



TRAILER MOUNTED PUMP MODEL *B50* SCHEMATICS SECTION

SCMTC

FIGURE 00
PAGE 00

REED TRAILER MOUNTED CONCRETE PUMP *06* MODEL *B50* ILLUSTRATED PARTS MANUAL SCHEMATICS SECTION CONTAINS THE FOLLOWING FIGURES:



FIGURE 00	TABLE OF CONTENTS
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FIGURE 02	SINGLE SHIFT SWING TUBE CIRCUIT
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FIGURE 11	PN 87425-2 MAIN CONTROL BOX SCHEMATIC
FIGURE 12	PN 87347-1 PENDANT CONTROL BOX DATA & SCHEMATIC
FIGURE 13	CONTROL PANEL MOD. FOR STROKE COUNTER OPTION
FIGURE 14	DOCUMENT-TRANSMITTER RF I.D. TEACH PROCEDURE



TRAILER MOUNTED PUMP MODEL B50 DRIVE CYLINDER CIRCUIT HYDRAULIC COMPONENTS & SCHEMATIC

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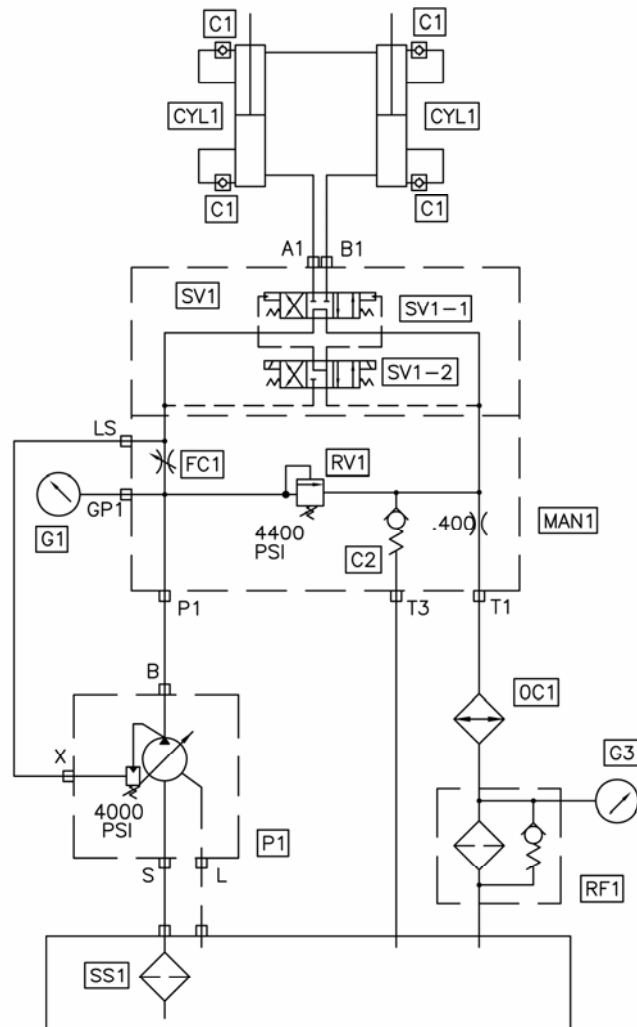
FIGURE 01
PAGE 01

B SERIES DRIVE CYLINDER CIRCUIT HYDRAULIC SCHEMATIC

DATE
12/3/01

REV.
A

PART NO.
86708



CODE	DESCRIPTION	PART NO.	QTY.
P1	Main Pump, Parts, Group 40		
CYL1	Hydraulic Drive Cylinder, Parts Group 60		
MAN1	Manifold Drive Cylinder Circuit	85248	1
SV1	Solenoid Valve, Drive Cylinder Circuit	85689	1
SV1-1	Solenoid Valve Main	85690	1
SV2-2	Solenoid Valve Pilot	85691	1
	Coil For SV2-2	85692	2
RV1	Relief Valve Cartridge	85696	1
FC1	Flow Control Valve Cartridge	85697	1
C1	Check Valve	78961	4
C2	Check Valve Cartridge	85698	1
G1	Pressure Gauge 6000 psi	74562	1
G3	Pressure Gauge Return	85575	1
OC1	Oil Cooler	85713	1
RF1	Return Filter	85282	1
	Return Filter Element	85283	1
SS1	Magnetic Suction Strainer 3"	800230	1
REV A-10/04/2004			

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TRAILER MOUNTED PUMP MODEL *B50*
SINGLE SHIFT SWING TUBE CIRCUIT
HYDRAULIC COMPONENTS & SCHEMATIC

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FIGURE 02
PAGE 02

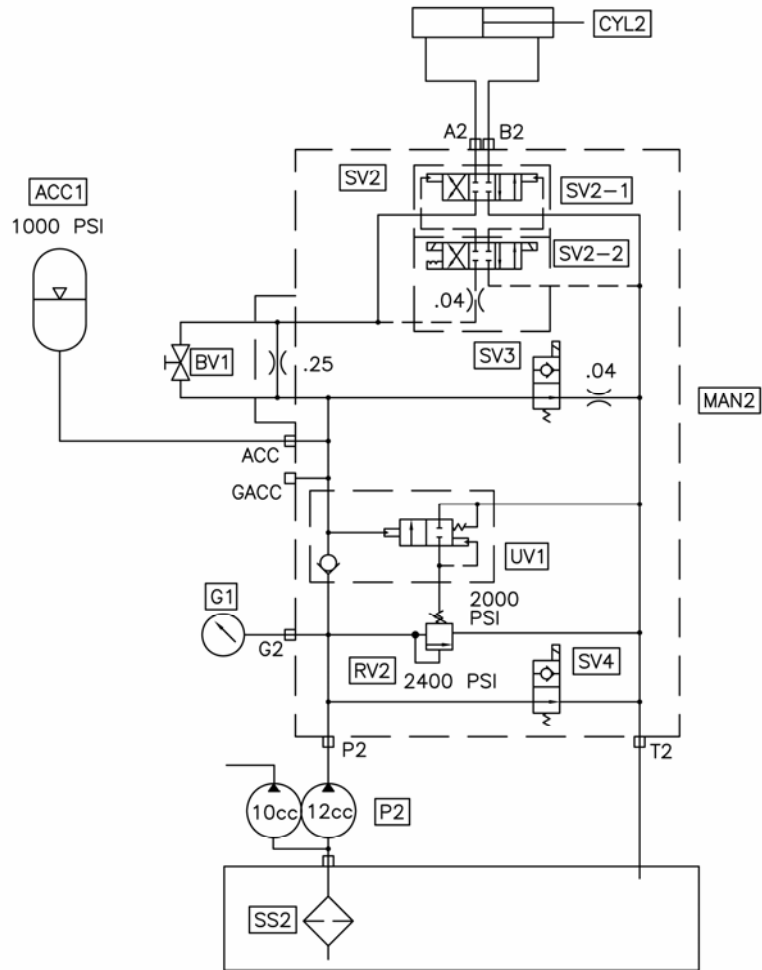
B & C SERIES SWING TUBE HYDRAULIC
SCHEMATIC, SINGLE SHIFT CYLINDER

DATE
11/7/01

REV.
A

PART NO.
86705

REED



CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump, Parts, Group 40	73156	1
CYL2	S Tube Single Shift Cylinder	86221	1
MAN2	Manifold S Tube Circuit	85249	1
SV2	Solenoid Valve S Tube Circuit	85693	1
SV2-1	Solenoid Valve Main	85694	1
SV2-2	Solenoid Valve Pilot	85695	1
	Coil For SV2-2	85692	2
SV3	Solenoid Valve Cartridge	87246	1
	Coil For SV3	87247	1
SV4	Solenoid Valve Cartridge	87248	1
	Coil For SV4	87249	1
RV2	Relife Valve Cartrige	85703	1
UN1	Unloading Valve Cartridge	85704	1
BV1	Ball Valve	85705	1
AAC1	Accumulator	74515	1
	Accumulator, Bladder	74516	1
G2	Pressure Gauge 3000 PSI	70366	1
SS2	Magnetic Suction Strainer 1 1/4"	79247	1
REV A-10/04/2004			

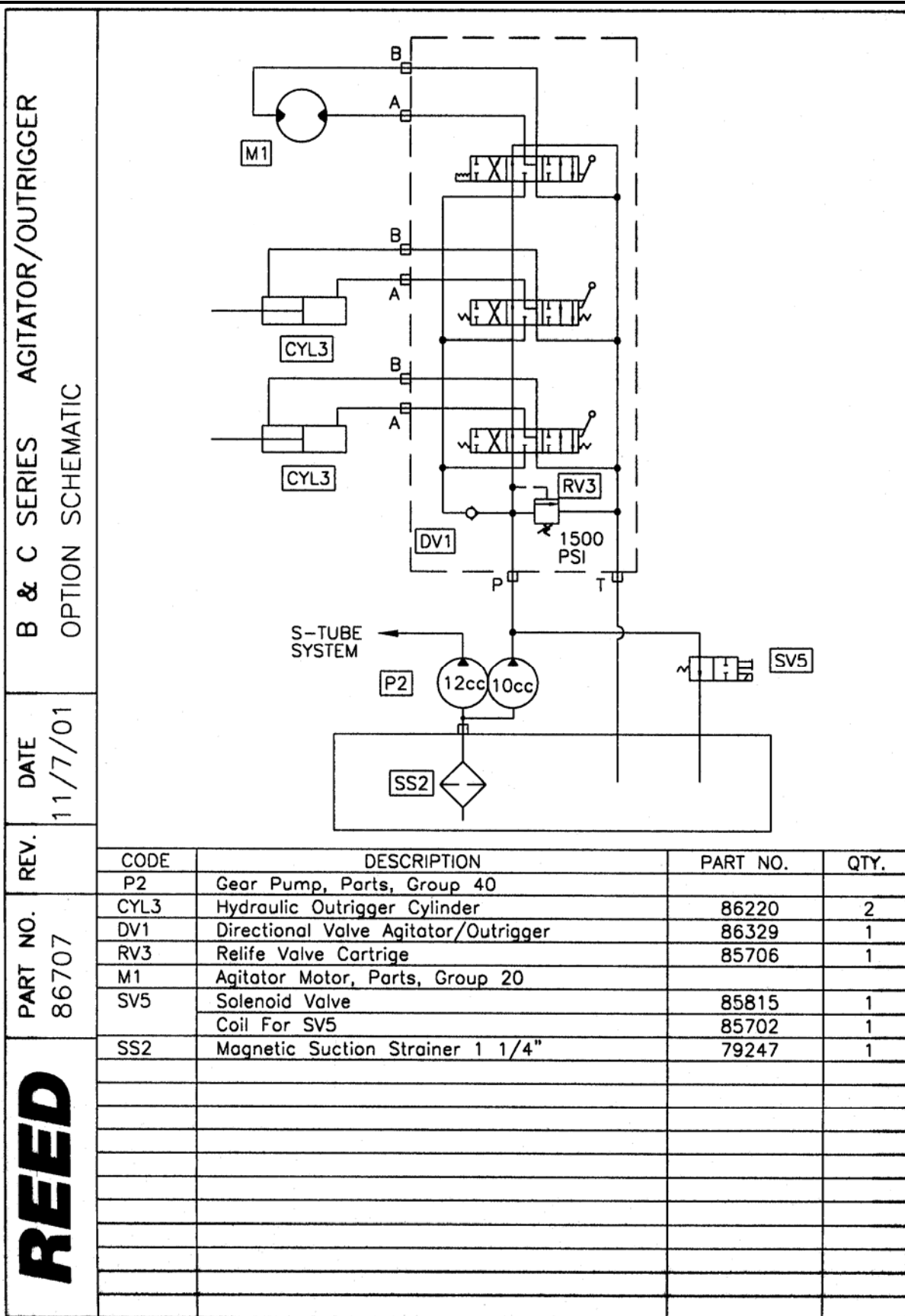
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TRAILER MOUNTED PUMP MODEL *B50* DUAL SHIFT SWING TUBE CIRCUIT HYDRAULIC COMPONENTS & SCHEMATIC

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FIGURE 03
PAGE 03





TRAILER MOUNTED PUMP MODEL B50
AGITATOR / OUTRIGGER OPTION CIRCUIT
HYDRAULIC COMPONENTS & SCHEMATIC

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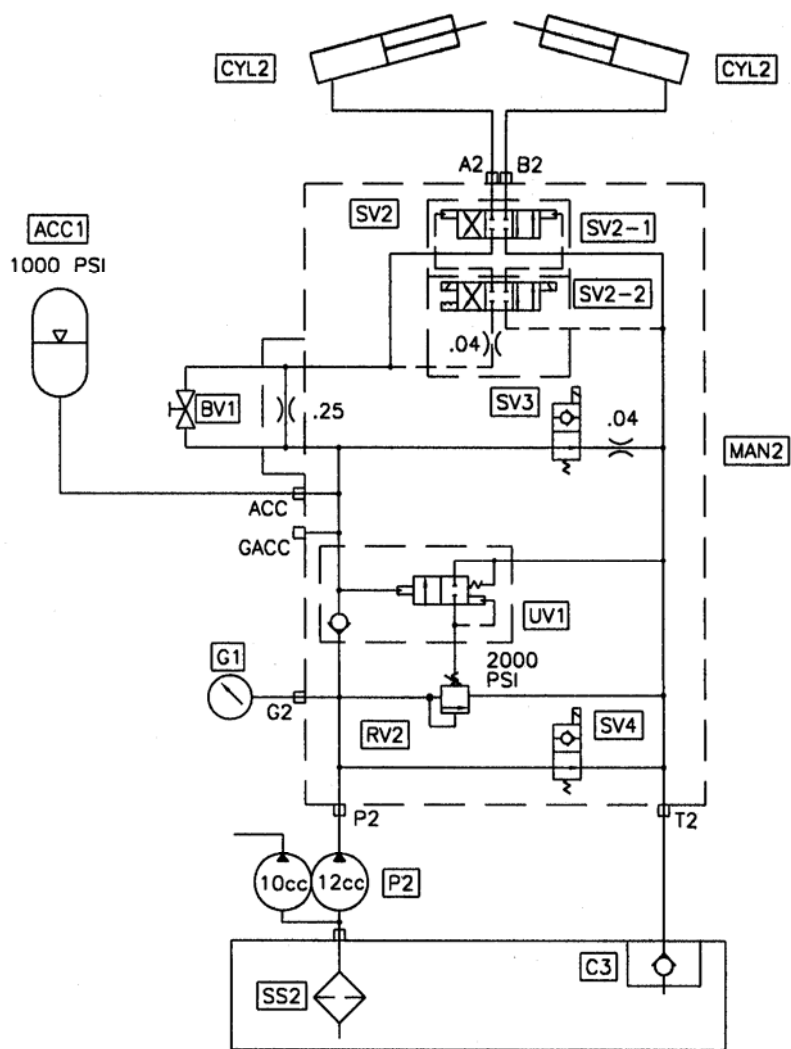
FIGURE 04
PAGE 04

B & C SERIES SWING TUBE HYDRAULIC
SCHEMATIC, DUAL SHIFT CYLINDER

DATE
11/7/01

REV.

PART NO.
86706



CODE	DESCRIPTION	PART NO.	QTY.
P2	Gear Pump, Parts, Group 40		
CYL2	S Tube Single Shift Cylinder	86220	2
MAN2	Manifold S Tube Circuit	85249	1
SV2	Solenoid Valve S Tube Circuit	85693	1
SV2-1	Solenoid Valve Main	85694	1
SV2-2	Solenoid Valve Pilot	85695	1
	Coil For SV2-2	85692	2
SV3	Solenoid Valve Cartridge	85699	1
	Coil For SV3	85700	1
SV4	Solenoid Valve Cartridge	85701	1
	Coil For SV4	85702	1
RV2	Relife Valve Cartridge	85703	1
UN1	Unloading Valve Cartridge	85704	1
BV1	Ball Valve	85705	1
AAC1	Accumulator	74515	1
	Accumulator, Bladder	74516	1
G2	Pressure Gauge 3000 PSI	70366	1
SS2	Magnetic Suction Strainer 1 1/4"	79247	1
C3	Check Valve	85574	1

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TRAILER MOUNTED PUMP MODEL B50 HYDRAULIC HOSE KIT

SCMTCFIGURE 05
PAGE 05**HOSE KIT 86365**

Part No.	End #1	End #2
85666-001	Main Pump "P"	Cylinder Manifold "P1"
85666-001	Cylinder Bulkhead "A"	Cylinder "A"
85666-006	Cylinder Bulkhead "B"	Cylinder "B"
85659-001	Main pump load sense	Cylinder Manifold "LS"
85657-005	Main pump case drain	Tank return
85654-001	Cylinder Manifold "T1"	Oil Cooler "IN"
85654-001	Oil Cooler "OUT"	Return Filter Bulkhead
85659-002	Check Loop	
85659-002	Check Loop	
85659-002	Check Loop	
85659-002	Check Loop	
85659-002	Check Loop	
85663-002	Tank Suction	Tandem Pump "S"
85657-002	Tandem Pump 12cc"P"	S-Tube Manifold "P2"
85667-001	S-Tube Manifold "ACC"	Acumulator
85657-002	Bulkhead "A"	Left shift cylinder bore side
85657-002	Bulkhead "B"	Right shift cylinder bore side
85657-003	Tandem Pump 10cc"P"	Bulkhead Tee "P"
85657-002	Bulkhead Tee "P"	Bypass Valve "1"
85657-016	Bulkhead "T"	Bulkhead "P"
85657-004	Bulkhead "T"	Cylinder Manifold "T1"

SUCTION HOSES - POWER TRAIN

Part No.	End #1	End #2
85660-001	Tank Suction	Main Pump "S"
85661-001	Tank Suction	Main Pump "S"
85662-001	Tank Suction	Main Pump "S"

FUEL HOSES - 86344 FUEL GROUP

Part No.	End #1	End #2
85669-001	Fuel Tank Suction	Fuel Filter "IN"
85669-005	Fuel Filter "OUT"	Engine
74716	Engine	Fuel Tank Return

CONTROL VALVE GROUP - 86329

Part No.	End #1	End #2
85657-016	Bulkhead "P"	Agitator Valve "P"
85658-011	Agitator Valve "A"	Agitator Motor "A"
85658-010	Agitator Valve "B"	Agitator Motor "B"

HYD OUTRIGGER GROUP - 86334

Part No.	End #1	End #2
85659-010	O/R Valve "A"	RH Outrigger Bore
85659-010	O/R Valve "B"	RH Outrigger Rod
85659-010	O/R Valve Tube "A"	LH Outrigger Bore
85659-010	O/R Valve Tube "B"	LH Outrigger Rod

WATER PUMP - 86400

Part No.	End #1	End #2
85657-021	Agitator Valve "PB"	Bulkhead "P"
85657-023	Bulkhead "P"	Water Valve "P"
85657-023	Water Valve "T"	Tank
85658-002	Water Valve "B"	Motor "A"
85658-002	Water Valve "A"	Motor "B"
85657-022	Water Relief	Water Suction

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TRAILER MOUNTED PUMP MODEL B50 ELECTRICAL COMPONENTS (1 OF 2)

SCMTCFIGURE 06
PAGE 06

Code	Description	Part No.	Qty	Location	
	SWITCHES				
1S1	Key Switch	71154	1	Control Panel	
2S2	Toggle Switch, Horn	85347	1	Control Panel	
3S3	Toggle Switch, Local/Remote	78563	1	Control Panel	
3S4	Toggle Switch, Pump On/Reverse	72003	1	Control Panel	
3S5	Toggle Switch, Test A/B	85346	1	Control Panel	
3S6	E-Stop Switch	85342	1	Control Panel	
	Contact Block, 1NC for 3S6	85343	1	Control Panel	
3S7	E-Stop Switch	85342	1	Remote Control	
	Contact Block, 1NC for 3S7	85343	1	Remote Control	
3S8	Toggle Switch, Horn	85347	1	Remote Control	
3S9	Toggle Switch, Pump On/Reverse	72003	1	Remote Control	
	RELAYS				
1K1	Relay, Engine Start	85348	1	Engine	
	LIGHTS				
1L1	Light, Green, Control On	85355	1	Control Panel	
1L2	Light, Red, Oil Temperature	73775	1	Control Panel	
1L3	Light, Red, Coolant Level	73775	1	Control Panel	
1L4	Light, Red, Oil Pressure	73775	1	Control Panel	
1L5	Light, Red, Alternator	73775	1	Control Panel	
	Bulb for 1L2, 1L3, 1L4, 1L5	72022	4	Control Panel	
2L6	Bulb, E-Stop	85344	1	Control Panel	
2L7	Light, Green, Local	85355	1	Control Panel	
3L8	Light, Yellow, Remote	85356	1	Control Panel	
3L9	Light, Green, Pump On	85355	1	Control Panel	
3L10	Light, Green, Reverse	85355	1	Control Panel	
3L11	Bulb, E-Stop	85344	1	Remote Control	
3L12	Light, Green, Pump On	85355	1	Remote Control	
	GAUGES				
1G1	Hour Meter	74240	1	Control Panel	
1G2	Tachometer	78687	1	Control Panel	
1G3	Coolant Temperature Gauge	78203	1	Control Panel	

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TRAILER MOUNTED PUMP MODEL B50 ELECTRICAL COMPONENTS (2 OF 2)

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FIGURE 06
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Code	Description	Part No.	Qty	Location	
	FUSES				
1F1	Fuse, 25A	800447	1	Control Panel	
1F2	Fuse, 15A	90391	1	Control Panel	
1F3	Fuse, 5A	90392	1	Control Panel	
2F4	Fuse, 10A	800449	1	Control Panel	
2F5	Fuse, 10A	800449	1	Control Panel	
2F6	Fuse, 5A	90392	1	Control Panel	
2F7	Fuse, 5A	90392	1	Control Panel	
2F8	Fuse, 10A	800449	1	Control Panel	
	Fuse Block, 8 Way	85354	1	Control Panel	
	SOLENOID VALVE COILS				
1Y1	Coil, Fuel Solenoid	Deutz	1	Engine	
1Y2	Coil, Accumulator Bypass	85700	1	S-Tube Manifold	
1Y3	Coil, S-Tube Bypass	85702	1	S-Tube Manifold	
1Y4	Coil, Agitator Bypass	73184	1	Hyd. Tank	
2Y5	Coil, Cylinder "B"	85692	1	S-Tube Manifold	
2Y6	Coil, Cylinder "A"	85692	1	S-Tube Manifold	
2Y7	Coil, S-Tube Shift "A"	85692	1	Pump Manifold	
2Y8	Coil, S-Tube Shift "B"	85692	1	Pump Manifold	
	Plugs for 1Y2 thru 2Y8	74597	7	Manifolds	
	MISCELLANEOUS				
2BB1	Black Box, Pump Control	85334	1	Control Box	
2BB2	Black Box, E-Stop Logic	85596	1	Control Box	
2P1	Proximity Switch, Cyl "B"	77998	1	Water Box	
2P2	Proximity Switch, Cyl "A"	77998	1	Water Box	
2H1	Horn	800347	1	Control Box	
3R1	Resistor, 100 Ohm	72777	1	Remote Control	
	CONNECTORS				
X1	Connector Insert, 24 Pin, Female	78696	1	Control Box	
X1	Connector Base	78697	1	Control Box	
X1	Connector Insert, 24 Pin, Male	78695	1	Harness	
X1	Connector Hood	800424	1	Harness	
X2	Terminal Block	72820	8	Control Box	
X3	Connector Insert, 10 Pin, Female	79963	1	Control Box	
X3	Connector Base	79965	1	Control Box	
X3	Connector Insert, 10 Pin, Male	79964	1	Remote Control	
X3	Connector Hood	79966	1	Remote Control	
X4	Connector, Engine, White	72926	1	Harness	
X5	Connector, Engine, Yellow	76902	1	Harness	

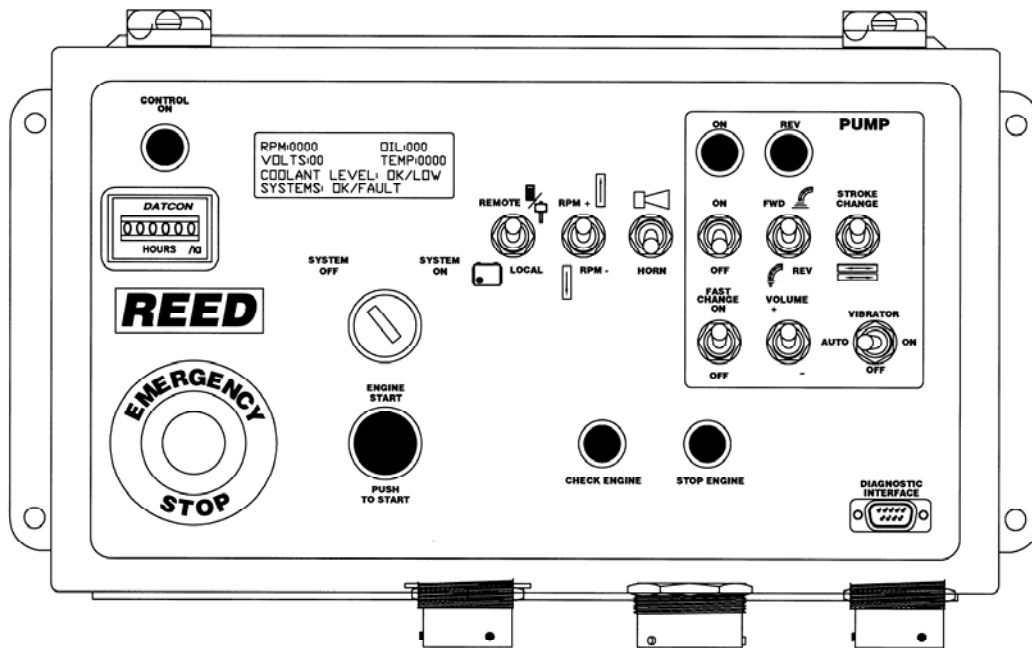
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TRAILER MOUNTED PUMP MODEL B50 CONTROL PANEL ELECTRICAL COMPONENTS

SCMTC

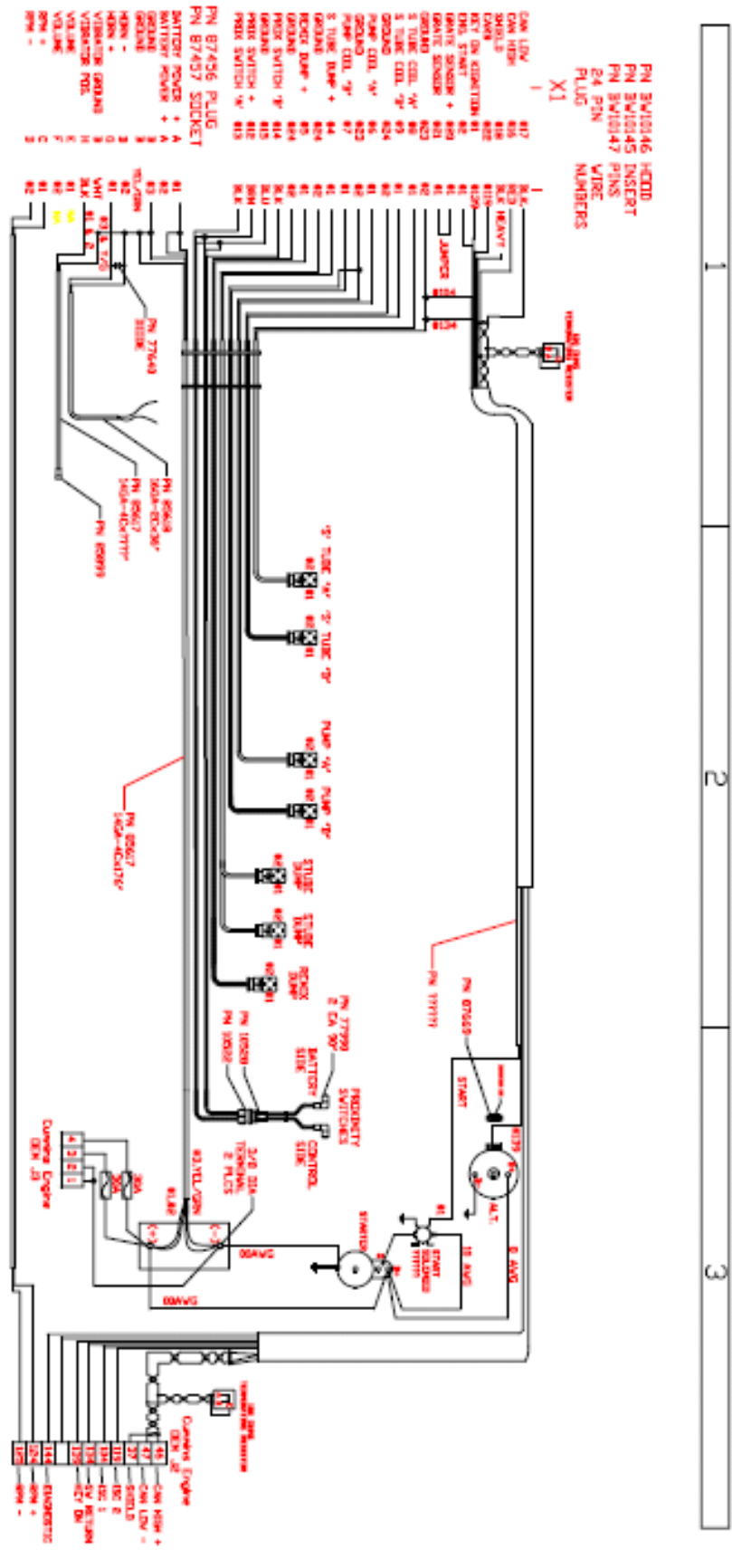
FIGURE 06
PAGE 09



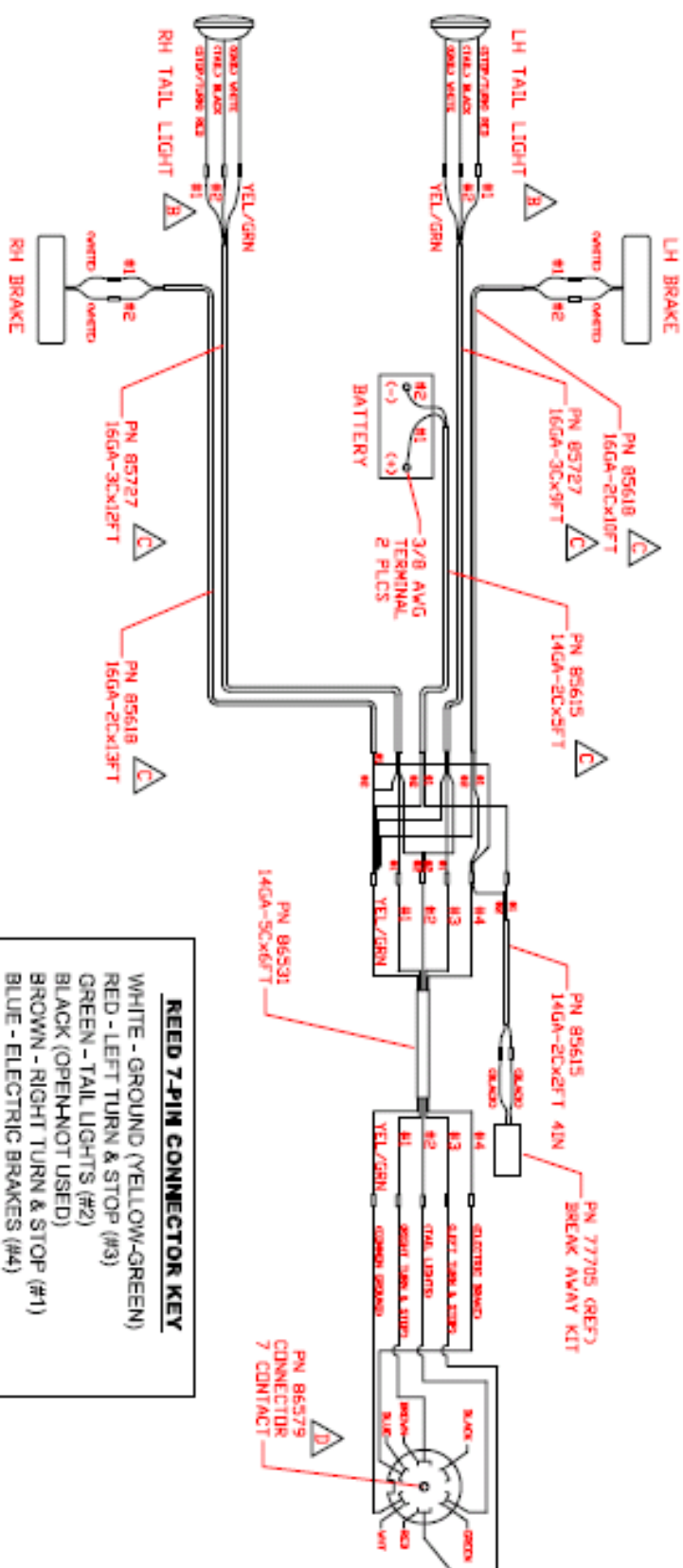
CONTROL BOX WITH COVER REMOVED

VOLUME CONTROL

MAIN HYDRAULIC PUMP

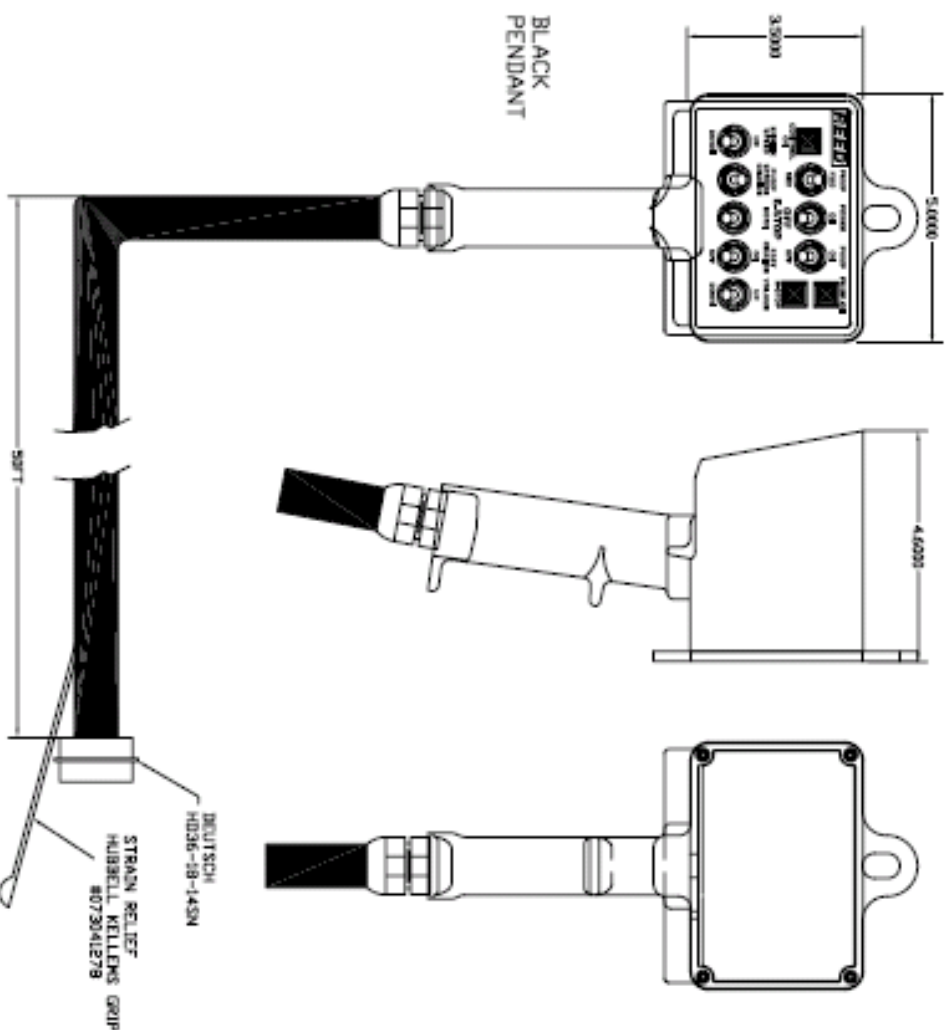


REED			ELECTRICAL SCHEMATIC		B-SERIES
DRAWING NO.	REV	DATE			SCMTC
87734	A	5/78/AV	B-SERIES		FIGURE08



NOTES:
1. ALL CONNECTIONS SOLDERED AND INSULATED WITH HEAT SHRINK TUBING

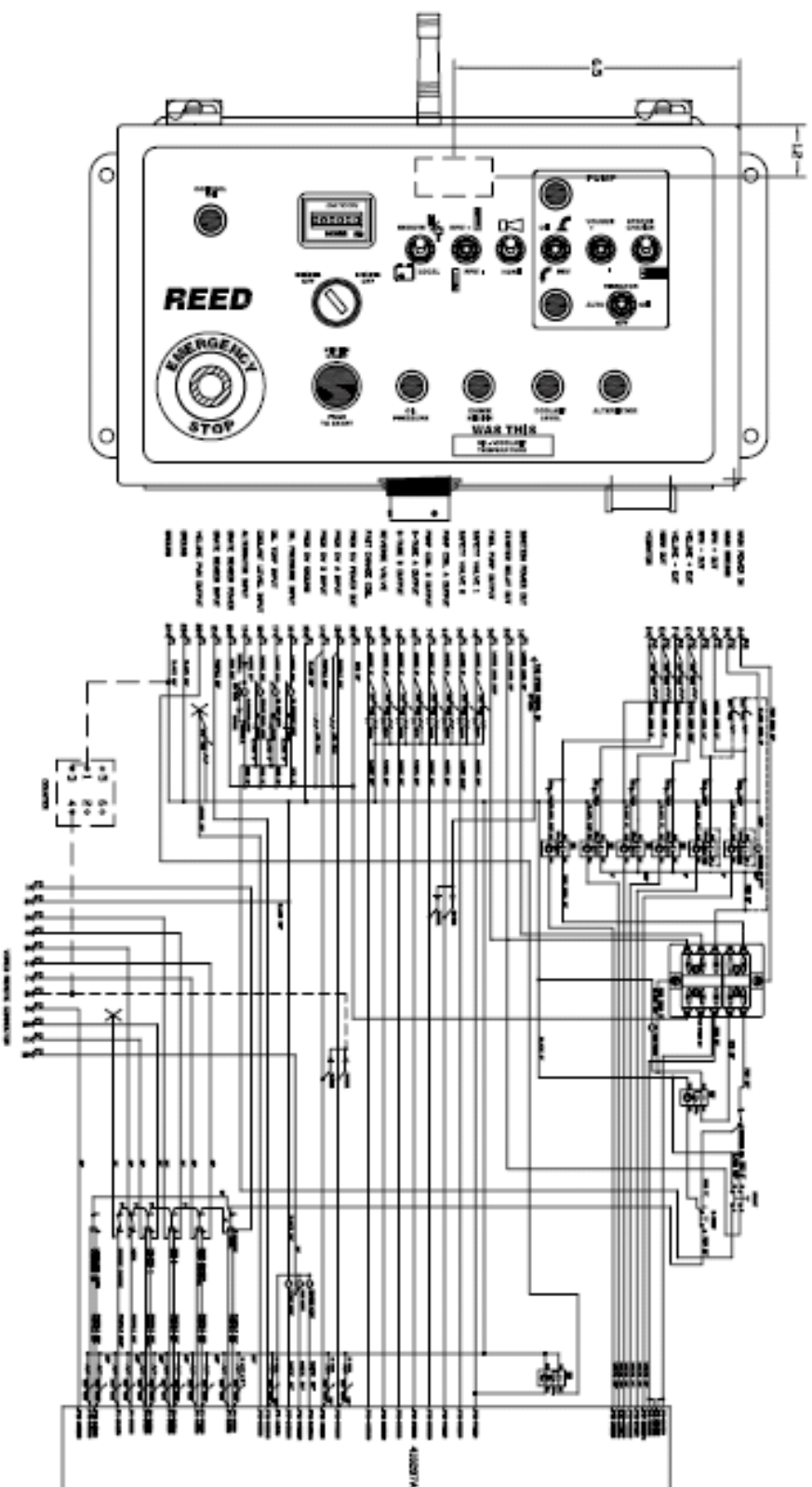
REED	ELECTRICAL		B-SERIES
	SCHEMATIC		SCMTC
DRAWING NO. 86533	REV. D	DATE 3/10/01	FIGURE09



VENDOR: KAR-TECH
VENDOR PN: 41-030-3-B-2

CONNECTOR -- DATA	
PN#	DESCRIPTION
A	REMOTE POWER
B	FAST CHANGE IN/OUT OUTPUT
C	ENGINE RPM INCREASE OUTPUT
D	ENGINE RPM INCREASE OUTPUT
E	REAR OUTPUT
F	REAR OUTPUT
G	REAR OUTPUT
H	REAR OUTPUT
I	REAR OUTPUT
J	REAR OUTPUT
K	REAR OUTPUT
L	REAR OUTPUT
M	REAR OUTPUT
N	REAR OUTPUT
O	REAR OUTPUT
P	REAR OUTPUT
Q	REAR OUTPUT
R	REAR OUTPUT
S	REAR OUTPUT
T	REAR OUTPUT
U	REAR OUTPUT
V	REAR OUTPUT
W	REAR OUTPUT
X	REAR OUTPUT
Y	REAR OUTPUT
Z	REAR OUTPUT

REED		PENDANT-CONTROL-BOX		B-SERIES	
DRAWING NO.	REV	DATE	DATA	SCMTC	FIGURE12
87347-1	B	6/28/97	B-SERIES		



REED		ELECTRICAL		B-SERIES
DRAWING NO	REV	DATE	SCHEMATIC	SCMTC
87752	-	6/13/07	B-SERIES	FIGURE13

TRANSMITTER-TEACH/RESET PROCEDURES

START HERE

TRANSMITTER SET UP

STEP 1

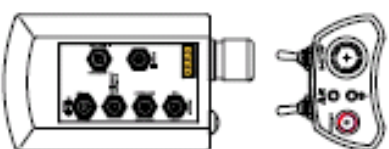
TURN OFF RADIO FIRST BY PUSHING AND HOLDING THE POWER BUTTON ON THE TOP OF THE TRANSMITTER.

SPECIAL NOTE:

IF THE TRANSMITTER IS STILL ON THE GREEN LED WILL LIGHT WHEN ANY SWITCH OTHER THAN THE POWER BUTTON IS PRESSED.

STEP 2

PRESS AND HOLD PUMP ON, PUMP OFF, STROKE CHANGE, AND REVERSE SWITCHES. WHEN RELEASED THESE FOUR SWITCHES, TURN THE RADIO ON BY PRESSING THE POWER BUTTON. THEN RELEASE ALL SWITCHES. RETURN PUMP CHANGE SWITCH TO OFF AND FREQUENCY SWITCH TO FORWARD. THE RED AND GREEN LED'S SHOULD FLASH ALTERNATELY. PROCEED TO THE CONTROL BOX SETUP NEXT.



TRANSMITTER

CONTROL BOX SET UP

STEP 3

SET THE CONTROL TO LOCAL.

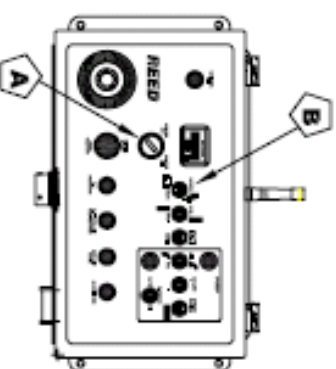
TURN ON/INHIBIT KEY **A**

SPECIAL NOTE:

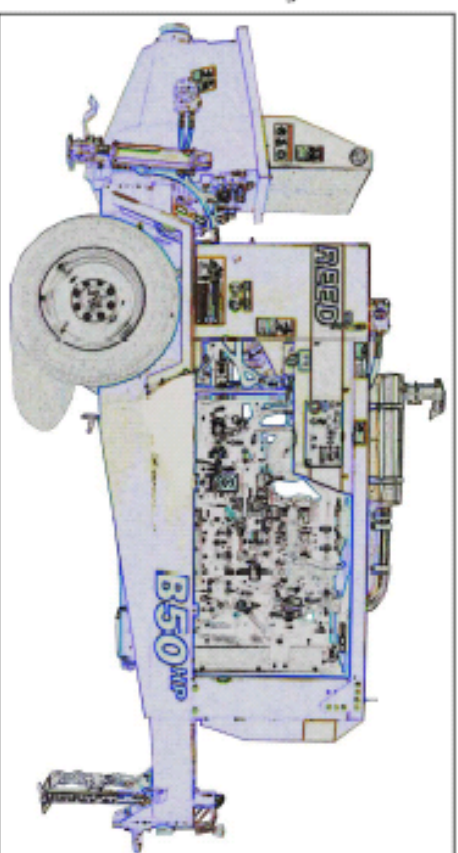
ENGINE DOES NOT NEED TO BE STARTED

STEP 4

THE TWO LED'S ON THE TRANSMITTER WILL STOP ALTERNATELY FLASHING. THEY WILL COME ON STEADILY TOGETHER FOR A FEW SECONDS AND THEN GO OFF WHEN THE TRANSMITTER AND RECEIVER ARE CORRECTLY SET UP FOR COMMUNICATION. SET THE CONTROL BOX TO "RECEIVER" AND THE SYSTEM IS READY TO BE USED. IF THE CONTROL BOX DOES NOT SUCCESSFULLY RECEIVE COMMANDS FROM THE TRANSMITTER, REPEAT THE PROCEDURE FROM STEP 1.



CONTROL BOX



REED		TRANSMITTER-RF-1D		B-SERIES
ISSUING NO.	REV	DATE	TEACH-PROCEDURES	SCMTC
NPN	-	10/29/07	B-SERIES	FIGURE14