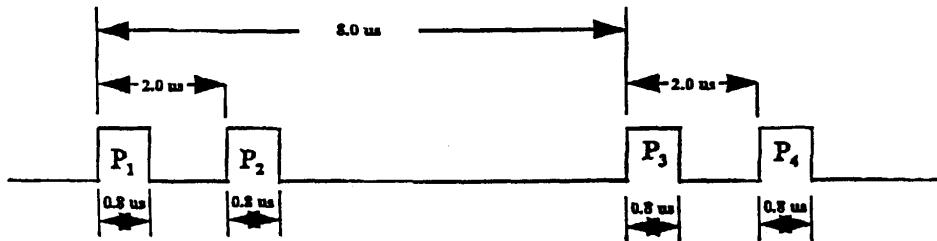
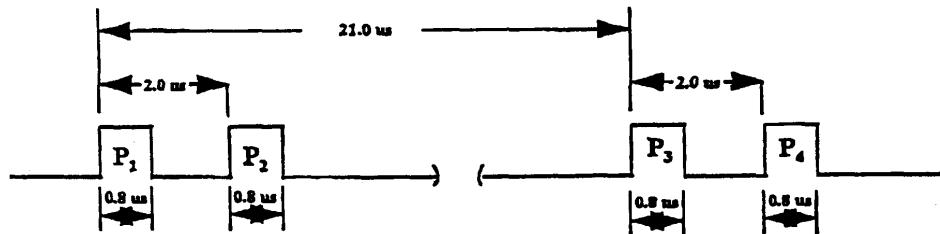
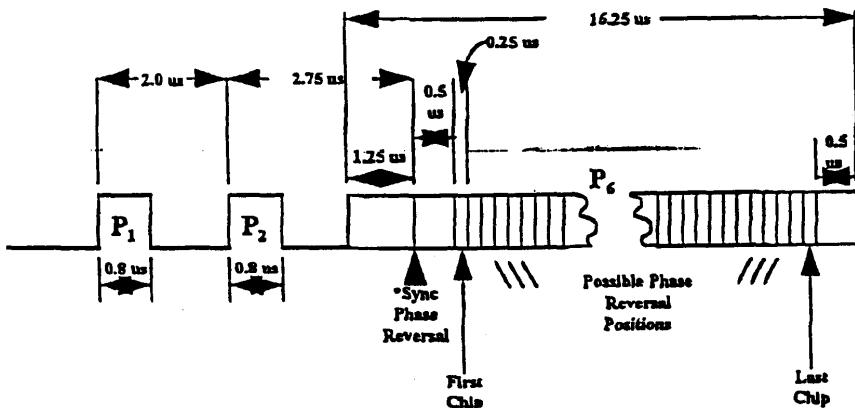


## 14. LINE DIAGRAMS

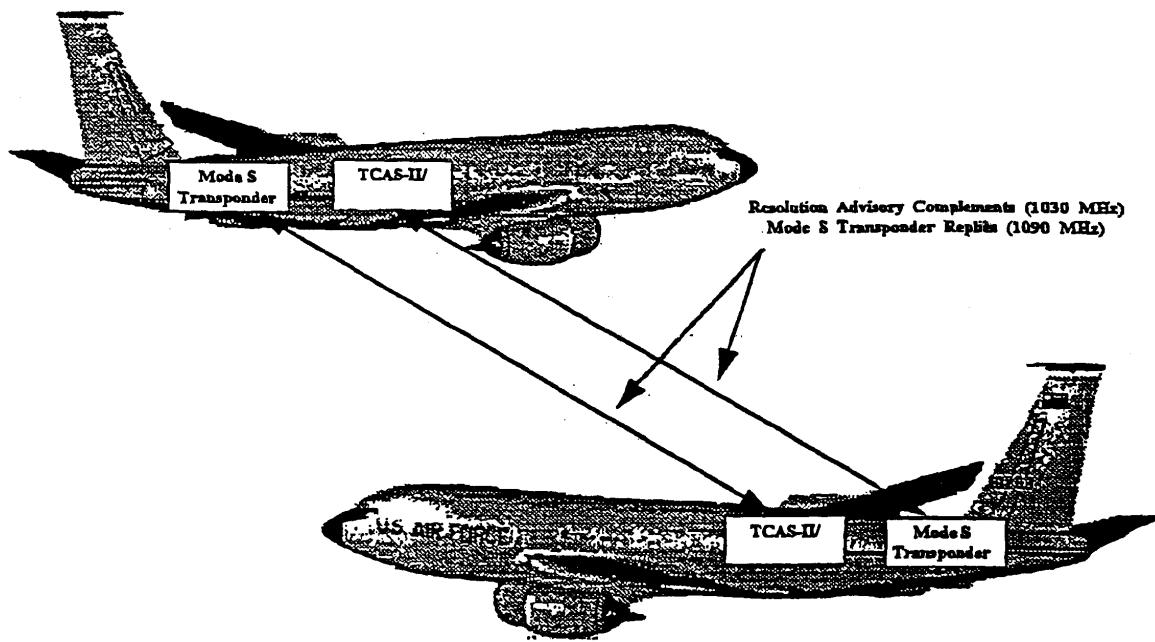
## ACAS Waveforms

Mode A Interrogation (10M0K1D)Mode C Interrogation (10M0K1D)Mode S Interrogation (10M0V1D)

The pulse rate from one Mode S string (P<sub>1</sub>, P<sub>2</sub>, and P<sub>6</sub>) to the next Mode S string varies non-periodically between 1 pulse per millisecond to 1 pulse every 10 seconds.

## 14. LINE DIAGRAMS

## ACAS Coordination Operation



Coordination Interrogations are transmitted once per second by each aircraft for the duration of the Resolution Advisory (RA). The information is a "complement" i.e., if one aircraft selects a climb RA, it transmits to the other aircraft a message restricting it to find a solution in the downward direction. The other aircraft selects the degree of resolution based on the geometry of the encounter.

If two aircraft select the same advisory, the aircraft with the highest Mode S address will detect the inconsistency and it will reverse the sense of its advisory. Usually, the highest address aircraft would have delayed display of the first advisory before the reversal (up to 3 seconds) to avoid issuing resolution reversals to the flight crew.

## 14. LINE DIAGRAMS

## ACAS Surveillance Operation

