

CROSSLEY TELESCOPE PRIMARY REMOVAL

Tools for Cross. mirror removal

1. Crane truck and Pick up
2. Two nylon straps
3. One tugit
4. Two ramps (located in dome)
5. Mirror Fixture (Step, Stand, 2-locking bolts and lifting bar)
6. 3 Shackles
7. Allen wrench set
8. 1-large and 1-small crescent wrench (in Cross tool box.)

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Set telescope on Zenith and Clamp
then install weight Support.



Position mirror handling
fixture so crank lines up
with mark on cell and so crank
will clear cell as it is lowered.



Remove only
"Pull" screws, don't
touch "Push" screws.



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Old lifting band
must be used to
lift mirror off
cell.



Set on stool
and remove old
lifting band



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Install new lifting
bend and fixture
for mirror transport.



Install locking pins
in fixture to keep
mirror from swiveling,
leave lifting fixture on.

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*Position truck as close
as possible to steps.*



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Following is a description of the technique for collimating the Crossley primary, as related by Gene Harlan, June, 1988.

The spider used for mounting the direct camera should be in place on the telescope. Remove the camera assembly (prisms, plate/filter slides, motors) in one piece. Install the collimating apparatus on the spider.

To center the crosshair wires over the primary in both axes, make sure that the end of the crosshair holder is flush with the dovetail shim that retains it, and that the lines on its base are matched.

Looking down at the crosshairs, align them with the mark at the mirror's center. When properly collimated, the reflection of the crosshairs should then coincide with the wires themselves. If they do not agree to within a reasonable error, adjust primary by turning one of the three-point floatation screws beneath the mirror.

*Point telescope at sky
to get enough light. Look!
through white paper with
hole to help see cross
hairs.*

