



Broadcast Products Technical Bulletin 20-2011-052

DATE: **June 6, 2011**

SUBJECT: **REPLACING SWITCHING REGULATOR WITH POWER BLOCK ASSEMBLY (A70)**

MODEL: **HDC1400 Series**
HDC1400R//UL
 HDC1400R/L
HDC1400R/T
 HDC1400R/T
HDC1450 Series
HDC1450R//UF
 HDC1450R/K
HDC1500 Series
HDC1500R//UL
 HDC1500R/L
HDC1500R/T
 HDC1500R/T
HDC1550 Series
HDC1550R//UF
 HDC1550R/K
HDC1580 Series
HDC1580R/L
HDC1580R/T
HDC1600 Series
HDC3300 Series
HDC3300R/L
 HDC3300R/L
HDC3300R/T
 HDC3300R/T

DESCRIPTION

A new AC-DC power supply is available. (See Figure 1.)

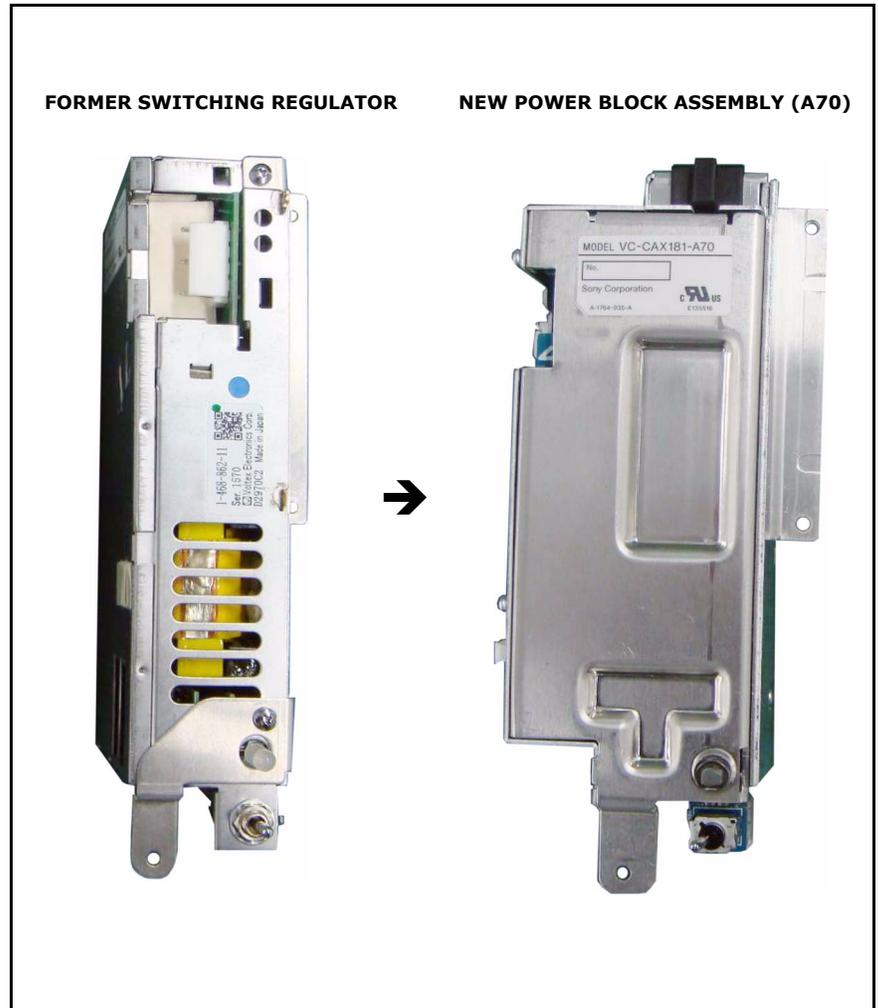


Figure 1

When replacing the former switching regulator with the new power block assembly (A70), use the new parts listed in Table 1 on page 3.

SERIAL NO:

HDC1400 Series	All
<i>HDC1400R//UL</i>	<i>Up to 410,000</i>
HDC1400R/L	Up to 11,000
<i>HDC1400R/T</i>	<i>Up to 51,000</i>
HDC1400R/T	Up to 31,000
HDC1450 Series	All
<i>HDC1450R//UF</i>	<i>Up to 410,000</i>
HDC1450R/K	Up to 11,000

(Part 1 of 2)

Italicized information in green applies to customers outside the United States.

HDCM10-027

SERIAL NO: (Continued)

HDC1500 Series	All
<i>HDC1500R//UL</i>	<i>Up to 410,000</i>
HDC1500R/L	Up to 11,000
<i>HDC1500R/T</i>	<i>Up to 51,000</i>
HDC1500R/T	Up to 31,000
HDC1550 Series	All
<i>HDC1550R//UF</i>	<i>Up to 410,000</i>
HDC1550R/K	Up to 11,000
HDC1580 Series	All
<i>HDC1580R/L</i>	<i>Up to 51,000</i>
<i>HDC1580R/T</i>	<i>Up to 51,000</i>
HDC1600 Series	All
HDC3300 Series	All
<i>HDC3300R/L</i>	<i>Up to 41,000</i>
HDC3300R/L	Up to 11,000
<i>HDC3300R/T</i>	<i>Up to 51,000</i>
HDC3300R/T	Up to 31,000

(Part 2 of 2)

Italicized information in green applies to customers outside the United States.

NOTE:

- To prevent interference with the new power block assembly, the heat sink for the DC-DC converter assembly must be replaced first.
Replacement of the heat sink depends on the shape of the DC-DC converter. Refer to "REPLACING HEATSINK ON DC-DC CONVERTER" on page 4 of this technical bulletin.
- For details on how to replace the former switching regulator with the new power block assembly, refer to "REPLACING POWER BLOCK ASSEMBLY" on page 5 of this technical bulletin.

ORDERING INFORMATION

To order parts online, go to: www.sony.com/servicesplus. For service or parts ordering assistance, refer to the following document, which lists all contact telephone numbers:

Technical Bulletin 00-1999-000

Table 1

Model	Former Parts		→	New Parts																
	Description	Part No.		Description	Part No.															
All	Switching regulator	1-468-862-1x	→	Power block assy (A70)	A-1764-935-A															
	Bracket (Dengen)	3-872-593-0x	→	PS attachment kit (A70)*	A-1778-956-A*															
	Thermattach tape (AC/DC)	3-872-621-0x																		
	Heat trans sheet (Dengen upper)	3-986-640-0x																		
	Heat trans sheet (Dengen lower)	3-986-641-0x																		
	Heat sink 2 (DD)	3-872-614-0x																		
	Heat conduct sheet (DD)	3-872-619-0x																		
Non-Triax Cameras: HDC1400 HDC1400R HDC1500 HDC1500R HDC1580 HDC1580R HDC1600 HDC1600R HDC3300	Screw, +B2.6×5 Nylock Qty: 3	3-364-941-0x	→	Screw, +PSW 2.6×8 Qty: 3	7-621-759-65															
	Clamp	4-908-882-0x				Triax Cameras: HDC1450 HDC1450R HDC1550 HDC1550R	Screw, +B2.6×5 Nylock Qty: 2	3-364-941-0x	→	Screw, +PSW 2.6×8 Qty: 2	7-621-759-65	Clamp, Qty: 2	4-908-882-0x	Sub harness (Triaxin A70)	1-967-495-11	FL-338 assy	A-1169-464-A	Cable clamp (PJ-21B) Qty: 2	4-209-962-01	Reuse clamp, Qty: 2
Triax Cameras: HDC1450 HDC1450R HDC1550 HDC1550R	Screw, +B2.6×5 Nylock Qty: 2	3-364-941-0x	→	Screw, +PSW 2.6×8 Qty: 2	7-621-759-65															
	Clamp, Qty: 2	4-908-882-0x		Sub harness (Triaxin A70)	1-967-495-11															
	FL-338 assy	A-1169-464-A		Cable clamp (PJ-21B) Qty: 2	4-209-962-01															
	Reuse clamp, Qty: 2	3-853-802-0x																		
	FL holder	3-990-333-xx																		

* The PS attachment kit (A70) contains the following parts:

- Thermal sheet (A70-small) (4-185-753-0x)
- Thermal sheet (A70-chassis) (4-185-754-0x)
- Heat sink 2 (DD) (4-184-888-0x)
- Heat conduct sheet (DD) (3-872-619-0x)

NOTE: The former parts should all be discarded.

REPLACING HEATSINK ON DC-DC CONVERTER (See Figure 2.)

NOTE:

- The applicable DC-DC converter assemblies are:
 - A-1128-443-A
 - A-1179-730-A
 - A-1211-214-A
- If using power assembly (D60/D60P) (A-1765-460-A/A-1773-365-A), the following procedure is not necessary.

1. Prepare the PS attachment kit (A70).
2. Remove the former heat sink 2 (DD) from the DC-DC converter, and replace it with the following two new parts included in the PS attachment kit:
 - Heat sink 2 (DD)
 - Heat conduct sheet (DD)

NOTE: Install the new parts by reusing the removed screws.

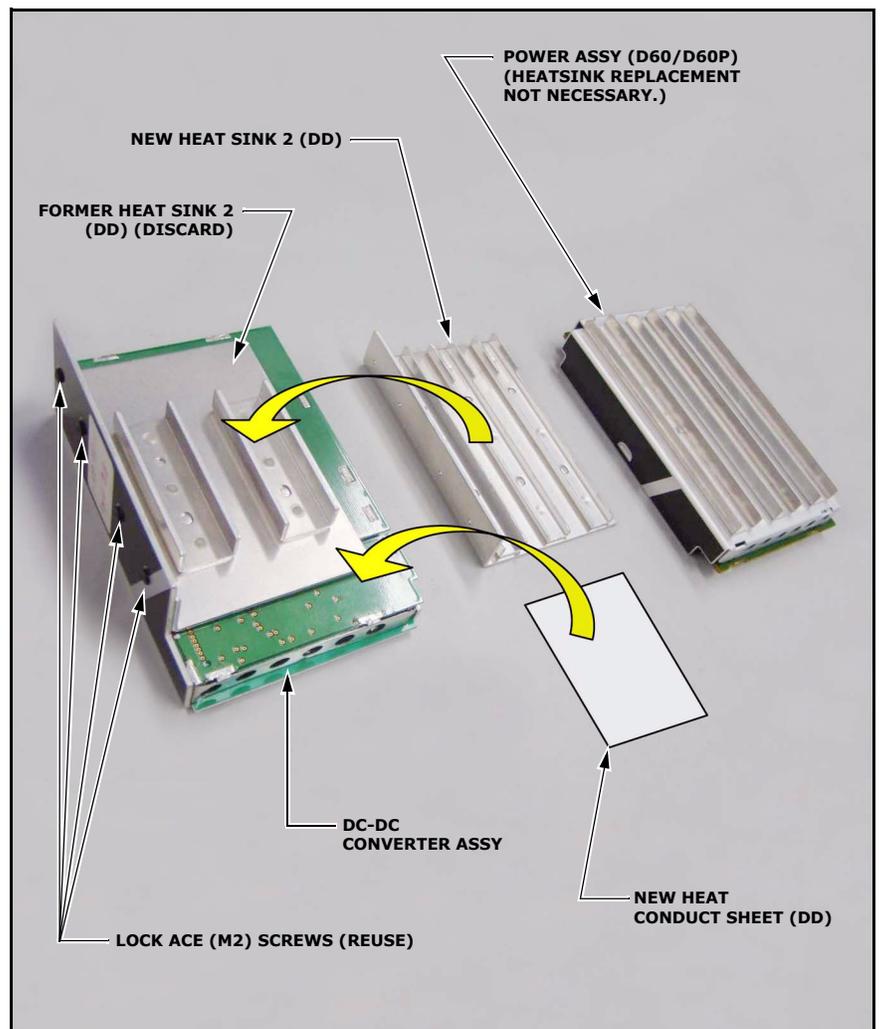


Figure 2

REPLACING POWER BLOCK ASSEMBLY

1. Remove the former power supply block (switching regulator) and all the following parts from the camera main unit. (See Figure 3.)

All Units (See Figure 3.)

- Bracket (Dengen)
- Thermattach tape (AC/DC)
- Heat trans sheet (Dengen upper)
- Heat trans sheet (Dengen lower)

Non-Triax Cameras (Excluding HDC1450/R and HDC1550/R) (See Figure 3.)

- Screws, +B2.6×5 Nylock, Qty: 3
- Clamp

Triax Cameras (HDC1450/R and HDC1550/R) (See Figure 3 and Figure 4.)

- Screws, +B2.6×5 Nylock, Qty: 2
- Clamp, Qty: 2
- FL-338 assembly (See Figure 4.)
- Reuse clamps, Qty: 2 (See Figure 4.)
- FL holder (See Figure 4.)

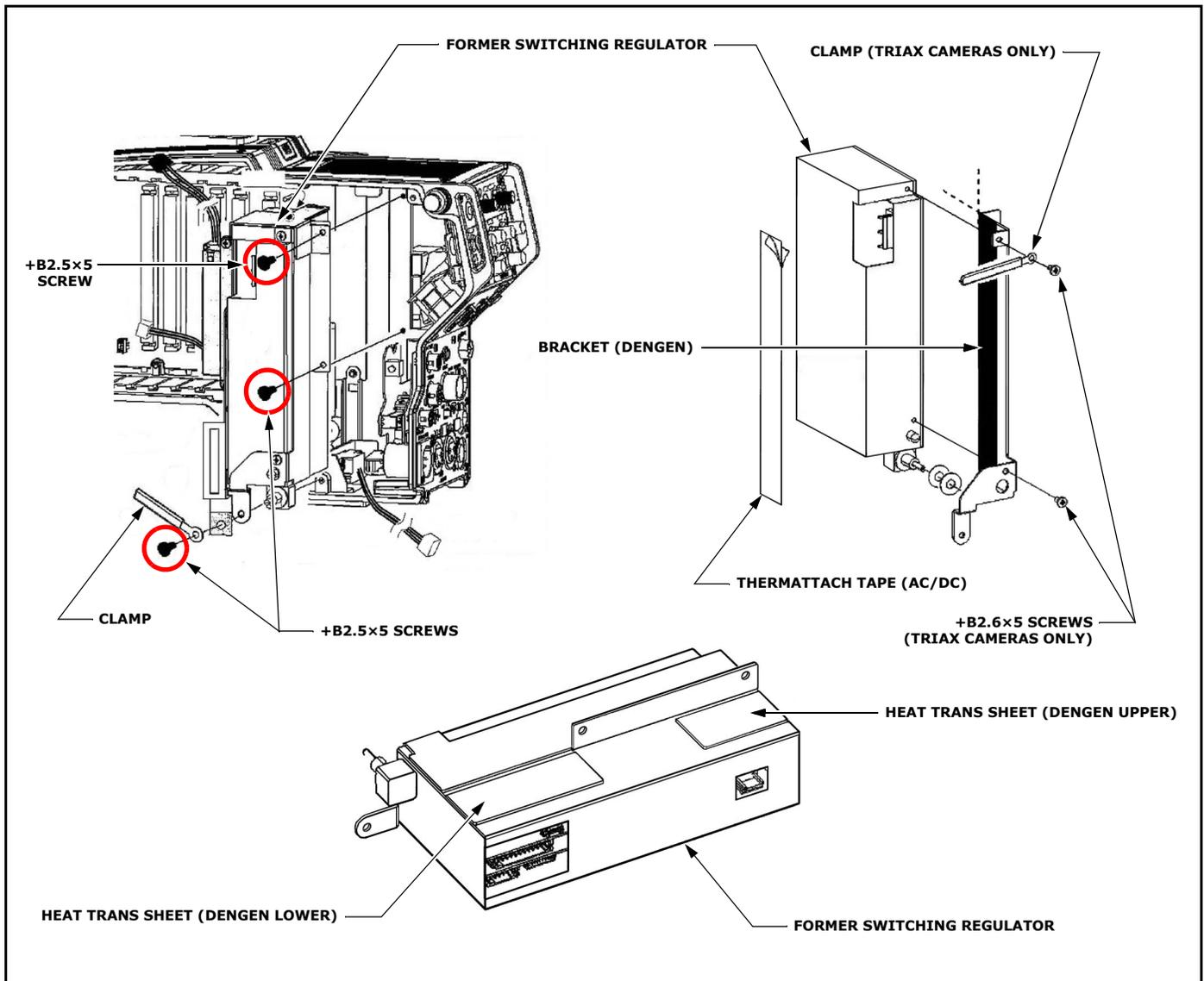


Figure 3

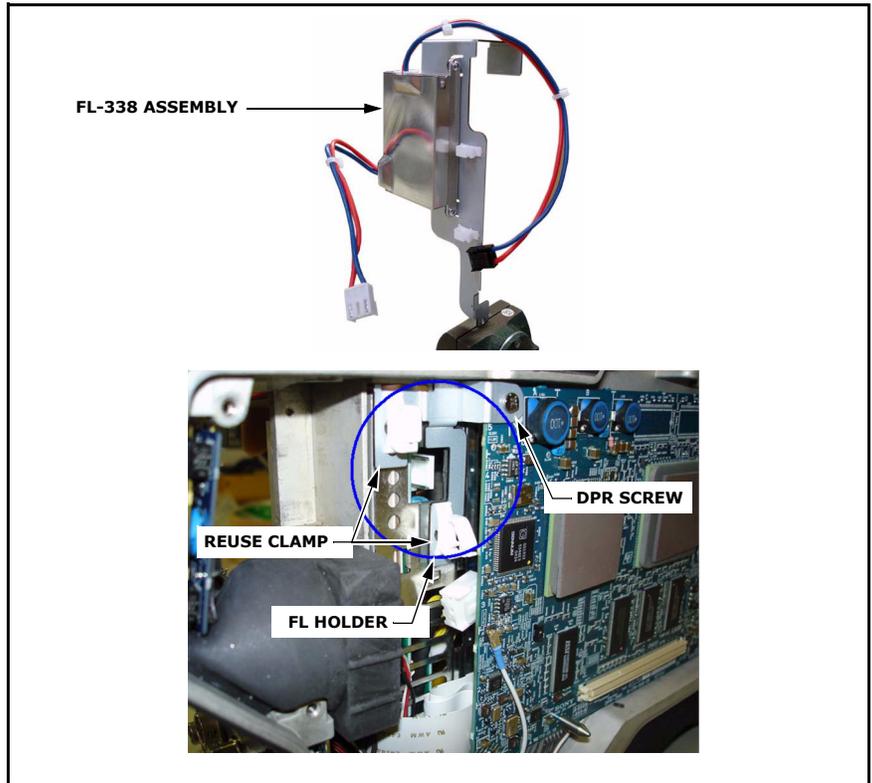


Figure 4

2. Attach the new thermal sheets to the new power block assembly (A70). (See Figure 5.)

- Thermal sheet (A70-small)
- Thermal sheet (A70-chassis)

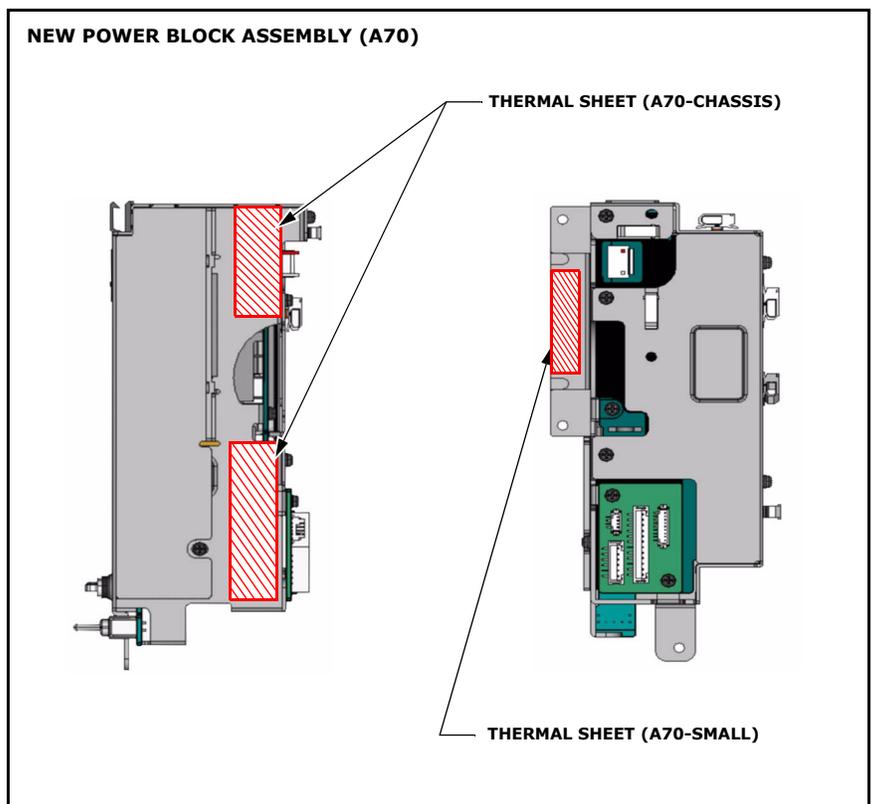


Figure 5

**Non-Triax Cameras
(Excluding HDC1450/R and HDC1550/R)**

For non-Triax cameras, install the power block assembly to the camera using the following new screws:

+PSW 2.6×8, Qty: 3

NOTE: For non-Triax cameras the installation is now complete.

Triax Cameras (HDC1450/R and HDC1550/R)

1. For Triax cameras, attach the two new cable clamps (PJ-21B) to the power block assembly as shown in Figure 6.

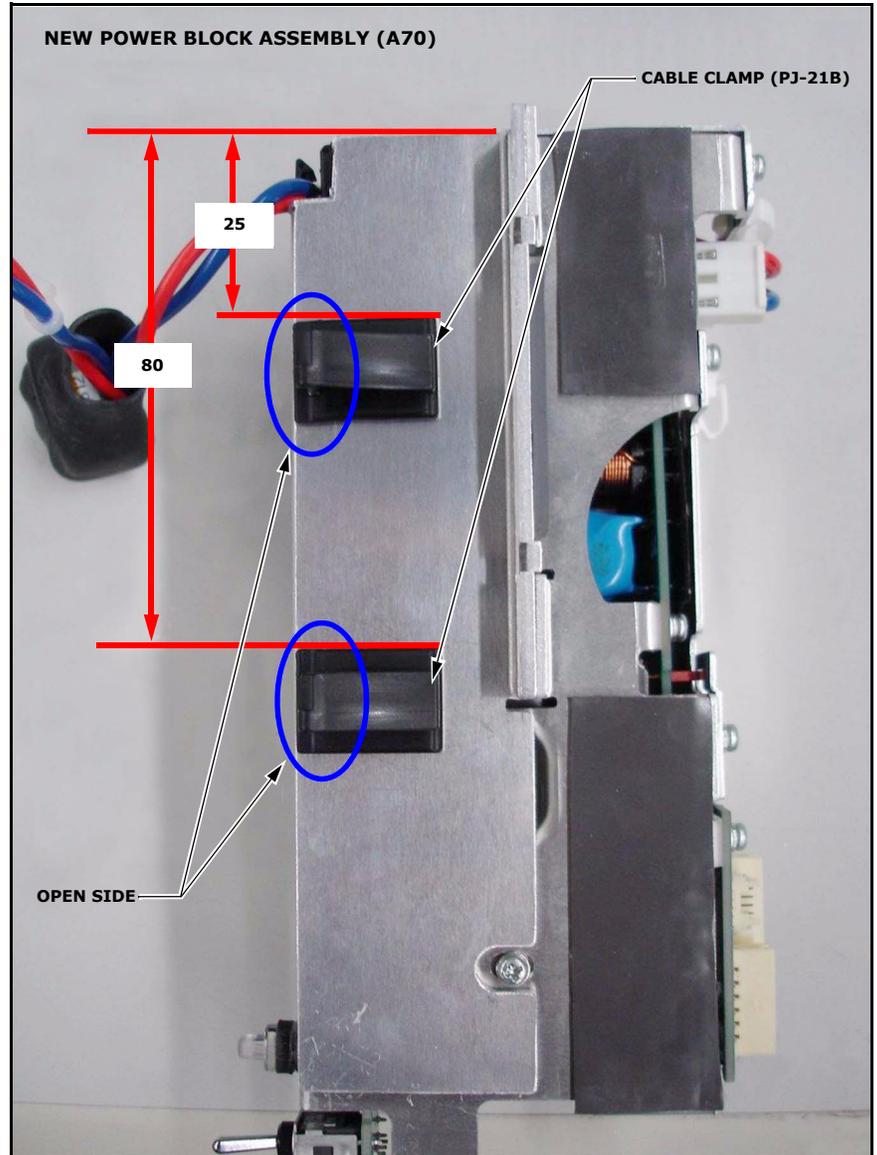


Figure 6

2. Attach the new sub harness (Triaxin A70) to the power block assembly as follows:

Connect the white connector of the sub harness to the white connector of the power block assembly as shown in Figure 7.

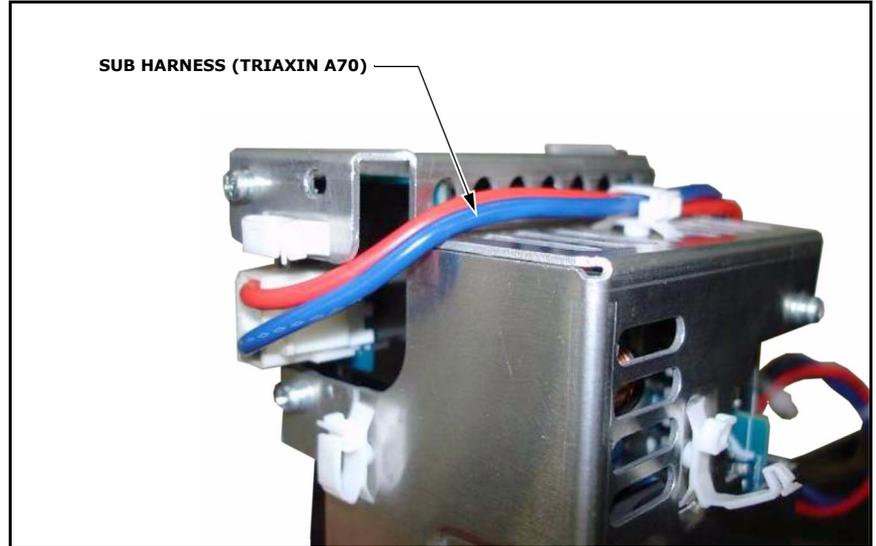


Figure 7

3. Install the power block assembly to the camera as follows:
 - a. Secure the power block assembly to the camera using the two new +PSW2.6×8 screws. Reuse one of the original +PSW2.6×8 screws.
 - b. Connect the BLK connector of the sub harness (Triaxin A70) to the BLK connector of the FL-337 board on the outside panel.
 - c. Insert the ferrite core of the sub harness, and secure the sub harness with the new cable clamp (PJ-21B) as shown in Figure 8.

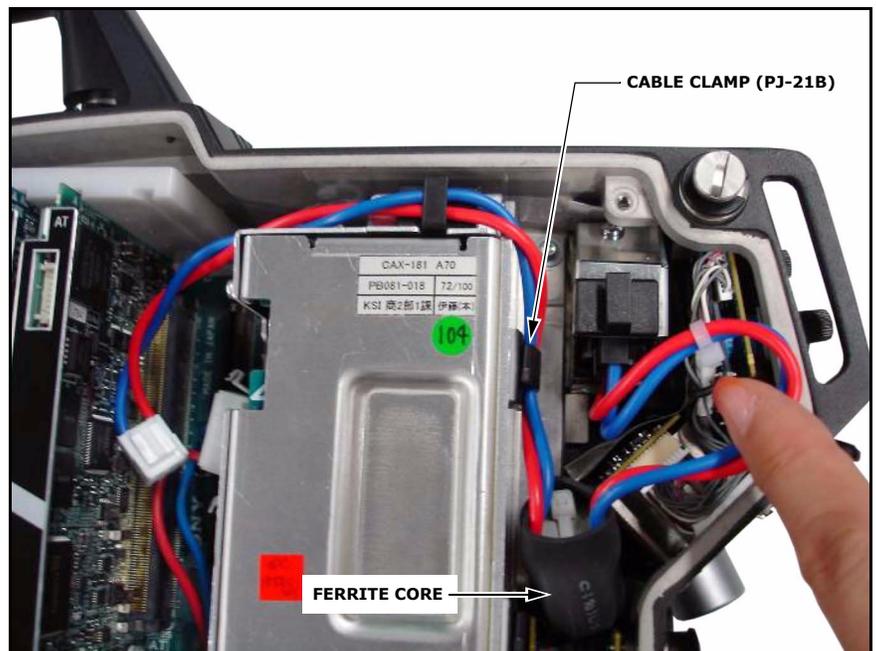


Figure 8

- d. Push the extra length of the harness next to the clamp as shown in Figure 9.

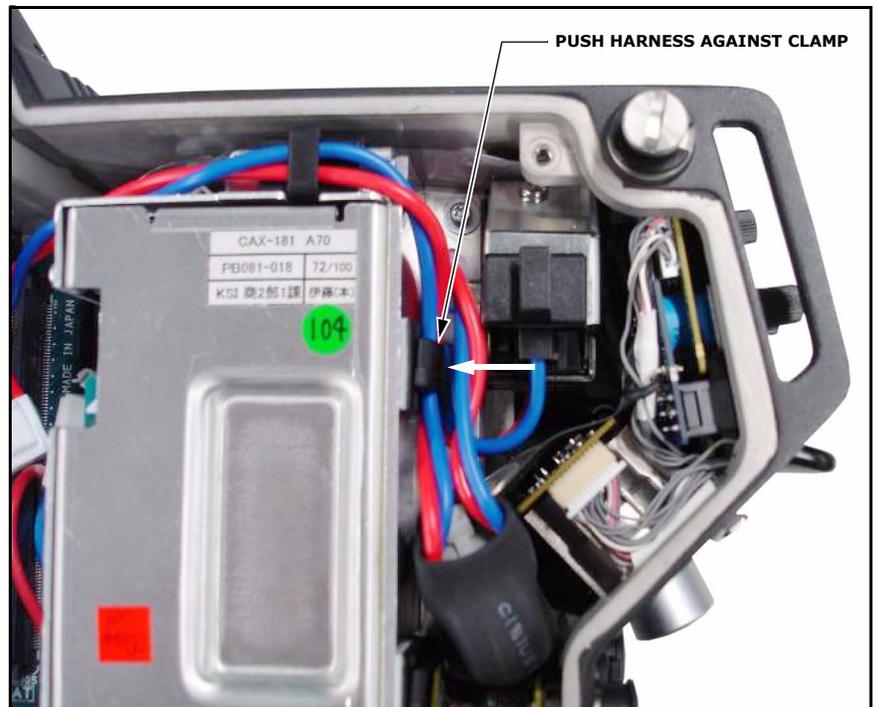


Figure 9