

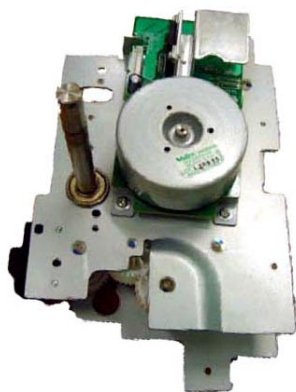
<b>SB Number:</b>	<b>SB 2GR-027-Revised issue</b>	<b>Creation Date: 31/03/2009</b>
<b>Subject:</b>	<b><i>A developing sleeve line may appear, added developing clutch to DR-710</i></b>	
<b>Model:</b>	<b>KM-3050/4050/5050</b>	

<b>Revision info</b>	The affected serial numbers have been added.
----------------------	--

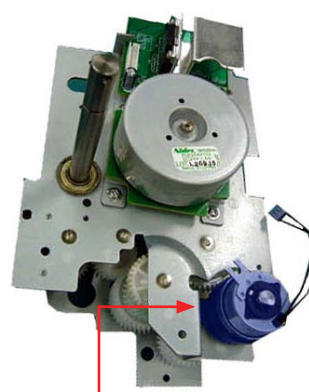
<b>Phenomenon</b>	A developing sleeve line may appear on the image, due to deterioration of the toner.
-------------------	--

<b>Solution</b>	<p><b>The following changes have been made to prevent the toner from deteriorating:</b></p> <ol style="list-style-type: none"> <li>1. A clutch has been added to the DR-710 to reduce the drive time of the developing unit. For this reason, the name of the DR-710 302GR93200 has been changed to DR-711 302GR93290.</li> <li>2. In order to drive the clutch, a gear, shaft, parallel pin, stopper and bearing have been added to the DR-711.</li> <li>3. In order to make it possible for the engine PCB to drive the clutch, a connector has been added. Add Wire DLP CL (Length=395mm) between the clutch at the DR-711 and the engine PCB.</li> <li>4. To add the ability to stop the clutch, the shape of the mount fly wheel has been changed.</li> <li>5. To control the clutch at the DR-711, the firmware has been changed.</li> <li>6. A seal has been added above the toner container to indicate that the machine has a DR-711 installed.</li> </ol>
-----------------	---

Old condition: DR-710



New condition: DR-711



Added **clutch** to prevent toner deterioration

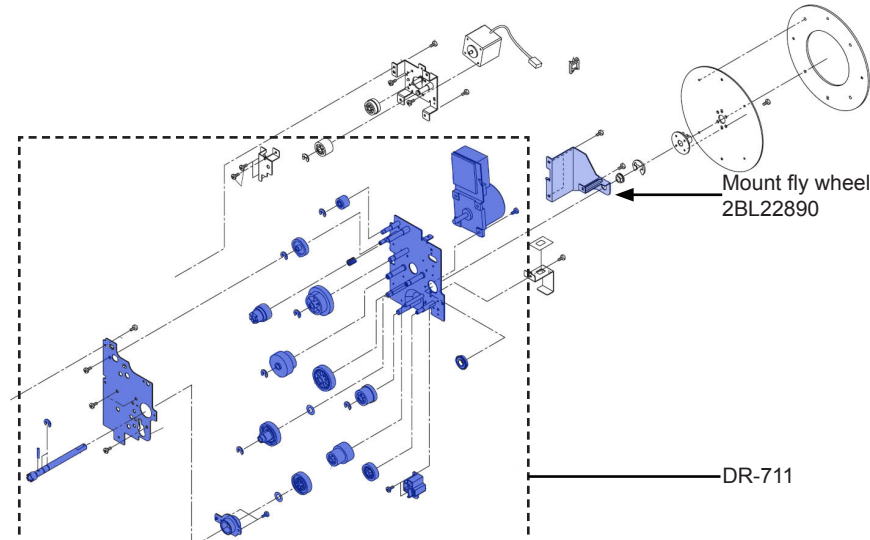
Latest firmware as of 2008	Type	Program No.	Check SUM	Version
	MAIN	S2GR_2000019009	-----	019.009
	MMI	S2GR_7000019004	-----	019.004
	ENGINE	S2GR_1000014002	-----	014.002
	SCANNER	S2GR_1200005001	-----	005.001

Affected serial numbers	Type	Serial number
	KM-3050	PAH8X21386 and higher
	KM-4050	PAJ8X09175 and higher
	KM-5050	PAK8913176 and higher

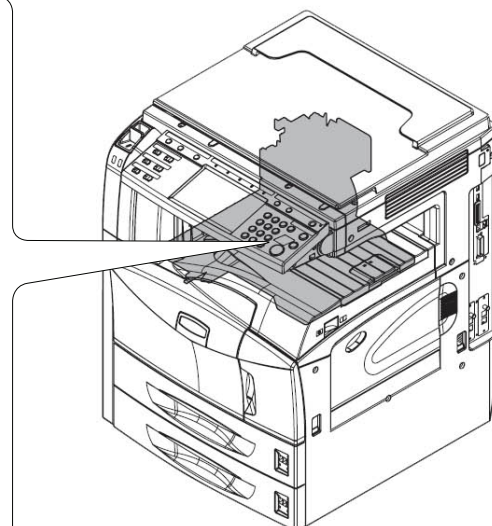
Parts	No.	Old Parts No.	New Parts No.	Description	Q'TY		Interchange-ability		SP
					Old	New	Old	New	
	1	302GR93200 2GR93200	302GR93290 2GR93290	DR-711	1	1	X	O	O
	2	2FG22010	302GR31940 2GR31940	+PLATE DRIVE FRONT	1	1	X	X	-
	3	302FG22021 2FG22021	302GR31950 2GR31950	+PLATE DRIVE REAR	1	1	X	X	-
	4	-----	302GR31930 2GR31930	+SHAFT CLUTCH DLP	-	1	-	X	-
	5	-----	302GR44300 2GR44300	+CLUTCH DLP	-	1	-	X	-
	6	-----	302GR31960 2GR31960	+GEAR Z28H	-	1	-	X	-
	7	-----	302GR31970 2GR31970	+GEAR Z40H	-	1	-	X	-
	8	-----	302GR31980 2GR31980	+GEAR Z30H	-	1	-	X	-
	9	-----	302GR31990 2GR31990	+GEAR Z26H	-	1	-	X	-
	10	2BL22180	-----	+GEAR Z37H-Z28H	1	-	X	-	-
	11	D1A00700	2BC06910	+STOPPER 6	4	7	O	O	-
	12	D1A00500	5MVX- 111DN003 2A806250	+RING STOPPER / A-49 FEED A4	2	2	O	O	-
	13	-----	2BC06980	+STOPPER 5	-	1	-	O	-
	14	-----	5MBP- 2012WPLD E5120120	+PARALLEL PIN / M2 X 12 SUS-DP	-	1	-	X	-
	15	-----	2BC06510	+BUSHING 8	-	2	-	X	-
	16	302BL22891 2BL22891	302BL22892 2BL22892	MOUNT FLYWHEEL	1	1	X	O	-
	17	7YZM610007 ++H01 YZ023340	7YZM610007 ++H01 YZ023340	ACCESS.SADDLE	2	3	-	-	-
	18	5MBT- PB3006 TW++R B1A53060	5MBTPB3006 TW++R B1A53060	BIND T.T SCREW(+) / M3 X 6 CRFREE S-T	4	3	-	-	-
	19	302GR94131 2GR94131	302GR94132 2GR94132	PARTS,PWB ENGINE ASS'Y,SP	1	1	X	O	O
	20	-----	302GR46790 2GR46790	WIRE DLP CL	-	1	-	X	-

<b>Classification</b>	<input type="checkbox"/> Entire stock rework	<input type="checkbox"/> In-field modification at next visit	<input type="checkbox"/> In-field modification by case	<input checked="" type="checkbox"/> No modification necessary
<b>Field measure</b>	1. Upgrade the firmware to the latest version. 2. Replace the DR-710 302GR93200 with DR-711 302GR93290. 3. Replace the other parts which are mentioned in the parts table. (Please note that If the old parts and/or firmware are used, the clutch will not function.)			

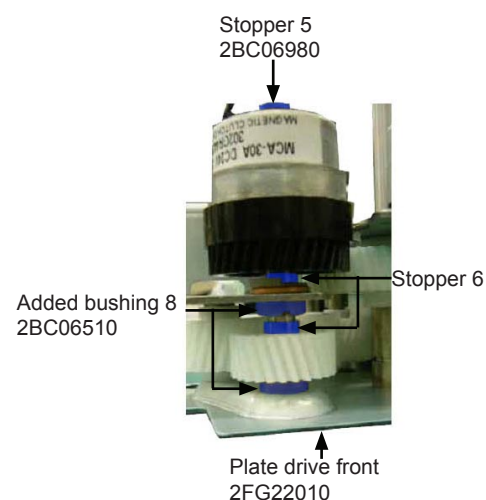
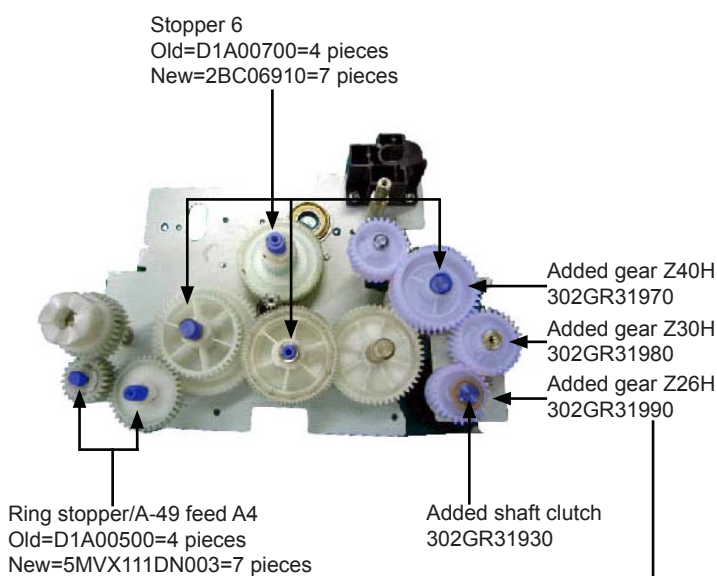
**Fig. 18 Drive unit 2;** A clutch has been added to the DR-710 (Name has been changed to DR-711) and the shape of mount fly wheel has been changed to stop the clutch drive.



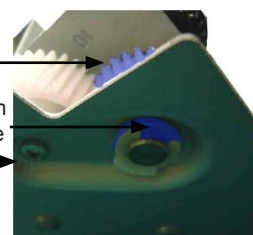
View from the back of the DR-711



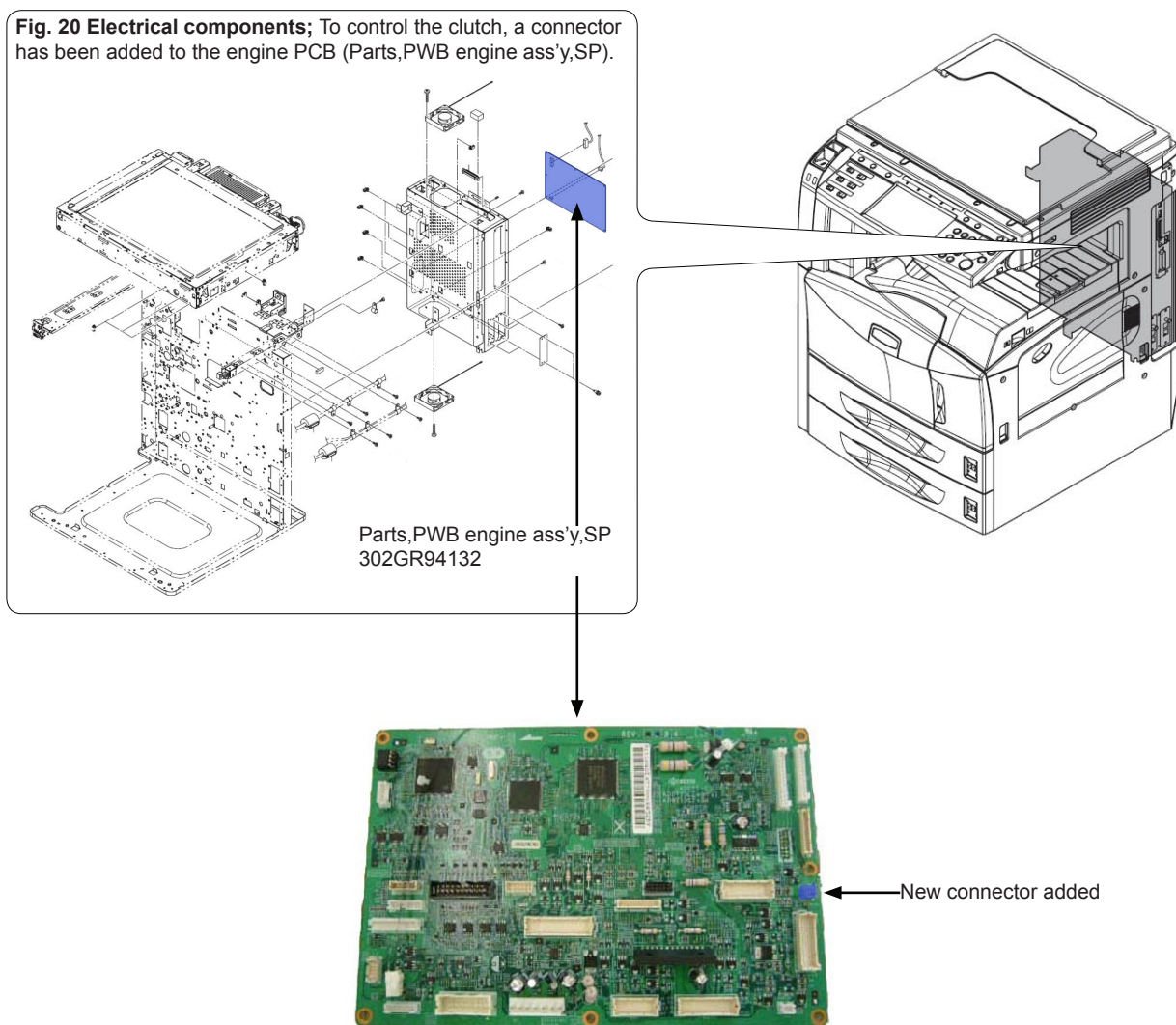
Side view of the clutch



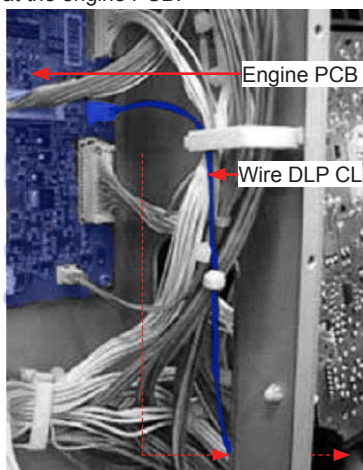
Stopper 6 also has been added at the back of the plate drive front



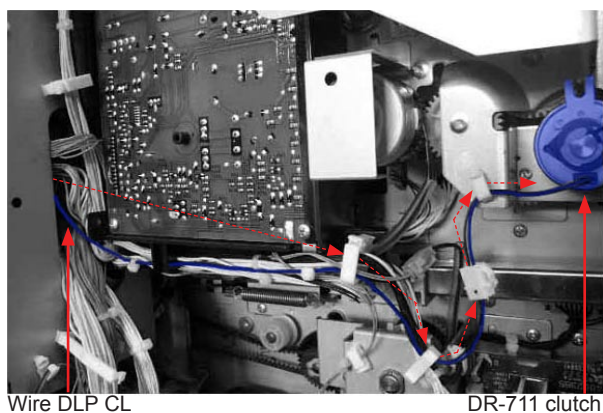
**Fig. 20 Electrical components;** To control the clutch, a connector has been added to the engine PCB (Parts,PWB engine ass'y,SP).



Connect one end of the wire DLP CL 302GR4670 to the added connector at the engine PCB.

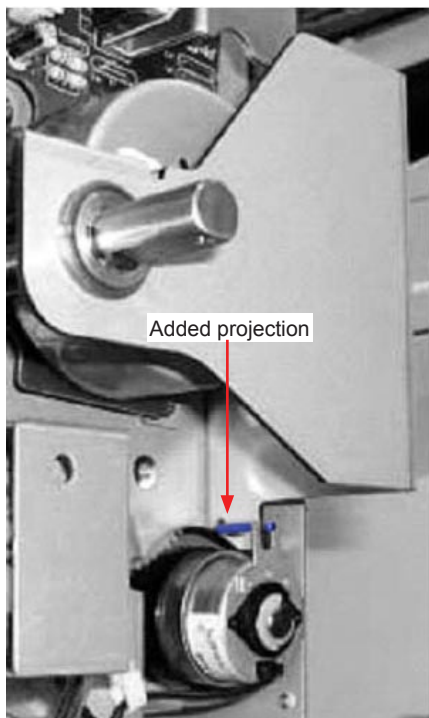


Connect the other end of the wire DLP CL to the clutch at the DR-711



Direction of the wire DLP CL= ----->

**Item 4:** To stop the clutch from driving, a projection has been added to the mount fly wheel.



**Item 6:** To indicate that the machine has a DR-711 installed, a blue seal has been added directly above the toner container.

