

PARTS & SERVICE NEWS

REF NO.	AA02205
DATE	August 6, 2002

SUBJECT:	AIR CONDITIONING SYSTEM IMPROVEMENTS
PURPOSE:	To inform the field of various improvements to the air conditioning system and available upgrade kits.
APPLICATION:	Komatsu Electric Drive Dump Trucks: 930E: AFE48-A thru V, A30019, A30026 thru A30292, & A30294; 830E: AFE32-A & Up, A30544 thru A30676; 730E: AFE47-A thru AA, A30079 thru A30214, equipped with Cummins or Komatsu branded engines
FAILURE CODE:	8700Z9
DESCRIPTION:	830E/930E Air Conditioning Upgrade Kit (XK0147) & 730E Air Conditioning Upgrade Kit (XK0163)

Several improvements to the air conditioning systems on the specified truck models have been developed recently. The improvements consist of the following:

- Relocation of the receiver-drier and subsequent wiring and piping changes
- New, improved mounting bracket for the receiver-drier
- Elimination of the clutch diode and subsequent wiring changes (Refer to Parts & Service News, AA01070)
- Functionality of the air conditioner to operate only when the blower switch has been activated (Refer to Parts & Service News, AA02104)
- New, improved A/C belt guard (Refer to Parts & Service News, AA02166)
- Serviceability of compressor clutch components (Refer to Parts & Service News, AA01140)
- "Matched set" V-belts (830E/930E only)

Two kits have been developed for upgrading trucks to the new receiver-drier mounting location and new mounting bracket, along with a matched set of V-belts for 830 and 930 models. The remaining improvements listed above can be made by referring to the Parts & Service News Bulletins that are referenced above. The contents of the 830E/930E Air Conditioning Upgrade Kit (XK0147) are listed in Table 1. The contents of the 730E Air Conditioning Upgrade Kit (XK0163) are listed in Table 2. Drawings containing instructions for the installation of the upgrade kits are provided in each kit.

NOTE: The matched set of V-belts included in the kit for the 830E/930E trucks helps prevent premature wear and stress on the belts, as was evident in the past. For example, if one belt was longer than the other, most, if not all of the work of turning the compressor was done by the shorter of the two belts. This causes excessive wear to the shorter belt while the longer belt remains in good condition. The new matched sets contain belts of equal length, thereby preventing this problem from occurring. Any future belt replacements must be made using a matched set regardless of the condition of either belt.

Part Number	Description	Quantity
EK3007	Drawing, A/C Upgrade Kit	1
PC1359	V-Belts, Matched Set	1
EK0193	Bracket Structure	1
PC1341	Bracket, Drier	1
HA7876	Hose	1
HA7877	Hose	1
MM0027	Capscrew	4
MM0459	Flatwasher	4
MM0648	Stud, Weld	7
VN9907	Clamp, Vinyl	7
MM0471	Lockwasher	7
MM0178	Nut	7
EK3008	Harness Structure, A/C Jumper	1
VH2929	Connector, Terminal Butt	4
EK3009	Shrink Sleeve	1

Part Number	Description	Quantity
EK3698	Drawing, Receiver-Drier Relocation Kit	1
EK0193	Bracket Str.	1
PC1341	Bracket, Drier	1
HA7876	Hose	1
HA7877	Hose	1
MM0027	Capscrew	4
MM0459	Flatwasher	4
MM0648	Stud, Weld	7
VN9907	Clamp, Vinyl	7
MM0471	Lockwasher	7
MM0178	Nut	7
EK3008	Harness Structure, A/C Jumper	1
VH2929	Connector, Terminal Butt	4
EK3009	Shrink Sleeve	1