OPERATION MANUAL ▼ TOA INDOOR PAN AND TILT HEAD MODEL **CC-5521**

Please read this Operation Manual before installation and operation in order to avoid unexpected troubles caused by any misuse.

GENERAL

The TOA Indoor Pan And Tilt Head Model CC-5521 carries CCTV camera up to 11 kg when normally mounted, or 10 kg when hung from a ceiling. It provides remotely controlled 340° pan and 65° tilt up/down travels. Pan and Tilt limit cams are externally adjustable. The CC-5521 includes the advantages of auto-pan.

SPECIFICATIONS

1) Usable Place

: Indoor

2) Power Requirements : 24 V AC ± 10 %, 50/60 Hz, single phase

3) Power Consumption: Max. 40 VA

4) Ambient Temperature: -10°C to +45°C

5) Ambient Humidity

: 95% or less, relative humidity

6) Load Rating

: Upright mounting; 11 kg

Inverted mounting; 10 kg

* Based on C.G. to the camera mount center distance of 70 mm and offcenter displacement of 25 mm. (See Page 5).

* The tilting function may not work beyond the limited distances.

(C.G. = Center of Gravity)

7) Weight

: Approx. 5 kg

8) Operation

		Tilting	Panning
Arc of 7	ravel	65° ± 3° up 65° ± 3° down	340° or more* 330° ± 5° (auto-pan)
Speed	50 Hz	Approx. 3°/sec. ± 0.5°/sec.	Approx. 6°/sec. ± 0.5°/sec.
	60 Hz	Approx. 3.6°/sec. ± 0.6°/sec.	Approx. 7.2°/sec. ± 0.6°/sec.

^{* 360°} is available by removing a limit cam. (See Page 8).

9)	Main Skin Materials	:	Corrosion res	istant aluminum sheet, cast aluminum alloy, synthetic		
10)	Finish	:	Metal part;	Munsell 2.5 Y 6/1 approx. value (beige), leatherette and semi-glossy black texture		
			Resin part;	Munsell 5 Y 8/1 approx. value (ivory yellow), leatherette texture		
A	CCESSORIES					
	Connectors and Termin					
				both ends		
4) 4-pin connector (Mas	41	00); for zoom	lens 1 pc.		
2. 0	Camera Mounting Bolts	an	d Washers			
1) Hexagon head bolt; V	V 1	/4 x 14			
4) Insulation bushing .					
3. Accessories Illustrated						
	€ ×14		ZD ×	3 XI XI		
				•		
	1-①		1-2	1-④		
;	Spade lug terminal (L) S	pac	de lug terminal (S)	Coaxial cable with BNC connectors 4-pin connector		
	_					
			_			
	×2		×	2 ×2 ×2		

2-③ Plain washer

2-②

Spring washer

2-①

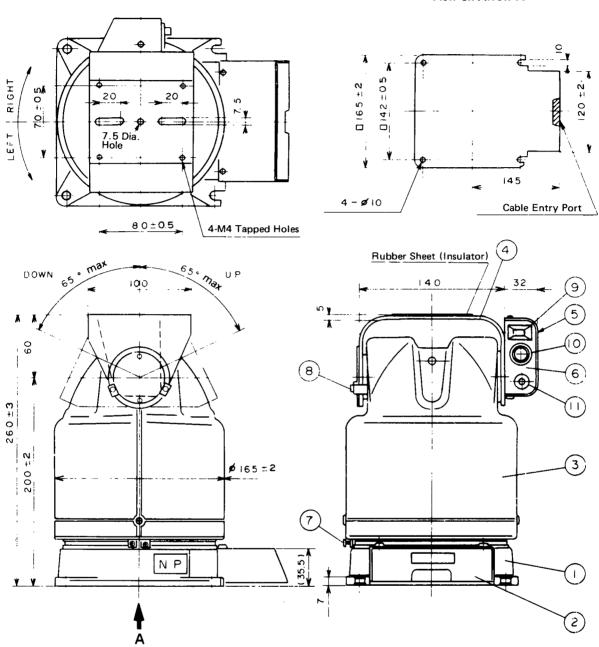
Hexagon head bolt

2-4

Insulation bushing

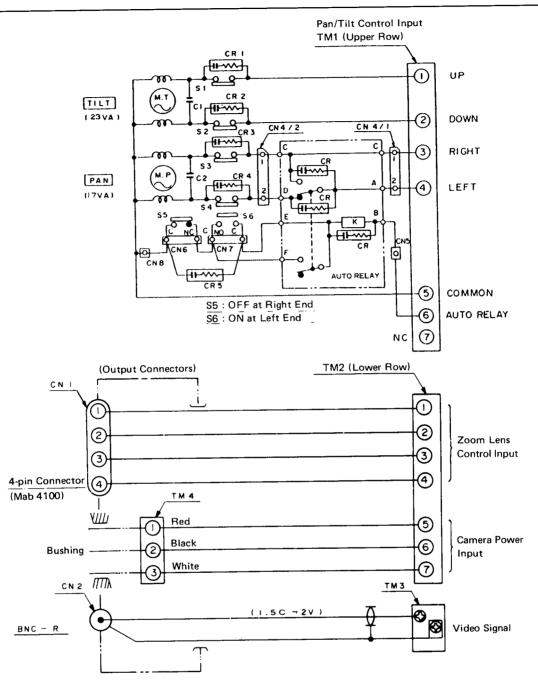
APPEARANCE AND DIMENSIONAL DIAGRAM

View on Arrow A



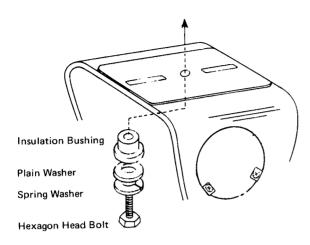
1	Flanged base	7	Pan limit cam
2	Terminal cover	8	Tilt limit cam
3	Main body cover	9	Cable entry busihing
4	Camera mount	10	Zoom lens connector (Mab 4100)
⑤	Connector cover	10	Coaxial cable connector
6	Connector plate		

CIRCUIT DIAGRAM

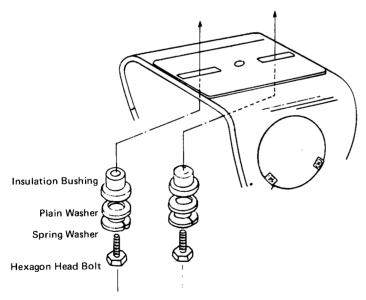


Symbol	Description	Q'ty	Symbol	Description	Q'ty
MT	Motor; tilt	1	CN4	2-pin connector; interconnection	1
MP	Motor; pan	1	CN5	1-pin connector; interconnection	1
C1	Capacitor; tilt motor starting	1	CN6-8	FASTON #187 terminal	(5)
C2	Capacitor; pan motor starting	1	S1-4	Limit switch	4
TM1	7-pin terminal block (upper row)	1	CR1-4	Spark suppressor	4
TM2	7-pin terminal block (lower row)	1	S5-6	Switch; auto	2
TM3	1-pin terminal block; video signal	1		Auto-relay circuit	1
TM4	3-pin terminal block;		K	Relay; AC	(1)
	camera power output	1	CR	Spark suppressor	(3)
CN1	4-pin connector; Mab 4100	1	CR5	Spark suppressor	(1)
CN2	Coaxial connector; BNC	1		Circuit board	(1)

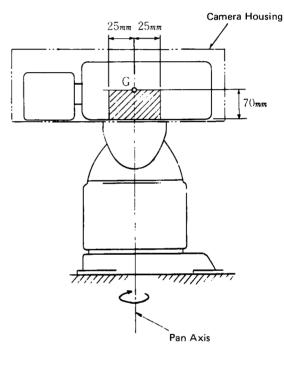
HOW TO MOUNT CAMERA

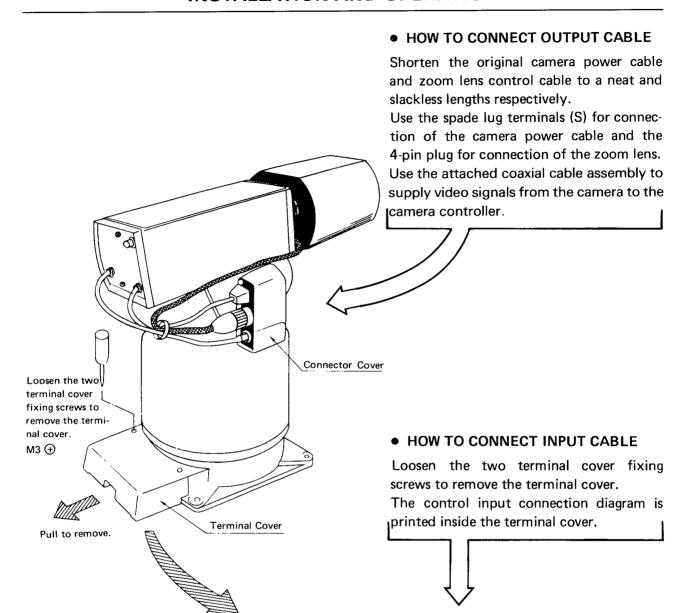


- Secure the camera onto the camera mount with an insulation bushing, plain washer, spring washer and hexagon head bolt supplied.
 Be sure to use the insulation bushing without fail, or objectionable video noise may result.
- For a camera placed in camera housing, additionally fix the housing through two rectangular fixing holes using two fixing bolts. This adds to security of the housing.

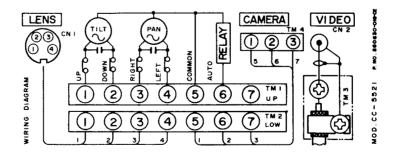


- 3. Mount the camera so that the C.G. (center of gravity) of the camera and lens (and camera housing) combination lies within the distance of 70 mm above the camera mount and off-center displacement of 25 mm from the camera mount center.
 - * The C.G. must lie within the shadowed zone as shown.
- 4. Make sure to install the camera in a place where the tip of the lens will not bump against the surrounding wall or ceiling when swiveling.





Control Input Connection Diagram (Printed inside the Terminal Cover)

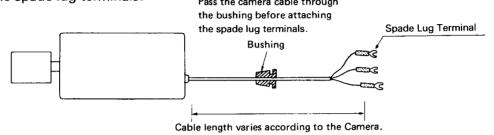


• HOW TO CONNECT CAMERA POWER CABLE

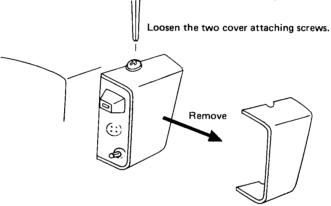
Pass the camera power cable through the bushing on the connector plate. And connect it to the 3-pin terminal block (TM4).

1. Cut the camera cable to a suitable length. Pass the camera cable through the bushing before attaching the spade lug terminals.

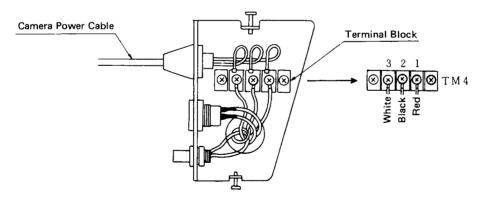
Pass the camera cable through



2. Remove the connector cover. Loosen the two cover attaching screws.

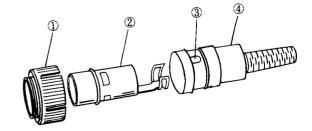


3. Attach the leads of the camera cable to the 3-pin terminal block (TM4).



• HOW TO DISASSEMBLE 4-PIN CONNECTOR

Pull off the screw ring ①. Pull out the core assembly ② out of the connector body ④ by pushing the release hole ③. The core assembly will be further disassembled for easy soldering.

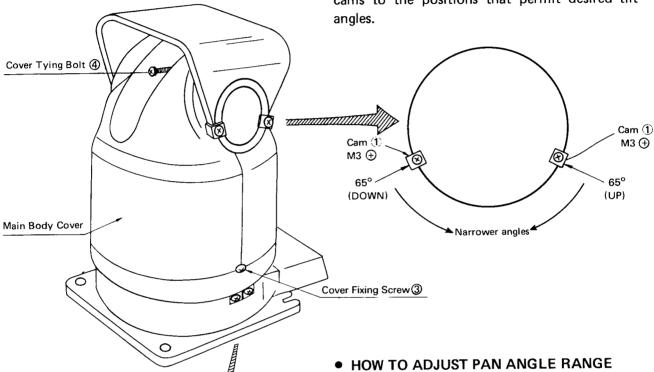


• HOW TO ADJUST TILT ANGLE RANGE

Tilt angle can be externally adjusted.

Positions of the tilt limit cams ① are factory set at 65° up and 65° down from the horizontal, and can be adjusted for any narrower angles by shifting the cams.

Loosen the cam ① fixing screws, and move the cams to the positions that permit desired tilt angles



Pan angle can be externally adjusted.

Positions of the pan limit cam ② are factory set at 340°, and can be adjusted for any narrower angles by shifting the cams.

Loosen the cam ② fixing screws and move the cams to the positions that permit desired anguels.

- * The maximum pan angle of 360° is available by removing one of the two pan limit cams ②.
- * To remove the pan limit cam, remove the main body cover by loosening two cover fixing screws 3 and removing cover tying bolt 4.

Cam (2) x 2

88

340

360°

Narrower angles ← (LEFT)

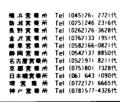
M3 ⊕



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