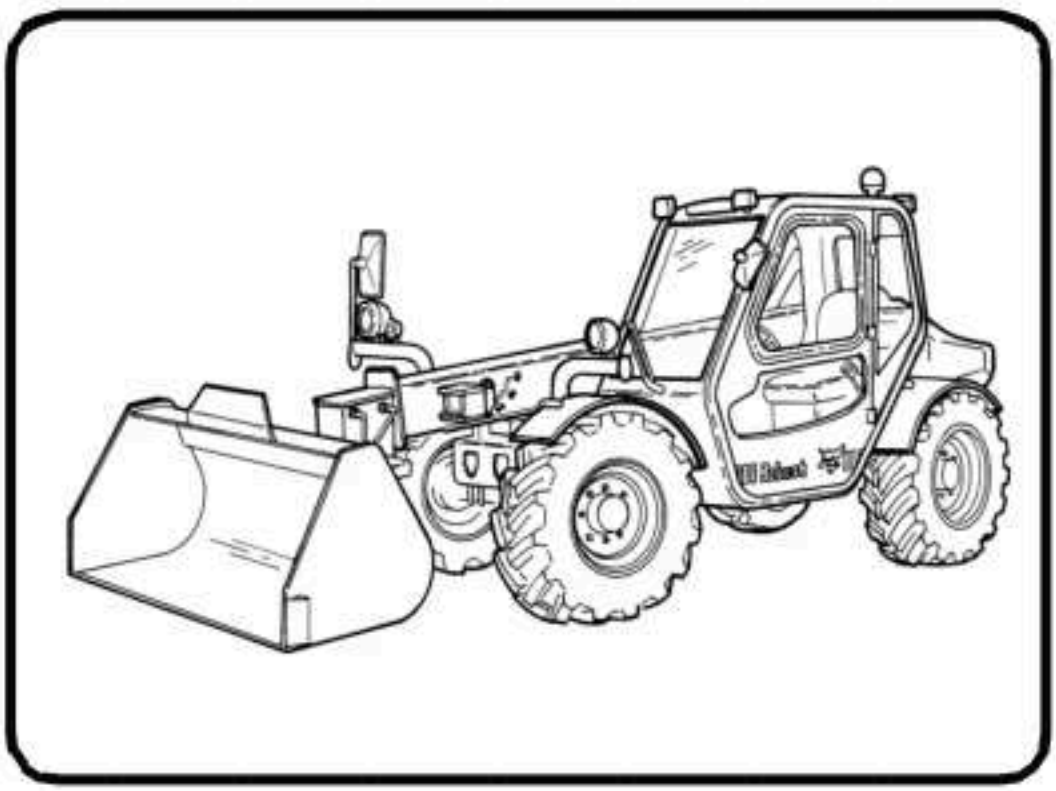
Bobcat®

Service Manual
V518 VersaHANDLER®

S/N A8G811001 & Above (with Cab)
S/N A8G911001 & Above (with Canopy)



6986676 (4-10)

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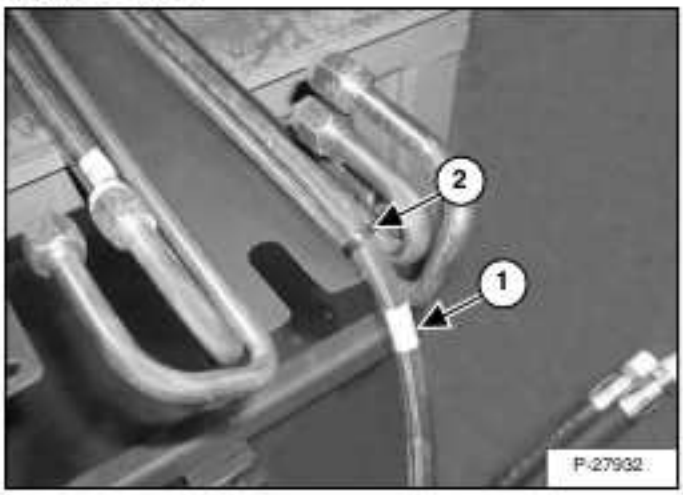
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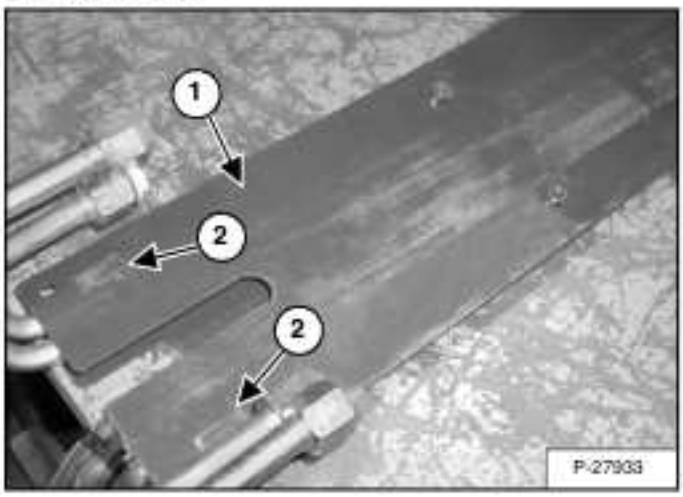
Tubeline Tray Assembly (Cont'd)

Figure 20-40-38



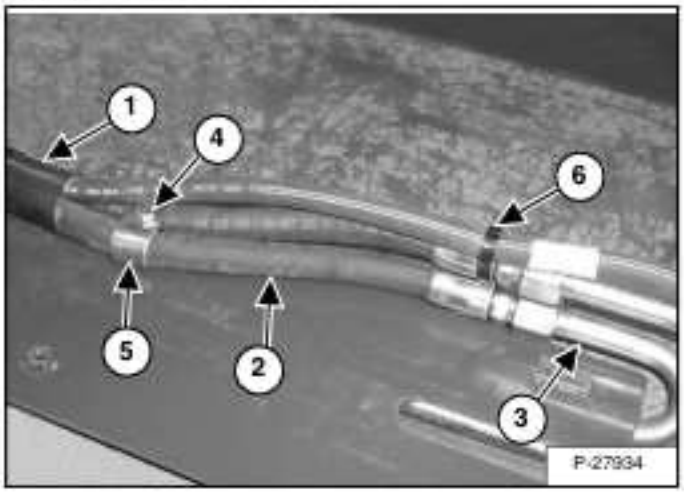
Place the electrical harness (Item 1) in the center of the two tubelines on the right side and secure using a tie strap (Item 2) **[Figure 20-40-38]** on each end of the tubelines.

Figure 20-40-39



With the tubelines held in position, install the tray cover (Item 1) on the tray. Bend the two tabs (Item 2) **[Figure 20-40-39]** on each end of the tray cover.

Figure 20-40-40



Install the hose / harness assembly (Item 1) **[Figure 20-40-40]** on the tubelines on the right side of the tray.

NOTE: The hose (Item 2) must be connected to the outside tubeline (Item 3) [Figure 20-40-40].

Apply Loctite® #271 onto the bolt (Item 4) and install the hose bracket (Item 5) **[Figure 20-40-40]**.

NOTE: Do not overtighten the bolt or damage will be done to the tubelines below.

Install a tie strap (Item 6) **[Figure 20-40-40]** on the electrical harness.

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ELECTRICAL SYSTEM INFORMATION (S/N A8G812999 & BELOW, S/N A8G911001 & ABOVE)

Troubleshooting Chart

The following troubleshooting chart is provided for assistance in locating and correcting problems which are most common. Many of the recommended procedures must be done by authorized Bobcat Service Personnel only.

⚠ WARNING

AVOID INJURY OR DEATH

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

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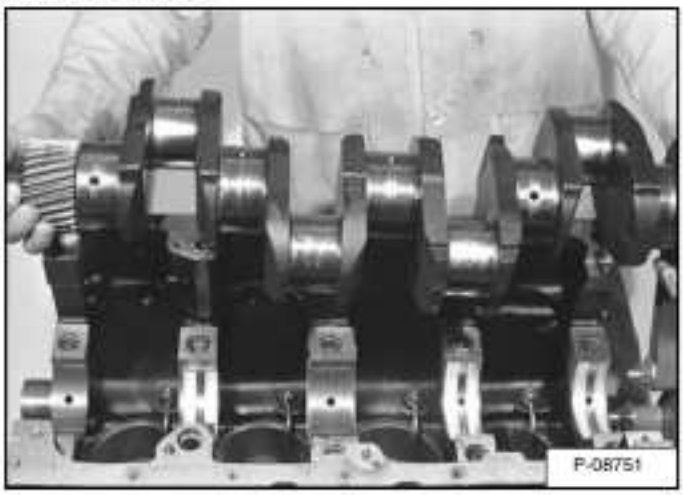
PROBLEM	CAUSE
Battery will not take charge.	1, 2, 3, 4, 5
Alternator will not charge.	1, 2, 5
Starter will not turn the engine.	2, 3, 4, 6, 7, 8, 9

KEY TO CORRECT THE CAUSE
1. Alternator belt is loose or damaged.
2. Battery connections are dirty or loose.
3. Battery is damaged.
4. The ground connection is not making a good contact.
5. The alternator is damaged
6. The engine is locked.
7. The starter is damaged.
8. The wiring or the solenoid is damaged.
9. Check the fuses.

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Crankshaft And Bearings Removal (Cont'd)

Figure 70-110-94



Remove the crankshaft **[Figure 70-110-94]**.

Figure 70-110-95

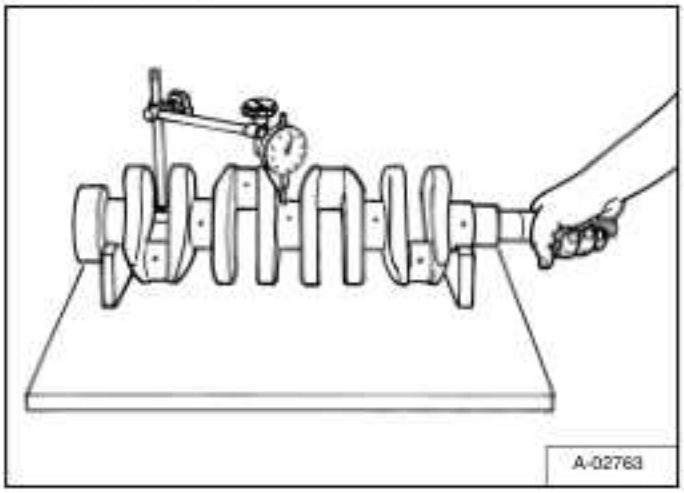


Remove the crankshaft bearings from the engine block **[Figure 70-110-95]**.

Keep the bearings with their respective caps for installation.

Inspection Of Crankshaft And Bearings

Figure 70-110-96



Check the crankshaft for wear **[Figure 70-110-96]**. The maximum wear and out of round of the crank journals is 0.0016 in. (0.04 mm).

The main journals and the crank pins of standard size can be machined 0.010 in. (0,25 mm) 0.020 in. (0,50 mm) or 0.030 in. (0,75 mm).

NOTE: (See ENGINE SPECIFICATIONS on Page SPEC-20-1.) for more crankshaft specifications.

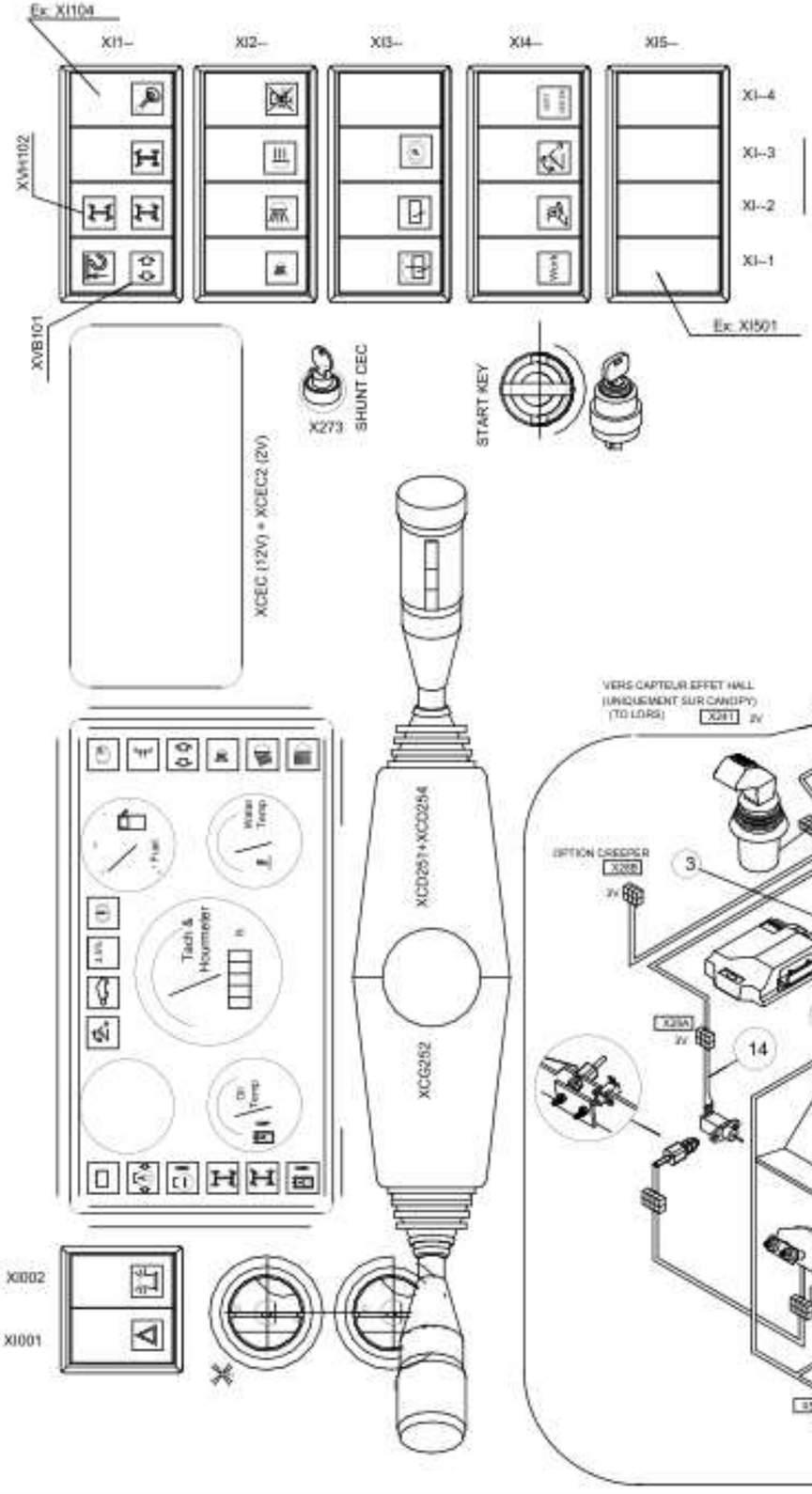
Check the oil clearance of the bearings.

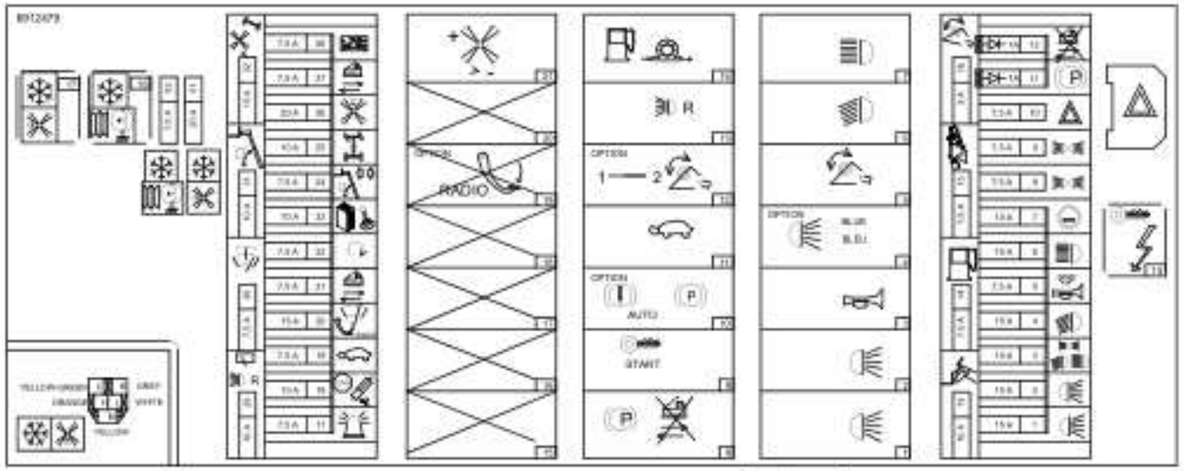
All Main Bearings	0.0022 - 0.0046 in. (0,057 - 0,117 mm)

Thrust Washer Thickness	
Standard	0.089 - 0.091 in. (2,26 - 2,31 mm)
Oversize	0.096 - 0.098 in. (2,45 - 2,50 mm)

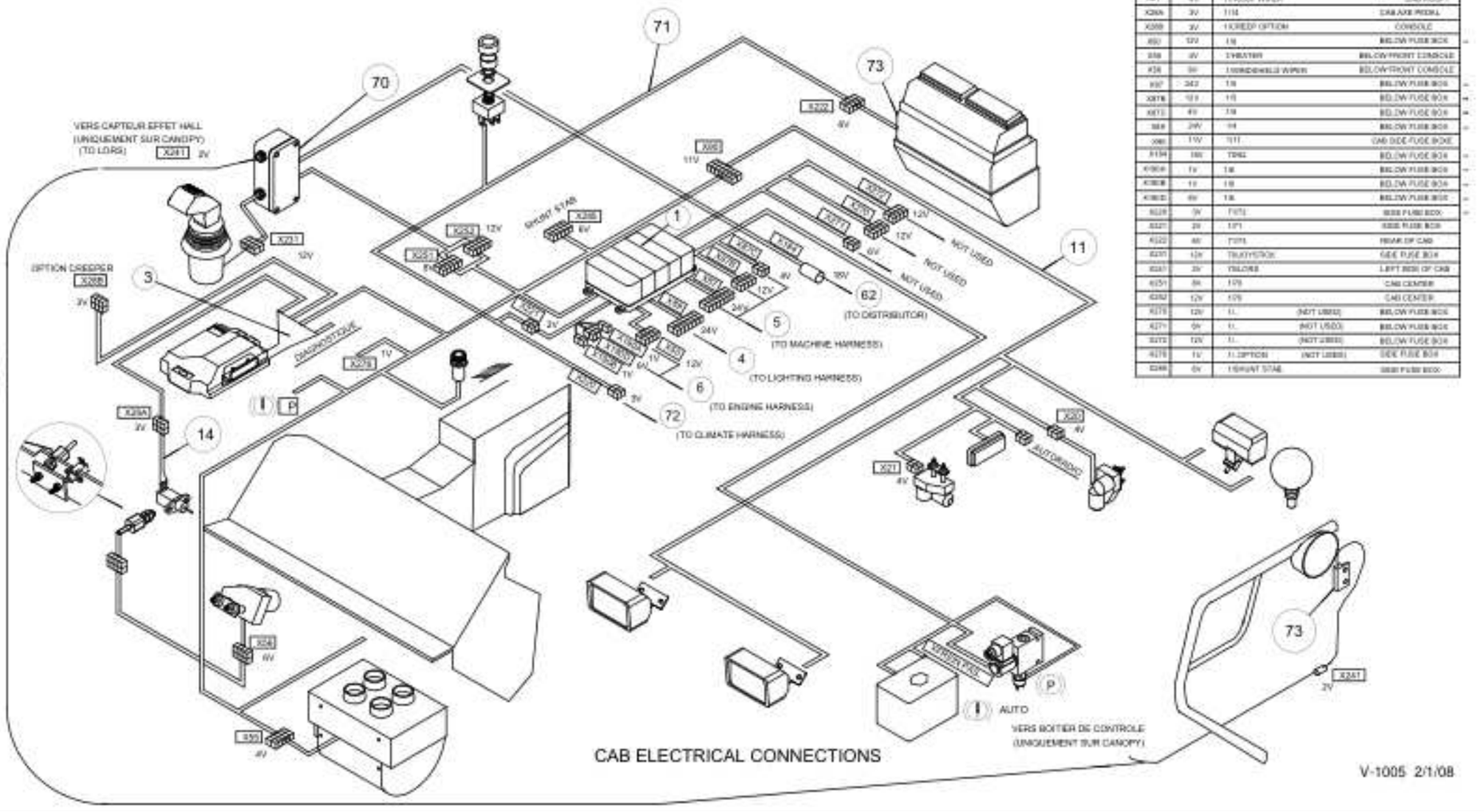
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ELECTRICAL SCHEMATIC
V518 (S/N A8G811001 AND ABOVE)
V518 (S/N A8G911001 AND ABOVE)
(Printed February 2008)
V-1005
Sheet 3 of 9





Connector No.	Number of pins	CONNECTIONS (X / Y)	LOCATION
X20	4V	1 WIPER	CAB ROOF
X21	4V	11 ROOF WIPER	CAB ROOF
X26A	3V	11A	CAB SIDE PEDAL
X26B	3V	1 X OPTION	CONSOLE
X50	12V	1A	BELOW FUSE BOX
X58	4V	1 HEATER	BELOW FRONT CONSOLE
X59	6V	1 WINDSHIELD WIPER	BELOW FRONT CONSOLE
X67	24V	1A	BELOW FUSE BOX
X67A	12V	1A	BELOW FUSE BOX
X67C	4V	1A	BELOW FUSE BOX
X68	24V	1A	BELOW FUSE BOX
X80	11V	1111	CAB SIDE FUSE BOX
X134	18V	TRIM	BELOW FUSE BOX
X180	1V	1A	BELOW FUSE BOX
X180A	1V	1A	BELOW FUSE BOX
X180B	1V	1A	BELOW FUSE BOX
X220	6V	1A	SIDE FUSE BOX
X227	2V	1 PT	SIDE FUSE BOX
X240	8V	7 PIN	REAR OF CAB
X251	12V	TRIJOYSTICK	SIDE FUSE BOX
X267	3V	YELOVER	LEFT SIDE OF CAB
X270	8V	1 PIN	CAB CENTER
X282	12V	1 PIN	CAB CENTER
X275	12V	1... (NOT USED)	BELOW FUSE BOX
X271	6V	1... (NOT USED)	BELOW FUSE BOX
X272	12V	1... (NOT USED)	BELOW FUSE BOX
X276	1V	1 X OPTION (NOT USED)	SIDE FUSE BOX
X246	6V	1 SHUNT STAB	SIDE FUSE BOX



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