

CSA Winch Operations Quiz

Name: _____

Date: _____

Refer to the Owl Canyon Field Procedures and Winch Operations Procedures, as well as *Ground Launches*, by Derek Piggott.

Driving

1. What are the requirements to be a CSA winch driver?
2. The correct response by the winch driver when porpoising of the glider is observed is to:
3. In the event the glider is unable to release, what is the procedure for cutting the cable?
4. What damage might be done by waiting to the last second to apply brake when reeling the parachute in after the glider release?
5. What is the proper winch action for each of these glider signals?
 - wings level
 - flag up
 - glider flying but not climbing
 - glider rocking wings
 - glider fishtailing
6. What does each of these winch signals mean?
 - flag down
 - flag up
 - power reduction
7. Where should vehicles be parked at the winch end of the field?
8. What is a safe place for spectators to stand near the winch?
9. What steps should you take when you receive the take-up-slack signal?

10. What transmission gear corresponds to each of the following shift lever positions?

fully aft

aft against gate

forward to stop

11. To give more power, the winch throttle is moved

___ forward

___ aft

12. When the glider gives the go signal, the throttle should be

___ firewalled immediately, then backed off

___ pushed forward gradually until the glider becomes airborne

___ opened over a 3-second span until the speed sound right

13. If the glider appears to both fishtail and rock its wings, the pilot is probably trying to

___ fishtail only

___ rock wings only

14. If the winch runs awhile after being started for the first time of the day, then stalls, what was probably missed on the daily inspection?

15. The correct type of fuel for the winch is:

16. Give some examples of circumstances under which you would refuse to give a launch.

Flying

1. How do you correct for crosswinds, and how do you gauge how much is enough?

2. What factors contribute to a higher stall speed during a ground launch?

3. Is a wingtip touching the ground on the initial roll reason enough to abort a launch? (Piggott p. 53)

4. As the launch is about to begin, in what position should the elevator be? Why? (Piggott p. 24)

5. Is excessive airspeed a more serious matter early or late in a launch? Why? (Piggott p. 24)

6. What is the first priority after a cable break? The second? (Piggott p. 49)
7. After a cable break and before opening the spoilers, what should you do? (Piggott p. 61)
8. You're at 100' AGL and the airspeed is getting low. What is the safest way to indicate this to the winch?
9. A winch launch in 15 knots of wind progresses normally until a break occurs at 300' AGL. What is the best course of action?
10. At what altitude is it advisable to make a turn and land downwind after a launch failure in a) a 5-knot wind; b) a 15-knot wind? Describe what you would do in each case:
 - a)
 - b)
11. If for some reason the winch doesn't deliver a power cut, how do you know when to release?
12. What should you do before pulling the release at the end of a normal launch?

Ground Operations

1. What is the minimum number of people (excluding pilots) needed for a winch operation?
2. Under what circumstances are dual operations (winch & aerotow) allowed at Owl Canyon?
3. If the shag car hasn't pulled the cable close enough to the glider, what should you do before pulling on the cable to get it closer?
4. What is the correct order?
 - ___ ring -strop - weak link - chute - swivel - cable
 - ___ ring - weak link - strop - chute - swivel - cable
 - ___ ring - strop - chute - weak link - swivel - cable
 - ___ ring - strop - weak link - swivel - chute - cable
5. About how fast can the wire be shagged out?
6. What should you do if you see the winch flag go down while you're shagging the wire out?

7. If faced with a chuckhole ahead when shagging the wire out, should you:

___ swerve to miss it

___ slow down to avoid damaging the car in the hole

8. When shagging the wire out, why should you start slowing down about 200 feet from the glider?

9. Why must the cable be inspected before each day's operation?

10. Match the weak link color to the glider:

_____ G-103

_____ Solitaire

_____ LS-4

Updated: 7/15/2009