qt.	13 qt.	
Engine Oil Service	Change oil at 250 hrs			500 hrs.	500 hrs.	
Engine Oil Filter Service	Clean oil filter screen at 1000 hrs.			500 hrs.	500 hrs.	
Valve Clearance (Cold)	Intake .007"	Intake .007"	Intake .003"	Intake .011"	Intake .006"	
	Exhaust .007"	Exhaust .007"	Exhaust .003"	Exhaust .019"	Exhaust .006"	
Air Filters MQ P/N	50426000	50426000	50484100	Oil bath clean every 500 hours		
Impeller & Volute Clear.	.005" - .010"			.005"-.010"	.010" -.020"	.010" -.020"
Impeller Clearance	.004					
Rear Wear Plate Clearance						.010
Impeller & Volute Serv.	Inspect and check vacuum after each rental service as required.					
Mechanical Seal	Replace when water leaks from weep hole			as needed	as needed	
Mechanical Seal Oil Bath	N/A	N/A	N/A	1 3/4 Cup 30wt.	Fill to top 30wt.	
Bearing Housing Oil	N/A					
Battery	N/A	N/A	Interstate SP22NF	0165306531	0165306531	0165306531

WATER PUMP -SUBMERSIBLE

Clean-Water						
	Yellow Sub	SS233	ST2037 / F	ST2038P	ST3020BCUL	ST2047
Voltage	120	120	120	120	230	120
Phase	1	1	1	1	1	1
Horse Power	0.25	0.5	1	1	2	1
Starting Amps	11.5	30	34.5	56	52	49
Running Amps	2.3	6	6.9	8	10.5	9.8
RPM	3550					
Impeller clearance	.012" ~ .020"					
Mech Seal Oil Service	1000 hrs.	1000 hrs.	1000 hrs.			
Mech Seal Oil	Turbo 32 or 10W Hydraulic oil		Turbo 32 or 10W Hydraulic oil			
GPM	33	60	60	73	87	145
Total Head	20	30	38	37	47	66
Clean-Water Three Phase						
	ST3050D	ST41230 ST41460	ST61230 ST61460			
Voltage	230/460	230/460	230/460			
Phase	3	3	3			
Horse Power	5	10	15			
Starting Amps	77 (230V) 39 (460V)	172.2 (230V) 85.8 (460V)	258 (230V) 129.108 (460V)			
Running Amps	14.2 (230V) 7.1 (460V)	28.6 (230V) 14.3 (460V)	43 (230V) 21.5 (460V)			
RPM	3550	3600				
Impeller clearance	.012" ~ .020"	.012" ~ .020"	.012" ~ .020"			
Mech Seal Oil Service	1000 hrs.	1000 hrs.	1000 hrs.			
Mech Seal Oil	Turbo 32 or 10W Hydraulic oil					
GPM	270	423	674			
Total Head	86	138	105			
2" Electrical Submersible Trash Pumps						
	PX400	ST2040T / F				
Voltage	120	120				
Phase	1	1				
Horse Power	0.5	1				
Starting Amps	18.4	25				
Running Amps	6.2	6.9				
RPM	3390					
Impeller clearance	.012" ~ .020"					
Mech Seal Oil Service	1000 hrs.					
Mech Seal Oil	Turbo 32 or 10W Hydraulic oil					
GPM	72	73				
Total Head	34	37				

WELDERS

Gas Powered					
	GAW135H	GAW180HEA			
Engine Model	Honda GX200	Honda GX340			
Horse Power	5.5	9.5~10.7			
Engine (RPM)	High 3750	High 3750			
	Low 2500	Low 2500			
Fuel Type	Gasoline	Gasoline			
Fuel Capacity	1.85 gal.	3.7 gal.			
Sediment Cup Clean	100 hrs. or 6 months				
Fuel Tank and Filter Clean	100 hrs. or 6 months				
Sparkplug	NGK BPR6ES				
Sparkplug Gap	.028"-.031"				
Eng. Oil and filter Service	100 hrs. or 6 months				
Eng. Oil Type	SAE 10W-30	(10°~110°F)			
Eng. Oil Capacity	.6 qt.	1.2 qt.			
Coolant capacity	N/A				
Engine Compression	51 PSI	85-121 PSI			
Valve Clearance (Cold)	Intake: .006", Exhaust: .008"				
Air Filter	Clean at 50 hrs. or 3 months Replace at 300 hrs. or annually				
Battery	N/A				
Diesel Powered					
	DLW330X2	SDW225SSA1	DLW300ESA1	DLW400ESA4	DAW500SA4
Engine Model	Kubota D902-E4B	Kubota Z482	Kubota D722	Kubota D902	Kubota D1803
Horse Power	24	12	18.8	24	35.1
Engine (RPM)	High 3600	High 3600	High 3600	High 3600	High 2700
	Low 2300		Low 2400	Low 2300	Low 2050
Fuel Type	Diesel # 2	Diesel # 2	Diesel # 2	Diesel # 2	Diesel # 2
Fuel Capacity	9.51 gal.	6.6 gal.	9.5 gal.	11.1 gal	11.9 gal.
Sediment Cup Clean	N/A				
Fuel Tank and Filter Clean	N/A				
Sparkplug	N/A				
Sparkplug Gap	N/A				
Engine Oil and Filter Service	200 hrs	200 hrs	200 hrs	200 hrs	400 hrs
Engine Oil Type	SAE 10W-30 (-18°~95°F)	SAE 10W-30 (32°~77°F)	SAE 10W-30 (32°~77°F)	SAE 10W-30 (-14°~90°F)	SAE 10W-30 (14°~77°F)
Engine Oil Capacity	3.8 qt.	2.64 qt.	3.96 qt.	3.8 qt.	5.9 qt.
Coolant capacity	3.64 qt.	2.28 qt.	2.6 qt.	4.49 qt.	7.5 qt.
Engine Compression	512~583 PSI Limit 370 PSI	412~469 PSI Limit 327 PSI	412~469 PSI Limit 327 PSI	512~583 PSI Limit 370 PSI	
Valve Clearance (Cold)	Intake & Exhaust .0057"~.0073"	Intake & Exhaust .0057"-.0073"	Intake & Exhaust .0057"-.0073"	Intake & Exhaust .0057"-.0073"	Both .0071"-.0087"
Air Filter	Clean at 100 hrs. Replace at 600 hrs or annually	Clean at 100 hrs. Replace at 600 hrs or annually	Clean at 100 hrs. Replace at 600 hrs or annually	Clean at 100 hrs. Replace at 600 hrs or annually	Clean at 250 hrs. Replace annually
Battery	Yuasa 55B24L	38B20R	Yuasa 55B24L	Yuasa 55B24L	80D25R

FREQUENTLY USED DIAGRAMS

Buggies

WBH-16 Series (Hydraulic and Wiring)	32-33
WBH-16/WBH-16E s/n 100401 & UP (Hydraulic)	34
WBH-16EAWD (Hydraulic and Wiring).....	35-37
WBH-21EF (Hydraulic and Wiring).....	38-39

Concrete Pumps

LS300P (Hydraulic and Wiring)	40-44
LS400/LS500 (Hydraulic and Wiring)	45-48
LS600P (Hydraulic and Wiring)	49-53
C30HDG (Wiring)	54
C30HDG (Zenith Wiring)	55
C30HDNI (Zenith Wiring).....	56
C30HDZ (Wiring).....	57

Gas Generators (GA-Series)

GA2.5HR	58
GAC2.5HR.....	59
GA3.6HR	60
GAC3.6HR.....	61
GA6HR	62
GA6HRS.....	63
GAC6HR.....	64
GA6HRS.....	65
GA9.7HEA (S/N 5681188 and Below)	66
GA9.7HEA (S/N 5681189 and Above)	67

DA7000SSA2/SSA2GH (Generator Wiring)

DA7000SSA2/SSA2GH (Engine Wiring Diagram)

GDP5HA.....

Light Towers

LT6K (Panel Light/Hour Meter Wiring).....	71
LT6K (Generator/Lights).....	72-74
MLT.....	75-77

Rollers

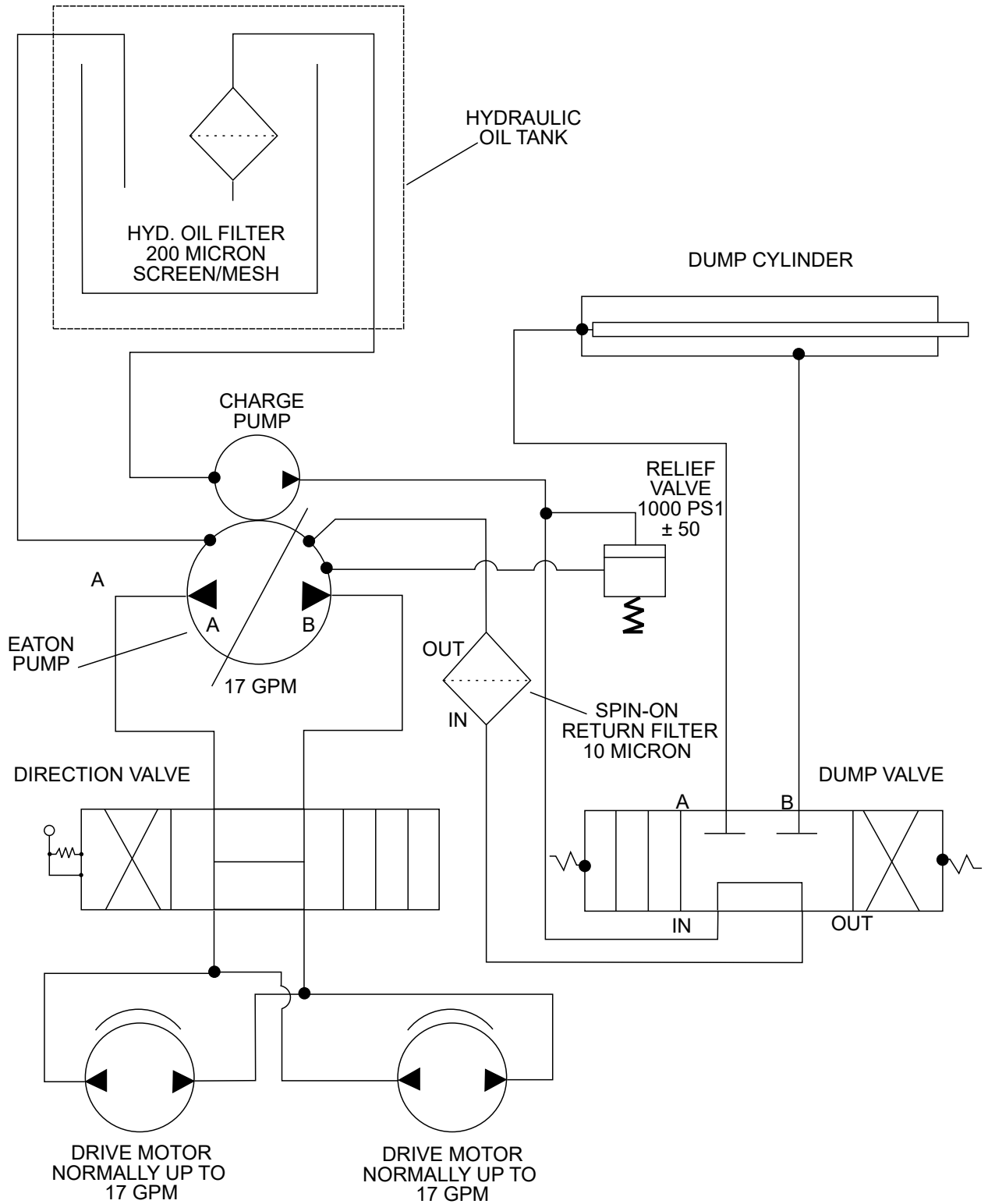
AR14H (Hydraulic and Wiring).....	78-79
RX1575 (Hydraulic and Wiring).....	80-81
MRH601DS (Wiring only)	82

Ride-On Trowels

HHNG5 (Wiring)	83
JWN (Wiring)	84-85
EHTX44Y5 (Hydraulic)	86

For all product references go to our service specific website @ service.multiquip.com
Or call Multiquip Technical Assistance Center (MTAC) 888-861-8992

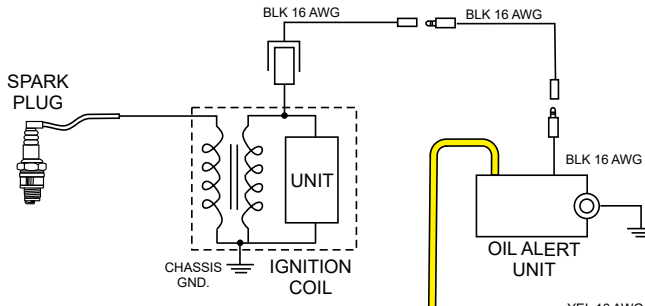
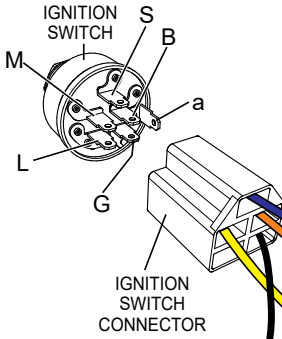
HYDRAULIC SYSTEM DIAGRAM



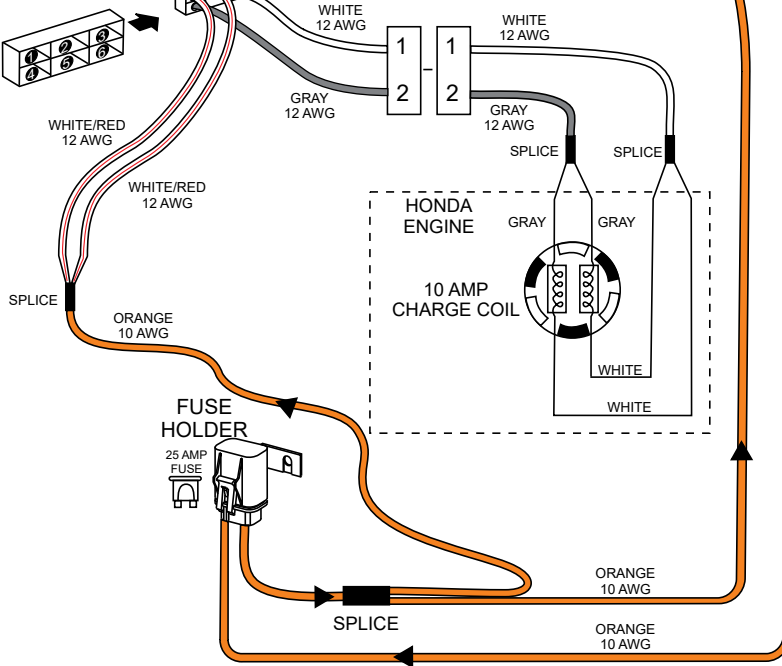
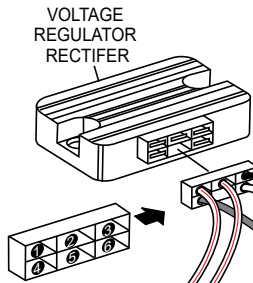
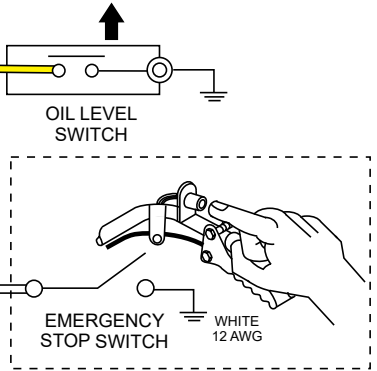
WBH-16 SERIES POWER BUGGY • REV.#0 (08/17/17)

WIRING DIAGRAM

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
OFF	G+M+A
RUN	B+L+A
START	B+L+S

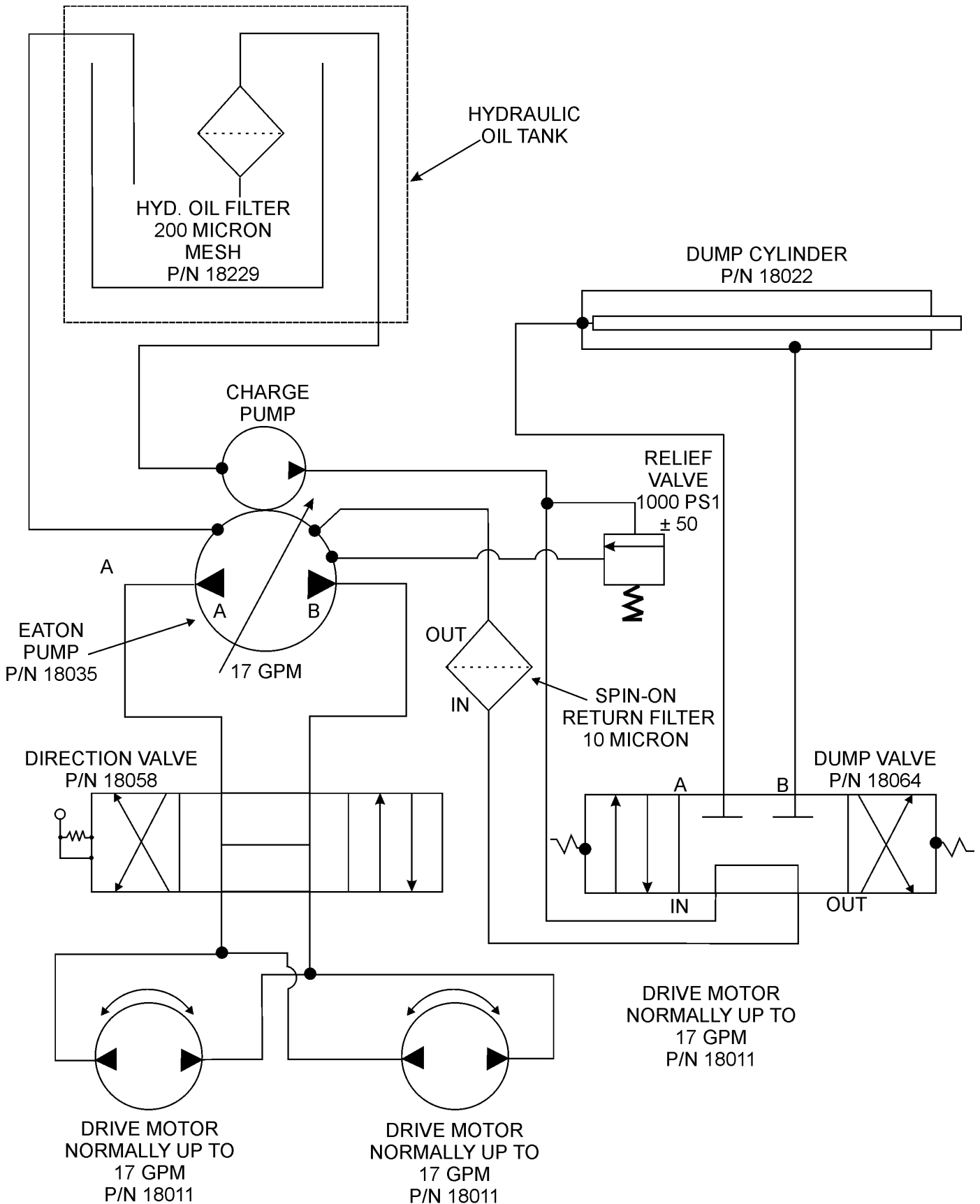


OIL LEVEL SWITCH		
OIL LEVEL	SWITCH POSITION	ENGINE
NORMAL	OPEN	RUN
LOW LEVEL	CLOSED	OFF

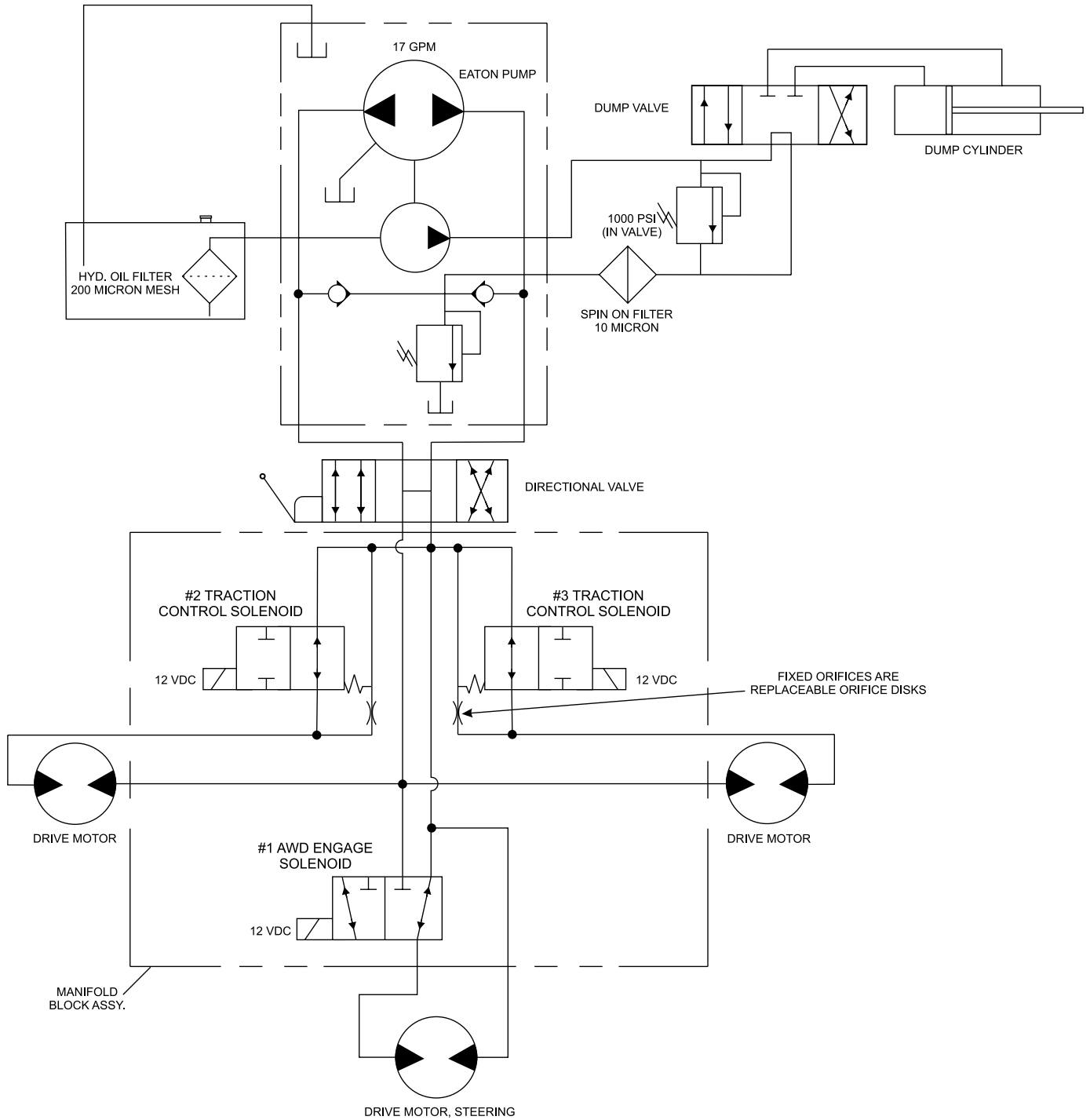


ARROW ► INDICATES FLOW

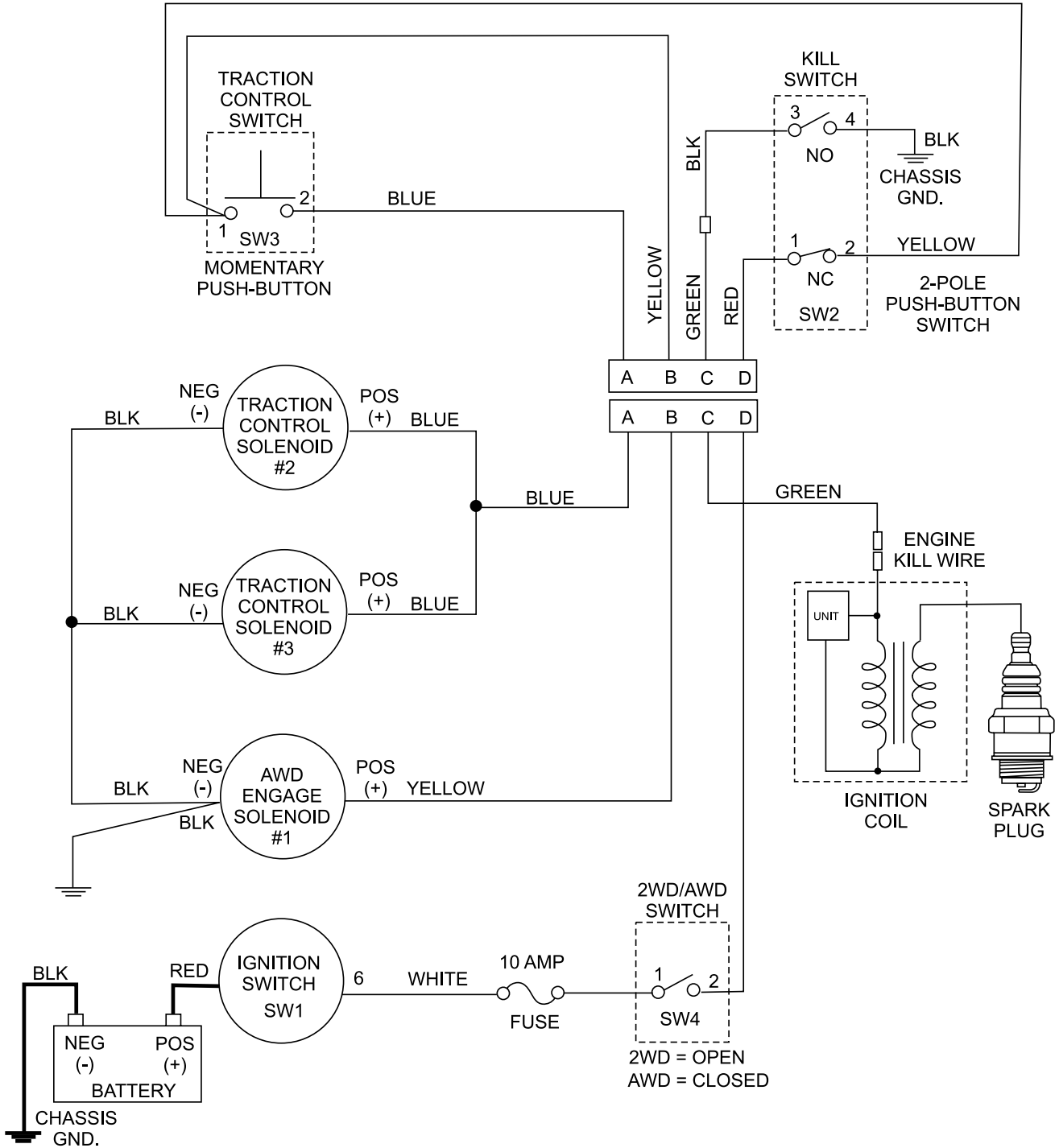
HYDRAULIC SYSTEM DIAGRAM



HYDRAULIC SYSTEM DIAGRAM



TRACTION ASSIST WIRING DIAGRAM

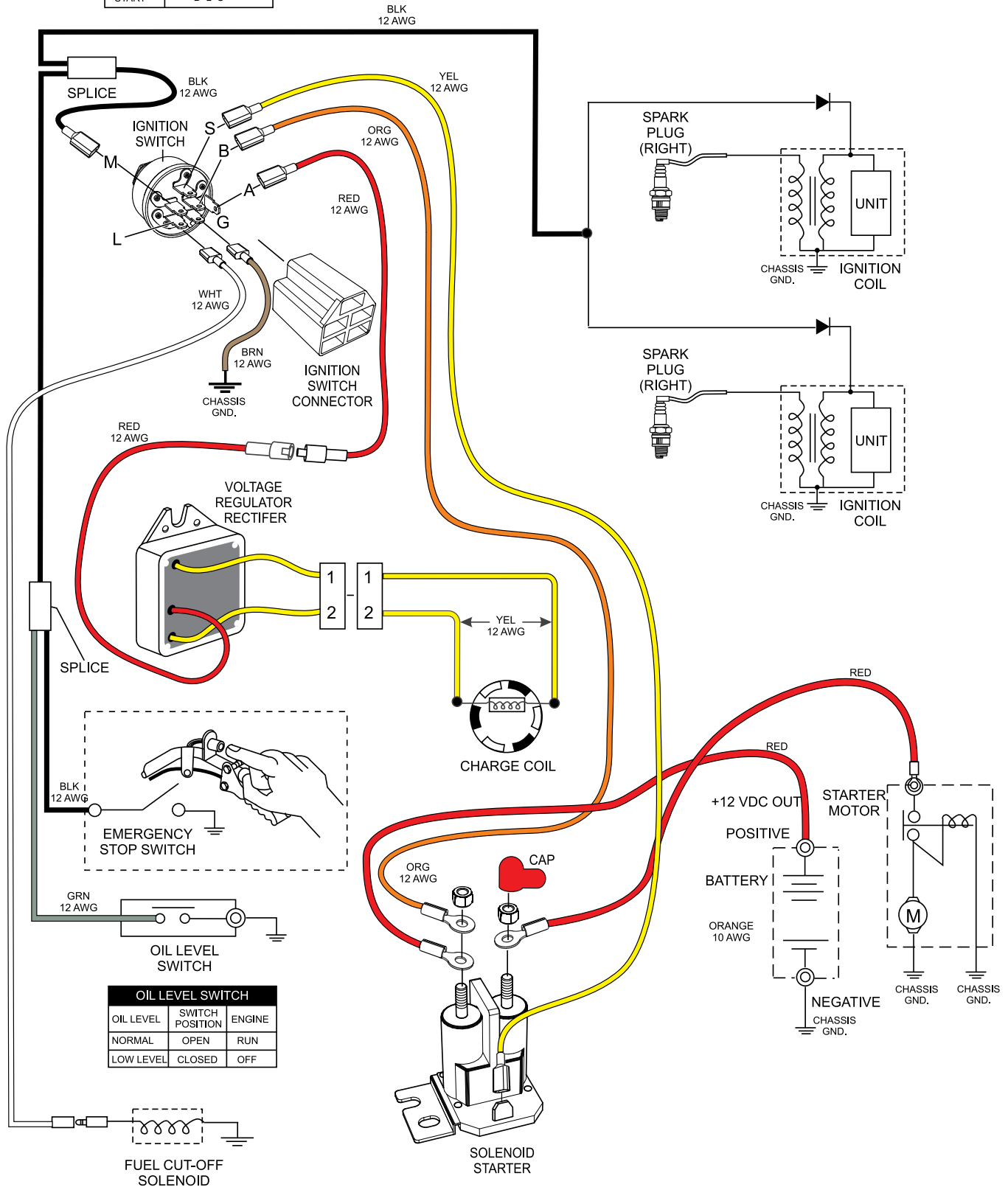


NOTES:

1. WHEN 2WD/AWD SWITCH(SW4) IS OPEN, UNIT WILL OPERATE IN 2WD MODE ONLY.
2. WHEN 2WD/AWD SWITCH IS PLACED IN THE AWD POSITION (CLOSED), +12VDC WILL BE SUPPLIED TO THE AWD SOLENOID #1 AND TO THE TRACTION CONTROL MOMENTARY PUSH-BUTTON SWITCH (SW3). NOTE KILL SWITCH MUST BE IN THE PULLED- OUT POSITION (CONTACTS 1 AND 2 CLOSED)
3. PRESSING THE TRACTION CONTROL MOMENTARY SWITCH (SW3) WILL ACTIVATE TRACTION CONTROL SOLENOIDS 2 AND 3.
4. ALL WIRES ARE 12 AWG. UNLESS OTHERWISE SPECIFIED

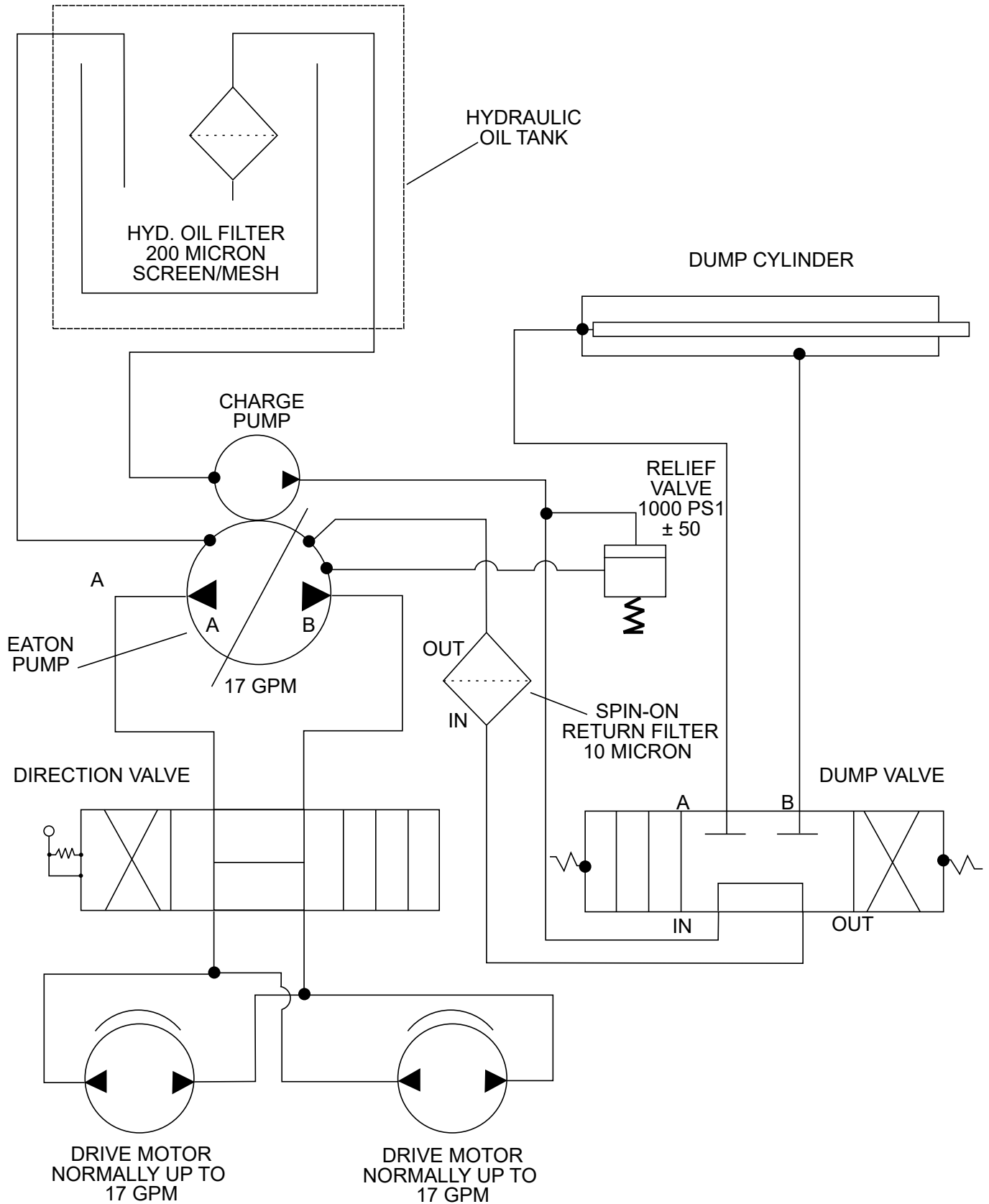
WIRING DIAGRAM (ENGINE)

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
OFF	G+M+A
RUN	B+L+A
START	B+L+S



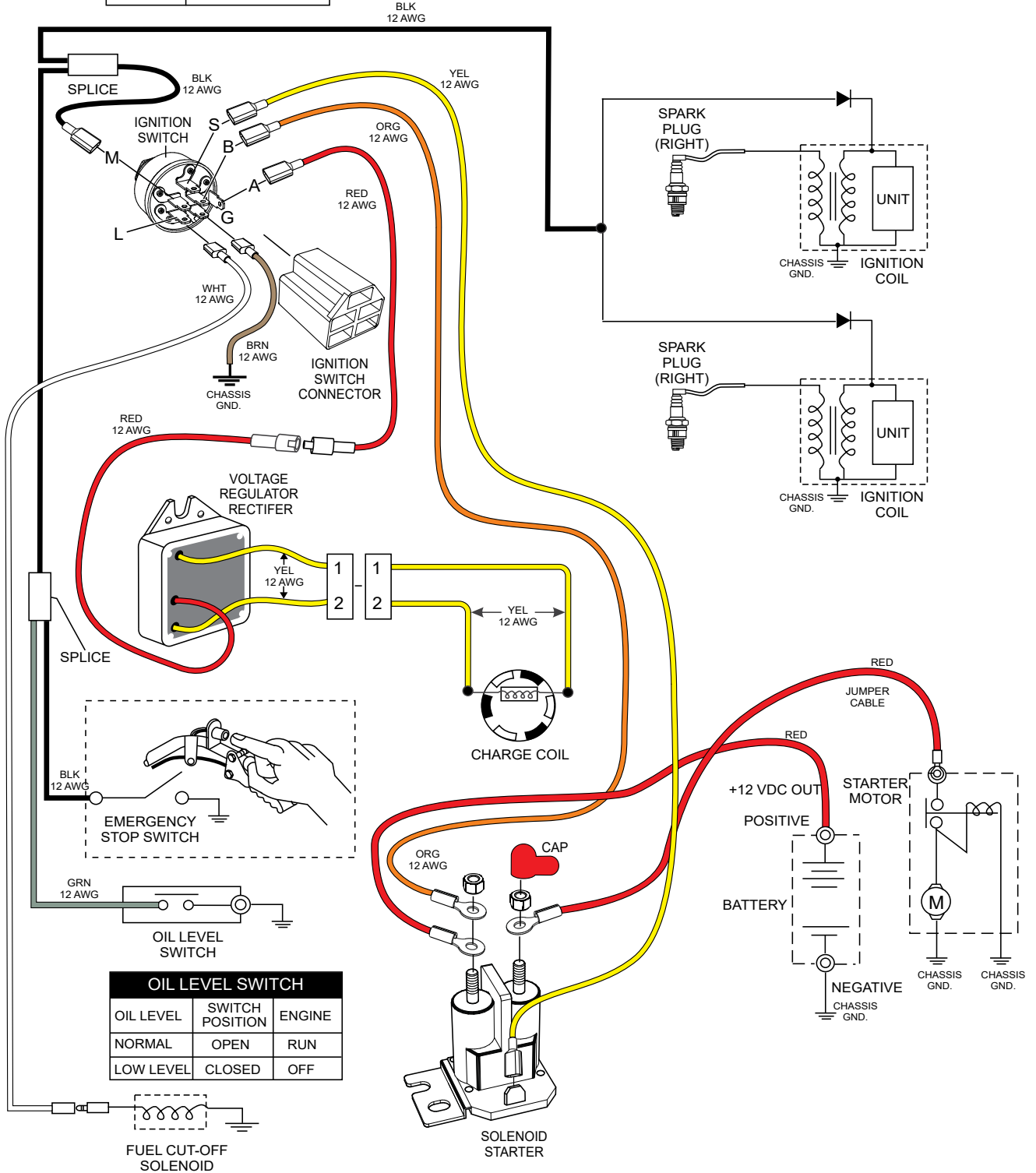
OIL LEVEL SWITCH		
OIL LEVEL	SWITCH POSITION	ENGINE
NORMAL	OPEN	RUN
LOW LEVEL	CLOSED	OFF

HYDRAULIC SYSTEM DIAGRAM



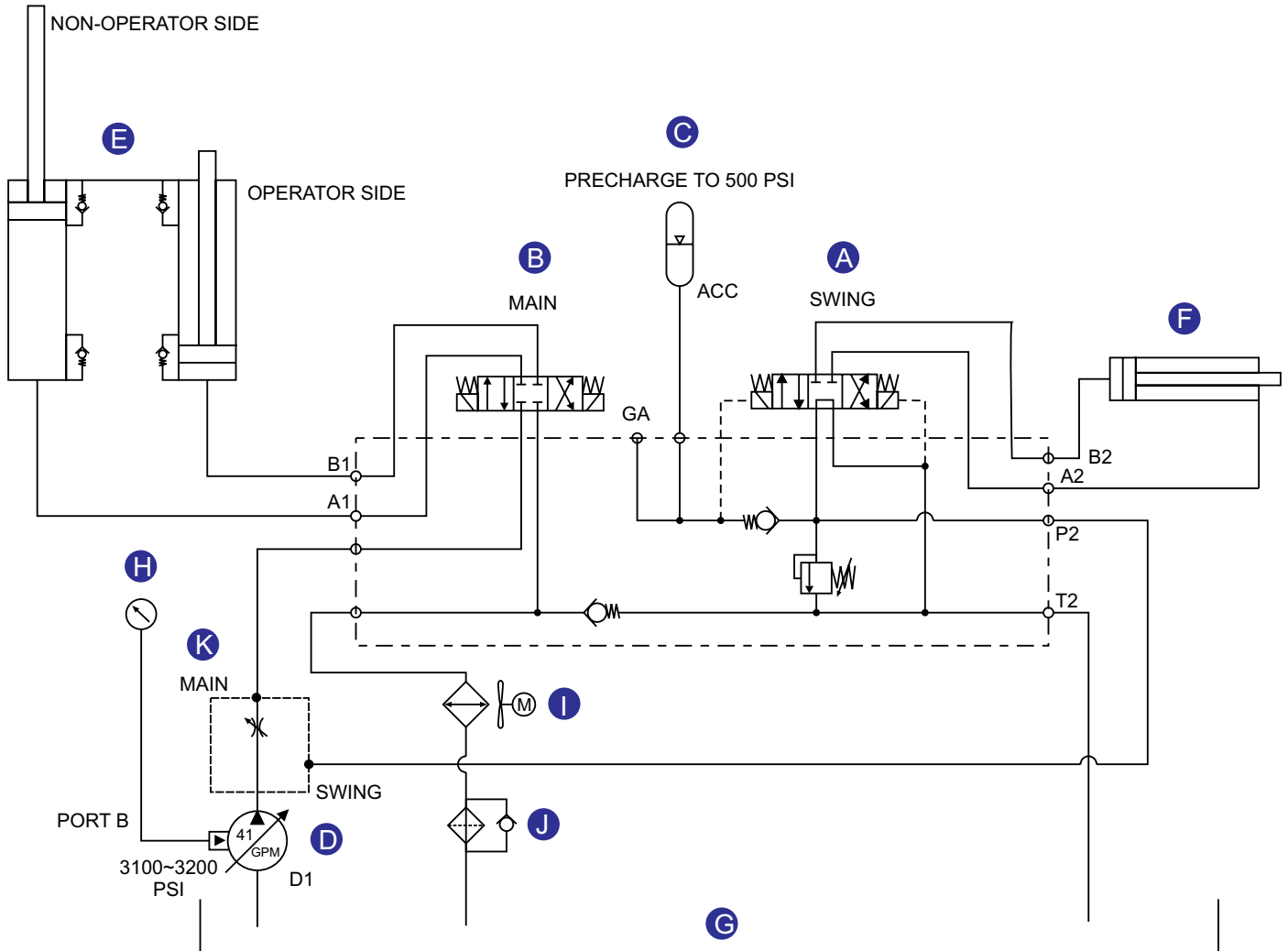
WIRING DIAGRAM

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
OFF	G+M+A
RUN	B+L+A
START	B+L+S

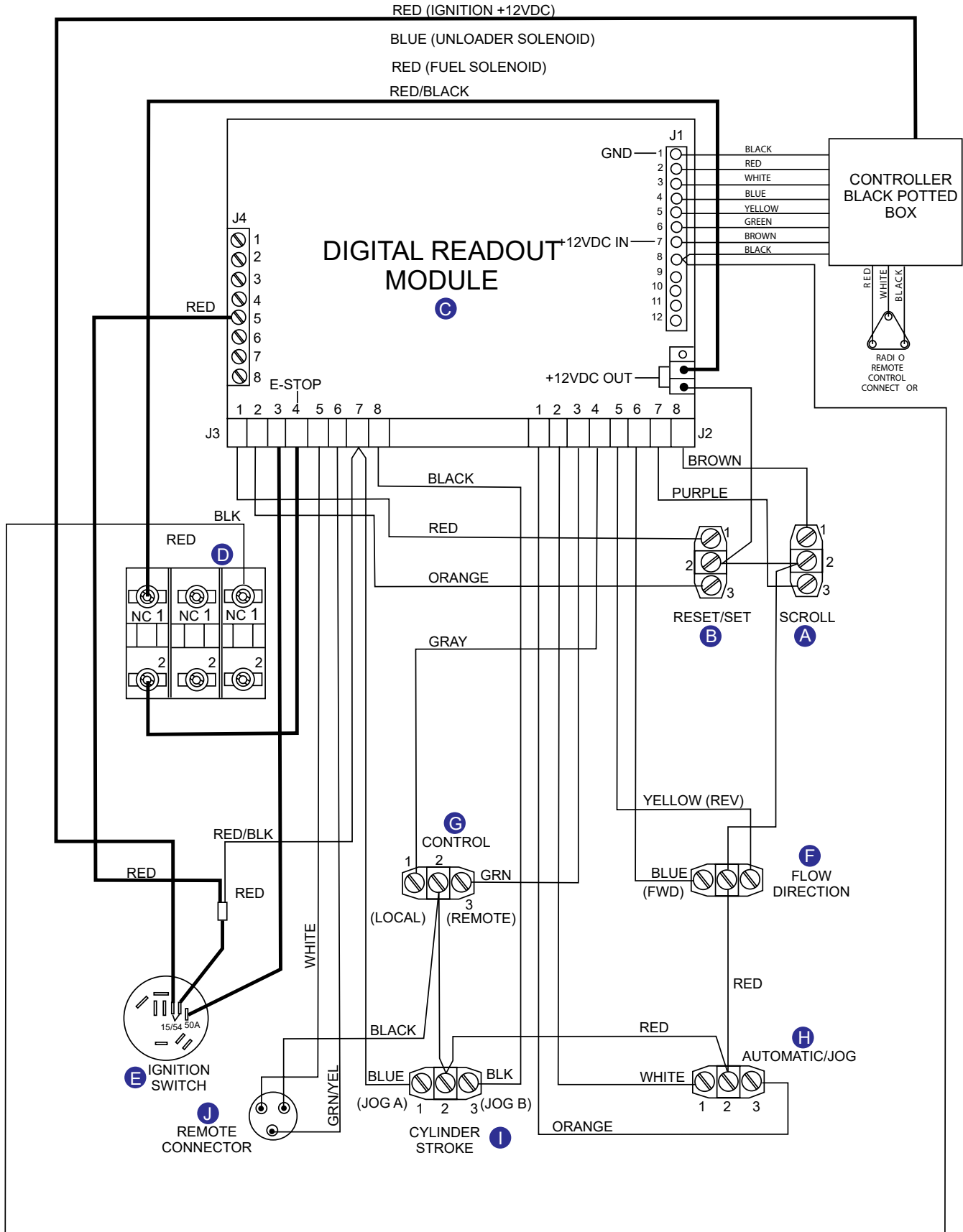


OIL LEVEL SWITCH		
OIL LEVEL	SWITCH POSITION	ENGINE
NORMAL	OPEN	RUN
LOW LEVEL	CLOSED	OFF

HYDRAULIC SYSTEM DIAGRAM



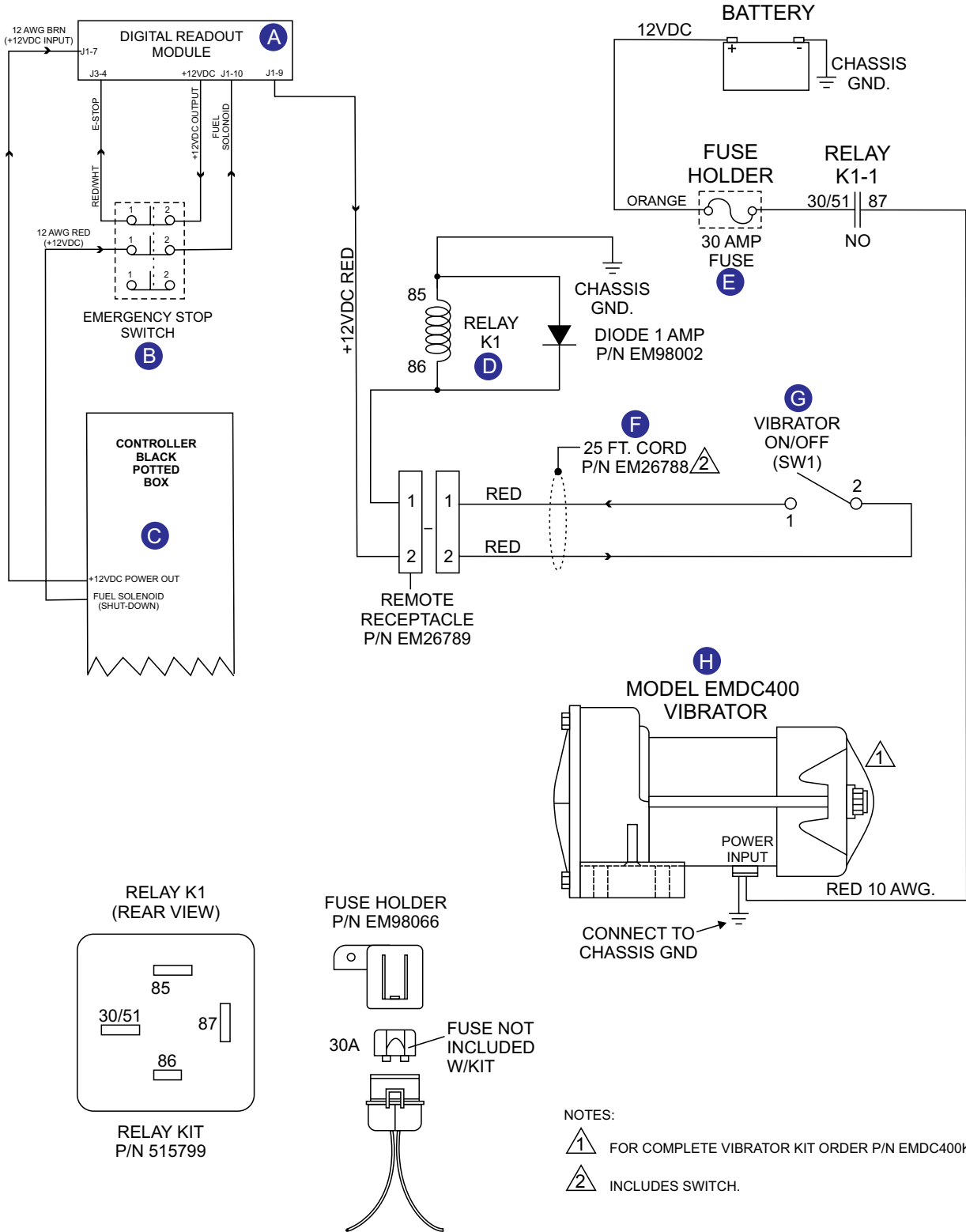
WIRING DIAGRAM CONTROL BOX (INTERNAL)



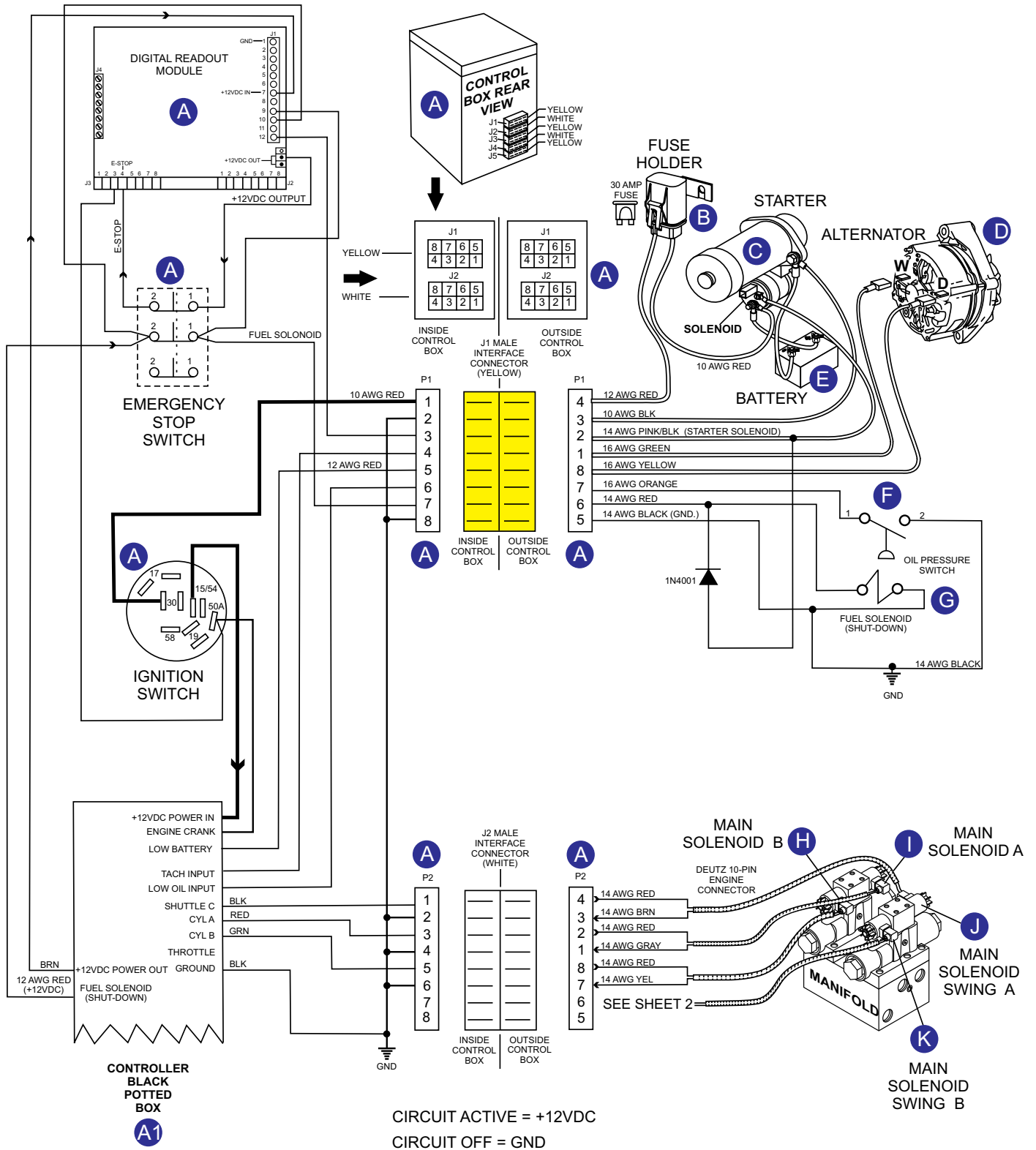
MAYCO LS300P CONCRETE PUMP — REV. #1 (02/20/17)

WIRING DIAGRAM HOPPER VIBRATOR (OPTION)

CONTROL BOX INTERIOR VIBRATOR RELAY



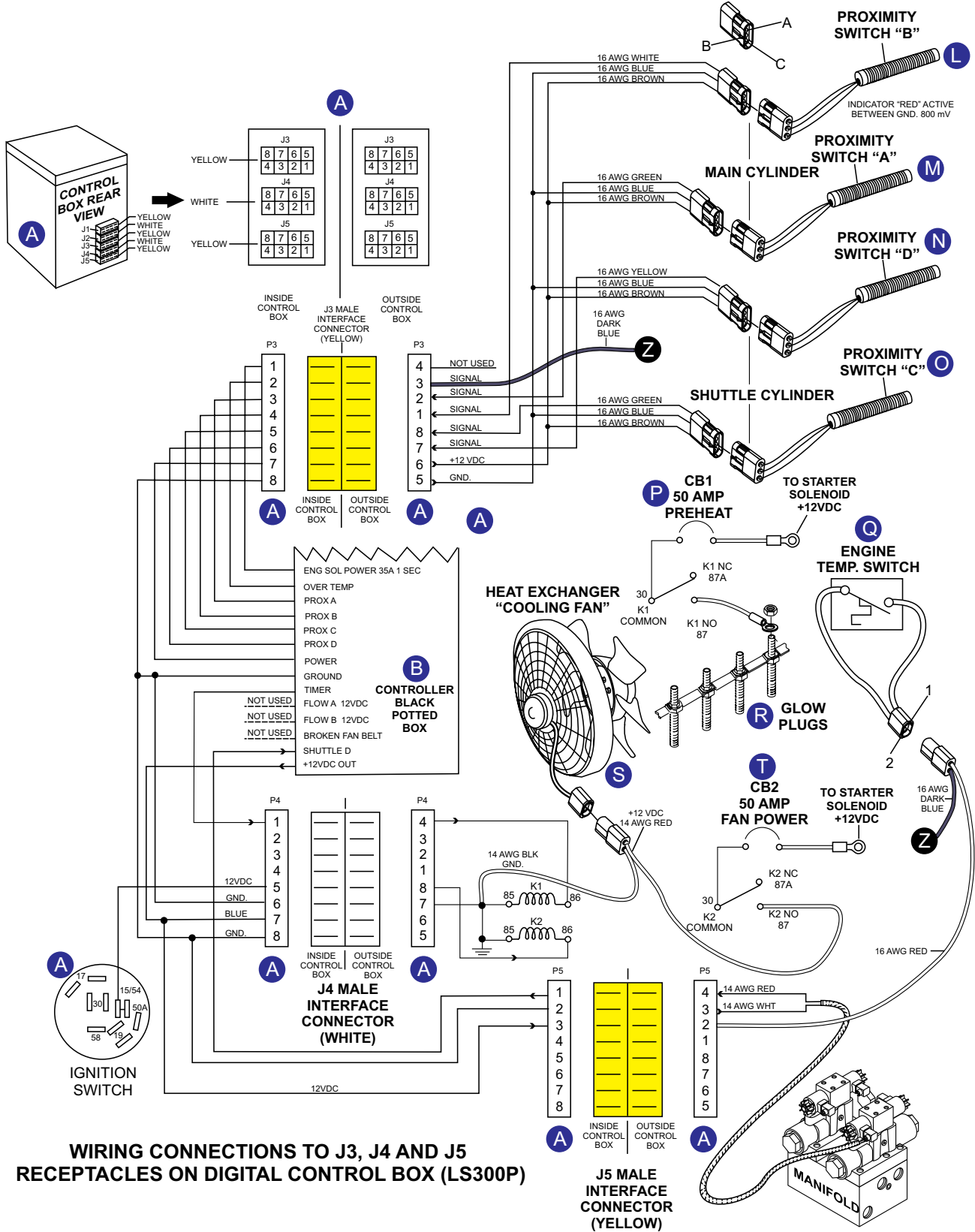
WIRING DIAGRAM 1 (EXTERNAL CONTROL BOX)



WIRING CONNECTIONS TO J1 AND J2 RECEPTACLES ON DIGITAL CONTROL BOX (LS300P)

MAYCO LS300P CONCRETE PUMP — REV. #1 (02/20/17)

WIRING DIAGRAM 2 (EXTERNAL CONTROL BOX)



LS400/LS500 PUMP — HYDRAULIC SYSTEM DIAGRAM

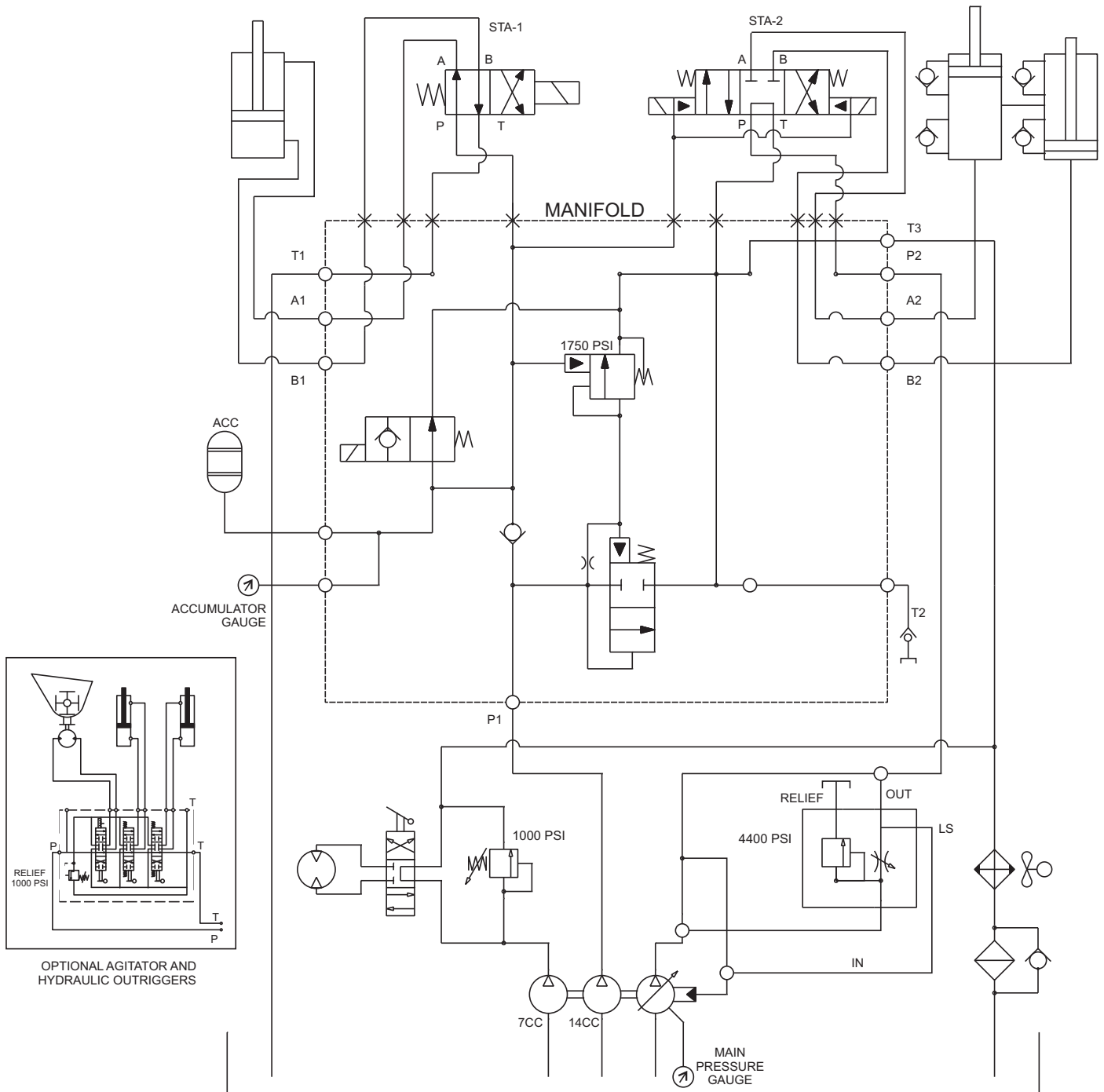


Figure 66. Hydraulic System Diagram

LS400/LS500 PUMP — WIRING DIAGRAM (CONTROL BOX)

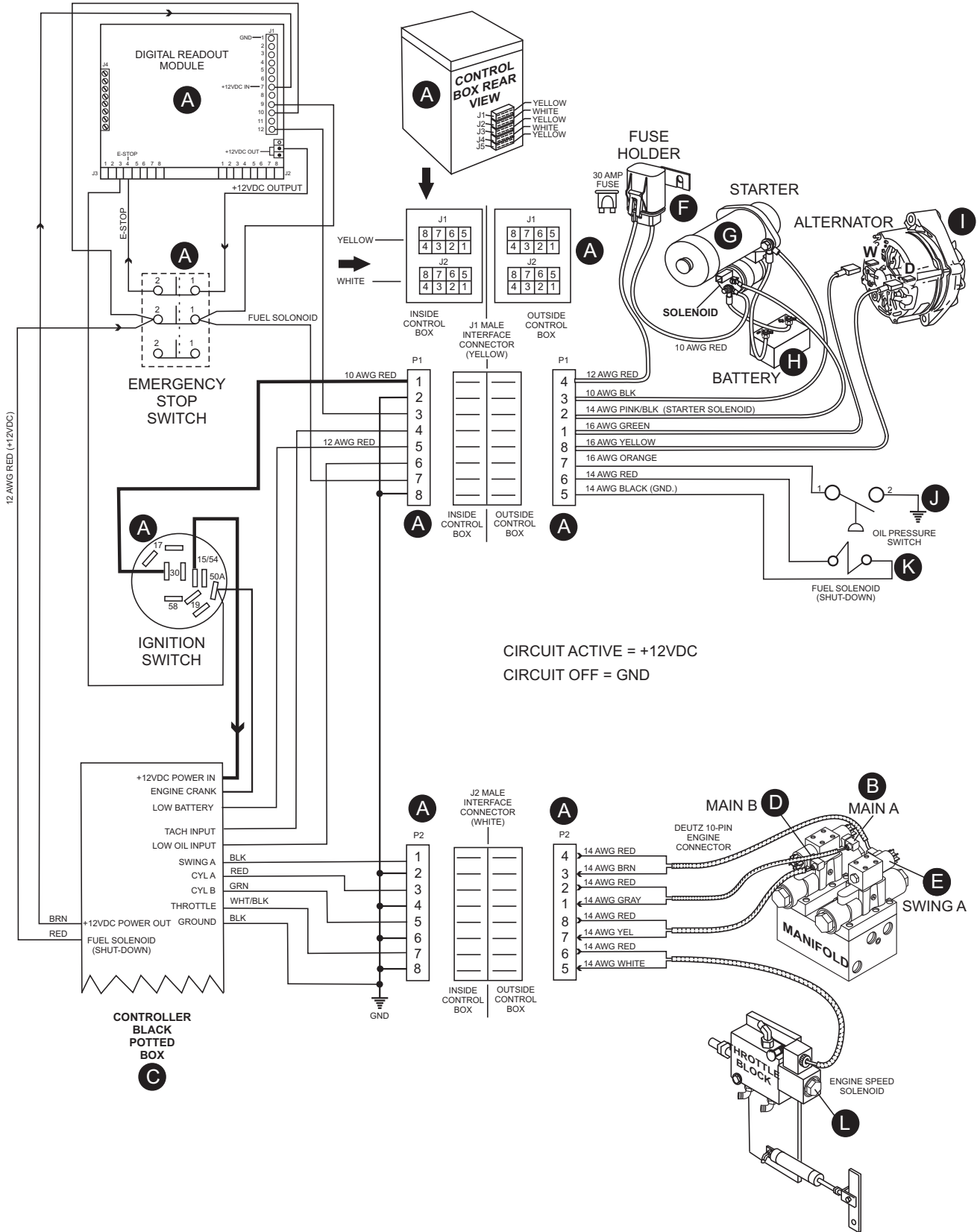
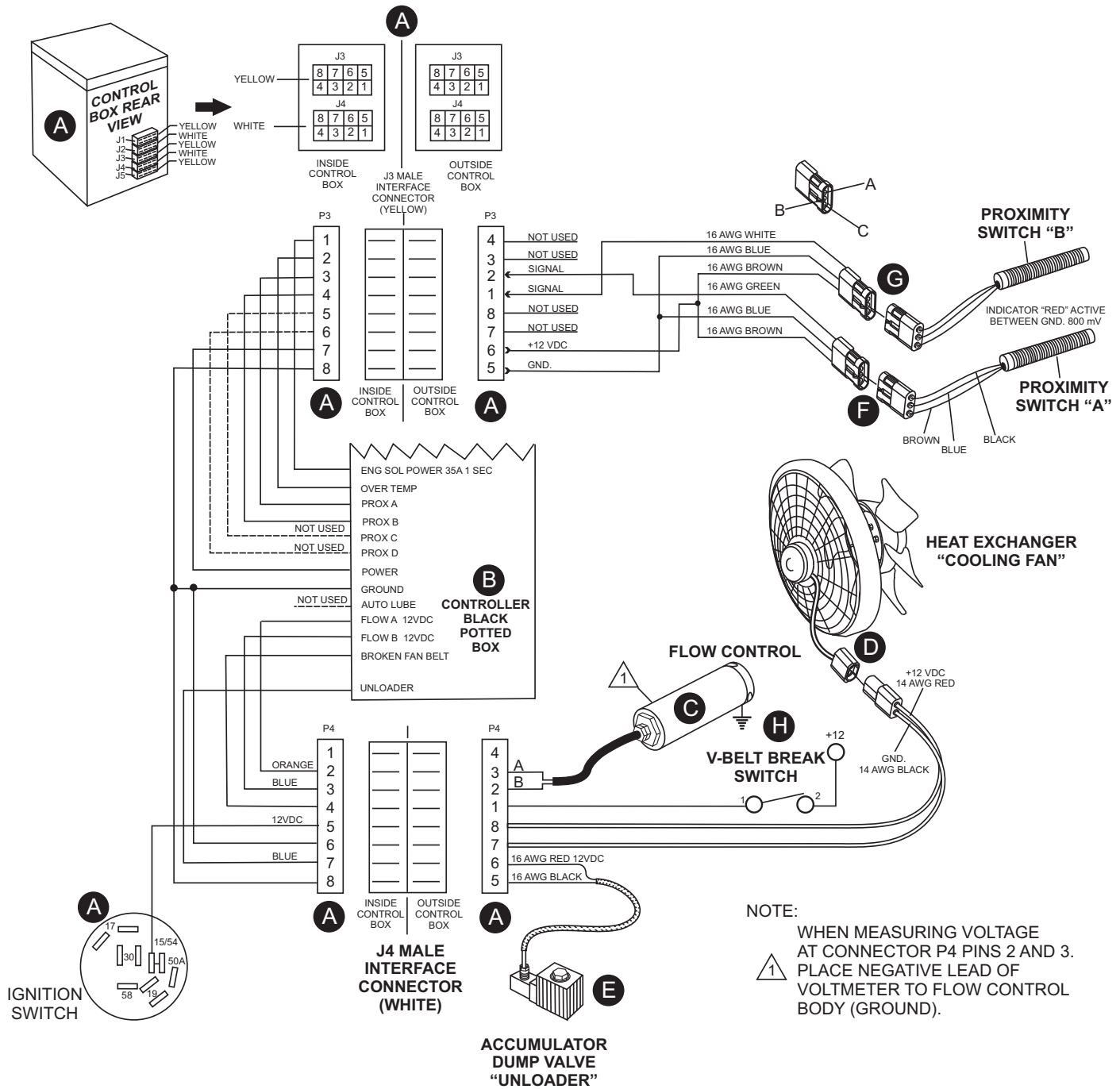


Figure 62. Connections to Digital Control Box - J1 and J2 Connectors (1 of 2)

LS400/LS500 PUMP — WIRING DIAGRAM (CONTROL BOX)

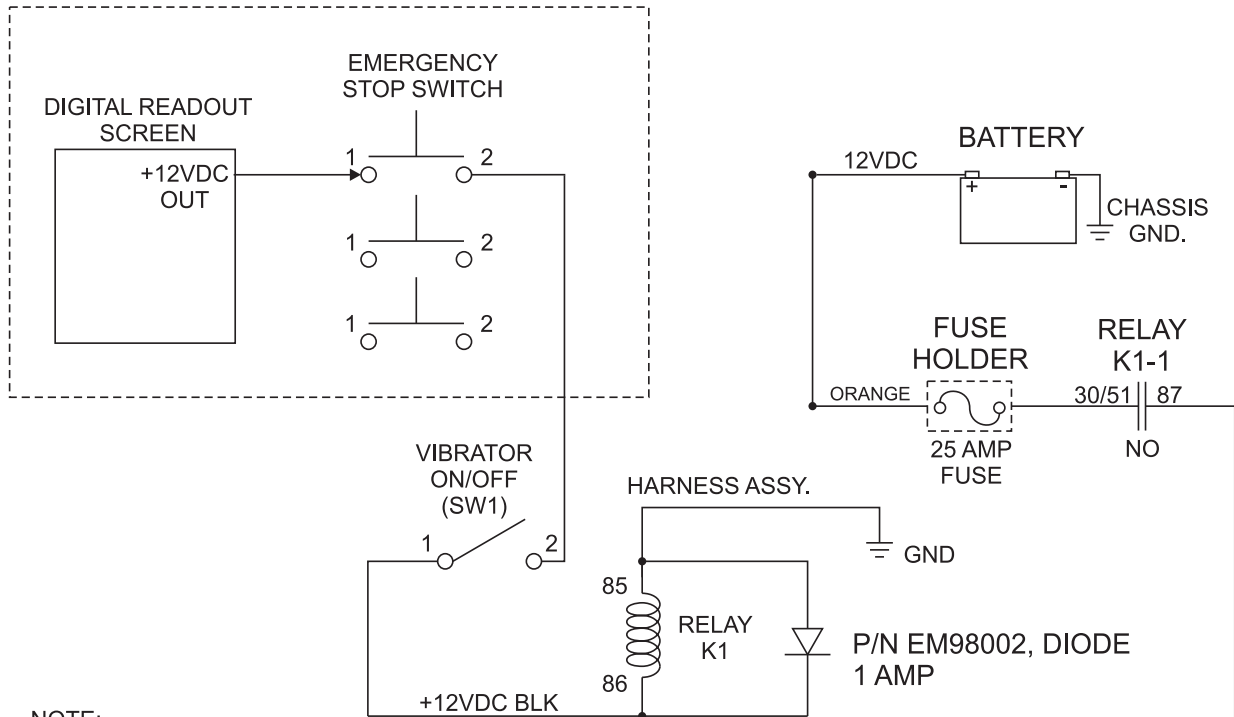


CONNECTIONS TO J3 AND J4 CONNECTORS ON DIGITAL CONTROL BOX (LS400 AND LS500)

Figure 63. Connections to Digital Control Box - J3 and J4 Connectors (1 of 2)

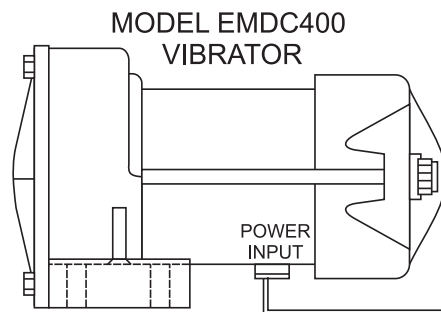
LS400/LS500 PUMP — WIRING DIAGRAM (HOPPER VIBRATOR)

CONTROL BOX



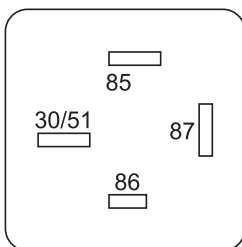
NOTE:
WHEN USED WITH
OPTIONAL WIRELESS
RADIO (NOT SHOWN),
CONNECT RECEIVER
UNLOADER PIN #11
TO RELAY K1 PIN 85.
(DO NOT GROUND)

COMPLETE OPTIONAL
VIBRATOR KIT
P/N EMDC400K



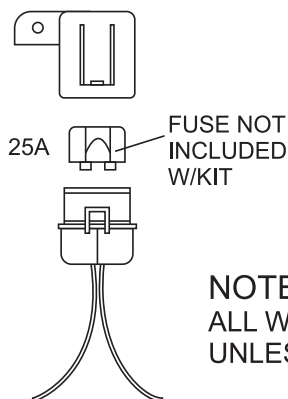
CONNECT TO
CHASSIS GND

RELAY K1 (REAR VIEW)



P/N 52016

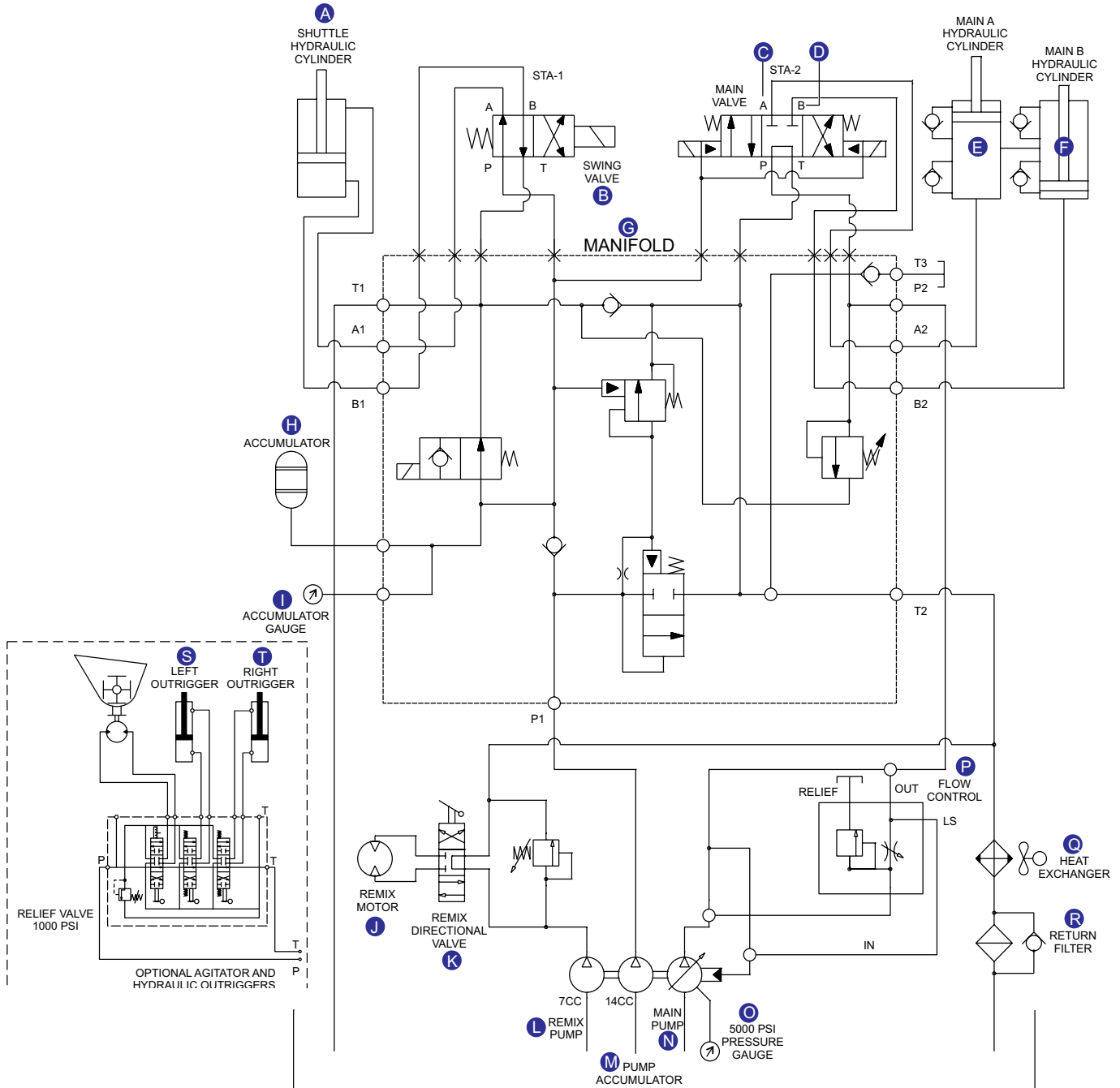
FUSE HOLDER P/N EM98066



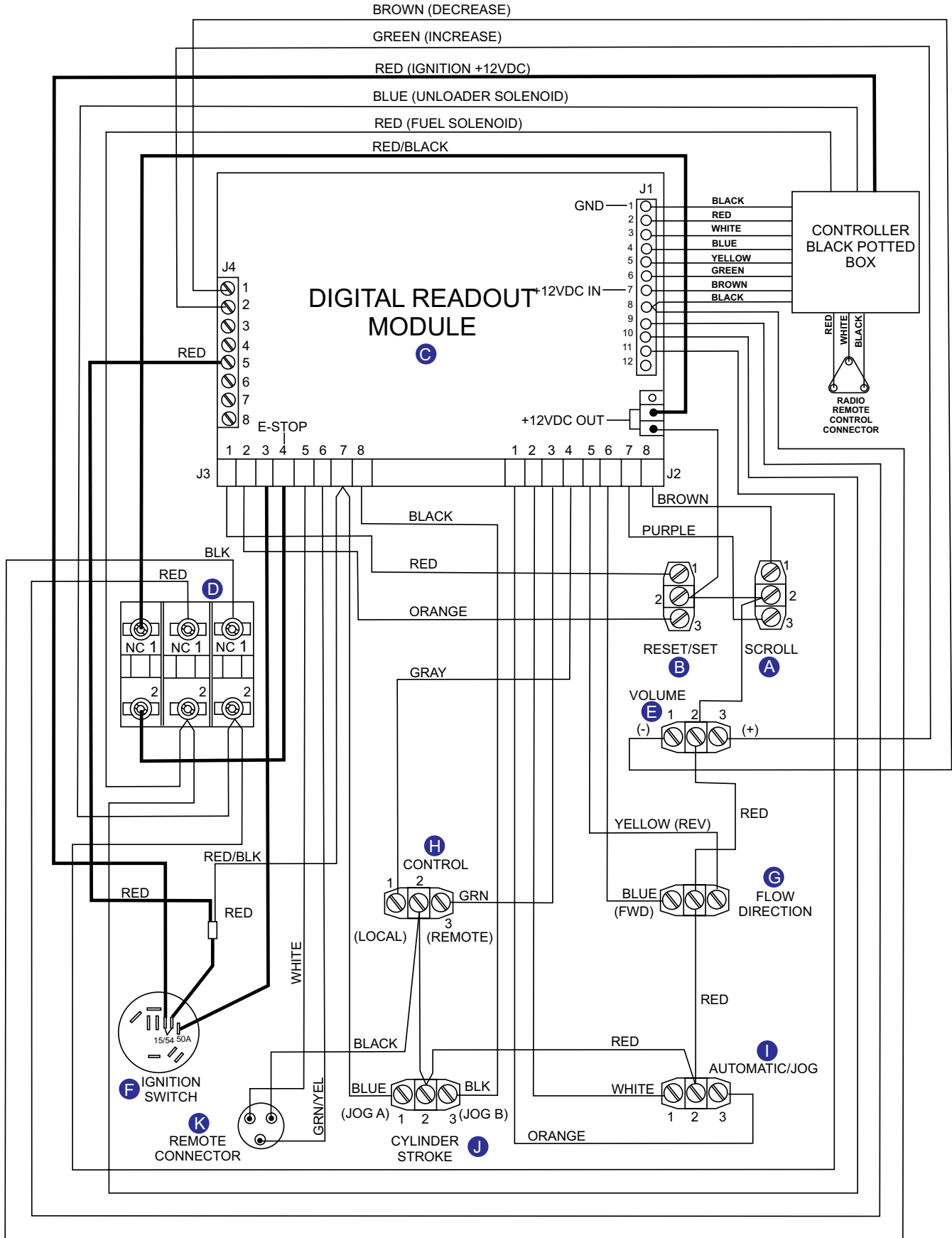
NOTE:
ALL WIRES ARE 10 AWG.
UNLESS OTHERWISE SPECIFIED

Figure 65. Optional Hopper Vibrator Wiring Diagram

HYDRAULIC SYSTEM DIAGRAM



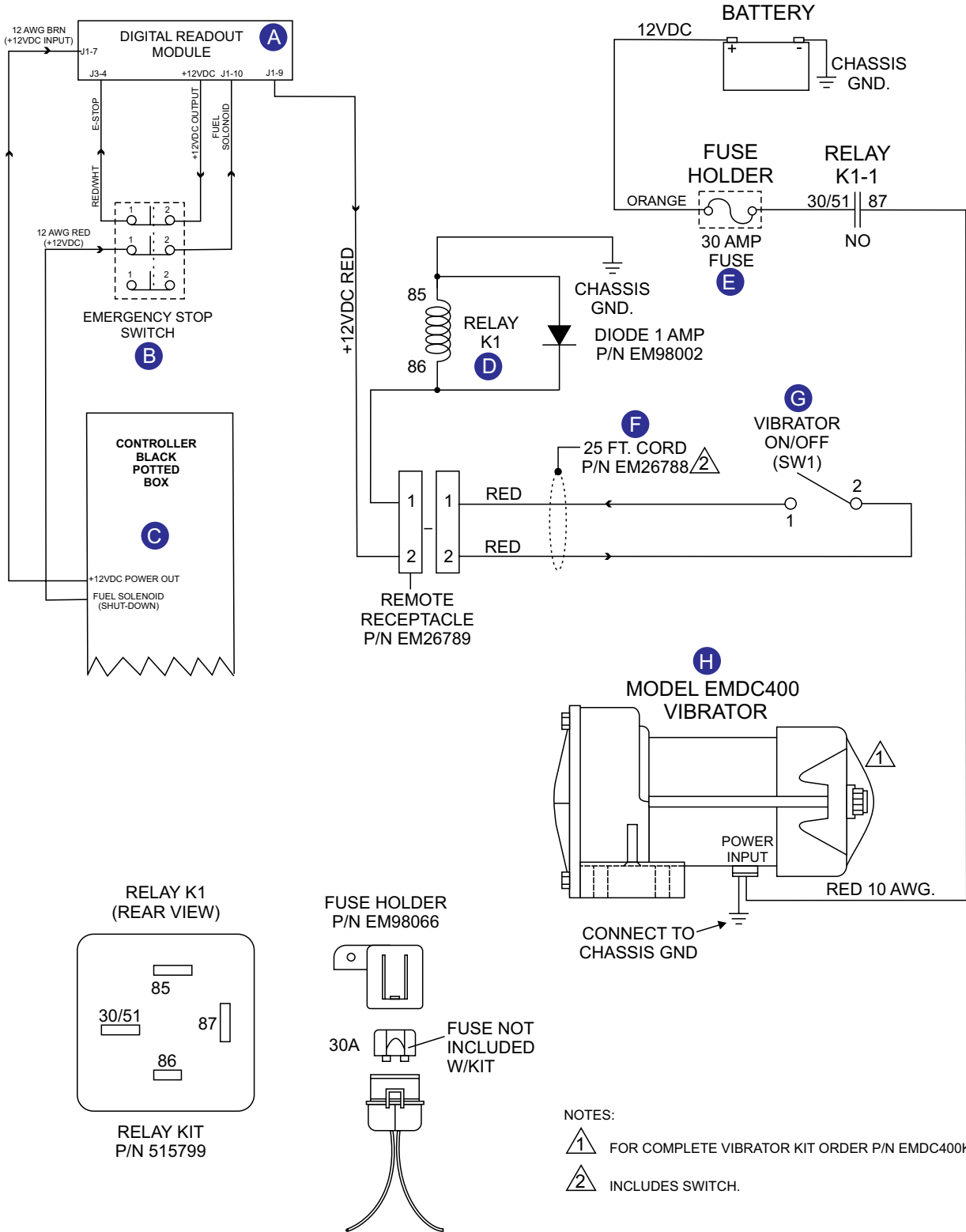
WIRING DIAGRAM CONTROL BOX (INTERNAL)



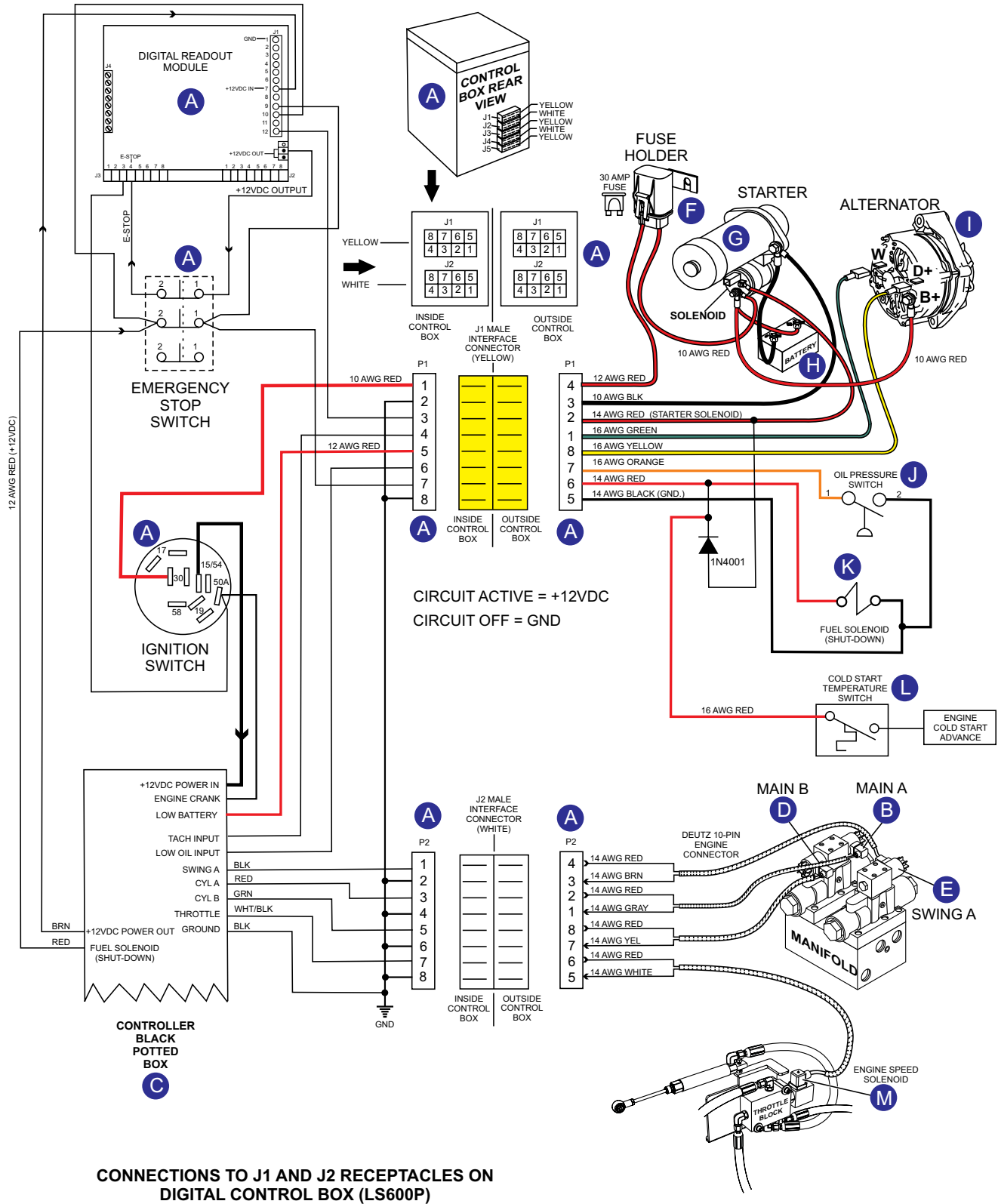
MAYCO LS600P CONCRETE PUMP —REV. #0 (05/13/13)

WIRING DIAGRAM HOPPER VIBRATOR (OPTION)

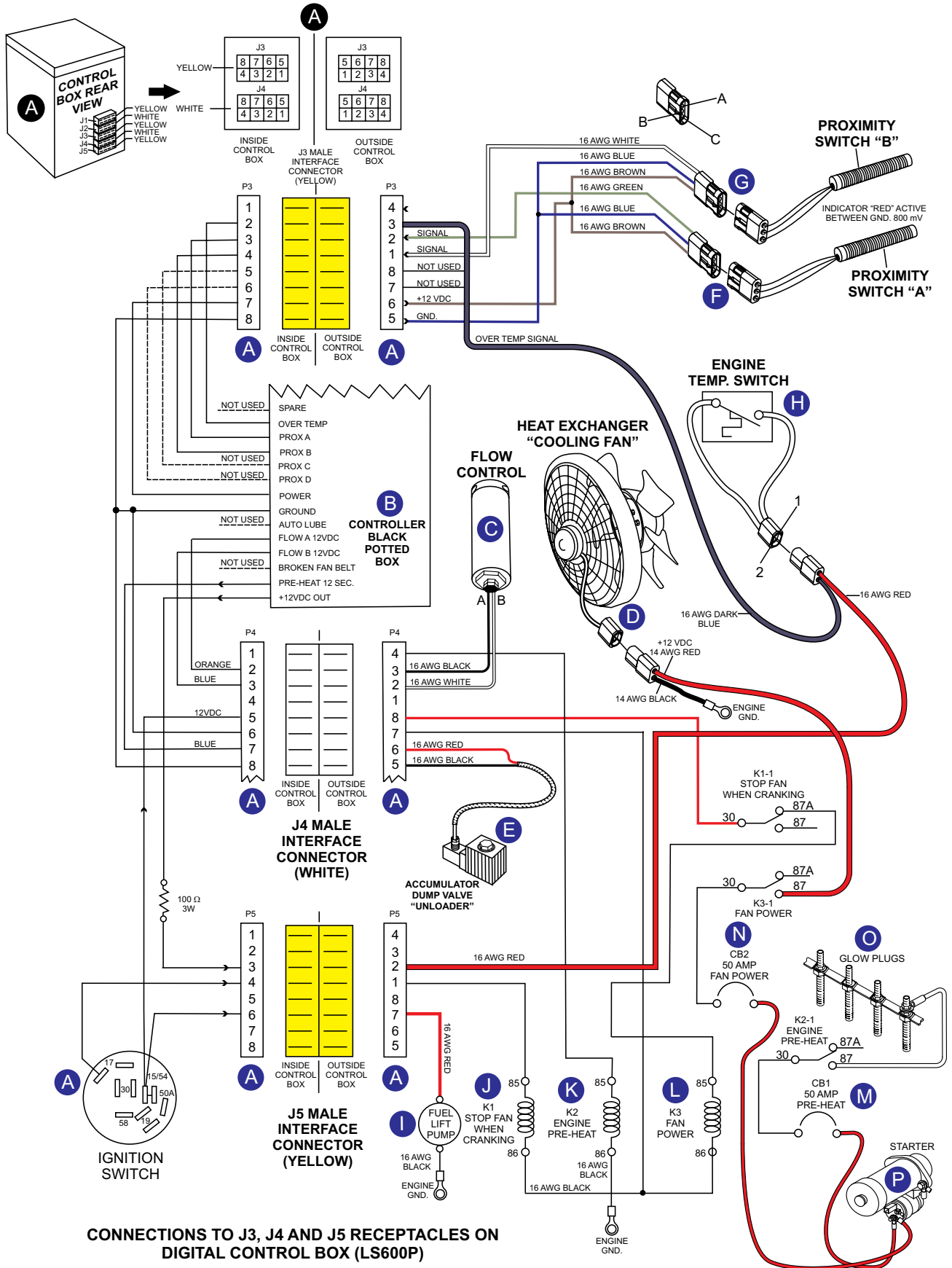
CONTROL BOX INTERIOR VIBRATOR RELAY



WIRING DIAGRAM 1 (EXTERNAL CONTROL BOX)



WIRING DIAGRAM 2 (EXTERNAL CONTROL BOX)



MAYCO LS600P CONCRETE PUMP — REV. #0 (05/13/13)

C-30HDG PUMP — WIRING DIAGRAM

CONTROL BOX WIRING DIAGRAM C-30HDG (ZENITH ENGINE) REVISION E 06/12/07

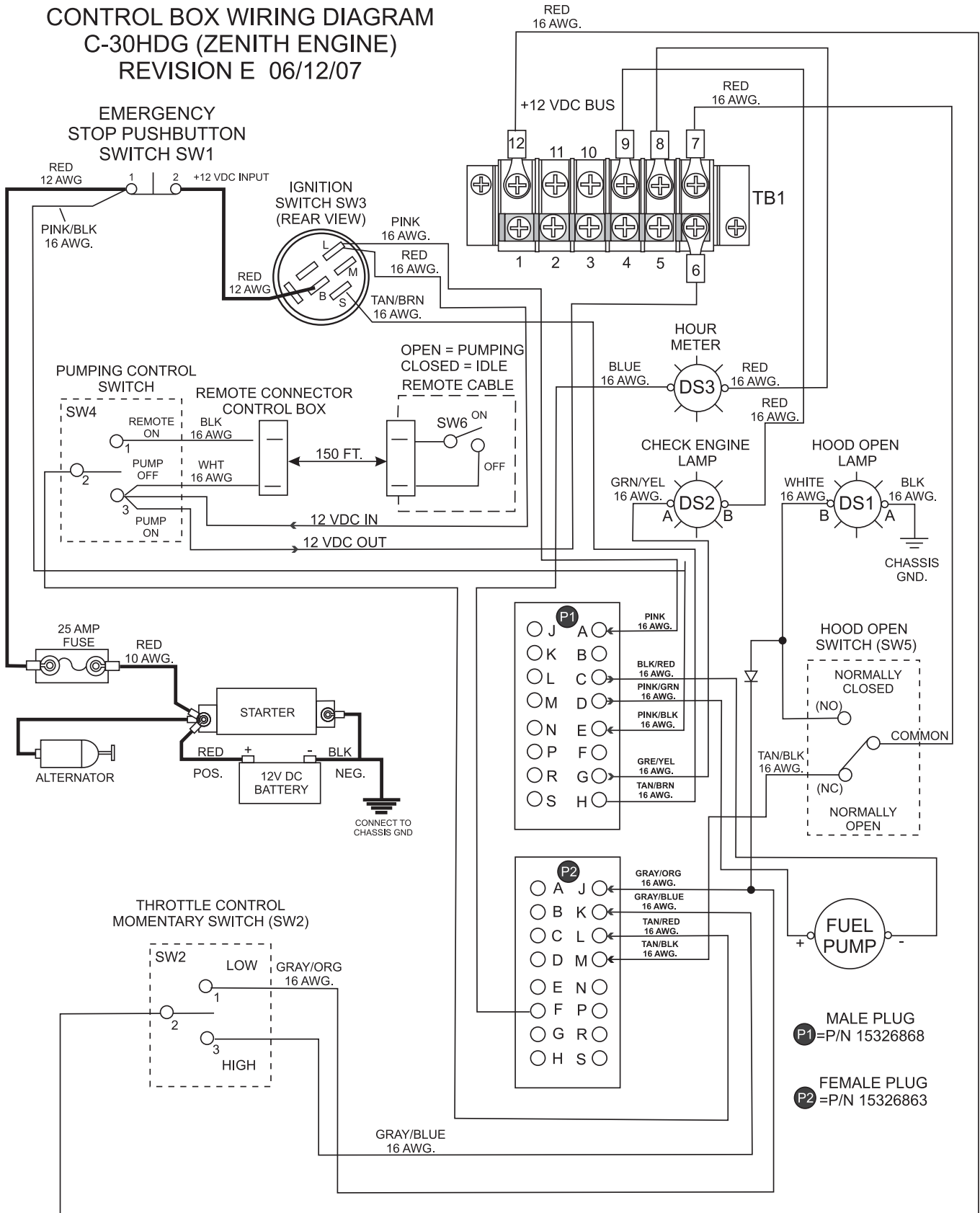


Figure 39. Wiring Diagram

C-30HDG PUMP — WIRING DIAGRAM (ZENITH WIRING HARNESS)

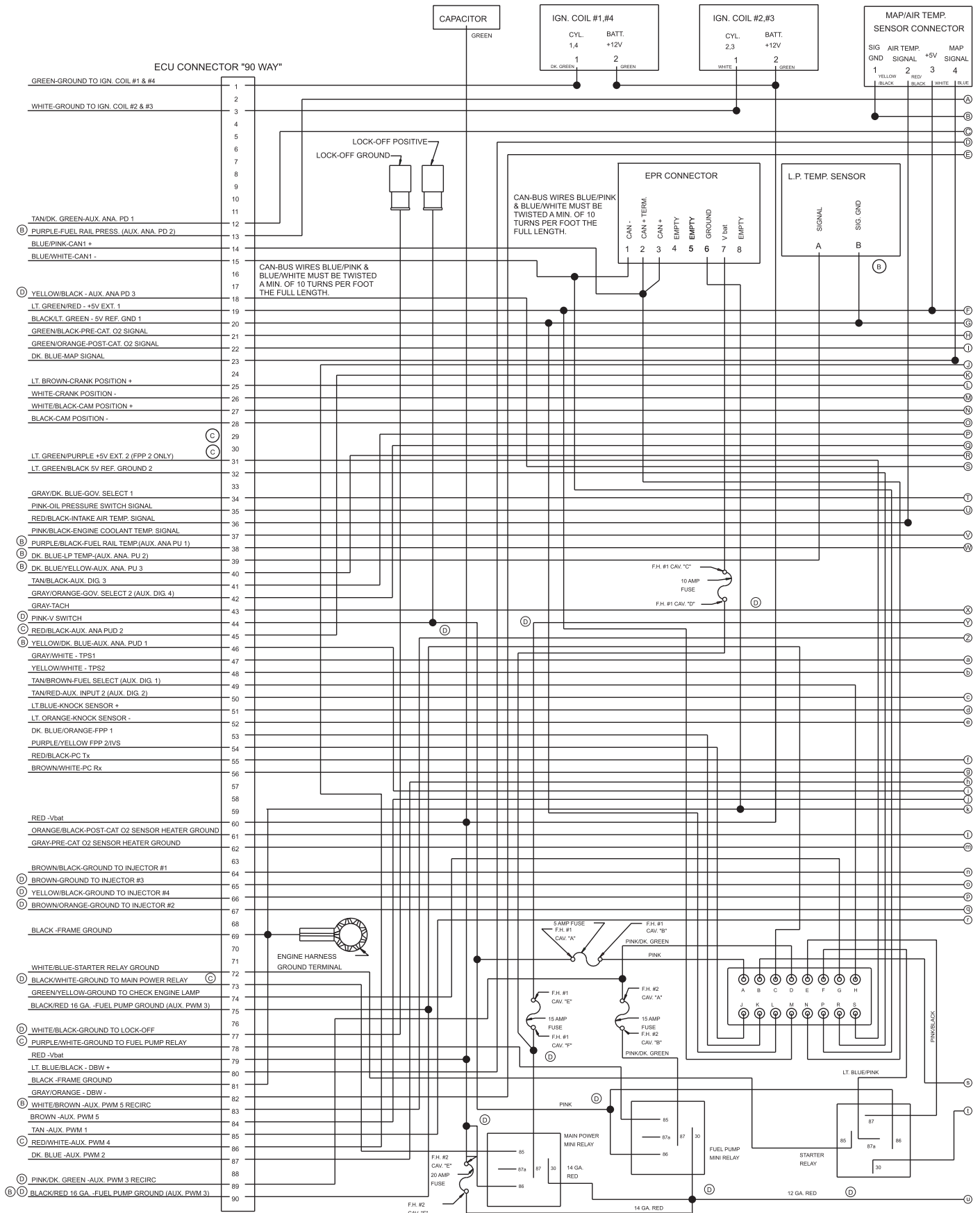


Figure 38. Zenith Fuel Injection System Wiring Diagram

MAYCO C-30HDG PUMP — REV. #7 (12/04/17)

C-30HDNI PUMP — WIRING DIAGRAM (ZENITH WIRING HARNESS)

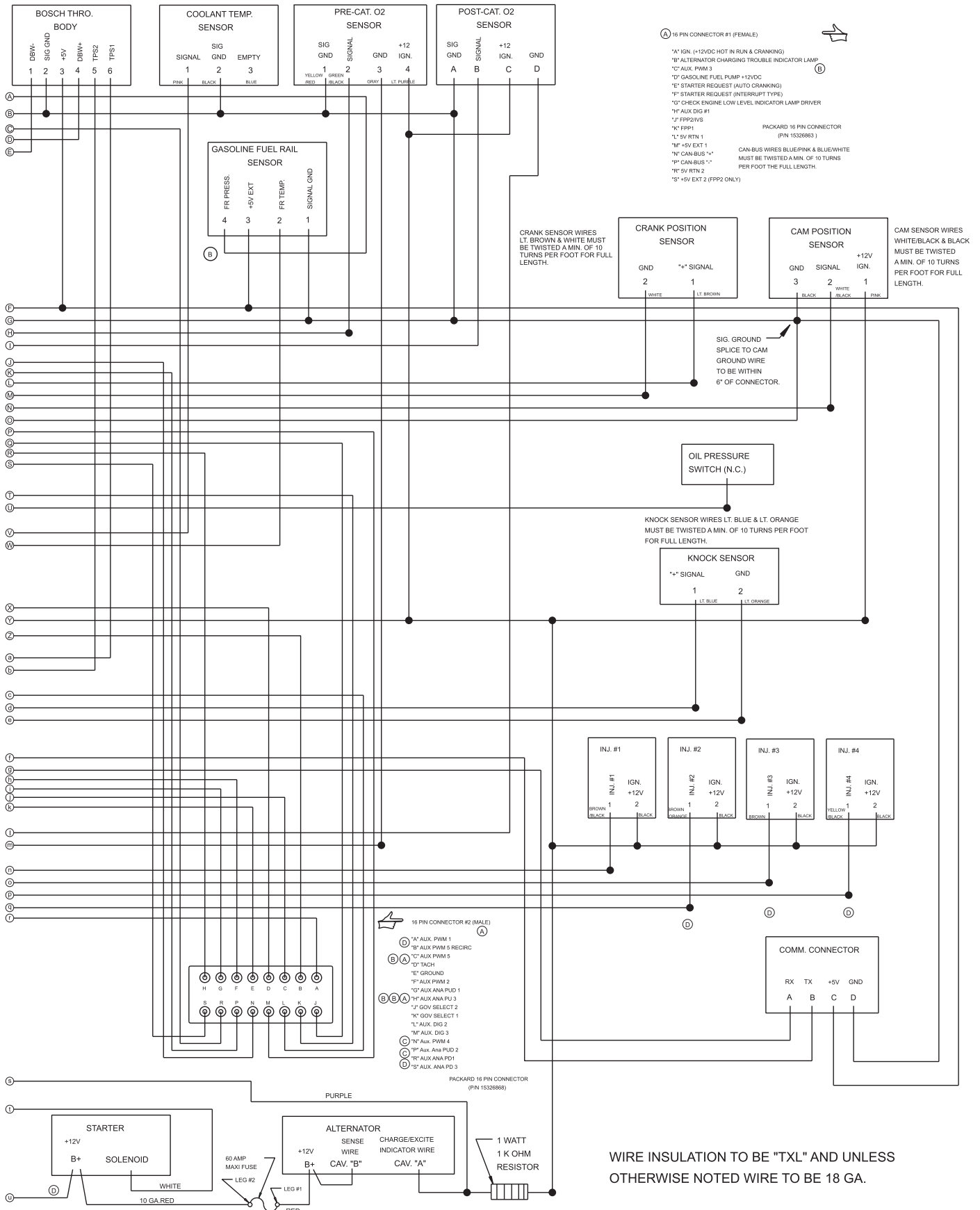


Figure 38. Zenith Fuel Injection System Wiring Diagram (Cont.)

WIRING DIAGRAM

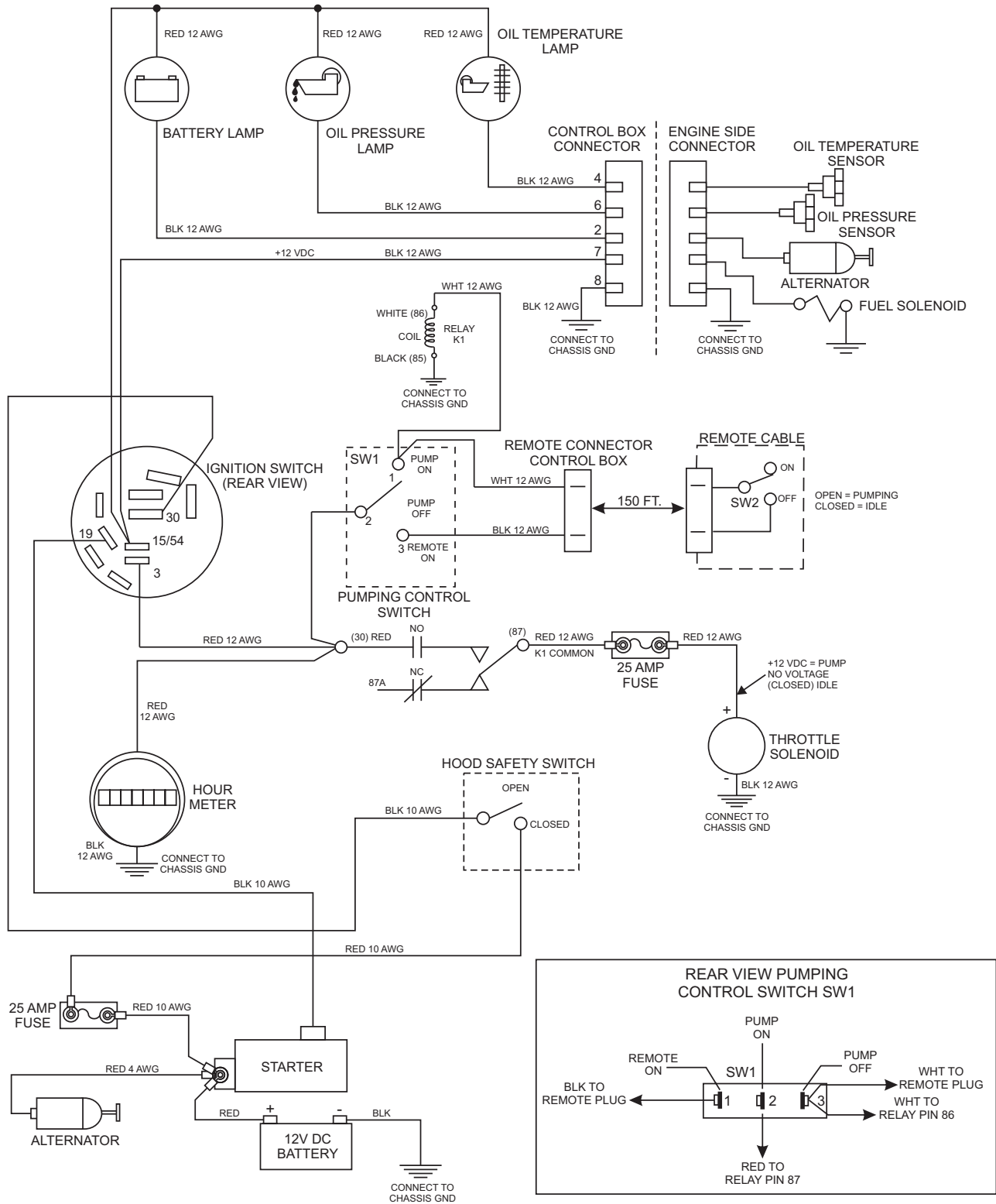
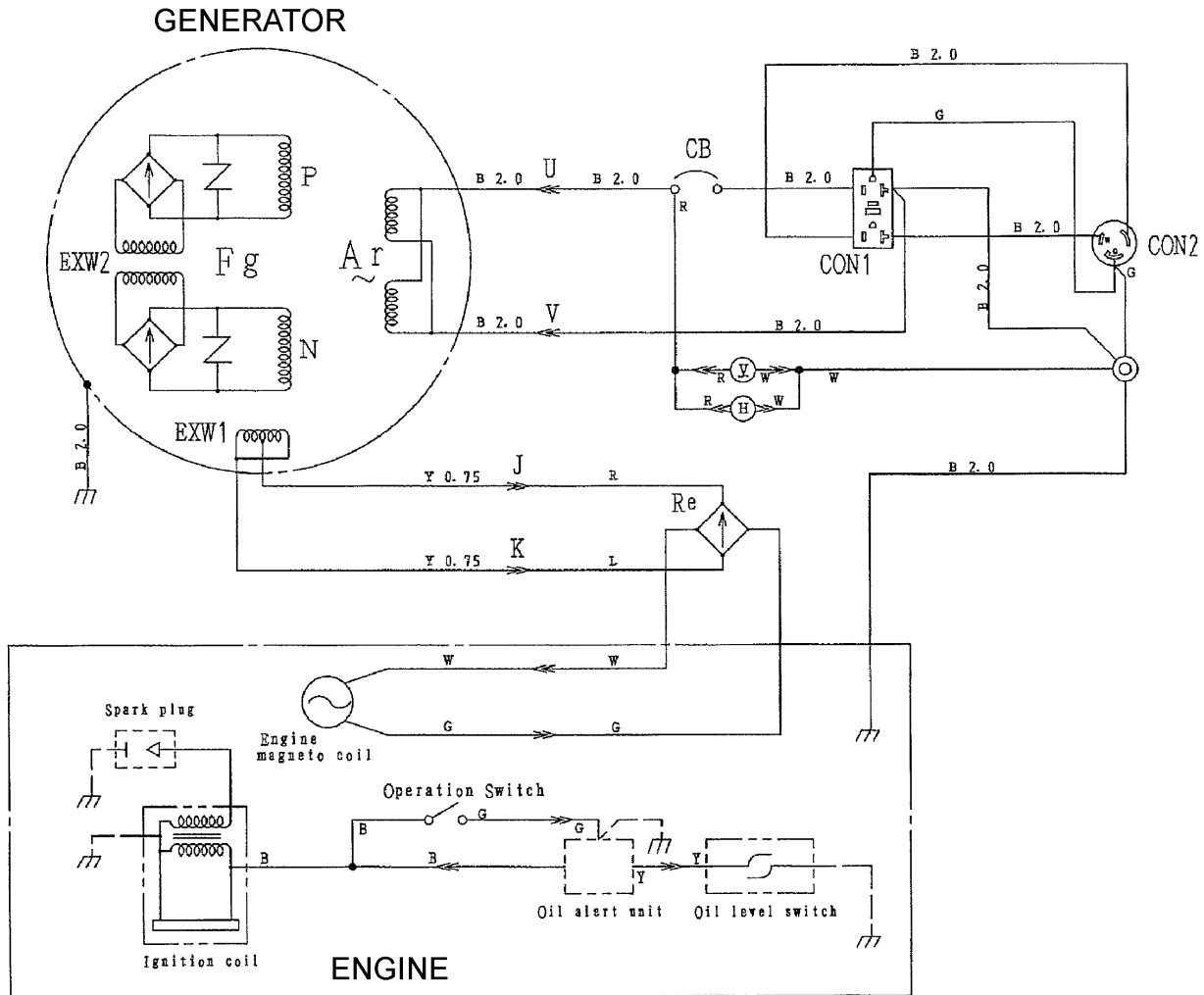


Figure 32. Wiring Diagram

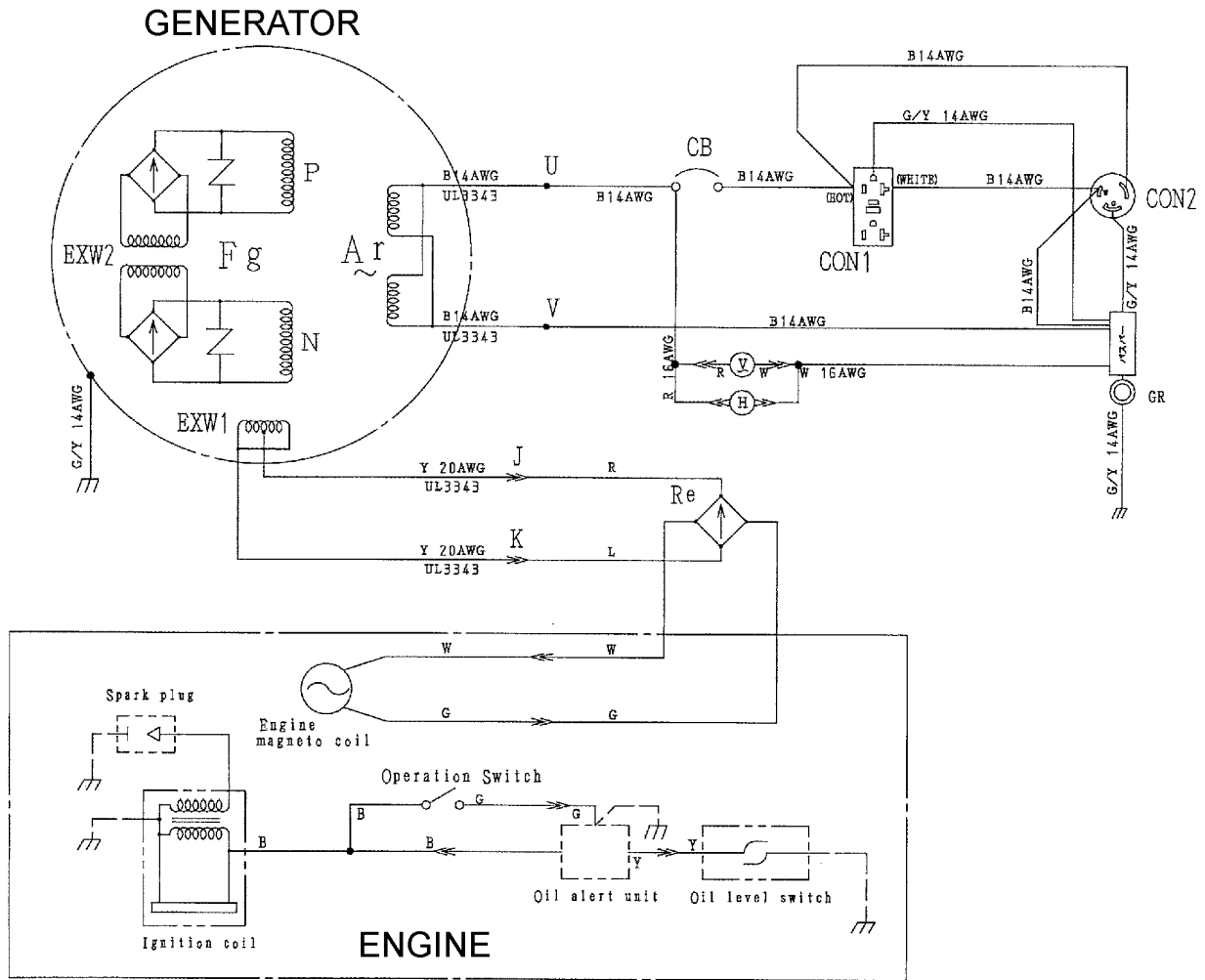
GENERATOR WIRING DIAGRAM



COLOR CODE			
	WIRE COLOR		WIRE COLOR
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		

SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE	RECTIFIER
CB	CIRCUIT BREAKER 20A
CON 1	RECEPTACLE 5-20R GFCI 20A, 125V
CON 2	RECEPTACLE L5-20R 20A, 125V
H	HOUR METER

GENERATOR WIRING DIAGRAM

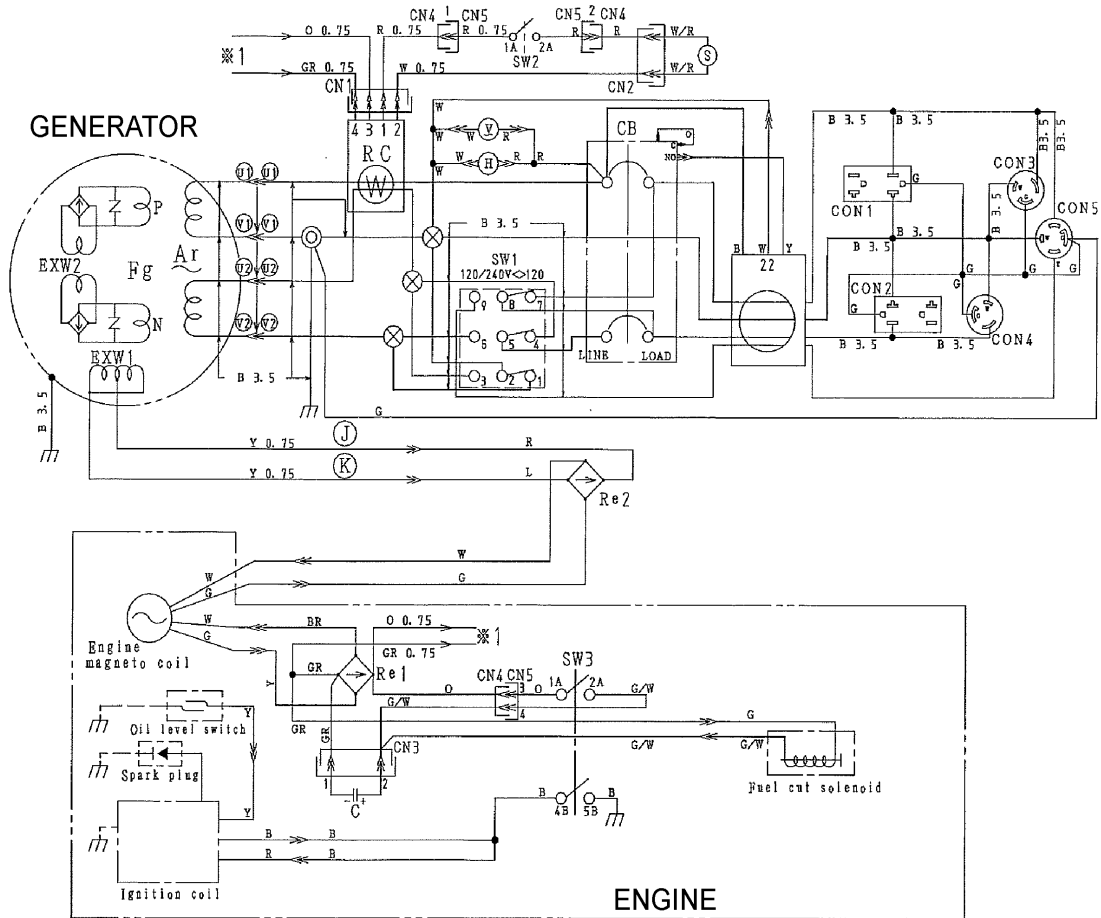


COLOR CODE			
WIRE COLOR	WIRE COLOR	WIRE COLOR	WIRE COLOR
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		

SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE	RECTIFIER
CB	CIRCUIT BREAKER 20A
CON 1	RECEPTACLE 5-20R GFCI 18.3A, 125V
CON 2	RECEPTACLE L5-20R 18.3A, 125V
H	HOUR METER
GR	GROUND TERMINAL

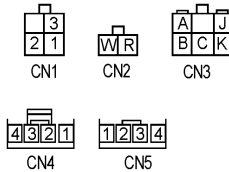
GAC2.5HR 60 HZ GENERATOR — REV. #0 (02/13/18)

GENERATOR WIRING DIAGRAM



COLOR CODE	
WIRE COLOR	WIRE COLOR
B BLACK	R RED
L BLUE	W WHITE
BR BROWN	Y YELLOW
G GREEN	LB LIGHT BLUE
GR GRAY	LG LIGHT GREEN
V VIOLET	O ORANGE
P PINK	

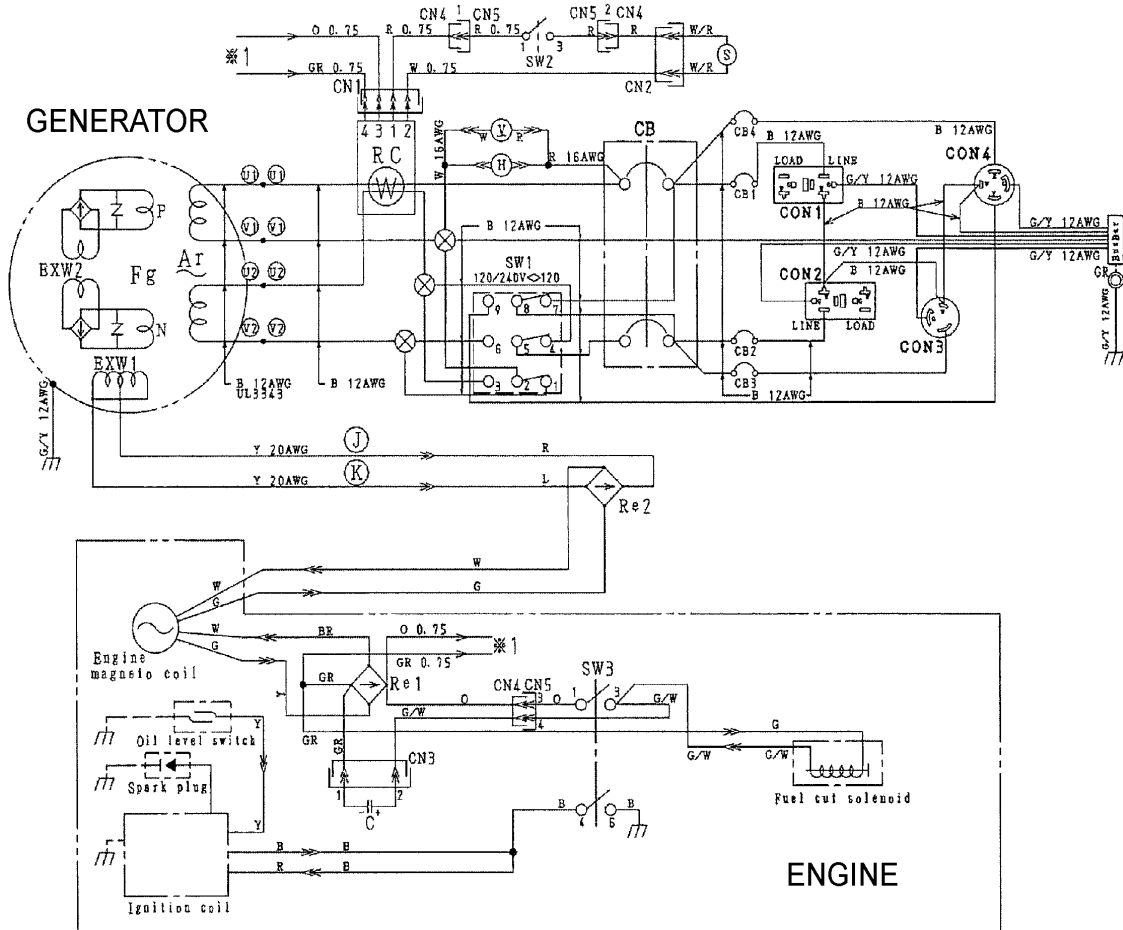
⊗ V1 V2 U1 U2
TERMINAL BOARD



CONNECTOR ARRANGEMENT
(VIEW FROM INSERTING WIRE SIDE)

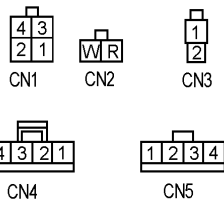
SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1~2	RECTIFIER
CB	CIRCUIT BREAKER 23A
CON 1,2	RECEPTACLE 5-20R GFCI 20A, 125V
CON 3	RECEPTACLE L5-20R 20A 125V
CON 4	RECEPTACLE L5-30R 30A, 125/250V
CON 5	RECEPTACLE L14-30R 30A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
22	GFCI SENSING MODULE
⊗	TERMINAL BOARD
H	HOUR METER

GENERATOR WIRING DIAGRAM



COLOR CODE	
B	WIRE COLOR BLACK
R	WIRE COLOR RED
L	WIRE COLOR BLUE
W	WIRE COLOR WHITE
BR	WIRE COLOR BROWN
Y	WIRE COLOR YELLOW
G	WIRE COLOR GREEN
LB	WIRE COLOR LIGHT BLUE
GR	WIRE COLOR GRAY
LG	WIRE COLOR LIGHT GREEN
V	WIRE COLOR VIOLET
O	WIRE COLOR ORANGE
P	WIRE COLOR PINK

⊗ V1 V1 U2 V2
TERMINAL BOARD



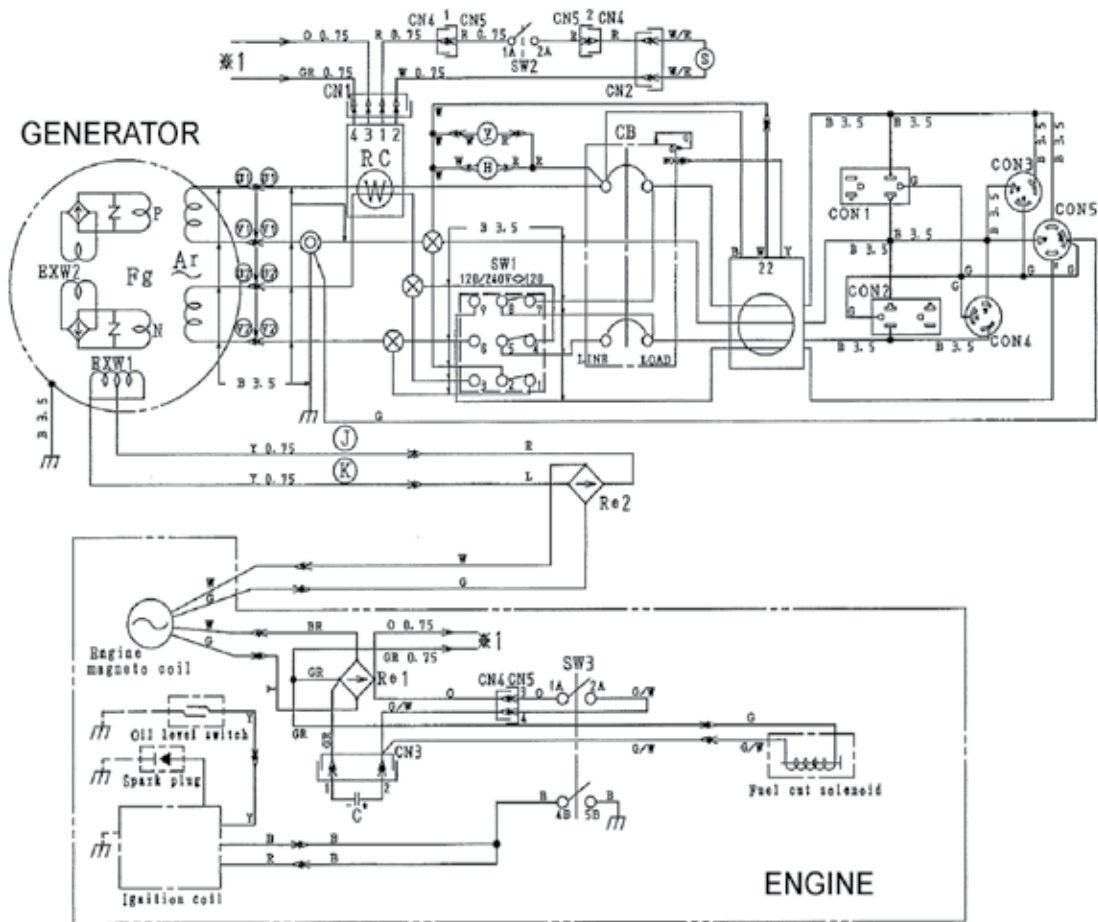
CONNECTOR ARRANGEMENT
(VIEW FROM INSERTING WIRE SIDE)

SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1~2	RECTIFIER
CB	CIRCUIT BREAKER 2P, 15A (MAIN)
CB1, 2, 4	CIRCUIT BREAKER 1P, 20A
CB3	CIRCUIT BREAKER 1P, 30A
CON 1, 2	RECEPTACLE 5-20R GFCl 20A, 125V
CON 3	RECEPTACLE L5-30R 30A 125V
CON 4	RECEPTACLE L14-20R 20A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
⊗	TERMINAL BOARD
H	HOUR METER
GR	GROUND TERMINAL

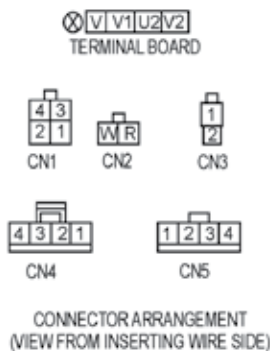
Figure 37. Generator Wiring Diagram (GAC3.6HR)

GAC3.6HR 60 HZ GENERATOR — REV. #0 (12/13/17)

GENERATOR WIRING DIAGRAM (GA6HR)



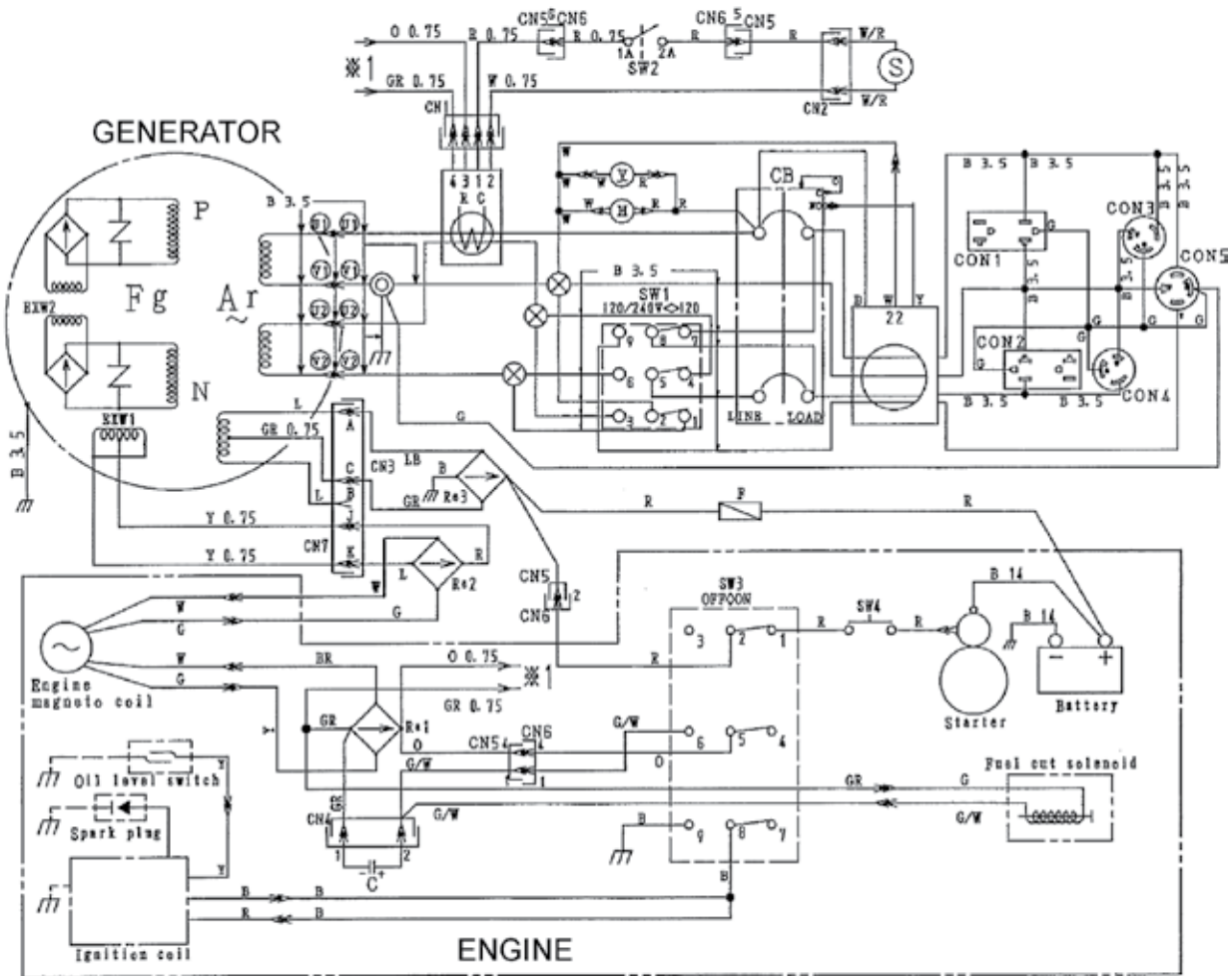
COLOR CODE			
WIRE COLOR	WIRE COLOR	WIRE COLOR	WIRE COLOR
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		



SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1-2	RECTIFIER
CB	CIRCUIT BREAKER 23A
CON 1,2	RECEPTACLE 5-20R GFCI 20A, 125V
CON 3	RECEPTACLE L5-20R 20A 125V
CON 4	RECEPTACLE L5-30R 30A, 125/250V
CON 5	RECEPTACLE L14-30R 30A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
22	GFCI SENSING MODULE
⊗	TERMINAL BOARD
H	HOUR METER

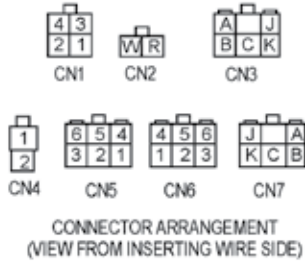
Figure 46. Generator Wiring Diagram (GA6HR)

GENERATOR WIRING DIGRAM (GA6HRS)



COLOR CODE	
WIRE COLOR	WIRE COLOR
B BLACK	R RED
L BLUE	W WHITE
BR BROWN	Y YELLOW
G GREEN	LB LIGHT BLUE
GR GRAY	LG LIGHT GREEN
V VIOLET	O ORANGE
P PINK	

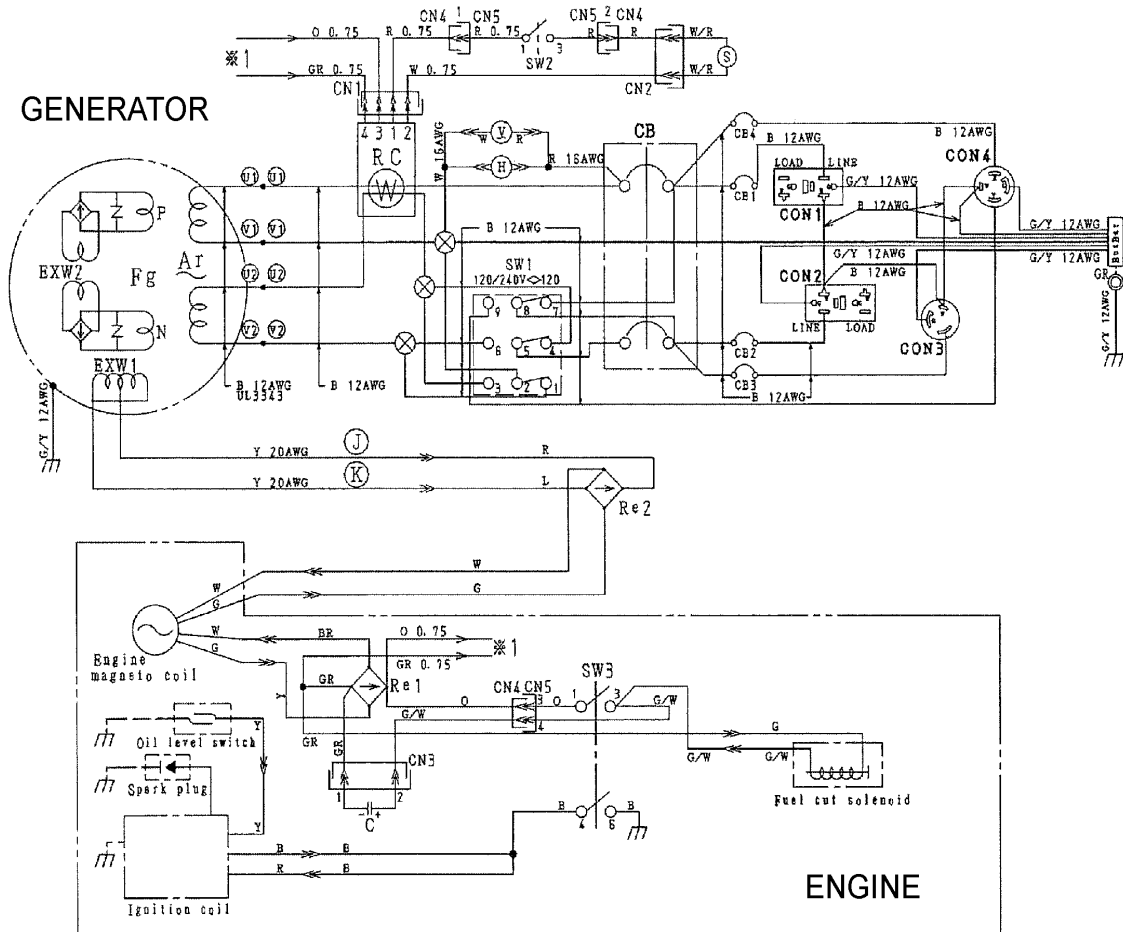
⊗ V1 V2 ⊗
TERMINAL BOARD



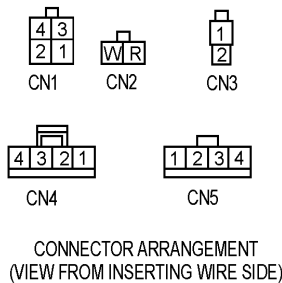
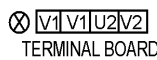
SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1-2	RECTIFIER
CB	CIRCUIT BREAKER 23A
CON 1,2	RECEPTACLE 5-20R GFCI 20A, 125V
CON 3	RECEPTACLE L5-20R 20A 125V
CON 4	RECEPTACLE L5-30R 30A, 125/250V
CON 5	RECEPTACLE L14-30R 30A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
SW4	STARTER SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
22	GFCI SENSING MODULE
⊗	TERMINAL BOARD
H	HOUR METER

Figure 47. Generator Wiring Diagram (GA6HRS)

GENERATOR WIRING DIAGRAM (GAC6HR)



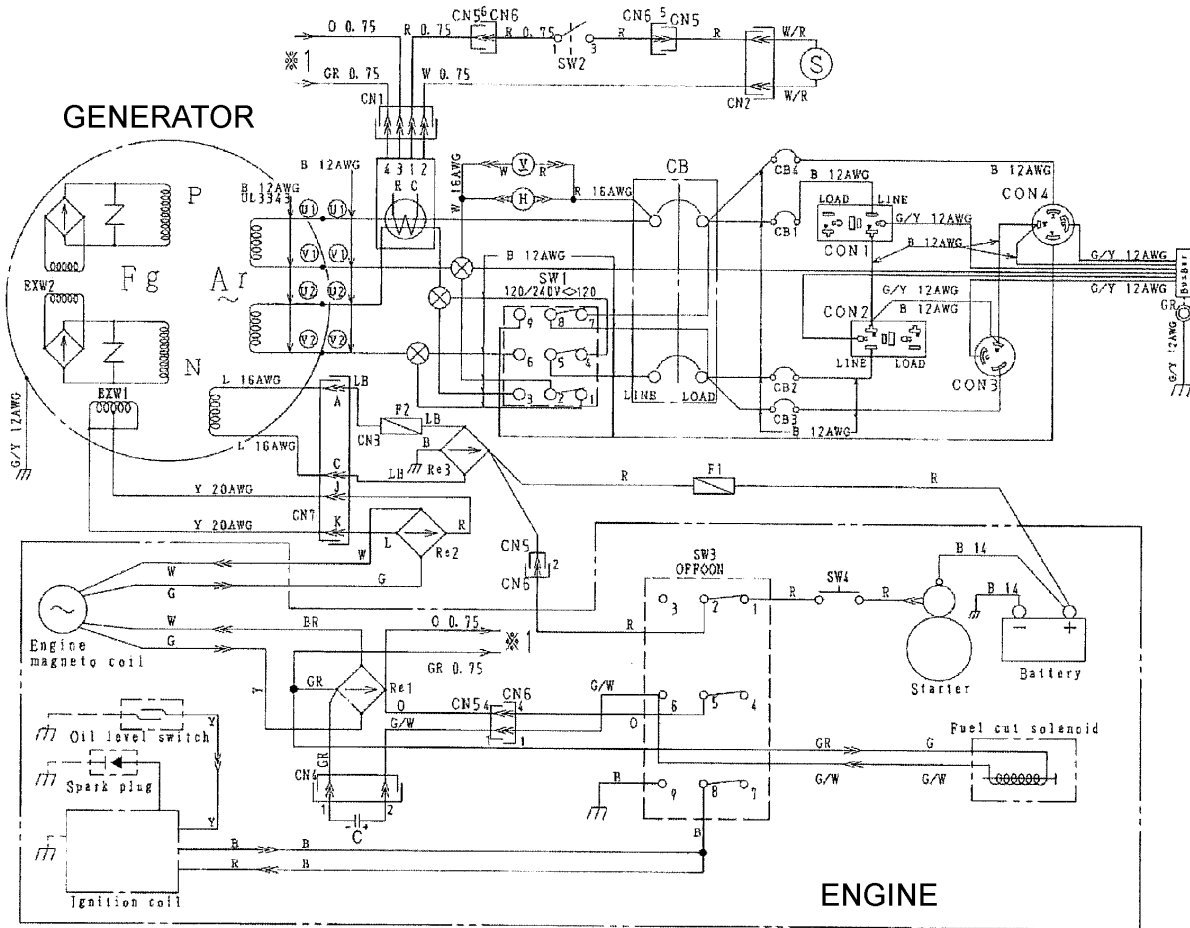
COLOR CODE			
WIRE COLOR	WIRE COLOR	WIRE COLOR	
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		



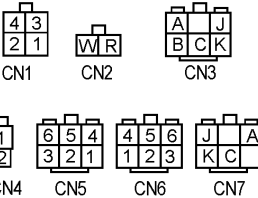
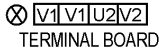
SYMBOL	DESIGNATION
A _r	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1-2	RECTIFIER
CB	CIRCUIT BREAKER 2P, 20A (MAIN)
CB1, 2	CIRCUIT BREAKER 1P, 20A
CB3, 4	CIRCUIT BREAKER 1P, 30A
CON 1, 2	RECEPTACLE 5-20R GFCI 20A, 125V
CON 3	RECEPTACLE L5-30R 20A 125V
CON 4	RECEPTACLE L14-30R 30A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
⊗	TERMINAL BOARD
H	HOUR METER
GR	GROUND TERMINAL

Figure 39. Generator Wiring Diagram (GAC6HR)

GENERATOR WIRING DIAGRAM (GAC6HRS)



COLOR CODE			
WIRE COLOR	WIRE COLOR	WIRE COLOR	WIRE COLOR
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		

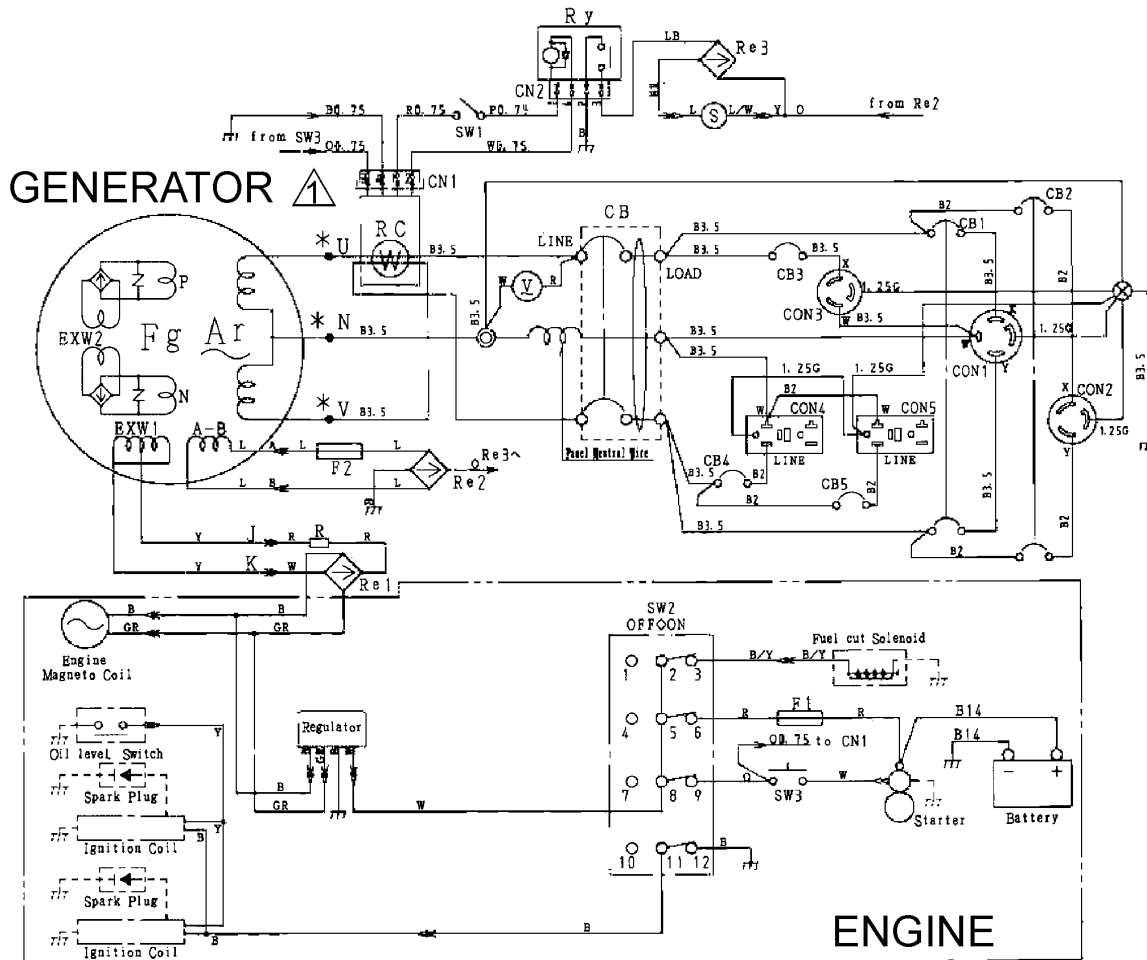


CONNECTOR ARRANGEMENT
(VIEW FROM INSERTING WIRE SIDE)

SYMBOL	DESIGNATION
Ar	ARMATURE WINDING
Fg-P, N	ROTOR ASSEMBLY
Ex W1	EXCITATION WINDING
Ex W2	EXCITATION WINDING
V	AC VOLTMETER 120/240V
RE 1-2	RECTIFIER
CB	CIRCUIT BREAKER 2P, 20A (MAIN)
CB1, 2	CIRCUIT BREAKER 1P, 20A
CB3, 4	CIRCUIT BREAKER 1P, 30A
CON 1, 2	RECEPTACLE 5-20R GFCI 20A, 125V
CON 3	RECEPTACLE L5-30R 20A 125V
CON 4	RECEPTACLE L14-30R 30A, 125/250V
SW1	FULL POWER SWITCH
SW2	IDLE CONTROL SWITCH
SW3	OPERATION SWITCH
SW4	STARTER SWITCH
RC	IDLE CONTROL DEVICE
S	IDLE CONTROL SOLENOID
C	CAPACITOR
F1, F2	FUSE
⊗	TERMINAL BOARD
H	HOUR METER
GR	GROUND TERMINAL

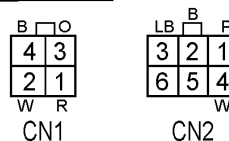
Figure 40. Generator Wiring Diagram (GAC6HRS)

GENERATOR WIRING DIAGRAM (S/N 5681188 AND BELOW)



SYMBOL	DESIGNATION
Ar	MAIN GENERATOR ARMATURE WINDING
Fg	MAIN GENERATOR FIELD WINDING
EXW1~2	EXCITATION WINDING
V	AC VOLT METER 120V/240V
Re1~3	RECTIFIER
CON1	RECEPTACLE, L14-30R, 120/240 VAC @ 30 AMPS
CON2	RECEPTACLE, L6-20R, 240 VAC @ 20 AMPS
CON3	RECEPTACLE, L5-30R, 120 VAC @ 30 AMPS
CON4-5	RECEPTACLE, 5-20R, 120 VAC @ 20 AMPS
CB	CIRCUIT BREAKER, 2P 35A
CB1	CIRCUIT BREAKER, 2P 30A
CB2	CIRCUIT BREAKER, 2P 20A
CB3	CIRCUIT BREAKER, 1P 30A
CB4~5	CIRCUIT BREAKER, 1P 20A
SW1	IDLE CONTROL SWITCH
SW2	OPERATION SWITCH
SW3	START SWITCH
RC	IDLE CONTROL DEVICE
F1~F2	FUSE, 10 AMP
R	RESISTOR
S	SOLENOID

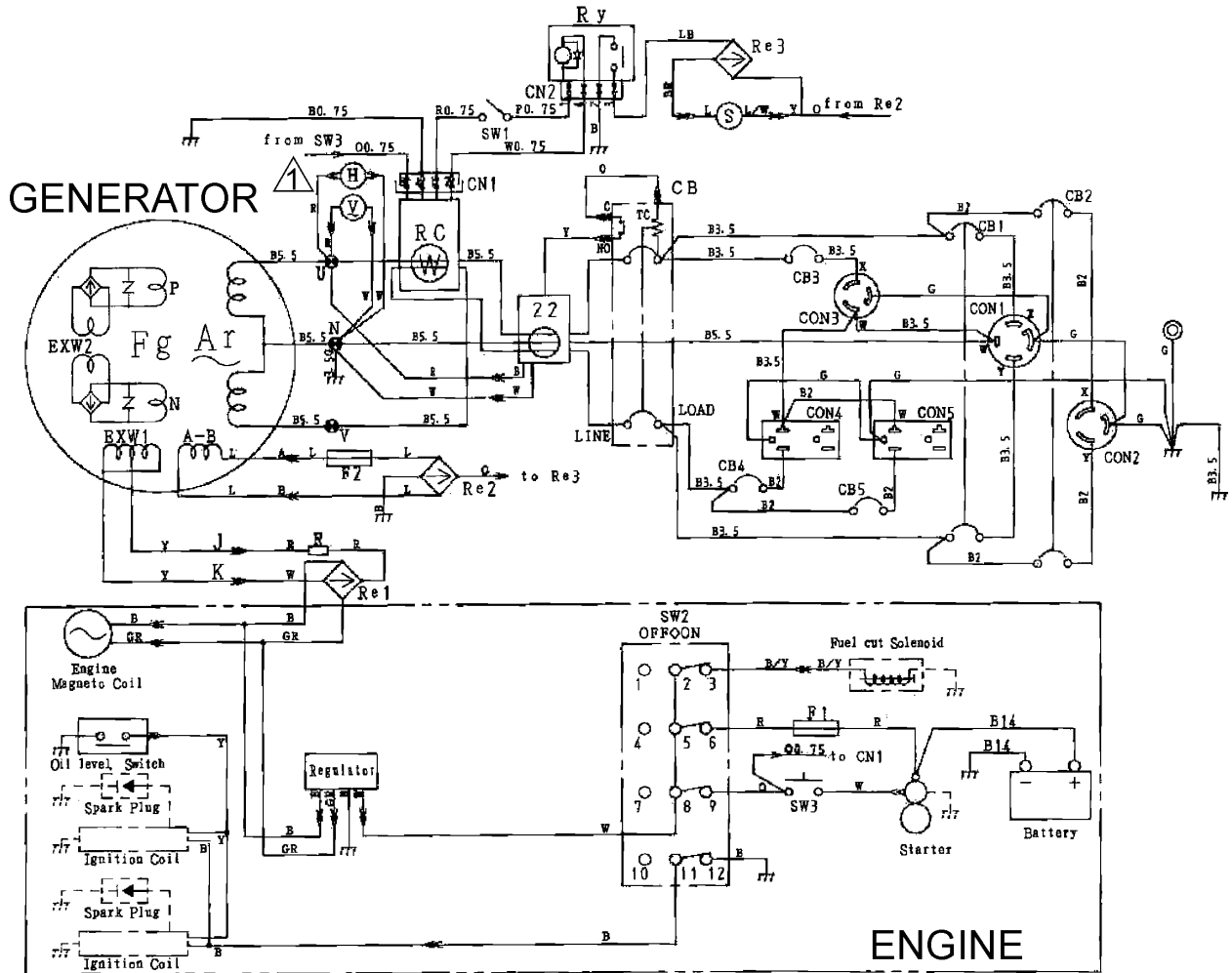
CODE/WIRE COLOR			
Symbol	Color	Symbol	Color
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		



CONNECTOR VIEWED AT WIRING SIDE

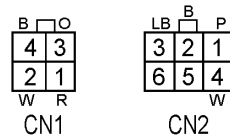
NOTE:
 HOUR METER AND GFCI SENSING MODULE NOT INCLUDED ON S/N 5681189 AND BELOW

GENERATOR WIRING DIAGRAM (S/N 5681189 AND ABOVE)



SYMBOL	DESIGNATION
Ar	MAIN GENERATOR ARMATURE WINDING
Fg	MAIN GENERATOR FIELD WINDING
EXW1~2	EXCITATION WINDING
V	AC VOLTMETER 120V/240V
Re1~3	RECTIFIER
CON1	RECEPTACLE, L14-30R, 120/240 VAC @ 30 AMPS
CON2	RECEPTACLE, L6-20R, 240 VAC @ 20 AMPS
CON3	RECEPTACLE, L5-30R, 120 VAC @ 30 AMPS
CON4-5	RECEPTACLE, 5-20R, 120 VAC @ 20 AMPS
CB	CIRCUIT BREAKER, 2P 35A
CB1	CIRCUIT BREAKER, 2P 30A
CB2	CIRCUIT BREAKER, 2P 20A
CB3	CIRCUIT BREAKER, 1P 30A
CB4-5	CIRCUIT BREAKER, 1P 20A
SW1	IDLE CONTROL SWITCH
SW2	OPERATION SWITCH
SW3	START SWITCH
RC	IDLE CONTROL DEVICE
F1~F2	FUSE, 10 AMP
⊕	TERMINAL BOARD
R	RESISTOR
H	HOUR METER
22	GFCI SENSING MODULE
S	SOLENOID

CODE/WIRE COLOR			
Symbol	Color	Symbol	Color
B	BLACK	R	RED
L	BLUE	W	WHITE
BR	BROWN	Y	YELLOW
G	GREEN	LB	LIGHT BLUE
GR	GRAY	LG	LIGHT GREEN
V	VIOLET	O	ORANGE
P	PINK		

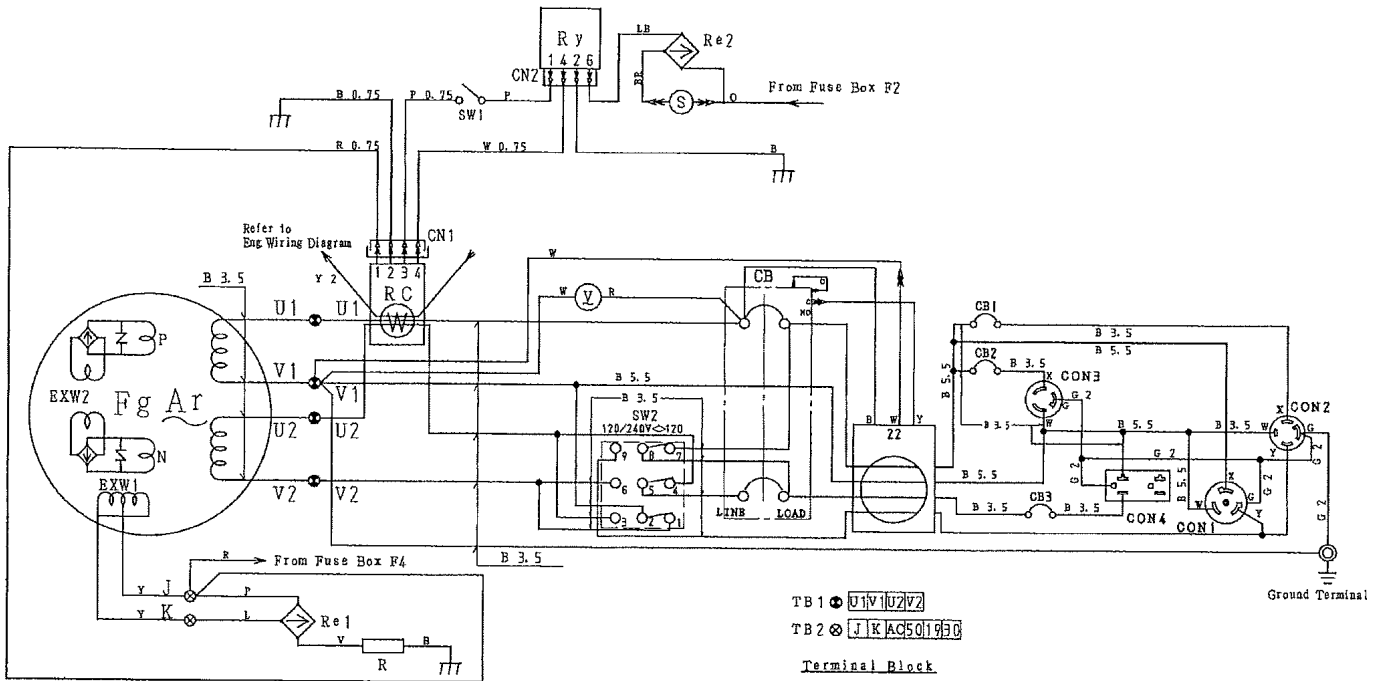


CONNECTOR VIEWED AT WIRING SIDE

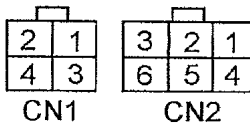
NOTE:

HOUR METER NOT INCLUDED WITH S/N 5681189 ~ 5741196
 S/N 5741197 AND ABOVE INCLUDE HOUR METER

GENERATOR WIRING DIAGRAM



WIRING COLOR CODE	
SYMBOL	COLOR
B	BLACK
L	BLUE
BR	BROWN
G	GREEN
GR	GRAY
V	VIOLET
P	PINK
R	RED
W	WHITE
Y	YELLOW
LB	LIGHT BLUE
LG	LIGHT GREEN
O	ORANGE

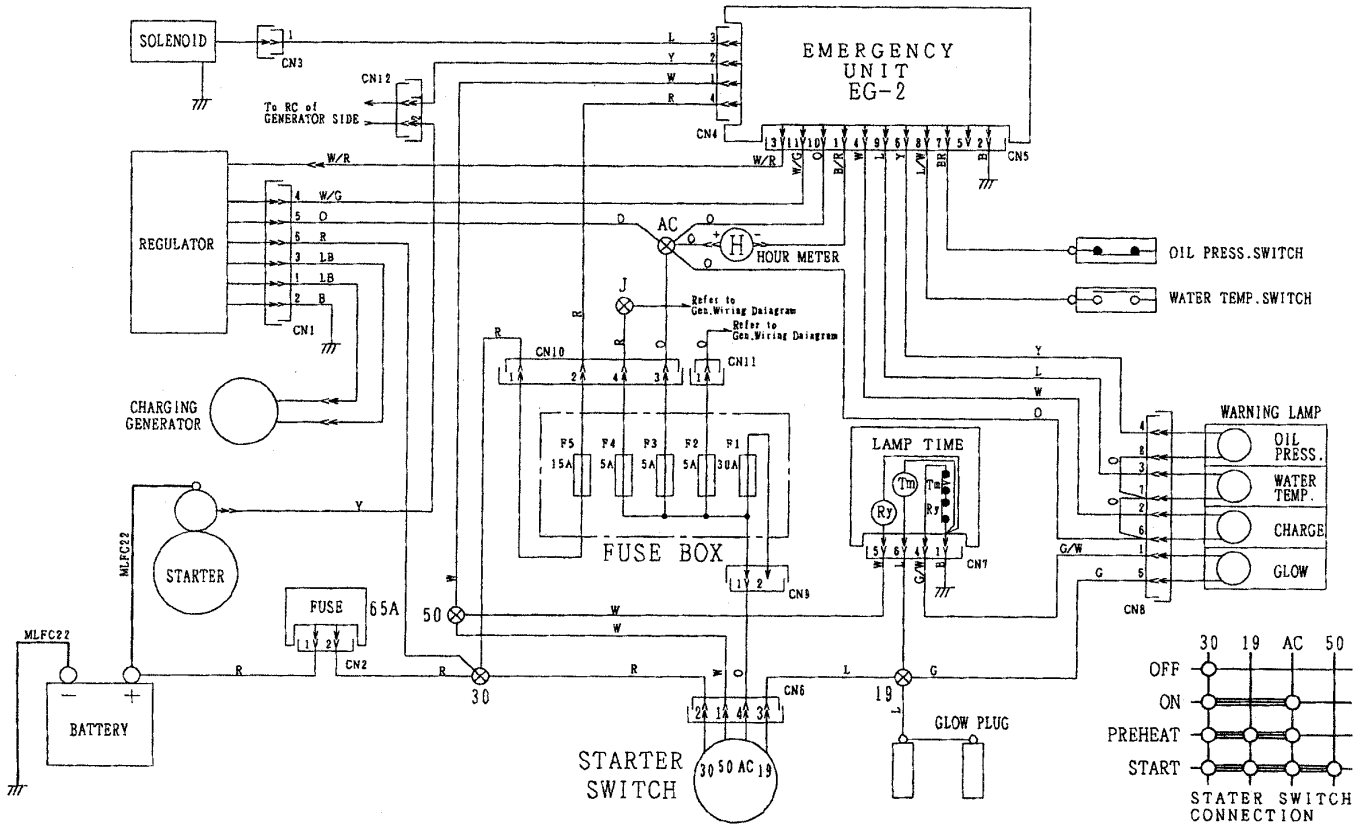


SYMBOL	PARTS NAME
Ar	Armature Winding
Fg	Field Winding
EXW1~2	Excitation Winding
V	AC Voltmeter
Re 1~2	Rectifier
CN1	Receptacle (120V/240V, 50A)
CN2	Receptacle (120V/240V, 30A)
CN3	Receptacle (120V, 30A)
CN4	Receptacle (120V, 20A)
CB	Circuit Breaker (FOR MAIN)
CB1	Circuit Protector (FOR 120/240V, 30A)
CB2	Circuit Protector (FOR 120V, 30A)
CB3	Circuit Protector (FOR 120V, 20A)
22	GFCI Sensing Module
SW1	Idle Control Switch
SW2	Full Power Switch
RC	Idle Control Device
S	Solenoid
Ry	Relay
R	Resistor

Figure 47. Generator Wiring Diagram (DA7000SSA2/SSA2GH SERIES)

DA7000SSA2/SSA2GH GENERATOR— REV. #2 (01/24/18)

ENGINE WIRING DIAGRAM



CONNECTOR VIEWED AT WINDING SIDE

WIRING COLOR CODE	
SYMBOL	COLOR
B	BLACK
L	BLUE
BR	BROWN
G	GREEN
GR	GRAY
V	VIOLET
P	PINK
R	RED
W	WHITE
Y	YELLOW
LB	LIGHT BLUE
LG	LIGHT GREEN
O	ORANGE

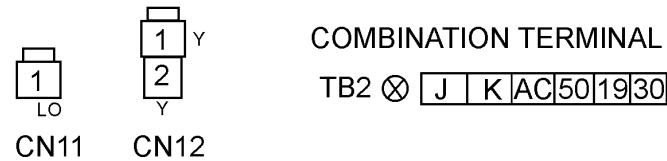
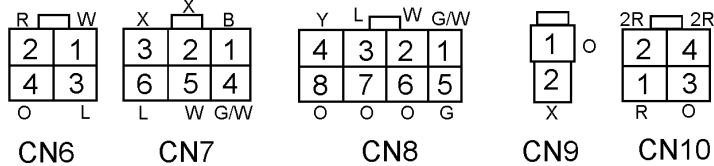
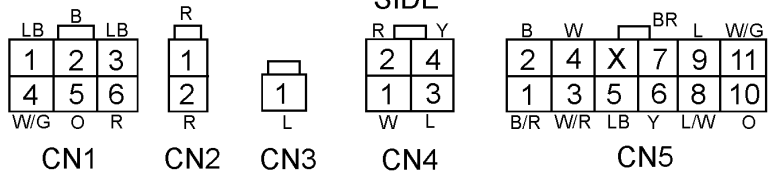
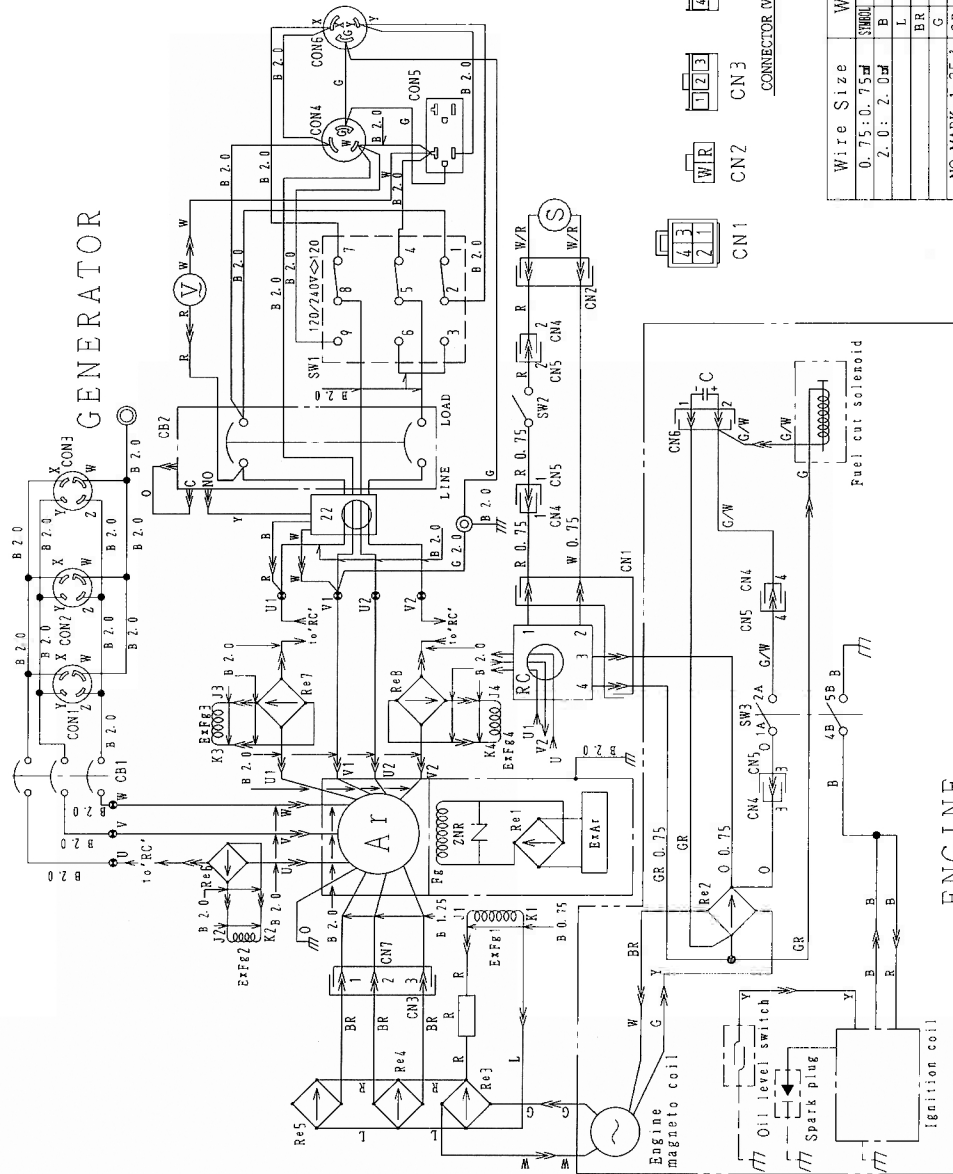


Figure 48. Engine Wiring Diagram

14. WIRING DIAGRAM

SYMBOL	PARTS NAME
Ar	Armature Winding
Fg-P, N	Field Winding
Exfg1	Excitation Winding
Exfg2~4	Excitation Winding
CON1~3	Receptacle 120/208V, 20A
CON4	Receptacle 15-30A 30A, 175V
CON5	Receptacle 5-20A 20A, 175V
CON6	Receptacle 16-20A 20A, 250V
V	AC Voltmeter 120/240V
Re1	Rectifier
Re2~5	Rectifier
Re6~8	Rectifier
CB1	Anti Leakage Circuit Breaker (ALC) 12.5A
CB2	AC Circuit Breaker 15A
ZZ	GFCI Sensing Module 120V
SW1	Full Power Switch
SW2	Idle Control Switch
SW3	Operation Switch
RC	Idle Control Solenoid
R	Resistor
C	Condenser
⊕	Terminal Board

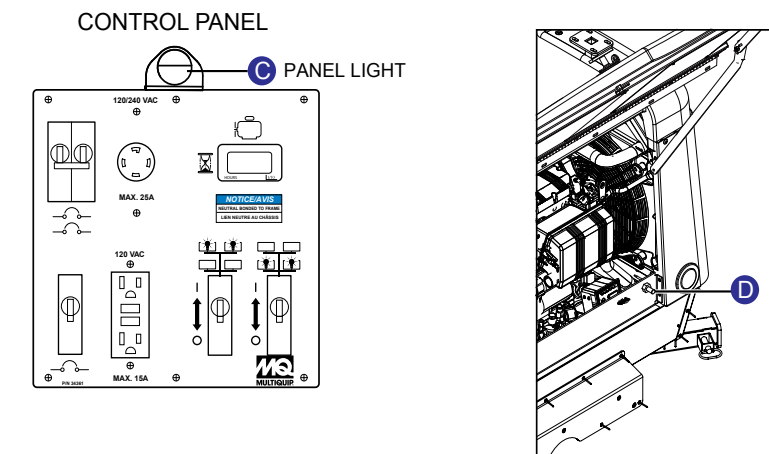
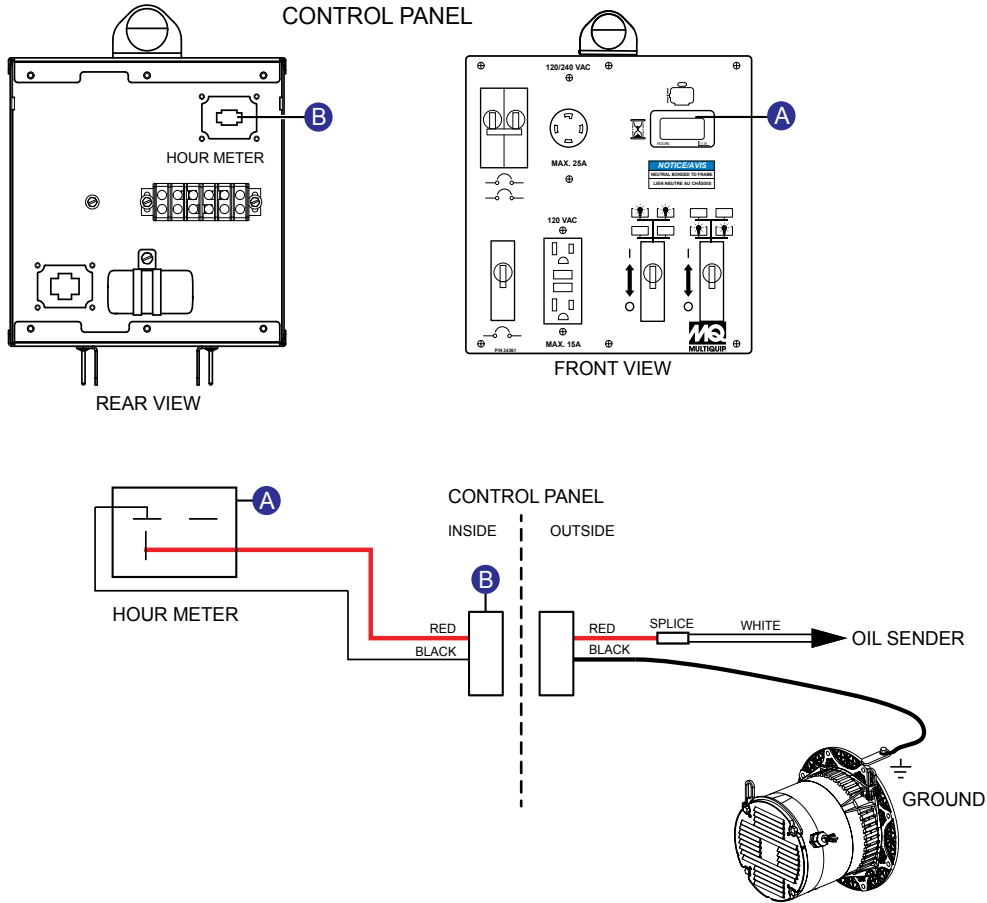


- CN1
 - CN2
 - CN3
 - CN4
 - CN5
 - CN6
 - CN7
- CONNECTOR (Viewed at Wiring Side)

Wire Size	SYMBOL	COLOR	SYMBOL	COLOR
0.75: 0.75	W	BLACK	R	RED
2.0: 2.0	B	BLUE	W	WHITE
	L	BROWN	Y	YELLOW
	G	GREEN	LB	LIGHT BLUE
NO MARK: 1.25	GR	GRAY	LG	LIGHT GREEN
	V	VIOLET	O	ORANGE
	P	PINK		

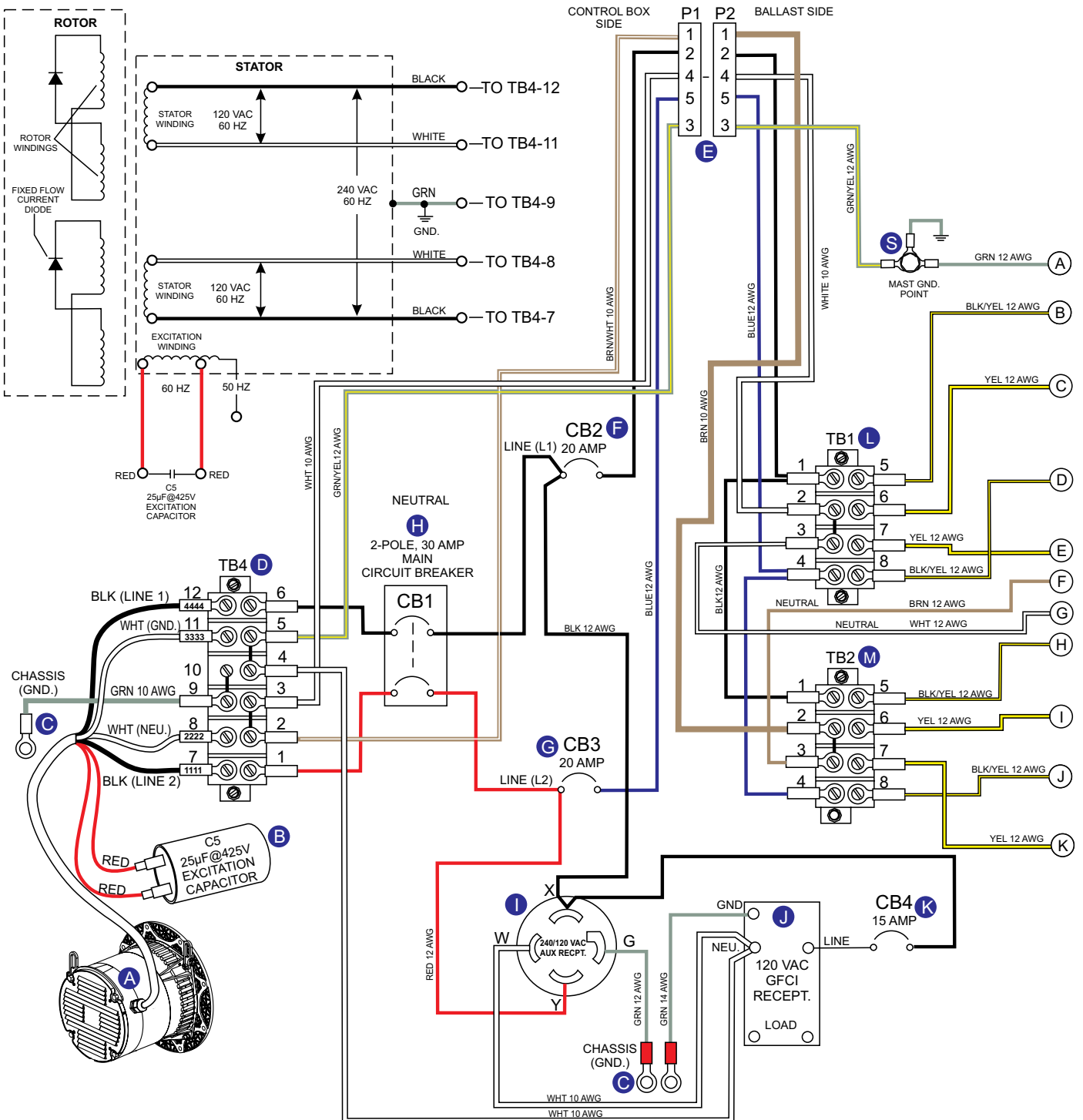
GDP5HA

PANEL LIGHT/HOUR METER WIRING DIAGRAM



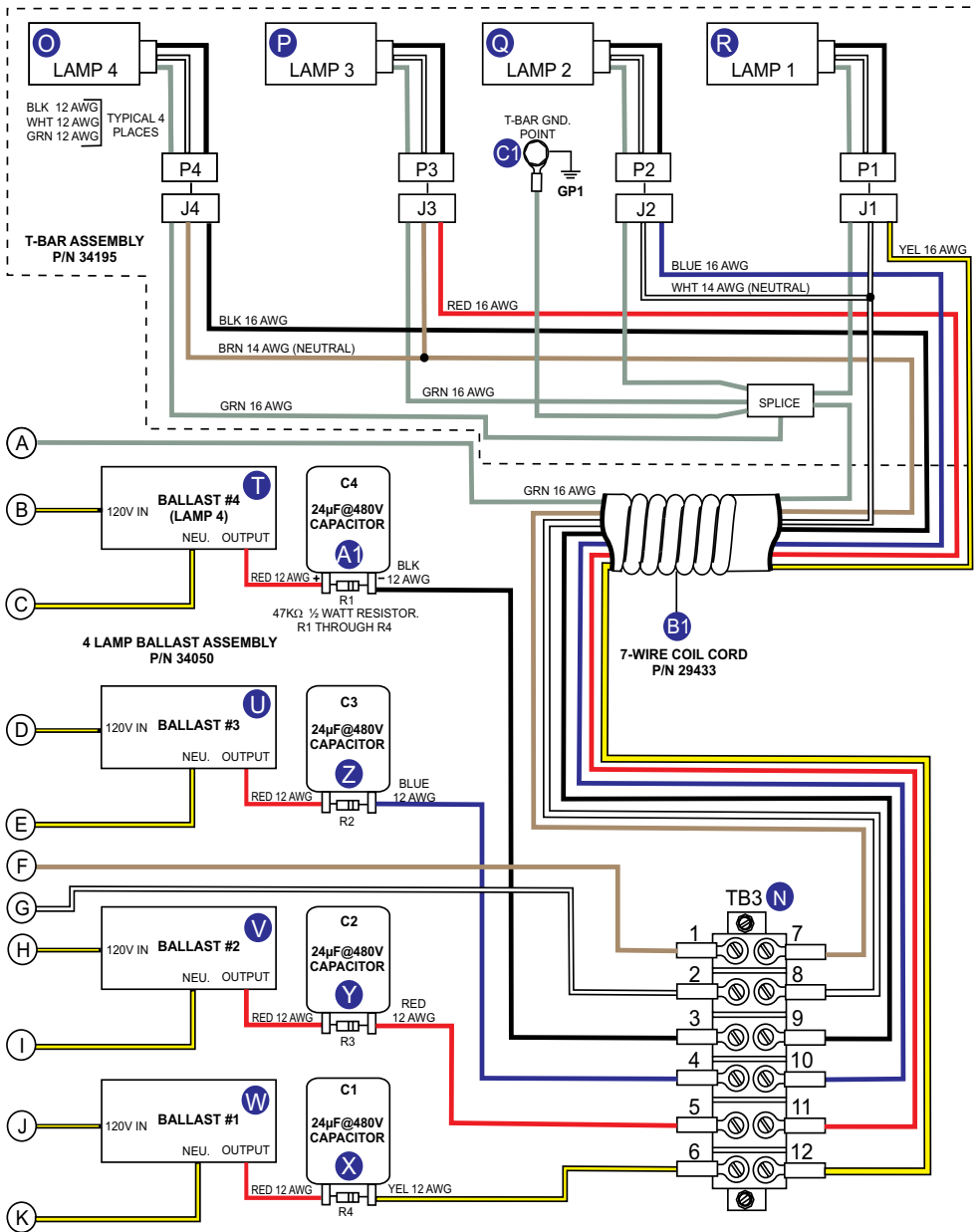
LT6K LIGHT TOWER — REV. #3 (08/06/15)

WIRING DIAGRAM (GENERATOR/LIGHTS)

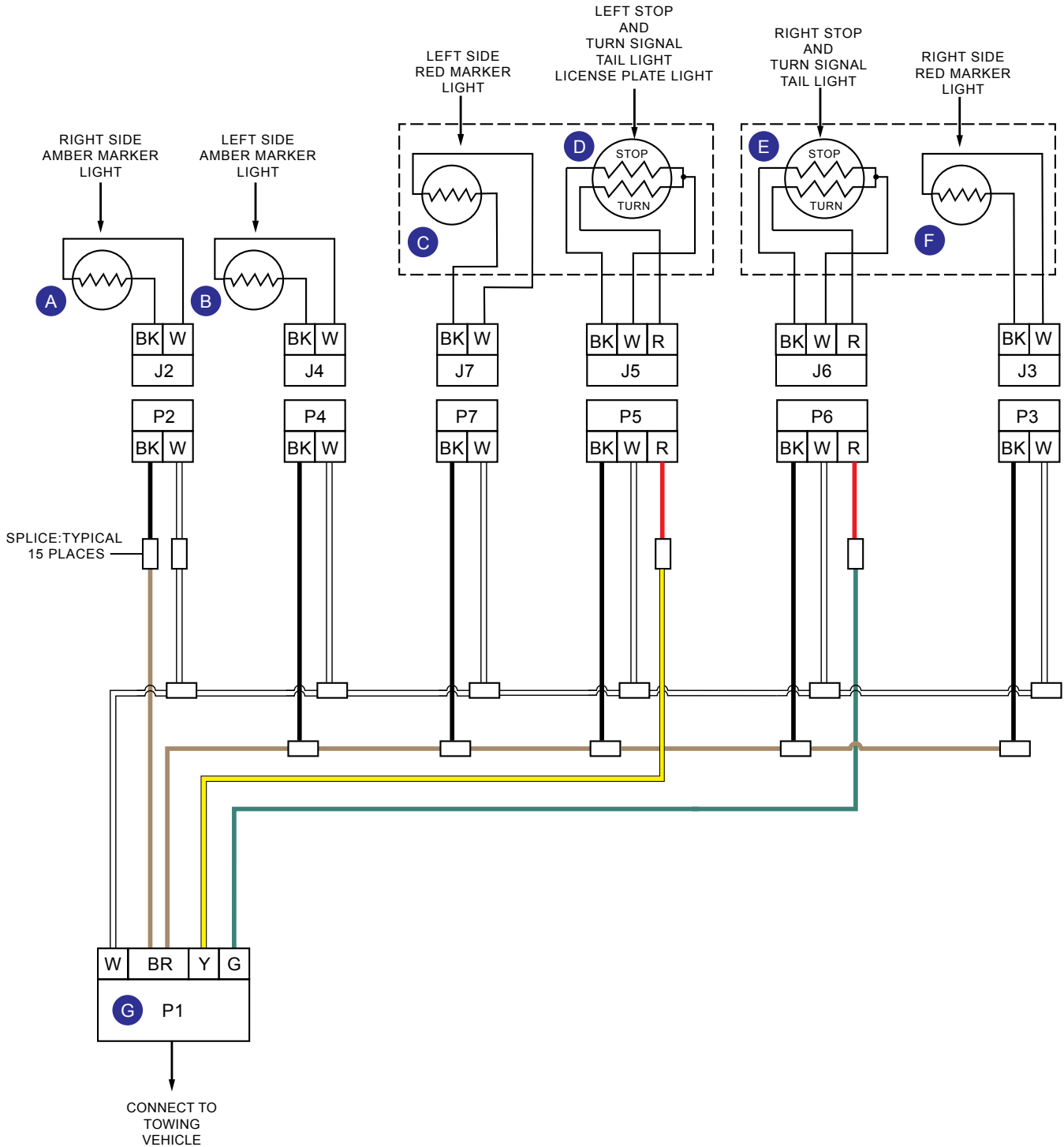


LT6K LIGHT TOWER — REV. #3 (08/06/15)

WIRING DIAGRAM (GENERATOR/LIGHTS)

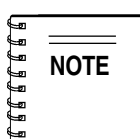
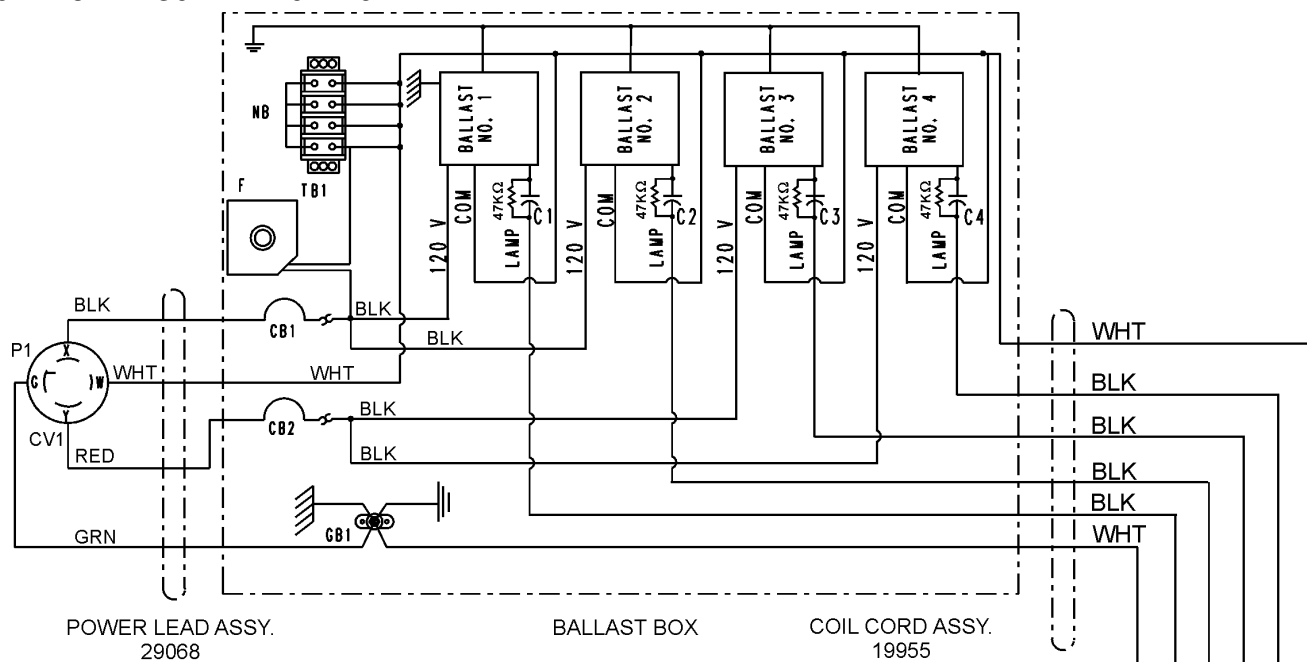


LIGHTS WIRING DIAGRAM

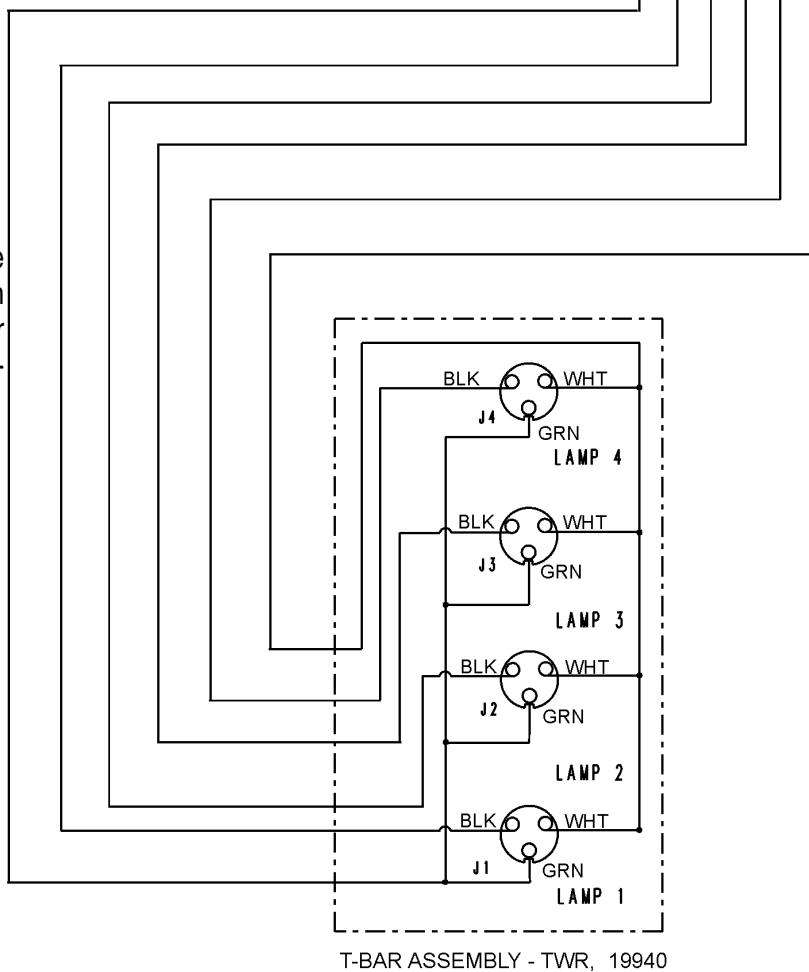


MODULAR LIGHT TOWER — SCHEMATIC DIAGRAM

LIGHT TOWER SCHEMATIC DIAGRAM

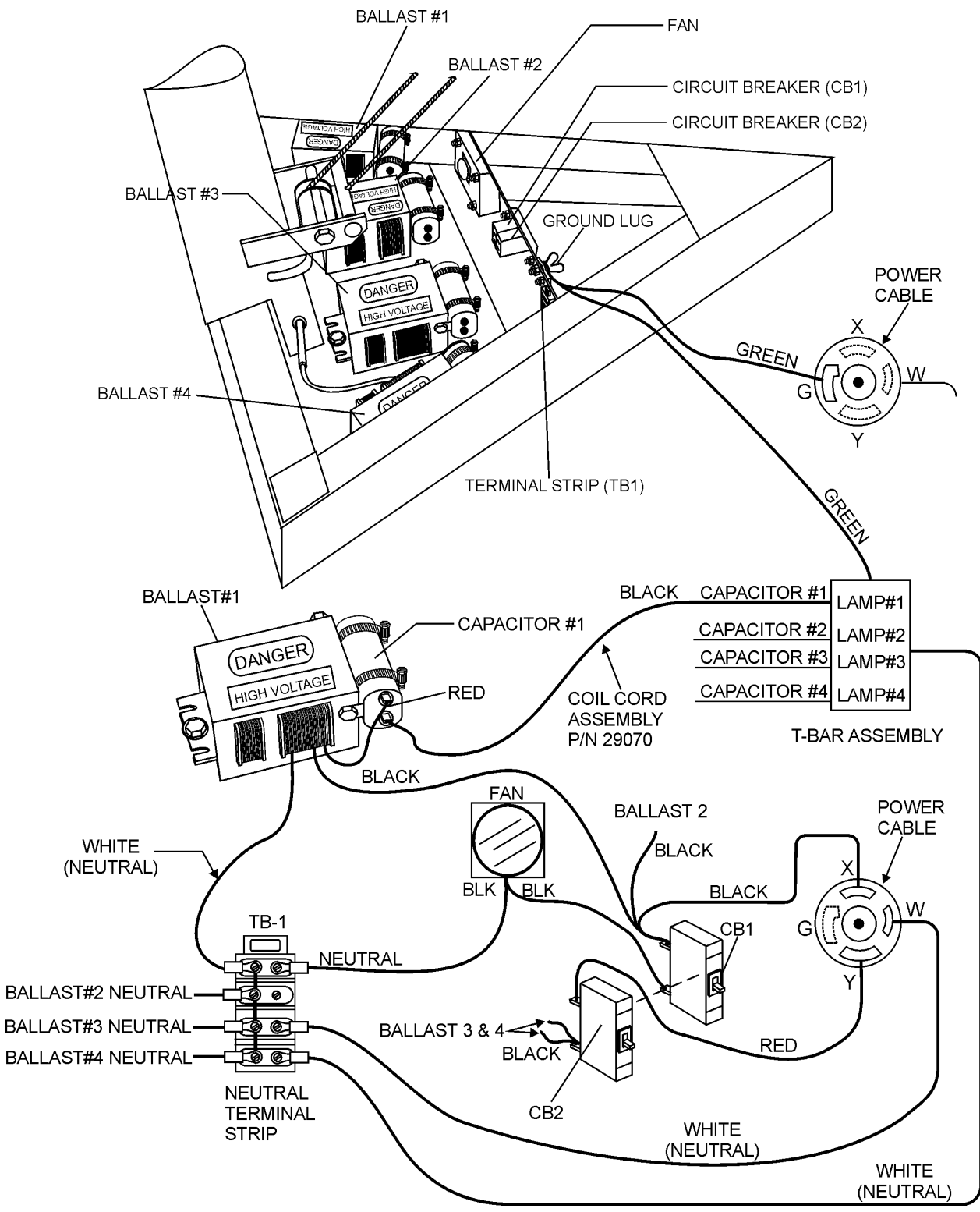


Capacitors C1 thru C4 are 480 VAC, 24μf. In addition a 47K Ω (1/2 watt) resistor is installed across the capacitor terminals.



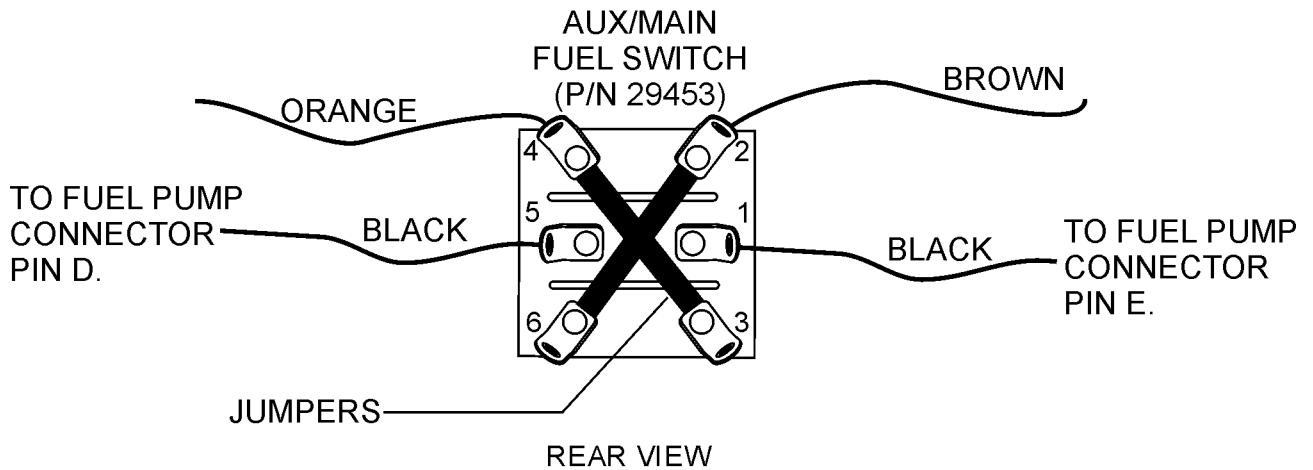
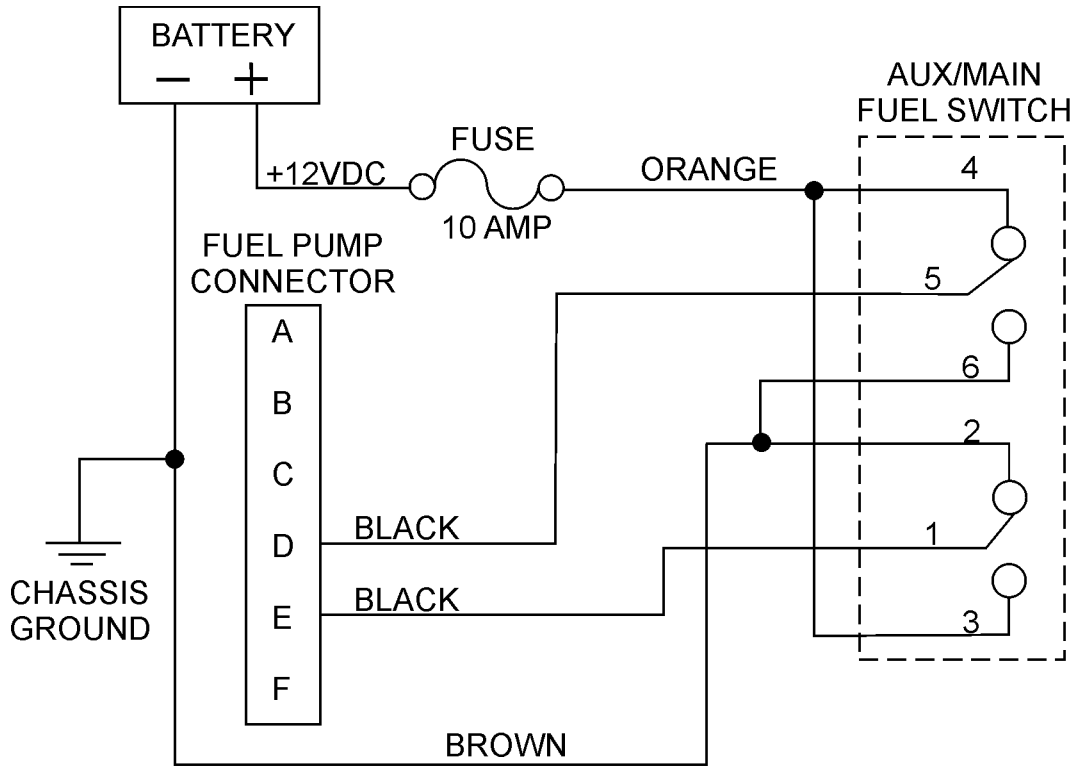
MODULAR LIGHT TOWER — BALLAST COMPARTMENT WIRING DIAGRAM.

BALLAST COMPARTMENT WIRING DIAGRAM



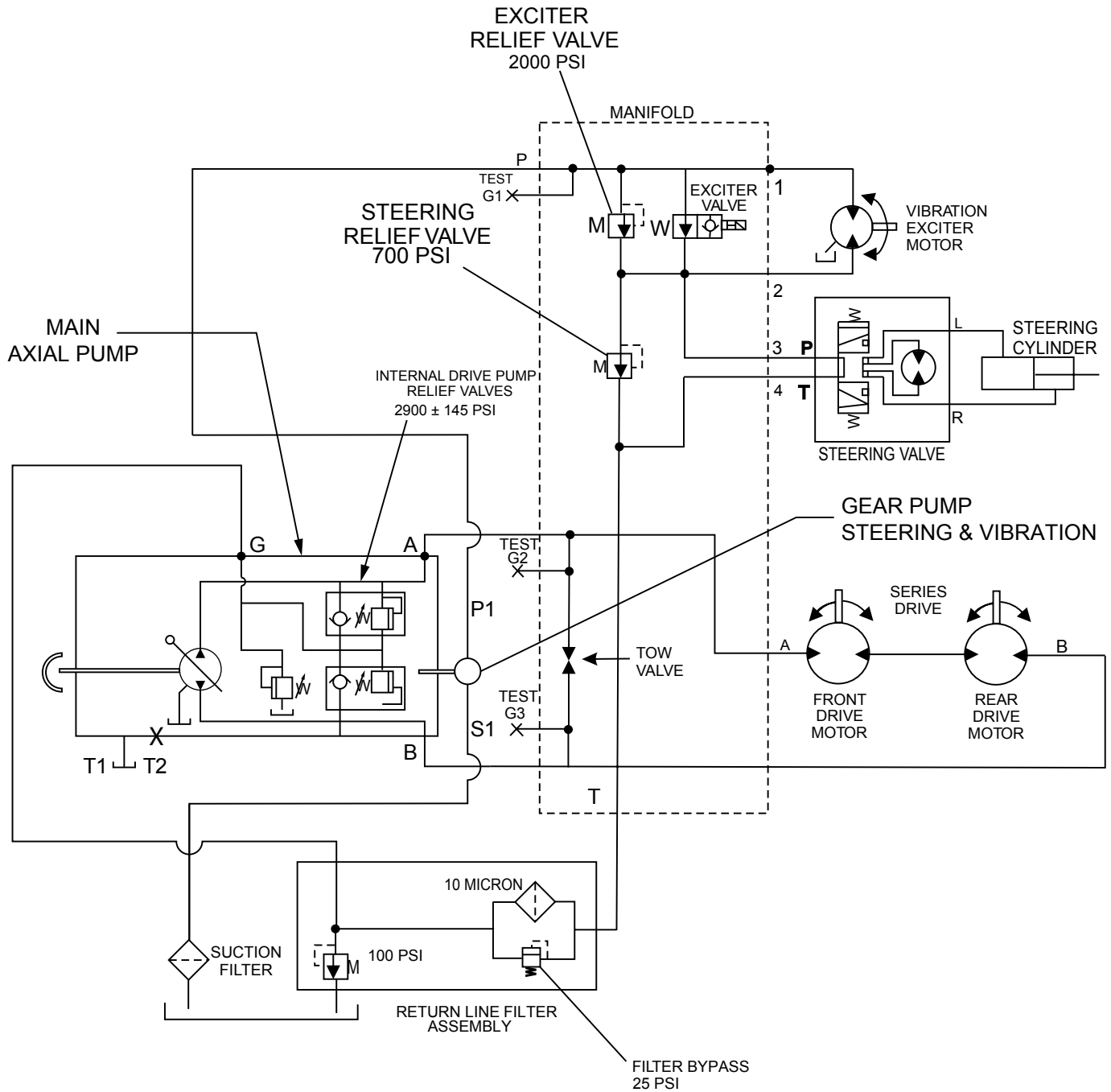
MODULAR LIGHT TOWER— ELECTRIC SWITCH WIRING DIAGRAM

ELECTRIC FUEL SWITCH WIRING DIAGRAM.

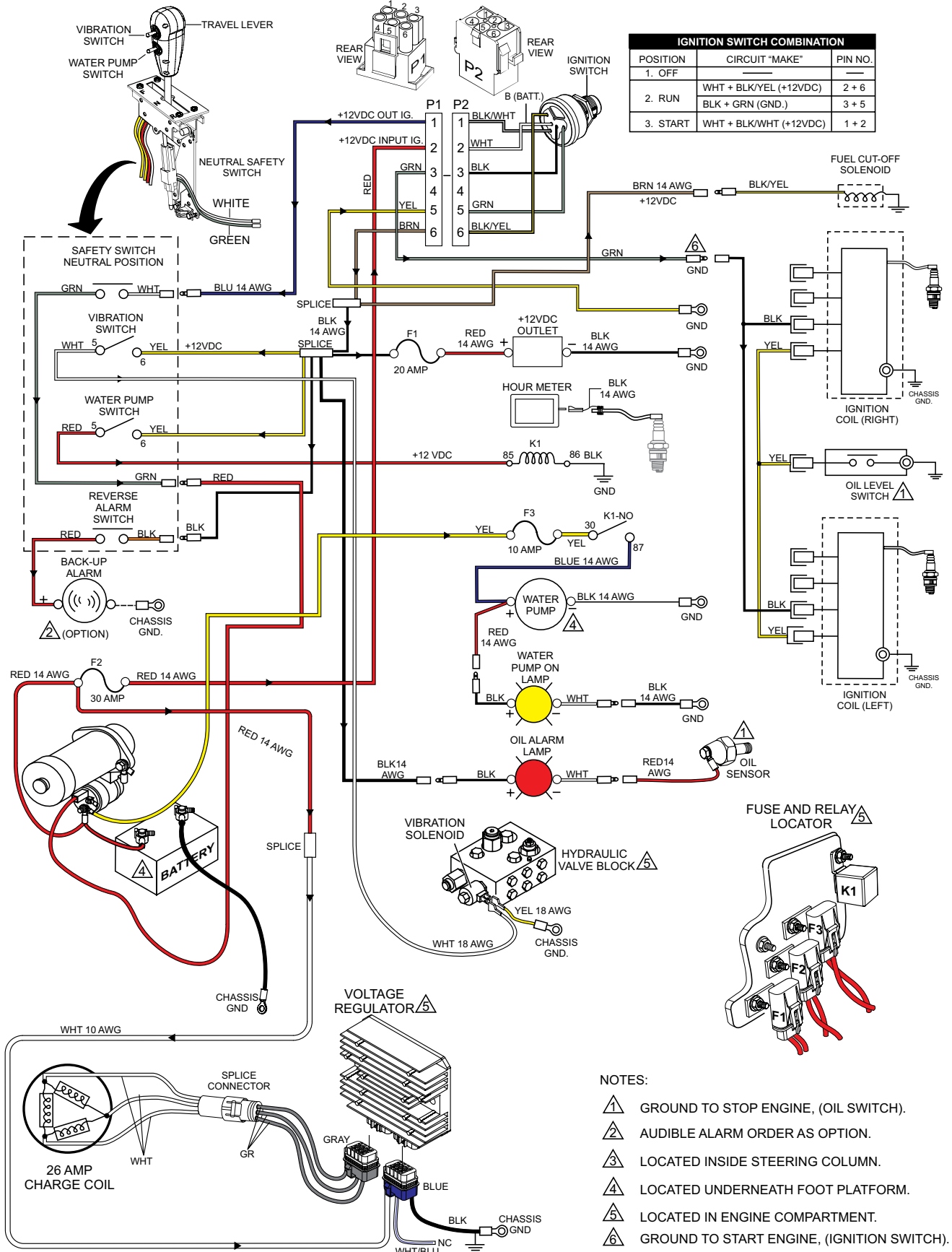


NOTE:
SWITCH POSITION SHOWN
IS FOR THE AUXILIARY
FUEL TANK (UP). DOWN
POSITION OF SWITCH
IS FOR MAIN TANK.

HYDRAULIC SYSTEM DIAGRAM



WIRING DIAGRAM



AR14H RIDE-ON ROLLER — REV. #2 (04/28/15)

14.2 Rammax 1575 hydraulic circuit diagram

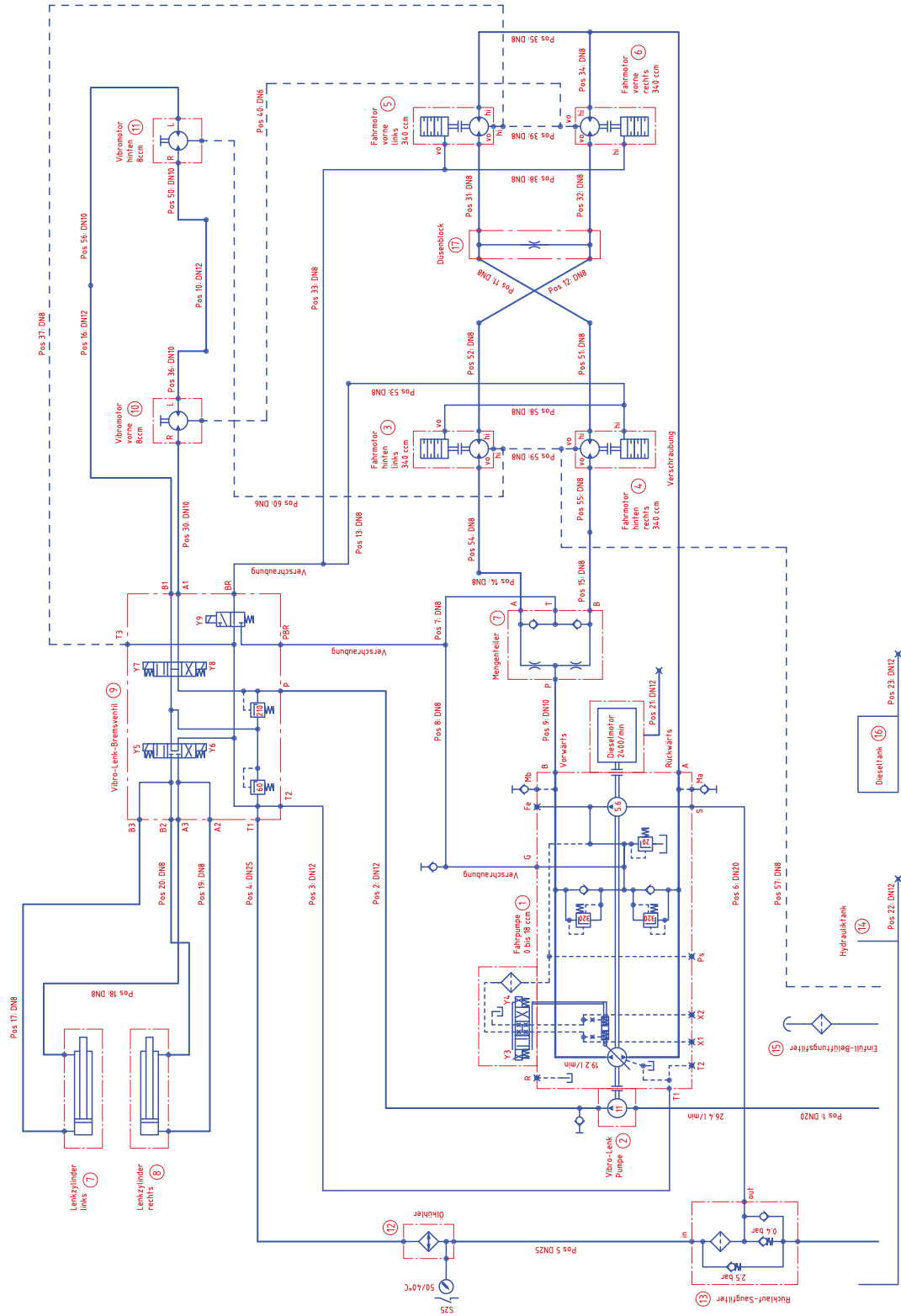


Fig. 14-2 Hydraulics diagram no. 10442344

14.1

Rammax 1575 wiring diagram

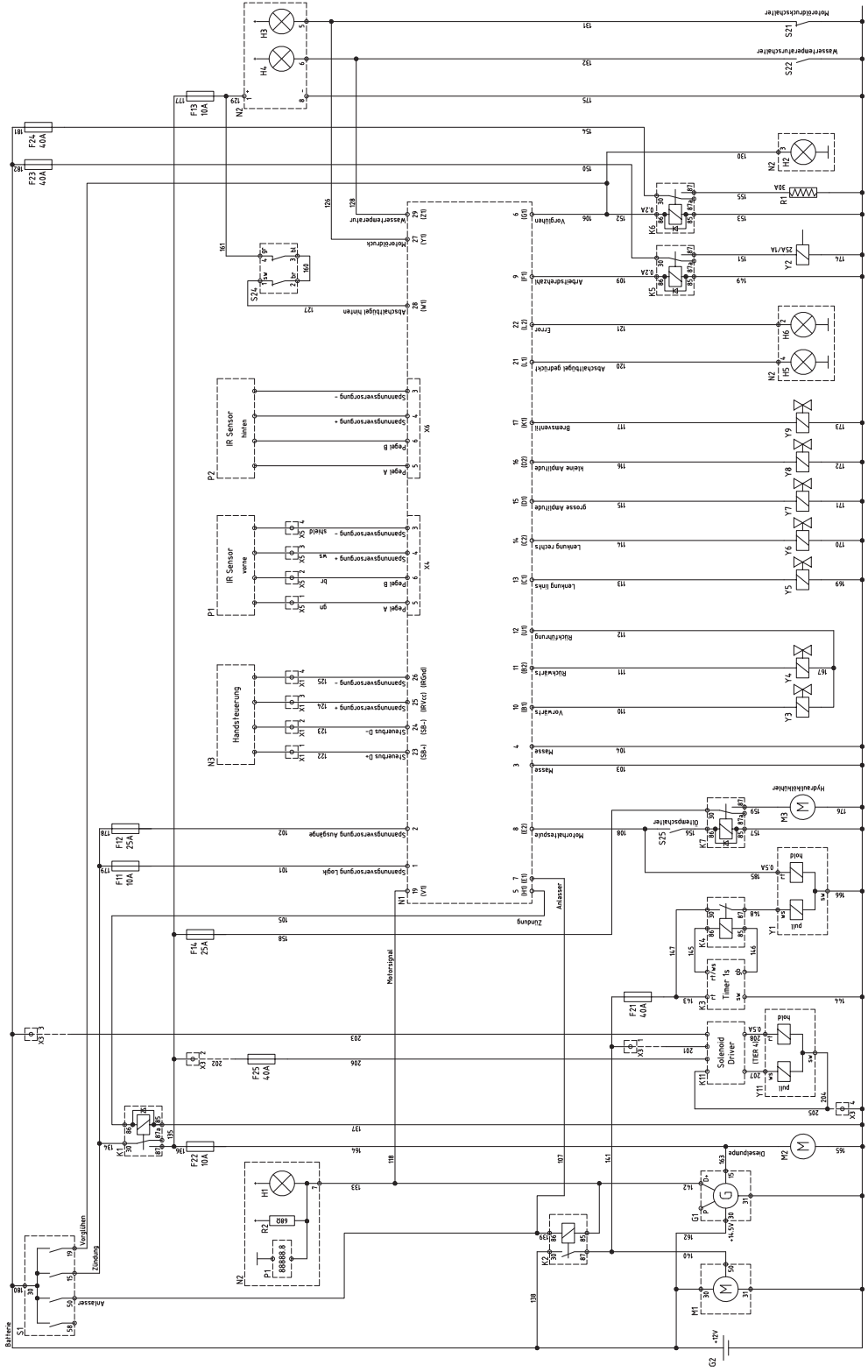
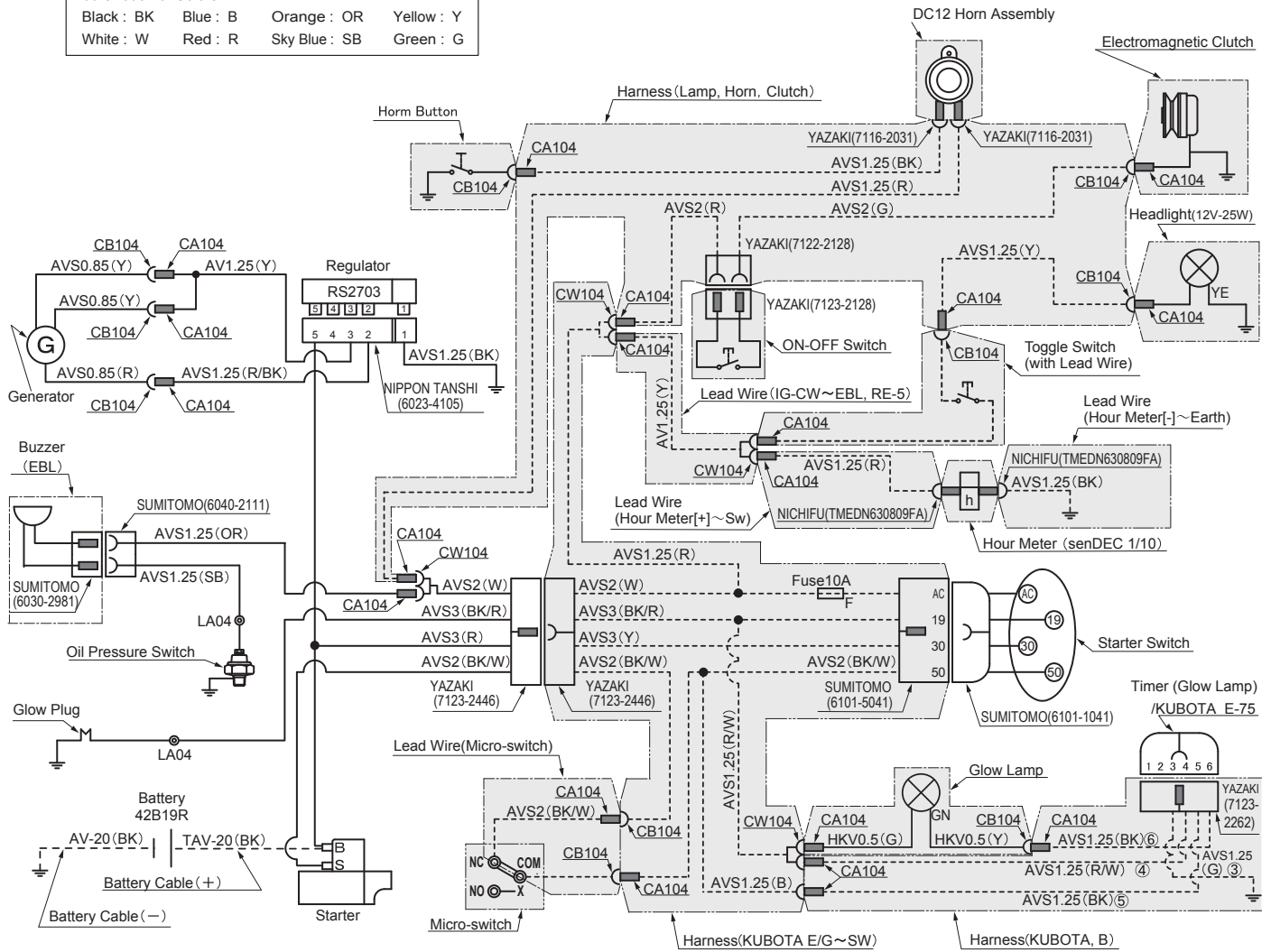
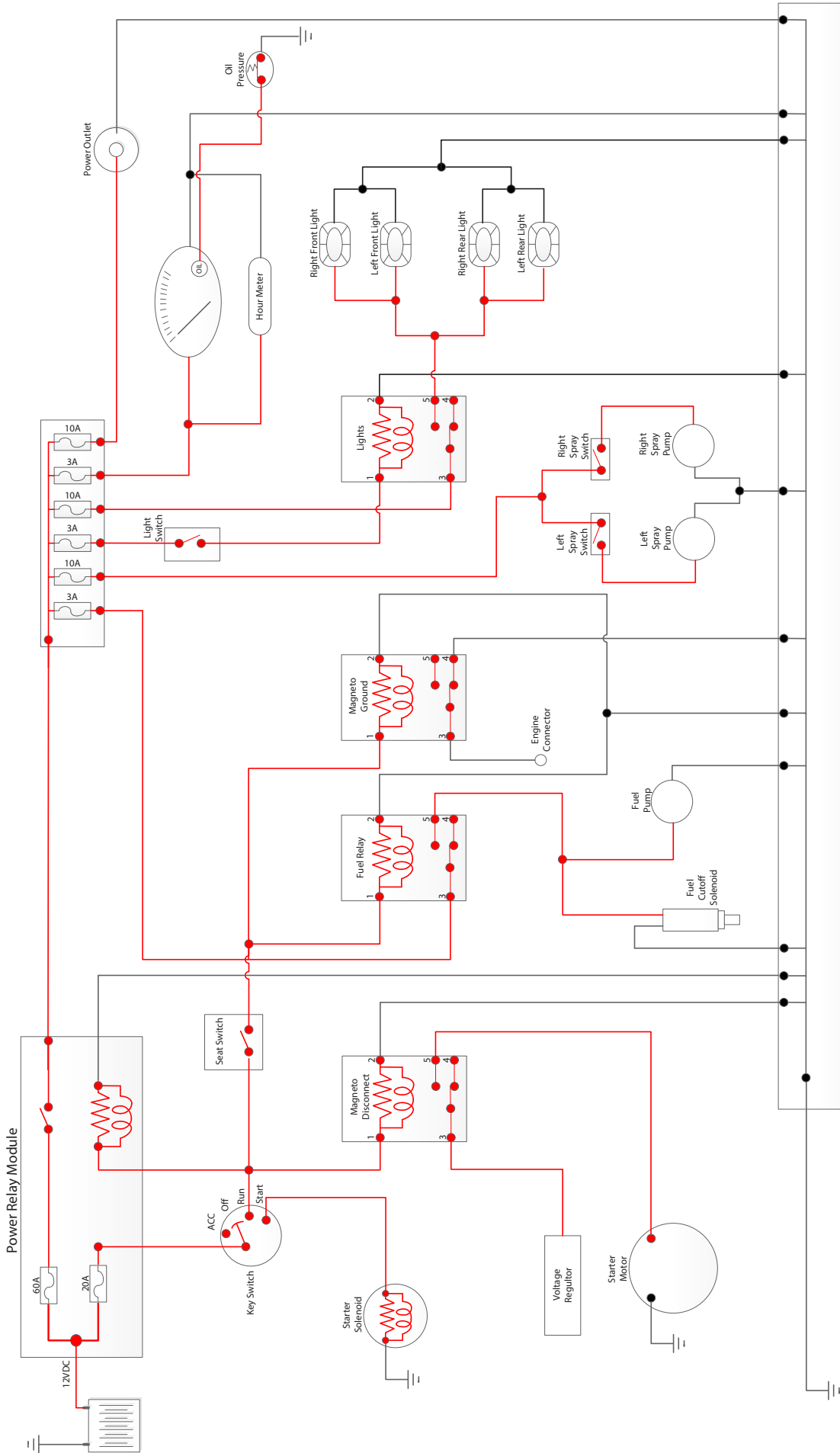


Fig. 14-1 Wiring diagram no. 10378070

WIRING DIAGRAM

Abbreviation of Colors			
Black : BK	Blue : B	Orange : OR	Yellow : Y
White : W	Red : R	Sky Blue : SB	Green : G





HHNG5 WIRING DIAGRAM

WIRING DIAGRAM

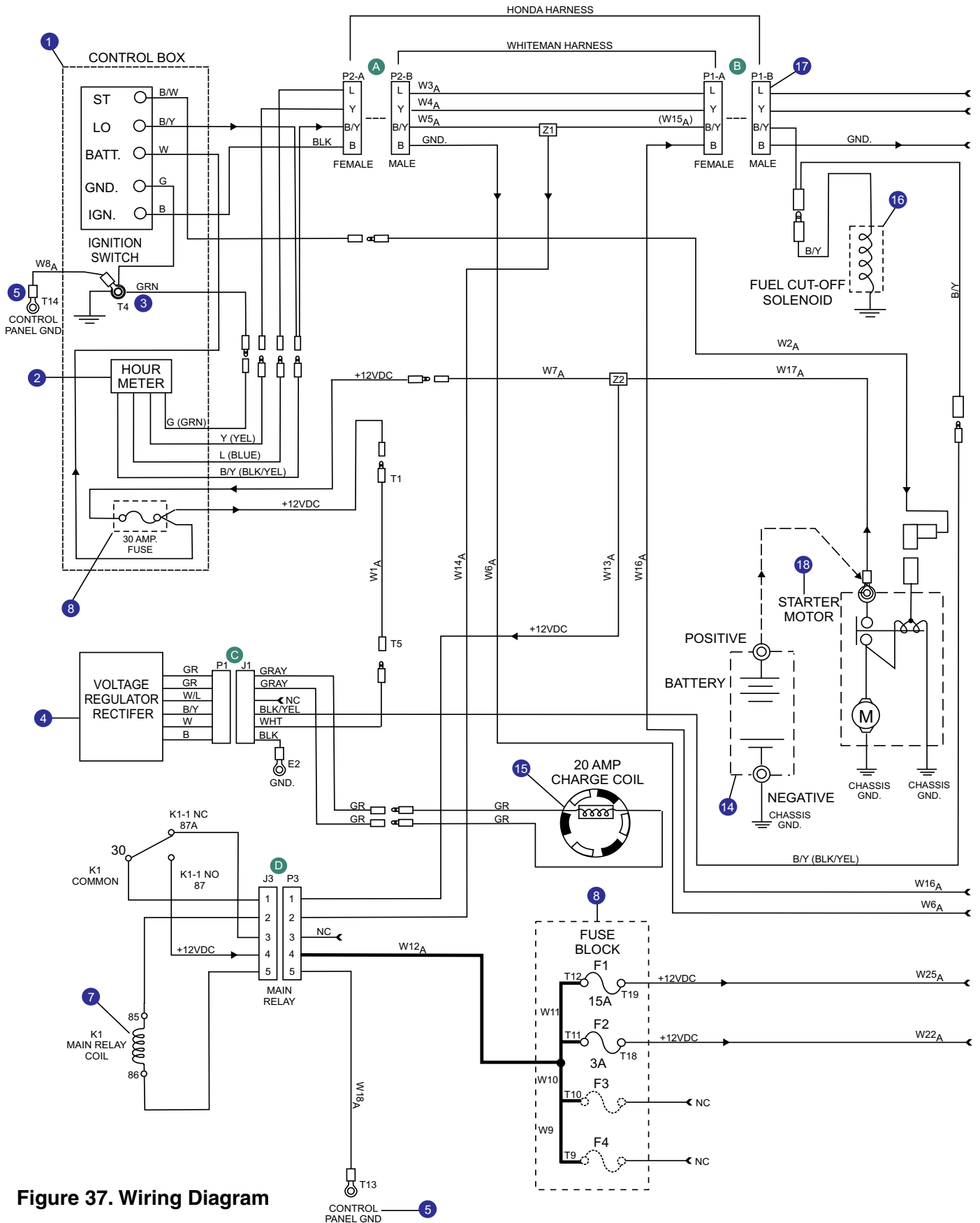
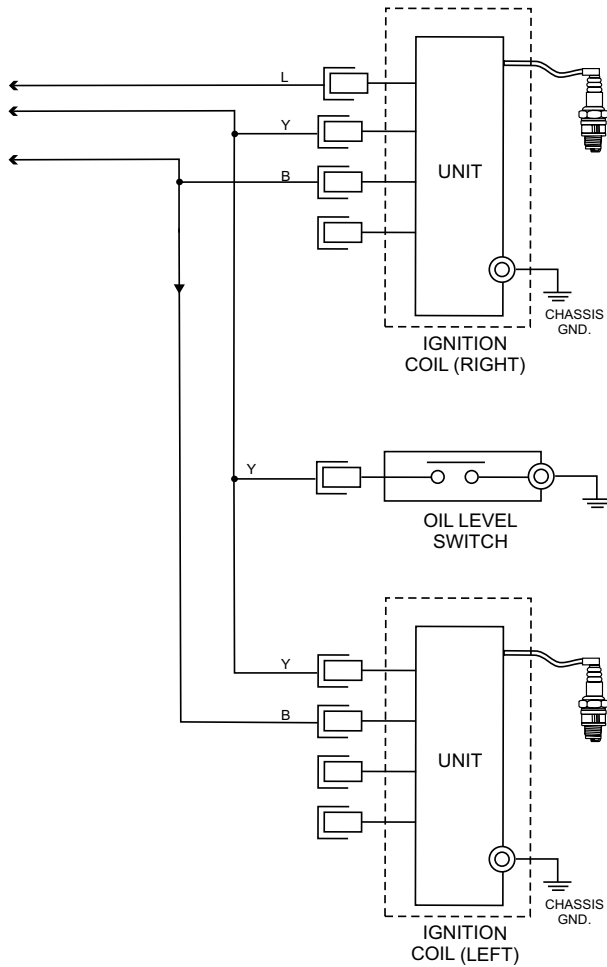


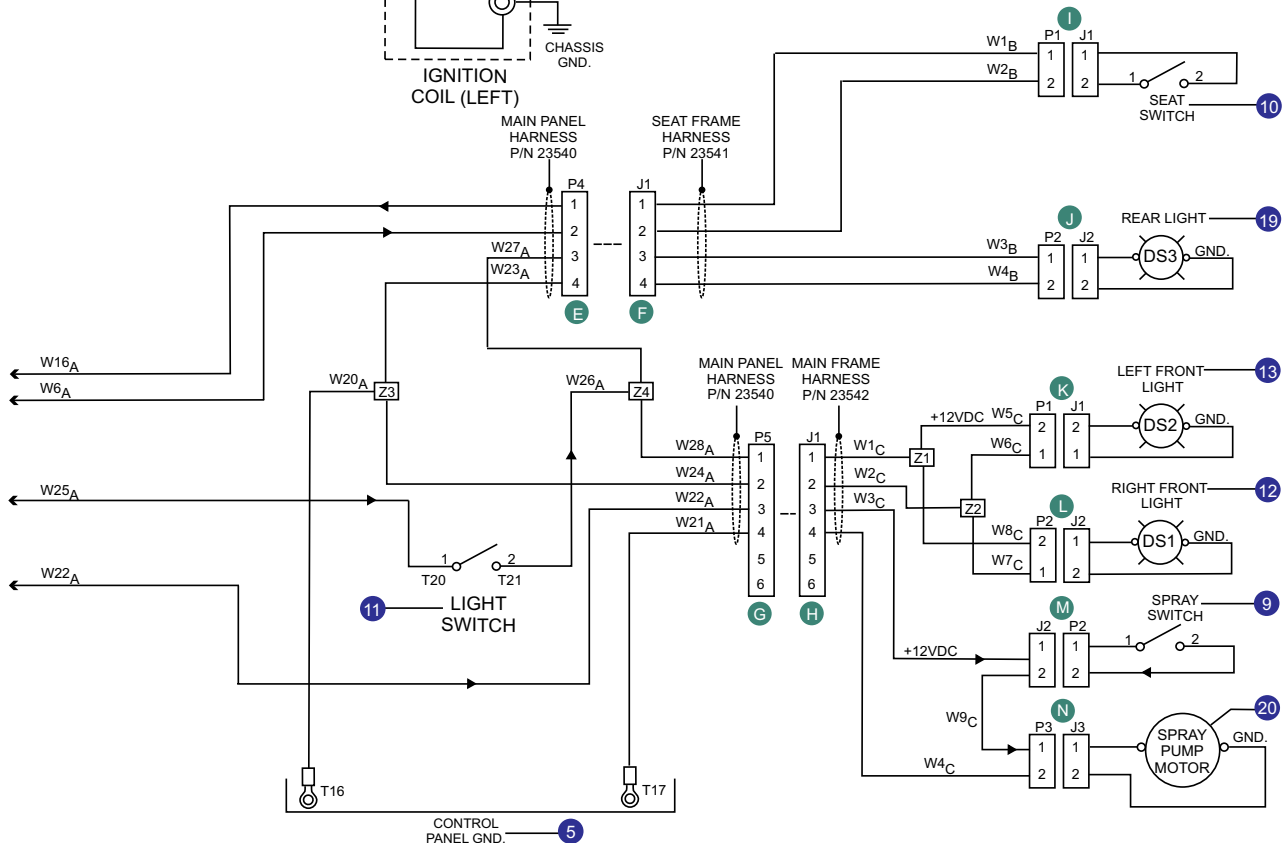
Figure 37. Wiring Diagram

WIRING DIAGRAM



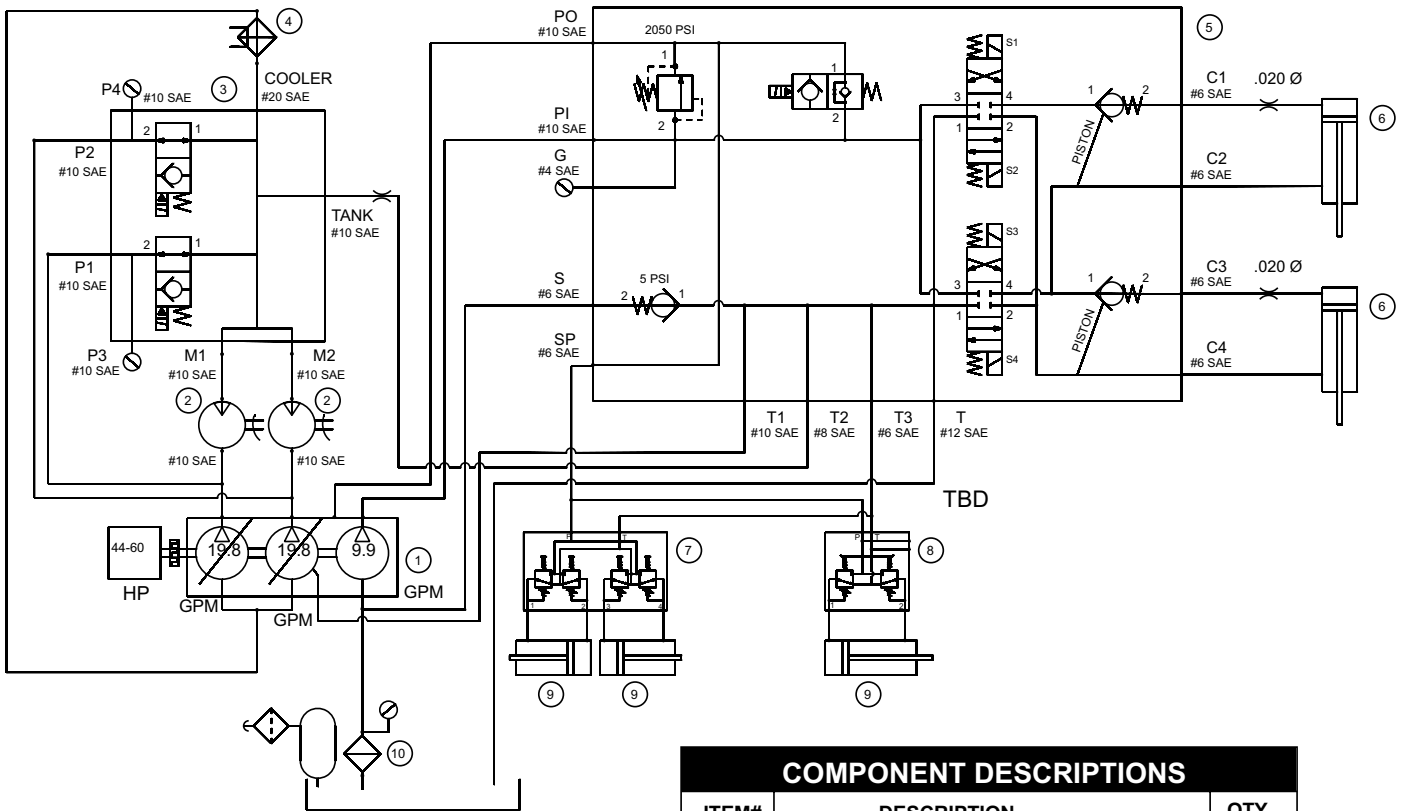
HARNESS DWG.	WIRE REF.	COLOR BODY/STRIPE	WIRE GAGE
23540	W1A	WHITE	16 AWG
	W2A	BLACK/WHITE	16 AWG
	W3A	BLUE	18 AWG
	W4A	YELLOW	18 AWG
	W5A	BLACK/YELLOW	18 AWG
	W6A	BLACK/ORANGE	16 AWG
	W7A	RED	16 AWG
	W8A	BLACK	16 AWG
	W9A	RED	16 AWG
	W10A	RED	16 AWG
	W11A	RED	16 AWG
	W12A	RED	12 AWG
	W13A	RED	12 AWG
	W14A	BLACK/YELLOW	16 AWG
	W15A	BLACK/YELLOW	18 AWG
	W16A	BLACK/ORANGE	18 AWG
	W17A	RED	12 AWG
	W18A	BLACK	16 AWG
	W19A	BLACK	12 AWG
	W20A	BLACK/YELLOW	16 AWG
	W21A	BLACK/GREEN	16 AWG
	W22A	RED/GREEN	16 AWG
	W23A	BLACK/YELLOW	16 AWG
	W24A	BLACK/YELLOW	16 AWG
	W25A	BLACK/YELLOW	16 AWG
	W26A	RED/YELLOW	16 AWG
	W27A	RED/YELLOW	16 AWG
	W28A	RED/YELLOW	16 AWG
23541	W1B	BLACK/ORANGE	16 AWG
	W2B	BLACK/ORANGE	16 AWG
	W3B	RED YELLOW	16 AWG
	W4B	BLACK/YELLOW	16 AWG
23542	W1C	RED/YELLOW	16 AWG
	W6C	BLACK/YELLOW	16 AWG
	W3C	RED/GREEN	16 AWG
	W4C	BLACK/GREEN	16 AWG
	W5C	RED/YELLOW	16 AWG
	W6C	BLACK/YELLOW	16 AWG
	W7C	RED	16 AWG
	W8C	RED/YELLOW	16 AWG
	W9C	RED/GREEN	16 AWG

COMBINATION SWITCH CONTINUITY					
	IG	E	BAT	LO	ST
OFF					
ON	○	○	○	○	
ST	○	○	○	○	○



JWN-SERIES RIDE-ON POWER TROWEL — REV. #1 (05/12/12)

HYDRAULIC DIAGRAM



COMPONENT DESCRIPTIONS

ITEM#	DESCRIPTION	QTY
1	PUMP/A, SAUER-DANFOSS M-25	1
2	MOTOR, HYD SAUER OMTW315	2
3	VALVE/A, PUMP SAFETY BYPASS	1
4	COOLER, THERM TRANSFER MF-15	1
5	VALVE/A, PITCH BLOCK	1
6	CYLINDER, PITCH	2
7	VALVE/A, HYDRO-CONTROL DUAL AXIS	1
8	VALVE/A, HYDRO-CONTROL SNG AXIS	1
9	CYLINDER, STEERING	3
10	SUCTION FILTER, 10 MICRON ABS	1



CORPORATE HEADQUARTERS · MULTIQUIP INC. 18910 WILMINGTON AVE. CARSON CA 90746