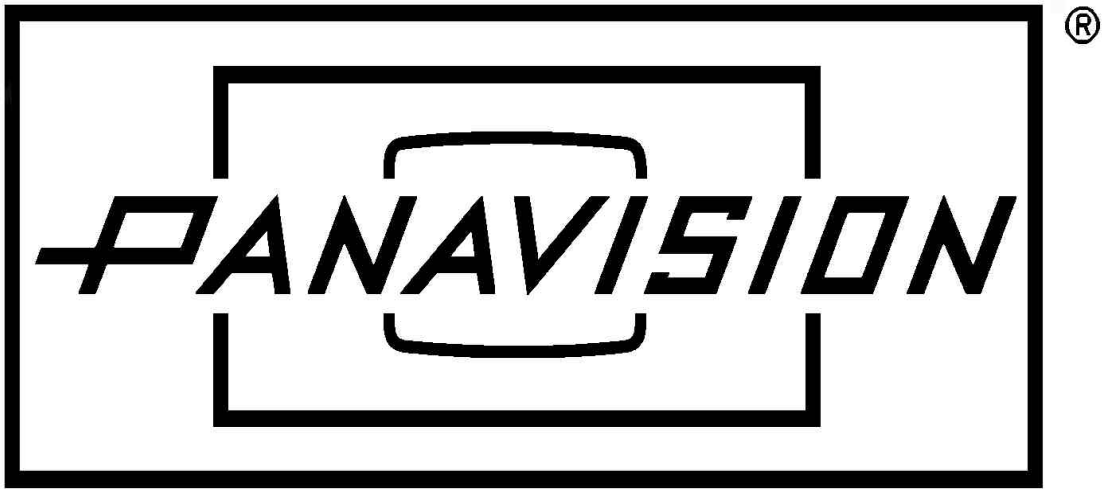


F.T.Z.S.A.C.

(FOCUS, T-STOP, ZOOM, SPEED-APERTURE, CONTROLLER)

INSTRUCTIONS

QUESTIONS? CALL: 1-800-FOR-PANA (1-800-367-7262) ED PAGEL, BRIAN DANG, OR CLAY FRANKLIN

6-20-95

F.T.Z.S.A.C.

1) BEFORE POWER-UP

1.1) CHANNEL NUMBERS MUST MATCH ON RADIO AND RECEIVER IF USING WIRELESS.

1.2) REMOTE CAMERA ON/OFF SWITCH ON THE CONTROLLER MUST BE IN THE "OFF" POSITION

1.3) SET FOCUS AND T-STOP KNOBS ON THE CONTROLLER TO THEIR MIDRANGE POSITION (SEE PAGE 6)

1.4) MOUNT FOCUS AND T-STOP MOTORS TO CAMERA IN THE DISENGAGED POSITION.

1.5) BE SURE MOTOR UNIT IS SET-UP PROPERLY FOR THE TYPE OF CAMERA (PFX, PSTR, OR S35 - SEE PAGE 5)

2) CABLE CONNECTIONS

2.1) **OPTION 1:** WIRELESS CONTROLLER

2.1.1) CONNECT CABLES 20 AND 22 (SEE PAGE 6).

2.1.2) CONNECT ANTENNA TO RECEIVER AND EXTEND.

2.1.3) EXTEND ANTENNA ON RADIO CONTROLLER.

2.2) **OPTION 2:** HARDWIRE CONTROLLER

2.2.1) CONNECT CABLE 21 (SEE PAGE 6).

2.3) REMAINING CONNECTIONS

2.3.1) CONNECT CABLE 23 (CAMERA ON/OFF), 27 (FOCUS), 27 (T-STOP), AND 25 (ZOOM).

2.3.2) IF CAMERA ON/OFF, FOCUS, T-STOP, OR ZOOM IS NOT NEEDED, DO NOT CONNECT THOSE CABLES.

3) LENS CALIBRATION (SEE SECTION 3.3 TO CALIBRATE T-STOP & F.P.S. TOGETHER)

3.1) **OPTION 1:** FULL RANGE (MAKE SURE "SPEED" SWITCH ON RECEIVER IS "OFF").

3.1.1) ENGAGE FOCUS AND T-STOP MOTORS TO MESH WITH LENS GEARS (DO NOT BIND).

3.1.2) CONNECT POWER CABLE (18 OR 19), SYSTEM WILL AUTO CALIBRATE.

3.1.3) SYSTEM IS READY FOR USE AFTER FOCUS AND T-STOP FULLY CALIBRATE.

3.2) **OPTION 2:** LIMITED RANGES (MAKE SURE "SPEED" SWITCH ON RECEIVER IS "OFF")

EXAMPLE: FOCUS RANGE= 6ft TO 12ft, T-STOP RANGE=T4 TO T8

3.2.1) SET FOCUS OF LENS WITHIN DESIRED RANGE (APX. 8ft)

3.2.2) SET T-STOP OF LENS WITHIN DESIRED RANGE (APX. T5.6)

3.2.3) ENGAGE FOCUS AND T-STOP MOTORS TO MESH WITH LENS GEARS (DO NOT BIND)

3.2.4) CONNECT POWER CABLE (18 OR 19), SYSTEM WILL START TO CALIBRATE (BE READY TO PRESS "CALIB" BUTTON)

3.2.5) FOCUS WILL CALIBRATE FIRST TOWARDS 6ft.

3.2.5a) WHEN LENS APPROACHES 6ft, HOLD DOWN "CALIB" BUTTON ON CONTROLLER AND DIAL IN FOCUS TO EXACTLY 6ft USING FOCUS KNOB, THEN RELEASE "CALIB" BUTTON.

3.2.5b) LENS WILL REVERSE DIRECTION (BE READY TO PRESS "CALIB" BUTTON)

3.2.5c) WHEN LENS APPROACHES 12ft, HOLD DOWN "CALIB" BUTTON ON CONTROLLER AND DIAL IN FOCUS TO EXACTLY 12ft USING FOCUS KNOB, THEN RELEASE "CALIB" BUTTON.

3.2.5d) FOCUS IS NOW SET.

3.2.6) T-STOP WILL START TO CALIBRATE TOWARDS T8 (BE READY TO PRESS "CALIB" BUTTON)

3.2.6a) WHEN LENS APPROACHES T8, HOLD DOWN "CALIB" BUTTON ON CONTROLLER AND DIAL IN T-STOP TO EXACTLY T8 USING THE T-STOP KNOB, THEN RELEASE "CALIB" BUTTON.

3.2.6b) LENS WILL REVERSE DIRECTION (BE READY TO PRESS "CALIB" BUTTON)

3.2.6c) WHEN LENS APPROACHES T4 HOLD DOWN "CALIB" BUTTON ON CONTROLLER AND DIAL IN T-STOP TO EXACTLY T4 USING THE T-STOP KNOB, THEN RELEASE "CALIB" BUTTON.

3.2.6d) T-STOP IS NOW SET.

3.2.7) SYSTEM IS READY FOR USE.

3.3) CAMERA SPEED AND T-STOP COMBINATION CALIBRATION

NOTE: WHEN USING PANASTAR CAMERA, F.P.S. SWITCHES ON REAR OF CAMERA MUST BE SET TO "000".

3.3.1) FIGURE OUT WHAT YOUR CAMERA SPEED (F.P.S.) RANGE IS GOING TO BE, FROM THAT CALCULAT E THE NUMBER OF STOPS YOU WILL NEED TO PROGRAM WITH THE CONTROLLER.

FORMULA: CALCULATE HOW MANY FACTORS OF TWO FROM YOUR LOW END F.P.S. TO HIGH END F.P.S. (A FACTOR OF TWO TIMES IS EQUAL TO ONE STOP)

EXAMPLE-1: YOUR LOW END IS 3f.p.s. (2 X 3 = 6f.p.s.), SO YOUR T-STOP RANGE OF 3f.p.s. TO 6f.p.s. IS ONE STOP

EXAMPLE-2: FOR A CAMERA SPEED RANGE OF: 6f.p.s. (LOW END) TO 24f.p.s. (HIGH END). YOU WOULD USE TWO STOPS (2 X 6 = 12, 2 X 12 = 24), SO YOUR T-STOP CALIBRATION RANGE MIGHT BE T2 TO T4 OR T5.6 TO T11 DEPENDING OF COURSE ON YOUR LIGHTING SITUATION.

3.3.2) BEFORE PLUGGING POWER INTO RECEIVER: TURN "SPEED" SWITCH TO "ON" POSITION (ON RECEIVER), SET YOUR F.P.S. RANGE (ON CONTROLLER), AND MOVE T-STOP ON LENS WITHIN T HE RANGE YOU ARE GOING TO SET (CAMERA SHOULD NOT BE ON).

3.3.3) T-STOP WILL START TO CALIBRATE TOWARD T4

3.3.1a) WHEN LENS APPROACHES T4, HOLD DOWN "CALIB" BUTTON ON CONTROLLER, DIAL T-STOP KNOB TO EXACTLY T4, THEN RELEASE BUTTON.

3.3.1b) LENS WILL REVERSE DIRECTION (BE READY TO PRESS "CALIB" BUTTON)

3.3.1c) WHEN LENS APPROACHES T2, HOLD DOWN "CALIB" BUTTON ON CONTROLLER, DIAL T-STOP KNOB TO EXACTLY T2, THEN RELEASE BUTTON.

3.3.4) CAMERA SPEED AND T-STOP COMBINATION IS NOW SET AND SYSTEM IS READY FOR USE.

3.3.5) TO CHANGE F.P.S. RANGE WITHOUT TOTAL RE-CALIBRATION: (CAMERA MUST BE OFF).

3.3.5a) SET DESIRED RANGE THEN HOLD DOWN "CALIB" BUTTON FOR THREE SECONDS. NEW RANGE IS NOW SYNCHRONIZED TO CURRENT T-STOP SETTING AND READY FOR USE.

4) HARDWARE OPTIONS

4.1) IF T-STOP, FOCUS, OR ZOOM IS NOT USED DO NOT CONNECT THAT CABLE.

4.2) IF SEPARATE T-STOP OR ZOOM CONTROL IS DESIRED, MAKE SURE CABLE 26 AND/OR 28 ARE CONNECTED AND PLUGGED INTO REMOTE CONTROL. T-STOP KNOB AND/OR ZOOM ON MAIN CONTROLLER ARE AUTOMATICALLY DISCONNECTED, LENS T-STOP WILL BE CONTROLLED BY SEPARATE T-STOP CONTROLLER AND LENS ZOOM WILL BE CONTROLLED BY REMOTE SUPERZOOM CONTROL.

NOTE: IF WIRELESS, NO STEPS ARE NECESSARY TO REPLACE POCKET BATTERY (ALL MEMORY IS STORED IN THE RECEIVER).

5) POWER DOWN (BATTERY CHANGE)

5.1) SWITCHING POWER SOURCE OF RECEIVER AND RETAINING CALIBRATION.

5.1.1) HOLD DOWN "CALIB" BUTTON FOR THREE SECONDS.

5.1.2) RELEASE "CALIB" BUTTON

5.1.3) DISCONNECT POWER CABLE (18 OR 19), CHANGE BATTERY.

5.1.4) HOLD DOWN "CALIB" BUTTON WHILE CONNECTING NEW BATTERY.

5.1.5) RELEASE "CALIB" BUTTON AFTER 3 SECONDS.

5.1.6) SYSTEM READY FOR USE.

NOTE: CALIBRATION WILL REMAIN INTACT INDEFINITELY UNTIL THIS SECTION IS PERFORMED.

6) RE-CALIBRATION

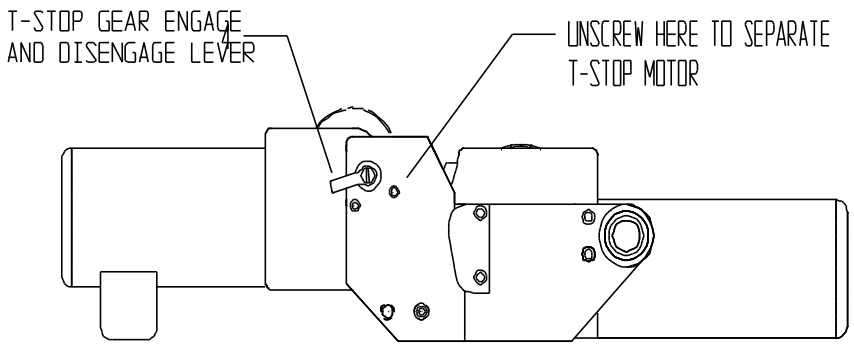
6.1) DISCONNECT POWER CABLE (18 OR 19), THEN WAIT 5 SECONDS BEFORE RECONNECTING.

6.2) FOLLOW CALIBRATION PROCEDURES LISTED IN SECTION 3.

7) PAN-ARRI CAMERA:

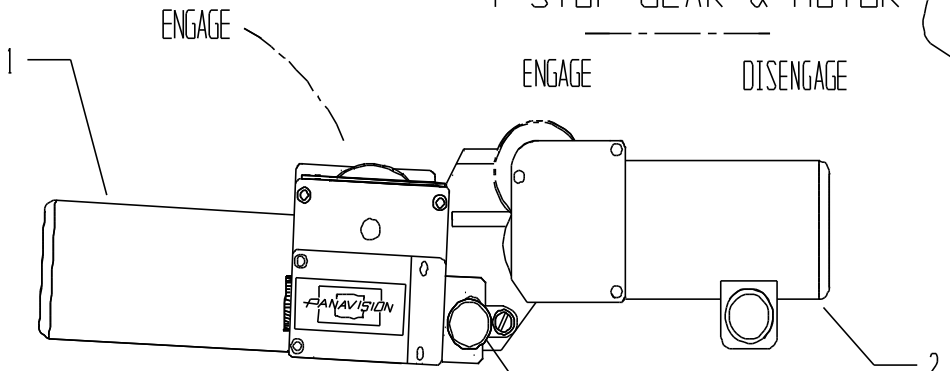
7.1) SPEED APERTURE FUNCTION, T-STOP AND FOCUS MOTORS WILL NOT WORK.

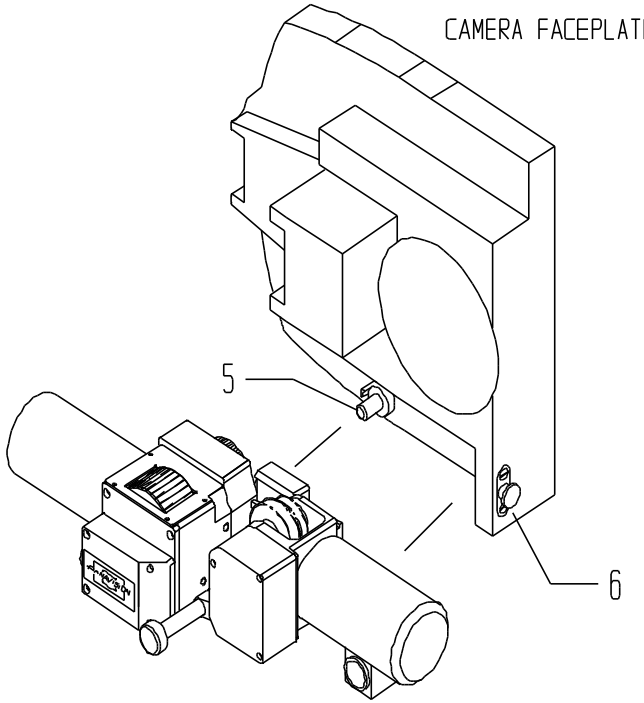
7.2) SEE BACK SHEET FOR MOTORS THAT WILL WORK WITH THE PAN-ARRI CAMERAS.



T-STOP GEAR & MOTOR

ENGAGE DISENGAGE

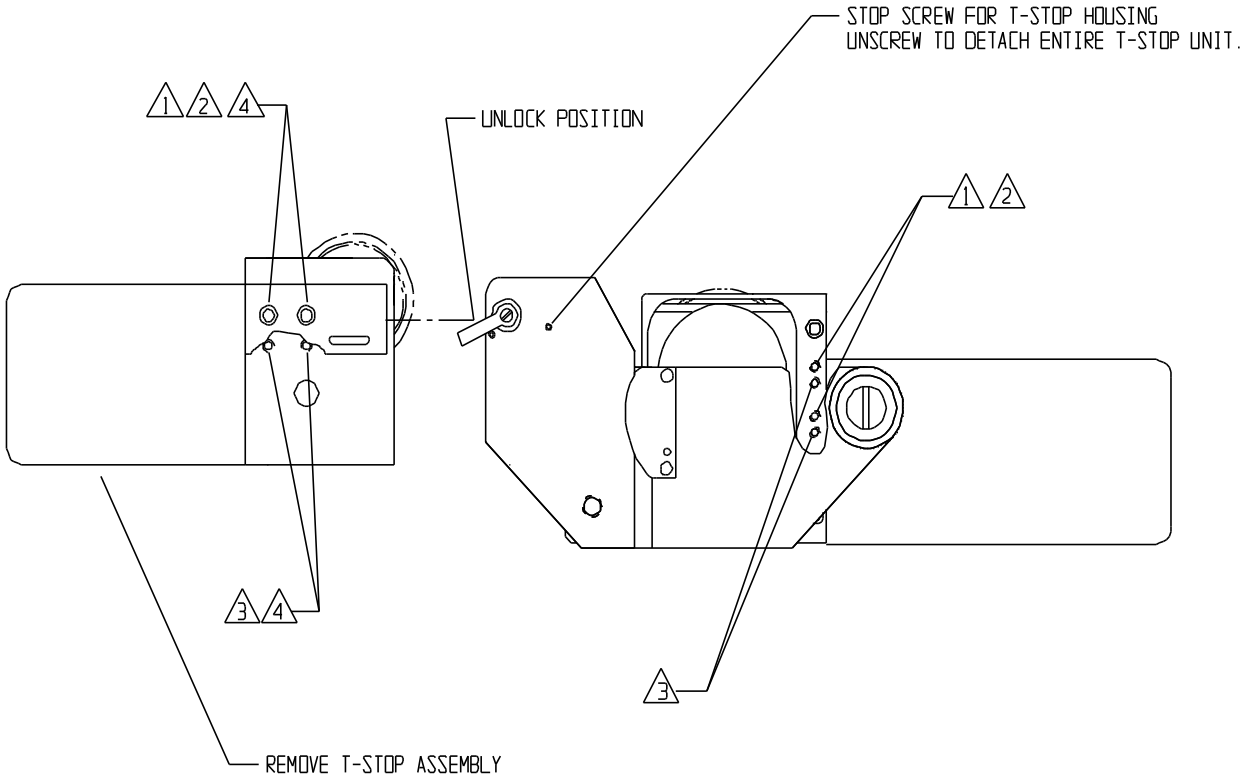




2) WHEN MOUNTING TO CAMERA, BOTH MOTORS SHOULD BE IN THE DISENGAGED POSITION. FOUCS GEAR SHOULD BE LOCKED IN DISENGAGED POSTITION FOR EASIEST MOUNTING

NOTES: 1) T-STOP MOTOR WILL NOT FUNCTION WITH SOME OLDER LENSES

DESCRIPTION	ITEM
FOLLOW FOCUS LOCK	6
LOCATION PIN	5
T STOP LOCK	4
FOCUS LOCK	3
T STOP MOTOR UNIT	2
FOCUS MOTOR UNIT	1



5 IF T-STOP MOTOR (RFTT) HAS BEEN REPLACED WITH A SEPERATE REMOTE MOTOR (SRM) SEE LAST SHEET.

4 MOVE IRIS HOUSING UNTIL BOTH #2-56 SCREWS ARE EXPOSED. UNSCREW AND REPLACE INTO DESIRED HOLES, THEN TIGHTEN.

3 MOUNTING HOLES FOR SUPER 35MM CAMERAS.

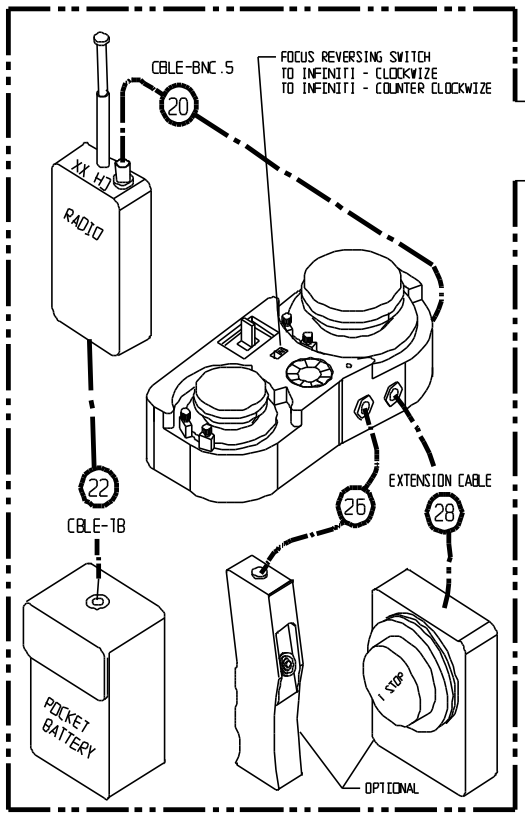
2 MOUNTING HOLES FOR PANASTAR CAMERAS. (NOTE: WHEN USING PANASTAR CAMERA WITH SPEED APERTURE SET-UP (RAMPING), F.P.S. SWITCHES ON REAR OF CAMERA MUST BE SET AT "000"

1 MOUNTING HOLES FOR NORMAL 35MM CAMERAS.

NOTES:

REMOTE F.T.Z.S.A.C
Hardware Set-up

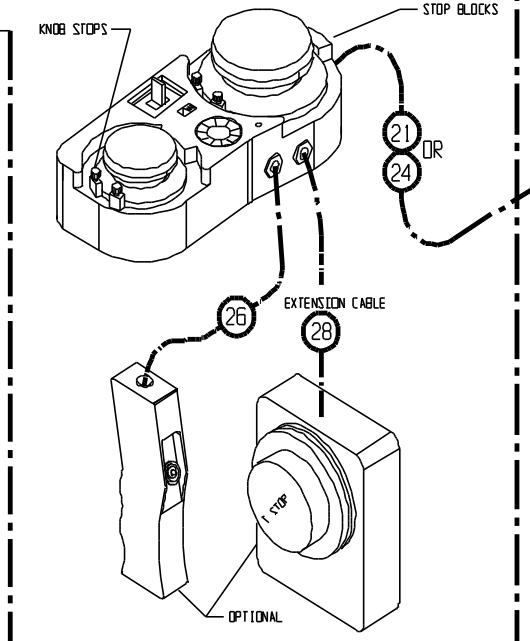
OPTION 1: RADIO SET-UP

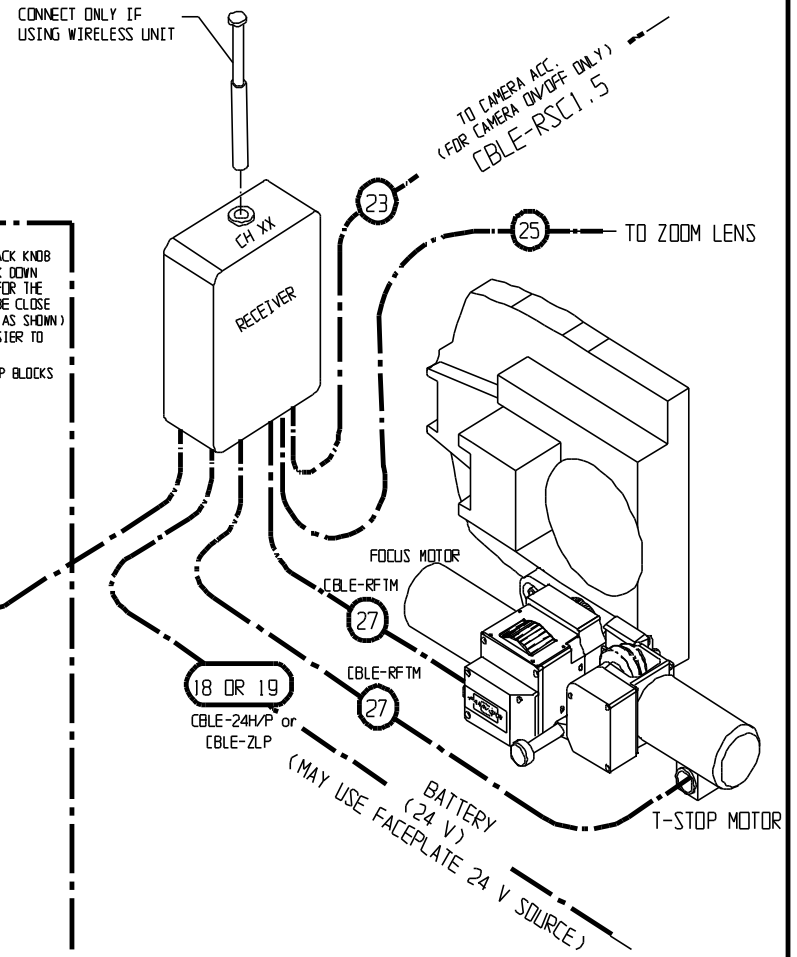


OPTION 2: HARDWIRE SET-UP

KNOB STOP SETTING

LOOSEN KNOB STOPS, TURN KNOB CLOCKWIZE UNTIL THE KNOB STOPS, BACK KNOB OFF AN 1/4°, AND MOVE NEAREST KNOB STOP TO STOP BLOCK THEN LOCK DOWN STOP TIGHTLY. TURN KNOB IN OPPOSITE DIRECTION AND DO THE SAME FOR THE OTHER KNOB STOP. SET ALL KNOB STOPS THIS WAY AND THEY SHOULD BE CLOSE TOGETHER AS SHOWN. MOVE THE KNOBS TO THEIR MIDRANGE POSITION (AS SHOWN) BEFORE POWERING UP AND LENS CALIBRATION. THIS WILL MAKE IS EASIER TO DIAL IN THE CALIBRATION YOU DESIRE.



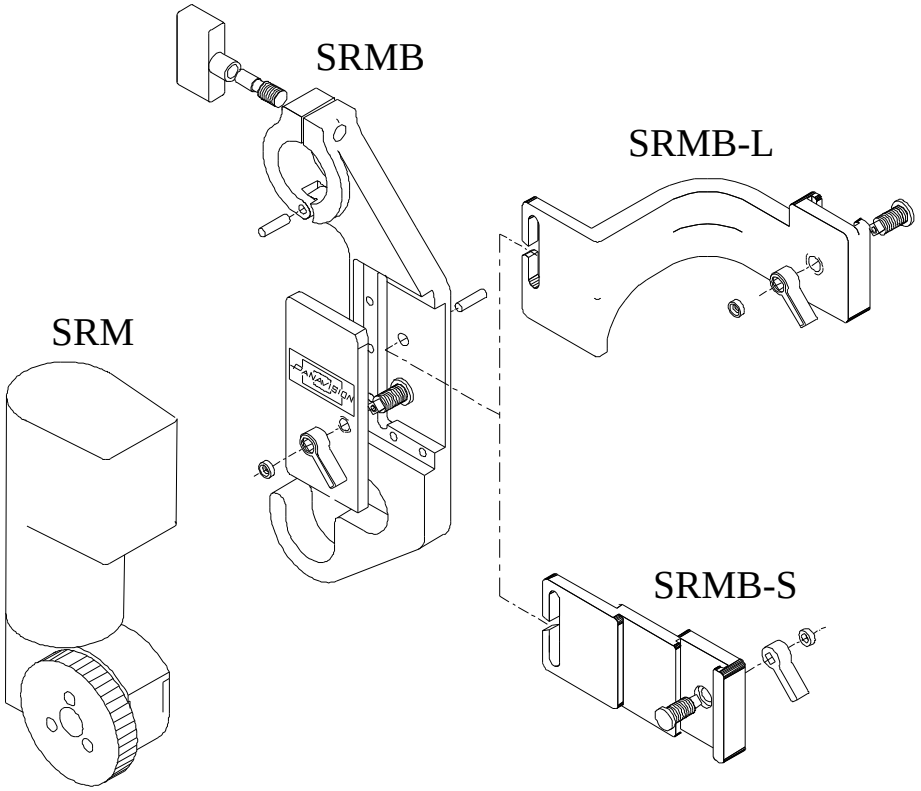


PANAVISION

ANY QUESTIONS? CALL 1-800-FOR-PANA
1-800-367-7262 (ED PAGEL, BRIAN DANG, OR AL MAYER JR.)

SEPARATE REMOTE MOTOR & BRACKET

11-19-98



When using this product, you must use the CBLE-RFTMR (grey cable)

For the speed/T-stop change to work properly, the following must happen:

During calibration, the T-stop of the lens must first go towards closed aperture (->T11) then open aperture (->T 2). If this is not the case, ***You are using the wrong cable.***