

647-647A Calibration Outline

1. Power Supplies

Use Test Load in Horizontal compartment only.

*

Supply	Tolerance	Variation	Ripple
-75V	0.1%	0.2%	3mv
100V	"	"	"
-15V	"	"	"
15V	"	"	"

* NOTE → Return Load Switch to Zero position, (CLOD)

5mv output from Test Load represents 0.1% error

2. High Voltage--R801

- 2.2kv \pm 3%

3. CRT Grid Bias--R832

Adjust for very dim spot with 20vdc at TP873 (measure with scope & 10x probe)

Install Time Base

4. Z Axis HF Response--C879

Adjust for best flat top with intensity set for 30v square wave at TP873 and Time Base at lus/cm. Check Risetime approx. 50ns.

5. Trace Rotation

Center of Astigmatism pot.

6. Geometry & Y Axis--R863--R865 (s/n450 and up only)

7. Calibrator

Remove Q945 & check dc output \pm 2%
 Replace Q945--Beat with 184 at lms--
 Check 1kHz \pm 0.1%--Check Risetime lus or less--Check duty cycle 50% \pm 0.1%.

8. Horizontal Centering & Gain--R364--R377

Install Time Base

9. Vertical Centering & Gain--R441--R414 (647)
--R409--R427 (647A)

10. Horizontal Compenstations

lus/cm--X10 Mag on--10ns sine wave--
 C377, C397 Linearity
 C378 Timing
 (Time Base must be calibrated)

Use the following information to answer the question.

Note: A car is a vehicle that is used for transport. A truck is a vehicle that is used for transport and is larger than a car.

Vehicle	Year	Color	Price
Car	2010	Red	\$15,000
Truck	2012	Blue	\$25,000
Car	2015	Black	\$20,000
Truck	2018	White	\$30,000

1. What is the price of the red car?

2. What is the price of the blue truck?

3. What is the price of the black car?

4. What is the price of the white truck?

5. What is the price of the red car and the blue truck?

6. What is the price of the black car and the white truck?

7. What is the price of the red car and the white truck?

8. What is the price of the blue truck and the white truck?

9. What is the price of the red car and the white truck?

11. Vertical Compensations--647

R456D--Damping
 C484, C467 Flat Top
 C456D--Front Corner
 Check Negative Response
 Check Delay Line & Termination
 Aberations $\pm 2.5\%$
 Risetime: 7ns or better

12. Vertical Compensations--647A

R467 .1-.3us
 C645 25-75ns
 R465 25-75ns
 R475 10-30ns
 R429 0-10ns
 C437 0-10ns
 C435 0-10ns
 R428 0-10ns
 Check Negative Response
 Check Delay Line & Termination
 Aberations $\pm 1.25\%$
 Risetime: 2.6ns or better

13. Check Beam Finder

TYPICAL BAD XSTR CODE :

WC S3H
 ↑↑

THESE IDENTIFY BAD XSTRS

BAD LETTERS ARE
 S, Z, R, D, B, U, P, O

BAD NUMBERS ARE
 2, OR 3

