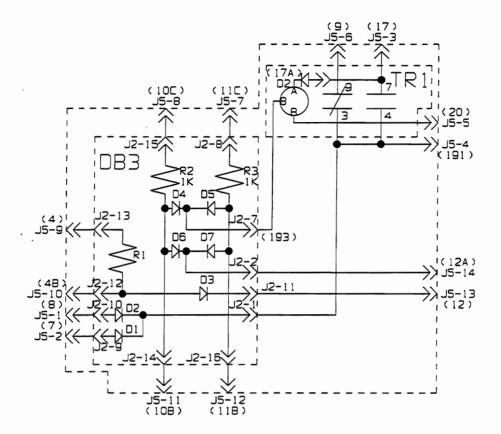


3072 4WD ELECTRICAL SCHEMATIC

THE J5 CONNECTOR CONNECTS THE MAIN WIRE HARNESS TO THE DIDDE BOARD (9193) THROUGH THE J2 CONNECTOR AND 12V ONE SEC TIME DELAY (9208) WITH .250 FEMALE PUSHDINS



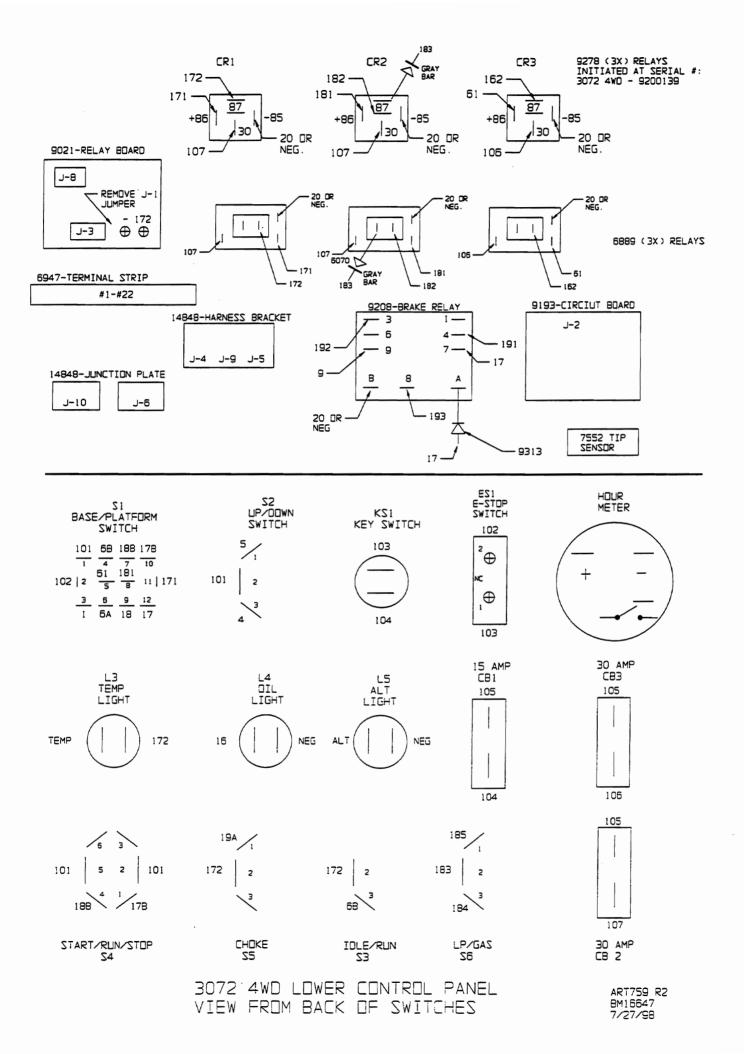
- LS1 TO BE SET AT SPECIFIED HEIGHT. LS2 TO BE SET AT SPECIFIED HEIGHT. S1 MAKES CONTACT TO THE RIGHT SET OF CONTACTS_WHEN_THE_SWITCH IS PLACED IN 2.3.
- SZ MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS HELD IN THE 4. UP POSTION
- S3 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN 5.
- CONTACTS WHEN THE SWITCH IS PLACED IN THE PLATFORM POSITION. S4 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN STOP POSITION, MAKES CONTACT TO THE LEFT WHEN HELD IN THE START POSTION, MAKES CONTACT TO OPPOSITES DIRECTION WHEN PLACED IN THE RUN POSTION. S5 MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS HELD IN THE CHOKE ON POSTION. S6 MAKES CONTACT TO THE RIGHT SET OF 5.
- 7.
- SS MAKES CONTACT TO THE RIGHT SET OF CONTACTS WHEN THE SWITCH IS PLACED IN 8 THE LP POSTION.
- THE LP POSTION. SB MAKES CONTACT TO THE LOWER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE AUTO POSTION, DOES NOT MAKE CONTACT WHEN PLACED IN THE IDLE POSTION. S9 MAKES CONTACT TO THE LOWER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE ORIVE POSTION. S10 MARE CONTACT TO THE UPPER SET OF **Q** .
- 10.
- THE DRIVE POSTION. 11. SIO MAKE CONTACT TO THE UPPER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN THE TORQUE OFF POSITION. 12. SII BREAKS CONTACT TO THE UPPER SET OF CONTACTS WHEN THE SWITCH IS PLACED IN OFF POSITION, MAKES CONTACT TO THE UPPER WHEN PLACED IN THE RUN POSTION, MAKES CONTACT TO BOTH WHEN PLACED IN THE START POSTION.

7435 14839 9173		I 2V WARNING ALARM		UNDER RIGHT STDE DF PLATFORM
9173			BOVE 10 FEET	
81/3	-	HURN UPTION PARTS	TO BEEP WHEN THE HORN SWITCH IS DEPRESSED	UNDER RIGHT STOE OF PLATFORM
1		BUZZEK, 10-48 VULT UL	IN IN-UKM UPEKATUK UIL PKESSUKE 15 LUW	UN LUNIKUL BUX
2527	-	LIDELIT REFACE-IS AND MANIA	JUPPEL FUNEX	IN ENGINE LABINET ABUYE PUMP
7447	-	CIRCUIT BREAKER 30 AMP MANUAL	TO FUSE STARTER AND BASE POWER	I DUER CONTROL PANEL
7447	-	CIRCUIT BREAKER 30 AMP MANUAL	TO FUSE THROTTLE SOLENDID	I DWER CONTRIN PANEL
6889	_	POWER RELAY 12 VOLT DC 25 AMP	TO TURN DN BASE POWER	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
6889	-	No.	TO TURN DN STARTER	BACK RIGHT VALL INSTOR ELECTRICAL CARINET
6883	_	VDLT DC	to turn on throttle	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
6070	_		ALLOW PONER UP OF THE FUEL SELECTED DURING START UP MODE	FROM POWER RELAY CR2 TO WIRE 183
6313	_	DIODE ASSEMBLY	X	×
7451	_	CIRCUIT BDARD - CONTROL BOX	THROTTLE UP OURING ORIVE / LIFT / STEER FUCTIONS	INSTOE CONTROL BOX
7451	_	CIRCUIT BOARD - CONTROL BOX	TO ALLON USE OF THE HIGH SPEED SWITCH	INSIDE CONTROL BOX
6163	_		PICK UP DRIVE / LIFT SIGNALS FOR TIP CUT-OUT AND BRAKES	BACK RIGHT WALL INSIDE ELECTRICAL CABINET
7 390	_	SOLENDIO, ENGINE SPEED	to bring engine speed up	BACK OF MOTOR NEAR AIR CLEANER
X	_	FUEL PUMP KAWASAKI	PUMP GASOLINE TO CARB	BACK LOWER VALL ENGINE CABINET
1000	_	LP LULKUPP VALVE	CUI-UFF LP BEFUKE LAKB.	LEFT TOP OF MOTOR
/86/		SULENUIU, LHUKE	TU PULL IN CHURE UN LAKB.	FRUNT TUP UP MUTUK INDER AIK LLEANER
7800	-		STUT FUNCK IN BASE LUNIKULS	TURING CONTON ONV
2000	-	FIRE ROAMP AGE	IN FIRE CHARGING CIRCUIT	PICHT I THEP STOF DE MOTOP
5936	_	SWITCH-KEY	TO LOCK DUT POWER TO MACHTNE CONTROL S	
GIRR	-	I IGHT RAVINET	TO VADN WHEN MACHTNE HAS PASSED A 5 DEG	INCIDE FUNTPOL RUY
9188	_	LIGHT, BAYDNET	TO INFORM DPERATOR DIL PRESSURE IS LOW	INSTOF CONTROL BOX
6906	-	INDICATOR LIGHT	TO INFORM THAT ENGINE TEMP. IS TO HOT	LOWER CONTROL PANEL
6906	_	INDICATOR LIGHT	TD INFORM THAT DIL PRESSURE IS LOW	LOWER CONTROL PANEL
6906	_		TO INFORM THAT ALTERNATOR IS NOT FUNCTION CORRECTLY	LOWER CONTROL PANEL
2668	_	SWITCH, LIMIT TWO POLE	ACTIVATE SLOW SPEED, AND TILT SENSOR CIRCUIT	
9696	_	SWITCH, LIMIT MICRO - V7	ACTIVATE THE SLOW SPEED BYPASS VALVE	INSIDE CONTROL BOX
9696	_	SWITCH, LIMIT MICRD - V7	ACTIVATE THE SECONDARY DUMP BYPASS VALVE	INSIDE CONTROL BOX
8696	-	밊	ACTIVATE THE REVERSE OR LIFT VALVE	
8696	_	SWITCH, LIMIT MICRO - V7	ACTIVATE THE FORWARD OR DOWN VALVE	
8448	_	SWITCH V3 P-0	ACTIVATE THE RIGHT VALVE	INSIDE CONTROL BOX
8448	_	1	ACTIVATE THE LEFT VALVE	
9021	_		SUPPLY THE COILS WITH POWER AFTER RECIEVING A FUCTION SIGNAL	BACK LEFT WALL OF ELECTRICAL CABINET
8638	_	, TOGGEL 4	TO SELECT BASE OR PLATFORM CONTROLS	
2094	_		TO SELECT LIFT OR LOWER AT THE BASE CONTROLS	LOWER CONTROL PANEL
0500	- -	SWITCH, TUGGLE 2 BRIE 2 BRE	TO SELECT JULE UK KUN AT THE BASE CUNIKULS	LUWER CUNIKUL PANEL
CCVL	-	TUCCIE I DUIE	TO CUDICE THE MATING AT THE BASE FUNITURES	LUTER LUNIKUL FANEL
6274	-	TUGGI E 1	TO SEI FOT I P OP CAS AT THE BASE CONTROLS	LUMER LUNIAUL FANGL
8753	-	4	TO ALLOW OTHER CONTROLS TO BE USED AT THE PLATFORM CONTROLS	INSIDE HANDLE ASSEMBLY AT CONTROL ADX
6905	_	SWITCH, TOGGLE	TO SELECT IDLE / RUN / OR AUTO AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
8638	_		TO SELECT LIFT OR DRIVE AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
5630	_	Ι.	TO SELECT TORDUE AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
8075, 8076	_	2	TO SELECT STOP / RUN / OR STOP AT THE PLATFORM CONTROLS	INSIDE CONTROL BOX
7423	-	SWITCH, TOGGLE I POLE 2 POS.	TO CHOKE THE MOTOR AT THE PLATFORM POSTION	
8044	_	SWITCH, HORN	ITO ACTIVATE THE HDRN AT THE PLATFDRM CONTROLS	INSIDE CONTROL BOX
×	_	TEMP. KAW	TO ACTIVATE WHEN TEMP IS HOT	LEFT STOE OF MOTOR
6887	_		TO ACTIVATE WHEN DIL PRESSURE IS LOW	RIGHT SIDE OF MOTOR
7552	_ -	4.5 0EG TILT 3	ACTIVATE AT 4.5 DEG.	BACK LONER RIGHT VALL OF ELEC. CABINET
AU28	_	RELAY, 12V UNUELAY 1 SEC 11MEK	TO PERIMONE THE BURKES	BACK RIGHT VALL OF ELECTRICAL CABINET
< >	-	X		V V VIANUALUK AL FRUNI UF MUTUK LABINEL

WIRE HARNESS ASSEMBLIES AND CABLES

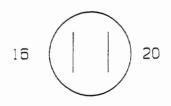
COVER ASSEMDLY WIRE HARNESS CONTROL DOX ASSEMBLY WIRE HARNESS	3072 MAIN WIRE HARNESS ASSEMBLY IR GA 25 FIND FARIE ASSEMBY	PER CONTROL CI	DOWN CABLE ASSEMBLE	ENGINE WIRE HARNESS	LIMIT SWITCH CABLE ASSY.	DIDDE BDARD / BRAKE WIRE HARNESS	MANIFOLD HARNESS	HARNESS, MDTIDN ALARM
0059 9210	9215	9158	9214	9209	9212	9213	9209	9304

ART742 R3 BM16067 7/27/98

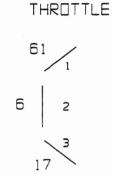


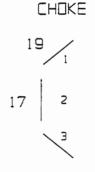
3072 4WD CONTROL BOX VIEW FROM BACK OF SWITCHES

ART759 R2 BM16647 7/27/98



BUZZER

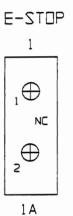








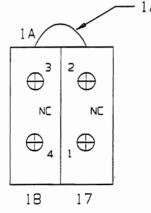
DIL LIGHT

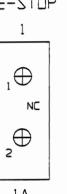


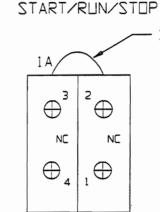
TORQUE

141 2

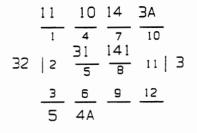
<u>з</u> 13







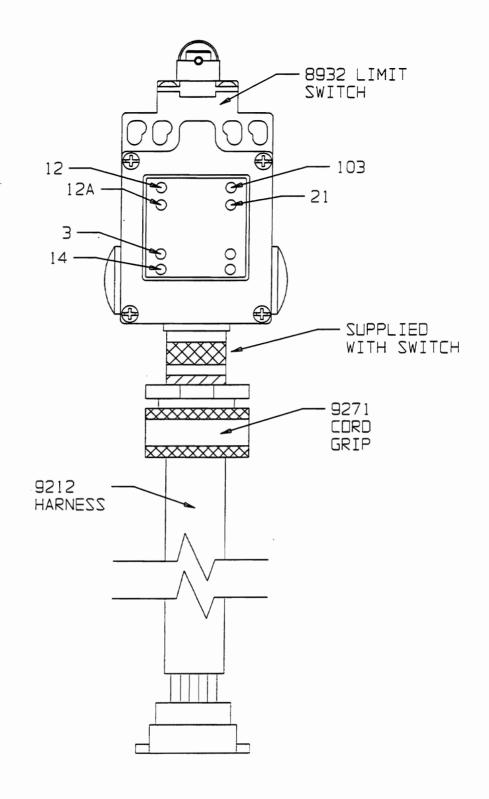
- 1A JUMPER



12A

17

LIFT/DRIVE



14943 - LIMIT SWITCH ASSEMBLY

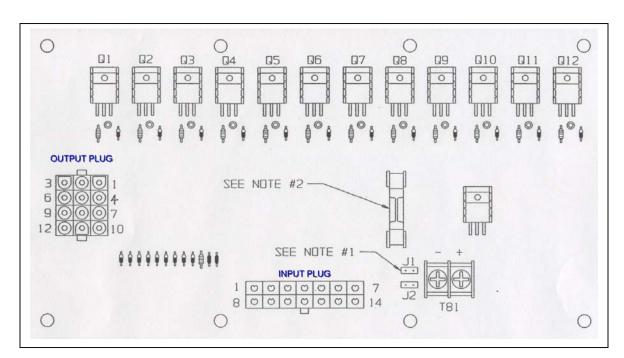
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ART759 R2 BM16647 7/27/98



9021 Relay Board (new style)

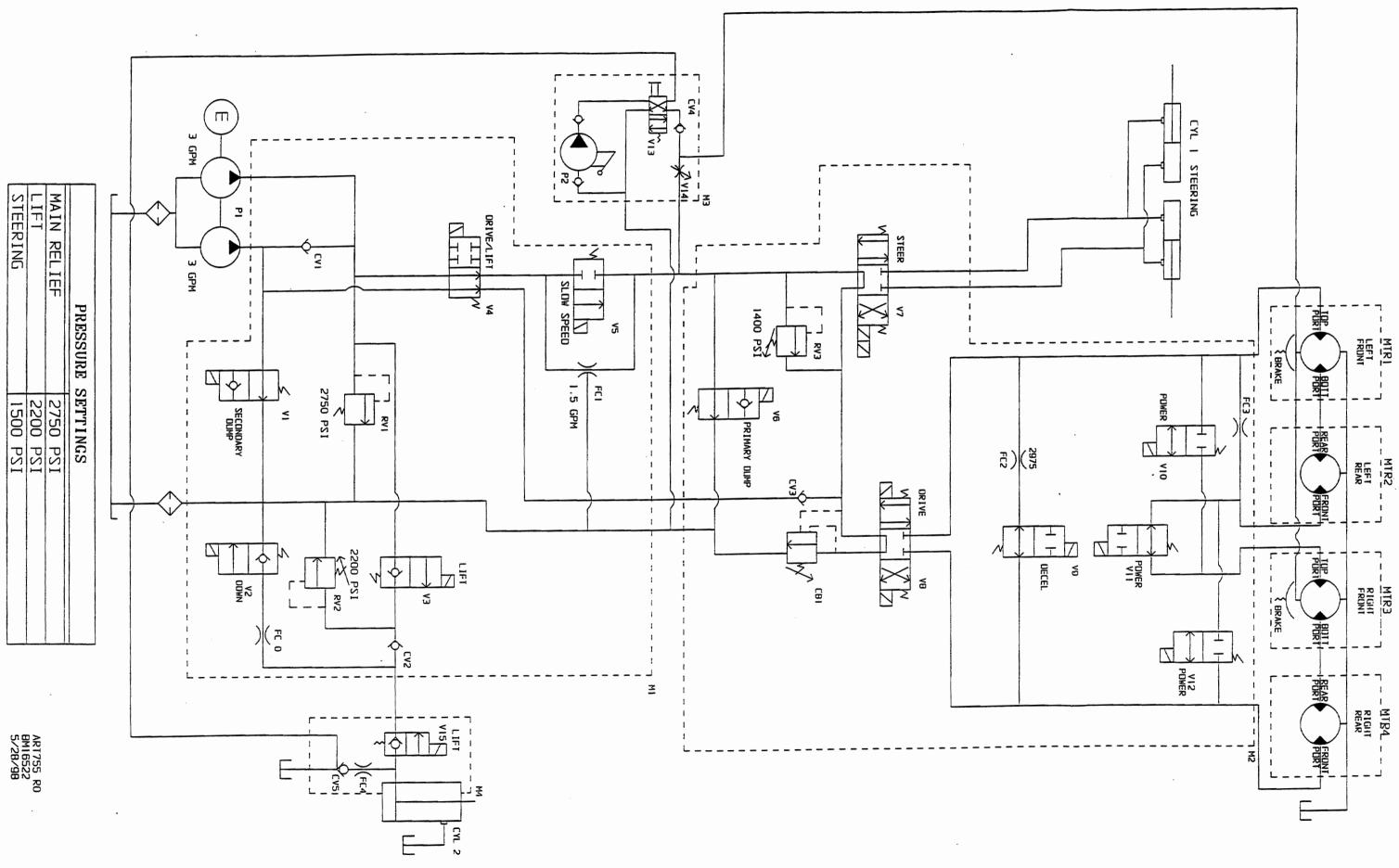
When replacing (p/n 9021) circuit board on Quadrex 25/33 RT series or 3072 series or 2558DF (Kawasaki eng), it will be necessary to pull jumper J1 (note 1 on diagram). Jumper J1 programs the throttle and choke control circuits. Leave jumper in place for 2558D w/Kohler engine only.



NOTE: J1 is very small, use needle-nosed pliers to pull it from the board.

For diagnostic purposes, the chart below lists the input and output terminals, and LED for the respective function. Match the column on the chart with your specific model.

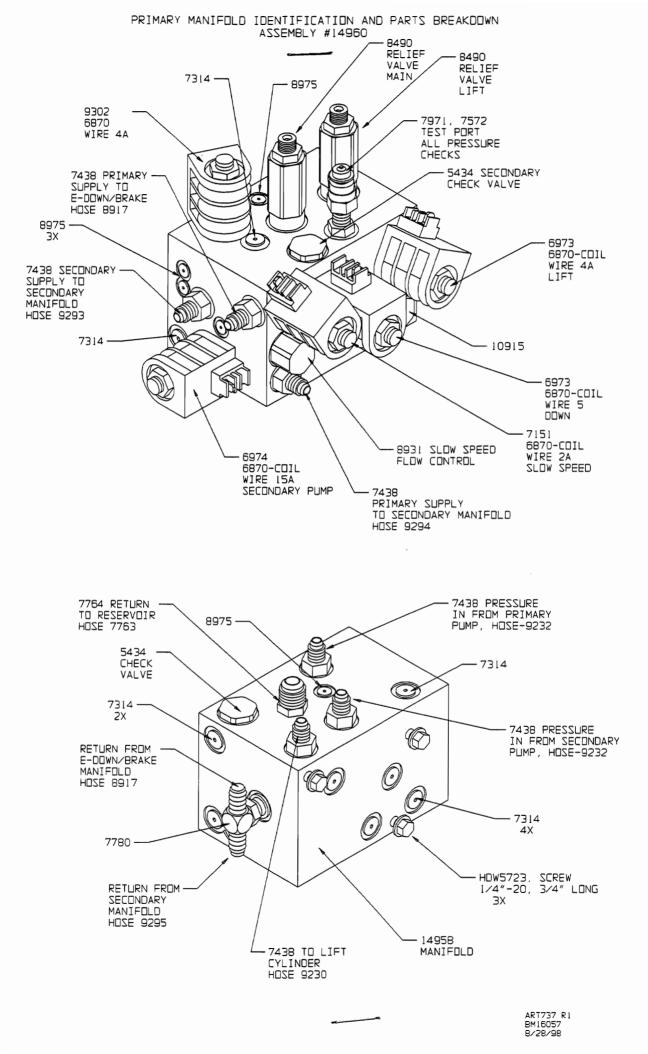
INPUT	LED	OUTPUT	FUNCTION	FUNCTION	FUNCTION	FUNCTION	FUNCTION
			25, 33 RT	25,33 SRT	3072	2558D	2558DF
1	1	1	Up	Not used	Up to 9200486 - Start From 9200487- Not used	Not used	Not used
2	2	2	Down	Slow Speed	Slow	Slow	Slow
3	3	3	Bypass – Decel	Brake - Decel	Decel – Pri. Dump	Brake – Decel	Brake – Decel
4	4	4	Torque	Up	Up	Up	Up
5	5	5	Throttle	Not used	Throttle	Not used	Throttle
6	6	6	Choke Pre-heat (diesel)	Throttle	Choke Pre-heat (diesel)	Throttle	Choke
7	7	7	Forward	Right	Right	Right	Right
8	8	8	Reverse	Left	Left	Left	Left
9	9	9	Steer Left	Sec. Dump	Sec. Dump	Sec. Dump	Sec. Dump
10	10	10	Steer Right	Reverse	Reverse	Reverse	Reverse
11	11	11	Steer Bypass	Forward	Forward	Forward	Forward
12	12	12	A.C. Generator (opt)	Torque	Torque	Torque	Torque



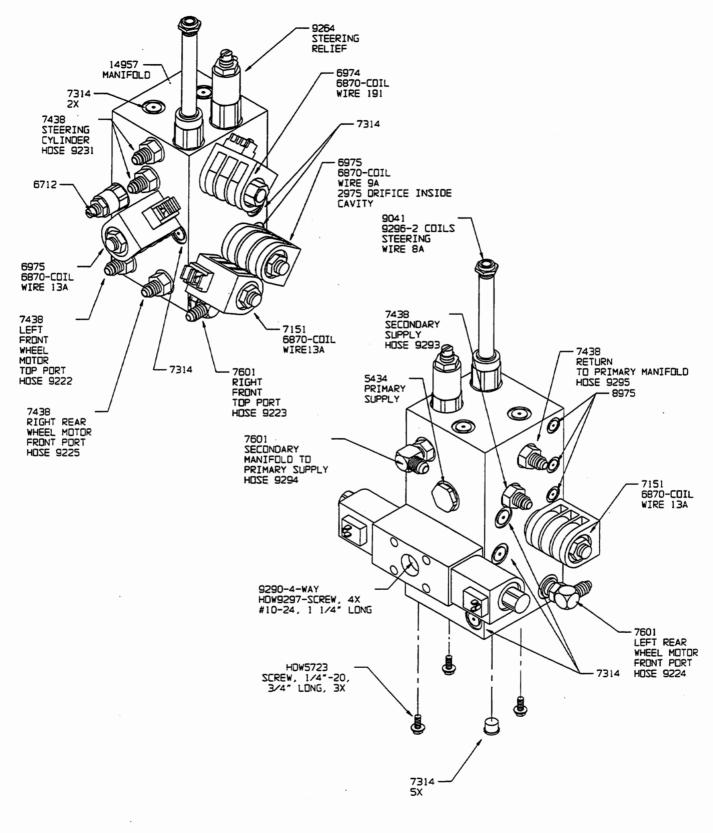
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ITEM	PART #	WIRE #	DESCRIPTION
P1 MTR1 MTR2 MTR3 MTR4 CYL1 CYL2	6855 8843 7300 8843 7300 10329 8809		HYD PUMP- HYD. WHEELMOTOR #46 W/BRAKE HYD WHEEL MOTOR 45 3/IN HYD. WHEELMOTOR #46 W/BRAKE HYD WHEEL MOTOR 46 3/IN STEERING CYLINDER ASSY CYLINDER 3068
M1 CV1 CV2 FC0 FC1 RV1 RV2 V1 V2 V3 V4 V5	14958 5434 5434 10915 8931 8490 6974 6973 6973 9291,9302 7151	15A - 5A 4A 4A 2A	PRIMARY MANIFOLD VALVE, CHECK-IN LINE VALVE, CHECK-IN LINE METERING PLUG VALVE, PRIORITY FLOW 1.5 GPM VALVE PRESSURE RELIEF 4000 PSI VALVE PRESSURE RELIEF 4000 PSI VALVE NO POPPET 2/W VALVE N.C. POPPET 2 WAY VALVE N.C. POPPET 2 WAY VALVE N.C. POPPET 2 WAY VALVE, 4WAY, 2POS DELTA VALVE 2 WAY N.C. SPOOL
M2 CB1 CV3	14957 6712 5434		SECONDARY MANIFOLD Counter balance valve valve,ch
RV3 V6 V7 V8 V9 V10 V11 V12	9264 6974 9041 9290 6975 7151 6975 7151	191 7A/8A 10A/11A 9A 13A 13A 13A	VALVE, PRESSURE RELIEF 1500PSI VALVE NO POPPET 2/W VAVLE, 4 WAY, 3 POSITION VALVE, DO1, 4WAY, 3 POS VALVE, DO1, 4WAY, 3 POS VALVE N.O. SPOOL 2 WAY VALVE 2 WAY N.C. SPOOL VALVE 2 WAY N.C. SPOOL
M3 CV4 V13 V14 P2	14510 5434 8848 8855 8849		MANIFOLD EMERGENCY DOWN Valve, Check-In Line Valve, Manual Pull 4-Way Valve, Manual ADJ FLOW CONTROL Valve, Hyd. Hand Pump
M4 CV5 FC4 V15	14523 7445 6973	5A	MANIFOLD LIFT CYLINDER VALVE, PILOT OPER. BALL CHECK DRILLED ORFICE, NON SERVICEABLE VALVE N.C. POPPET 2 WAY

ART755 RO 3M16522 5/28/98

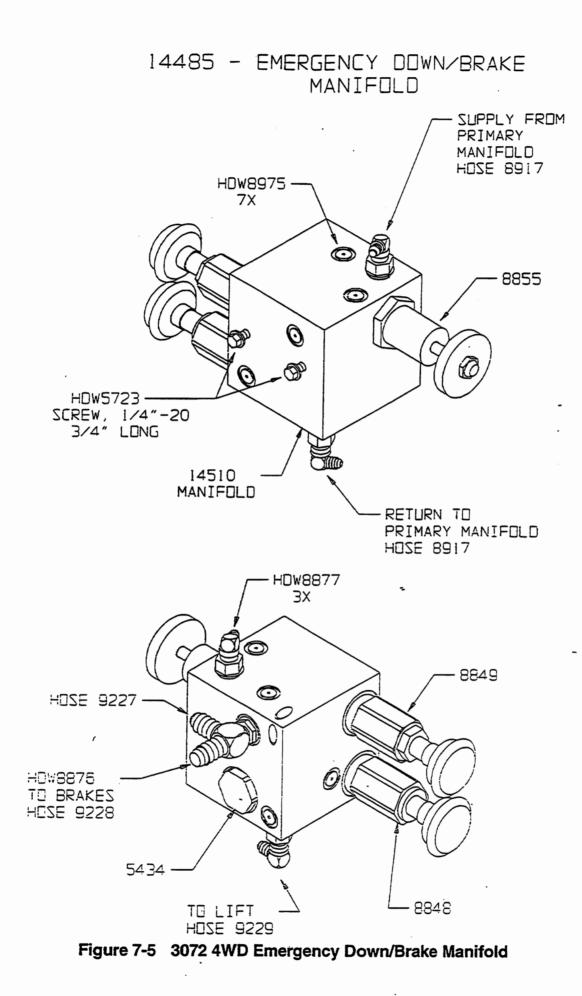


SECONDARY MANIFOLD IDENTIFICATION AND PARTS BREAKDOWN ASSEMBLY # 14961



ART 738 R1 BM16058 8/21/98

Figure 7-4. 3072 4WD Secondary Manifold



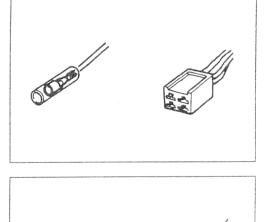
ART739 RO BM16059 3/17/98

Precautions

There are a number of important precautions that are musts when servicing electrical systems. Learn and observe all the rules below.

- O Do not reverse the battery lead connections. This will burn out the diodes in the electrical parts.
- Always check battery condition before condemning other parts of an electrical system. A fully charged battery is a must for conducting accurate electrical system tests.
- OThe electrical parts should never be struck sharply, as with a hammer, or allowed to fall on a hard surface. Such a shock to the parts can damage them.
- To prevent damage to electrical parts, do not disconnect the battery leads or any other electrical connections when the engine switch is on, or while the engine is running.
- O Because of the large amount of current, never keep the engine switch turned to the start position when the starter motor will not turn over, or the current may burn out the starter motor windings.
- Take care not to short the leads that the directly connected to the battery positive (+) terminal to the chassis ground.
- OTroubles may involve one or in some cases all items. Never replace a defective part without determining what CAUSED the failure. If the failure was brought on by some other item or items, they too must be repaired or replaced, or the replacement part will soon fail again.
- Make sure all connectors in the circuit are clean and tight, and examine wires for signs of burning, fraying, etc. Poor wires and bad connections will affect electrical system operation.
- O Measure coil and winding resistance when the part is cold (at room temperature).
- O Electrical Connectors:

Female Connectors



Male Connectors

7-10 ELECTRICAL SYSTEM

Charging System

Alternator Rotor and Stator Removal

Remove the followings.

Radiator

Cooling Fan

Starter Motor

Pulser Coils

Fan Drive Sheave/Hub

O Hold the rotor (flywheel) with a suitable tools, remove the flywheel mounting nut.

Alternator rotor (Flywheel):

OUsing a flywheel puller, remove the flywheel.

A. Flywheel Nut

NOTE

Olf a flywheel puller is not available, screw the flywheel mounting nut flush with the shaft end to prevent damaged shaft end threads and tap sharply and squarely on the nut to break the flywheel loose. Flywheel will loosen.

A. Tap sharply and Squarely

Alternator Stator (Charging Coil):

ONote the charging coil output leads position for reinstalling the charging coil.

OUnscrew the coil mounting screws and remove the charging coil.

A. Charging Coil Output Leads

B. Mounting Screws

Alternator Rotor and Stator Installation

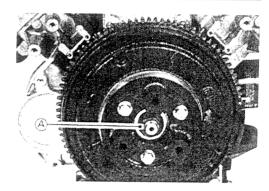
- O Clean the inside of the flywheel and end of the crankshaft or the taper will not fit snugly.
- Fit the flywheel onto the crankshaft taper so that the woodruff key fits in the key way in the hub of the flywheel.
- Torque the following.

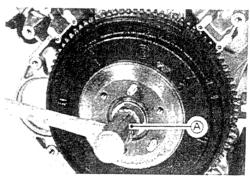
Alternator Rotor Nut

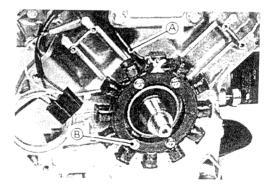
- Tighten the nut to the specified torque once, loosen it, and then retighten it to the specified torque (see Exploded View).
 Alternator Stator
- To reset the charging coil core onto the mounting flanges, firmly push the charging coil assembly against the mounting flanges and tighten the screws securely.

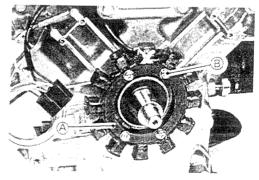
A. Mounting Flanges

B. Mounting Screws











Charging System Operational Inspection Check battery condition.

NOTE

- OAlways check battery condition before condemning other parts of the charging system. The battery must be fully charged in order to conduct accurate charging system tests.
- Warm up the engine to bring the components up to their normal operating temperatures.
- Measure regulated output voltage at various engine speeds.
- O Connect a voltmeter across the battery terminals.
- *The readings should show nearly battery voltage when the engine speed is low, and as the engine speed rises, the readings should also rise. But they must stay within the specified range.
- *If the output voltage is much higher than the specification, the regulator is defective, or the regulator leads are loose or open.
- *If the output voltage does not rise as the engine speed increase, the regulator is defective or the alternator output is insufficient for the loads.

Regulated Output Voltage Battery Voltage to 15 VDC

Stator Coil Resistance

- Disconnect the PACKARD 6P connector.
- Measure the stator coil resistance.

O Connect an ohmmeter between stator pins.

Stator Coil Resistance 0.11 to 0.18 Ω

* If the meter does not read as specified, replace the alternator stator.

*If the coil has normal resistance, but the voltage inspect showed the alternator to be defective; the rotor magnets have probably weakened, and the rotor must be replaced.

1. To Stator 2. Ohm Meter 3. PACKARD 6P connector

- Check for continuity between each stator pin and ground. There should be no continuity (infinite ohm).

★ If the stator coil fails any of these tests, replace the coil with a new one.

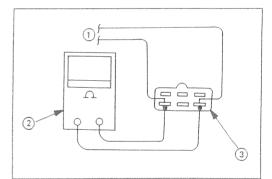
- 1. To Stator
- 2. PACKARD 6P Connector

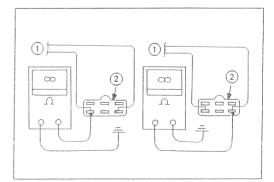
Unregulated Stator Output

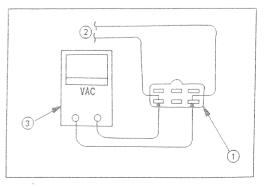
- Disconnect the PACKARD 6P connector.
- Connect AC voltmeter to the stator pins.
- Start the engine. Run the engine at the 3 000 rpm speed.
- Voltage reading should be minimum 26 VAC/3 000 rpm.
- ★If the AC voltage reading is less than the specification replace the stator.

Unregulated Stator Output (MIN) 26 VAC/3 000 rpm

- 1. PACKARD 6P Connector 3. AC Voltmeter
- 2. To Stator









7-12 ELECTRICAL SYSTEM

Regulator Resistance

- \bullet Set the KAWASAKI multimeter selector switch to the R x 100 Ω position.
- Connect the test leads to the points shown on the chart and read the resistance.
- ★If the resistance is not as specified replace the regulator.

NOTE

OThis voltage regulator is an open type one.

A. Regulator

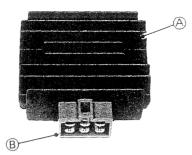
B. 6P Connector

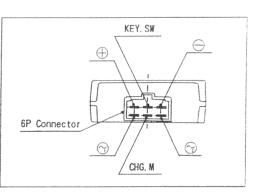
Range: R x 100 Ω By KAWASAKI TESTER

(-) TESTER (+)	~ 1	~ 2	+		Key.SW	CHG.M
~ 1		10kΩ ~ 1MΩ	œ	50Ω ~ 5kΩ	1kΩ ~ 200kΩ	1kΩ ~ 200kΩ
~ 2	10kΩ ~ 1MΩ		œ	50Ω ~ 5kΩ	1kΩ ~ 200kΩ	1kΩ ~ 200kΩ
+	œ	œ		œ	œ	œ
	10kΩ 1MΩ	10kΩ 1MΩ	œ		500Ω ~ 50kΩ	500Ω ~ 50kΩ
Key.SW	20	œ	00	00		œ
CHG.M	10kΩ ~ 1MΩ	10kΩ ~ 1MΩ	00	50Ω ~ 5kΩ	1kΩ ~ 200kΩ	

NOTE

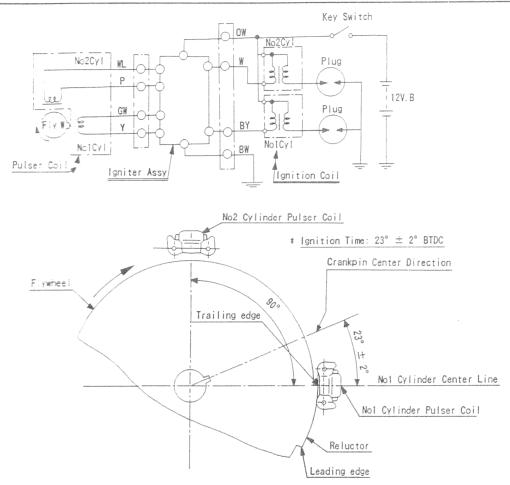
OResistance value may vary with indivisual meters.







Ignition System



Transistor controlled battery ignition system is used in this engine. This ignition system is essentially a battery-ignition coil system where the battery surpplies the current to the primary circuit in the system. This ignition system is transistorized and controls the current for the primary circuit by use of a electronic switching unit integrated into the igniter. The switching unit is triggered by the pulser coils (pick up coils) on each cylinder and contains no mechanical parts. This system consists of the following components.

- Ignition coil units
- Igniter (ignition Control Unit)
- Flywheel reluctor
- Pulser coils (pick up coils)
- 12 V Battery
- Spark plugs

As the starter turns the flywheel, the reluctor in the flywheel runs past the pulser coils, this creates a magnetic field in the pulser coils and close the switching unit in the igniter and allow the current flow through the primary circuit in the ignition coils.

As the flywheel turns, the trailing reluctor passes under pulser coils, opening switching unit in the igniter and causing the primary coil current to stop suddenly. This creates an induced high voltage in a secondary coil windings, which fire the spark plugs.

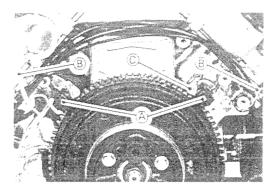
Each spark plug fires every time the piston rises. When a spark does jump across the electrodes during the exhaust stroke, it will not affect on engine operation, since there is no compression and no combustible fuel/air mixture. The transistor controlled ignition system contains no mechanical parts, no wear occurs and no periodic maintenance is required except for the spark plug.

7-14 ELECTRICAL SYSTEM

Pulser Coil Removal ©Remove:

Radiator and its Brackets Flywheel Cover Cooling Fan and its Brackets

- © Disconnect the wire ties.
- Our of the cylinder block and leave them there.
- Disconnect the 4P coupler of the pulser coil leads end.
- Take off the pulser coils and its wire leads together.
 - A. Pulser Coils C. Mounting Screws
 - B. Wire Tie



Installation Notes

Installation is the reverse of removal.

- The pulser coils are mounted in a fixed position on each cylinder. No adjustment of the coil air gaps are required.
- When installing the coils on each cylinder, do not take the coil for another noting the wire color (see Wiring Diagram in this chapter).

Pulser Coil Air Gap (STD) 0.3 to 1.2 mm (0.012 to 0.05 in.)

Pulser Coil Resistance

- \blacksquare Set the KAWASAKI multimeter selector switch to the R x 1 Ω position.
- Connect the test leads to the points shown on the chart and read the resistance.
- ★If the resistance is not as specified replace the pulser coil.

Resistance Between						
[A] and [B]	[C] and [D]					
85 Ω to 270 Ω 85 Ω to 270 kΩ						
	-					

-----R × 1 Ω-----→



OResistance value may vary with indivisual meters.

Wire Color		
Y : Yellow	Р	: Pink
GW : Green/White	WL	: White/Blue

Igniter Inspection

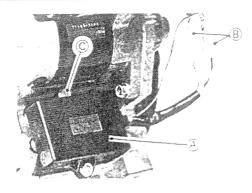
Remove the igniter.

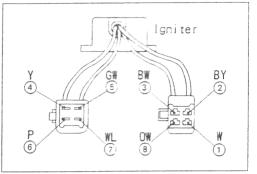
- O Unfasten the igniter lead connectors.
- O Unscrew the mounting screws and remove the igniter.
 - A. Igniter
 - B. Lead Connectors (4P Couplers)
 - C. Mounting Screws
- To inspect the igniter resistance, perform the following.
- \blacksquare Set the KAWASAKI multimeter selector switch to the R x 1 k Ω position.
- Connect the test leads to the points shown on the chart and drawing and read the resistance.
- *If the meter readings are not as specified, replace the igniter.

▲CAUTION

Use only Kawasaki hand tester (special tool: 57001-983) for this test. A tester other than the Kawasaki hand tester may show different readings.

If a megger or a meter with a large-capacity battery is used, the igniter will be damaged.





Meter Range : kΩ Ambient Temperature (20 °C)

kΩ Tester (+) Terminal (Red))				
	Terminal	1	2	3	4	5	6	7	8
	1		00	1 ~ 8kΩ	4 ~ 16	2 ~ 8	4 ~ 16	2 ~8	2 ~ 10
	2	œ	-	1~8	4~16	2~8	4 ~ 16	2~8	2 ~ 10
	3	œ	œ		1~6	0	1~6	0	0.5 ~ 2
	4	œ	œ	1~6	-	0	3 ~ 12	1~6	2 ~ 8
(-)*	5	30	00	0	1~6	_	1~6	0	0.5 ~ 2
	6	œ	90	1~6	3 ~ 15	0.5 ~ 2		1~6	1~6
	7	8	00	0	1~6	2~8	1~6		0.5 ~ 2
	8	20	00	0.5 ~ 2	2 ~ 8	0.5 ~ 2	2 ~ 8	0.5 ~ 2	_

(-)*: Tester (-) Terminal (Black)

	Wire Color
W:	White
BY:	Black/yellow
BW:	Black/White
Y:	Yellow
GW:	Green/White
P:	Pink
WL:	White/Blue
OW:	Orange/White

Ignition Coil Inspection

- Remove the ignition coils.
- O Disconnect the plug caps.
- O Disconnect the primary coil lead terminals.
- $\bigcirc \ensuremath{\mathsf{Unscrew}}$ the mounting bolts and take off the ignition coils.
 - A. Ignition Coils
 - B. Plug Caps
 - C. Mounting Bolts
 - D. Primary Coil Lead Terminals
 - (Not Cylinder's Ignition Coil Shown)

• Unfasten the plug cap from the high tension lead.

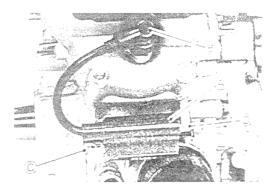
- Set the KAWASAKI multimeter selector switch to the specified range.
 Connect the test leads to the points shown on the chart and drawing
- and read the resistance. If the meter reading falls within the valves shown in the chart, the coil is functioning properly.

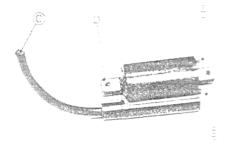
Resistance Between						
[A] and [B]	[A] and [C]					
3.4 Ω to 4.6 Ω	10.4 Ω to 15.6 k Ω					
$\leftarrow R \times 1 \Omega \rightarrow$	←R × 1 kΩ→					

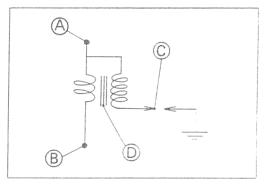
Resistanc	Resistance Between					
[A (or[B]) and [D]	[C] and [D]					
00	00					
←R×	1 kΩ→					

★If the meter does not read as specified, replace the coil.

- ★If the meter reads as specified, the ignition coil windings are probably good. However, if the ignition system still does not performs as it should after all other components have been checked, replace the coil with one known to be good.
- Check the spark plug lead for visible damage.
- ★ If the spark plug lead is damaged, replace the coil.







Spark Plug Cleaning and Inspection

- Carefully pull the plug cap from the spark plug, and remove the spark plug.
- ★ If the plug is oily or has carbon built up on it, clean the plug using a high flash-point solvent and a wire brush or other suitable tool.
- ★ If the spark plug electrodes are corroded or damaged, or if the insulator is cracked replace the plug. Use the standard spark plug or its equivalent.
 - 1. Insulator
 - 2. Center Electrode
- 3. Plug Gap
- 4. Side Electorode

