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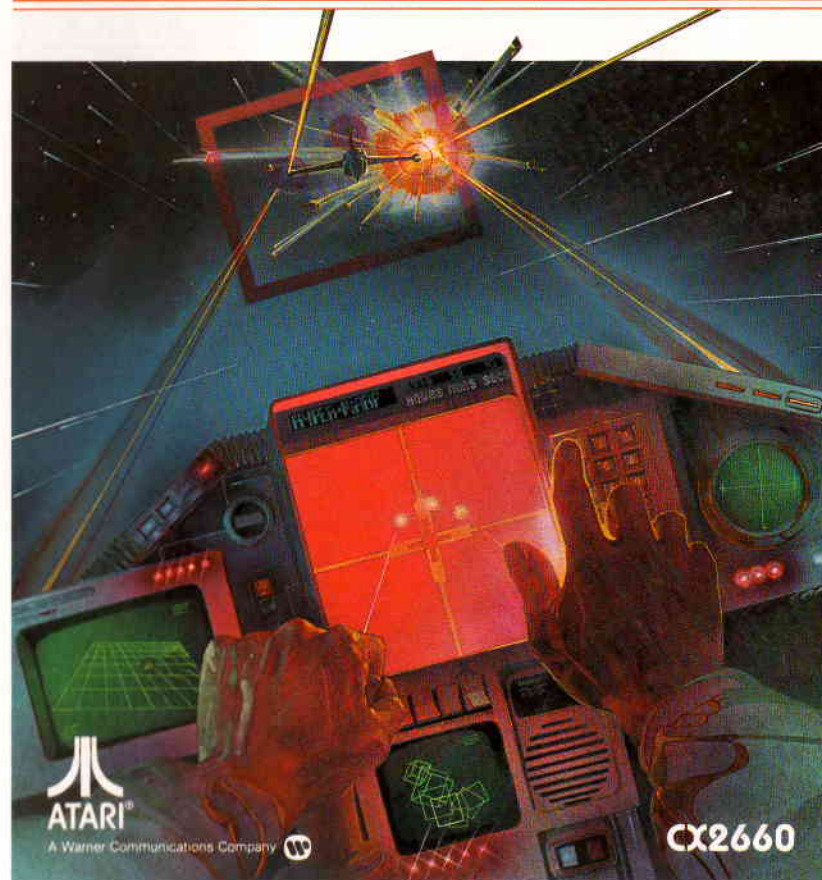


A Warner Communications Company 

ATARI, INC., Consumer Division
P.O. Box 427, Sunnyvale, CA 94086

STAR RAIDERS™

ATARI® GAME PROGRAM™ INSTRUCTIONS



4 SKILL
LEVELS

SURVIVAL
INFORMATION

FOR ONE
PLAYER

CX2660

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NOTE: Always turn the console **POWER** switch **OFF** when inserting or removing an ATARI® Game Program™ cartridge. This will protect the electronic components and prolong the life of your ATARI Video Computer System™ game.

1. DESTROY THE KRYLONS ...



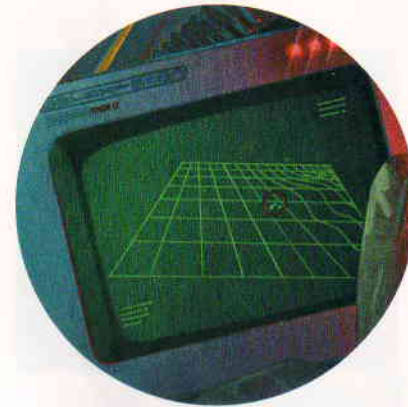
AVENGE THE DOOMED PLANET!

With Commander Champion and Li San O'Rourke in the Star Fighter, you're on the trail of the Krylon invaders. You've taken an oath to destroy the Krylons and avenge the Doomed Planet.

Through interstellar space you hyperwarp faster than the speed of light, past uncharted stars and planets in an unexplored parallel universe. Watch out! You nearly collided with an asteroid. Run into an asteroid at this speed, and POW! you're space dust. Good thing the Star Fighter's protective shields are on.

Check the Krylons' position on your Galactic Map. Looks like they're heading for your starbase. Given half a chance they'll destroy it to keep you from recharging and repairing the Star Fighter. Their ships are fast, but you can hyperwarp anywhere in the galaxy in an instant... if your energy supply holds out. It's a duel to the death. Will you succeed in destroying the Krylons before they wipe out the starbase? Will the Star Fighter perish like the Doomed Planet? Or will you complete your mission and return a hero?

2. GAME PLAY



Your first mission is to destroy all Krylon warships and save the starbase. Failing that, you must wipe out all Krylon ships before the Star Fighter is destroyed. If you run out of energy or take a hit with your protective shields off, the Star Fighter blows up, Krylon takes over the galaxy, and the game ends. If you complete your mission and destroy all the Krylons, the ATARI FORCE™ computer evaluates your performance and assigns you a new rank, based on:

- Mission skill level
- Amount of energy remaining
- Number of visits to the starbase for energy and repairs.

Mission Skill Level and **Energy** are shown on the Control Panel (Figure 1) at the start of a game. **T10** means that at Skill Level 10, there are 10 targets. The higher the skill level, the more targets, and the harder it is to survive. Start at Level 10 and work your way up to 40. See Section 6 for descriptions of the mission skill levels.

NOTE: Once the game starts, the T counter keeps track of targets remaining.

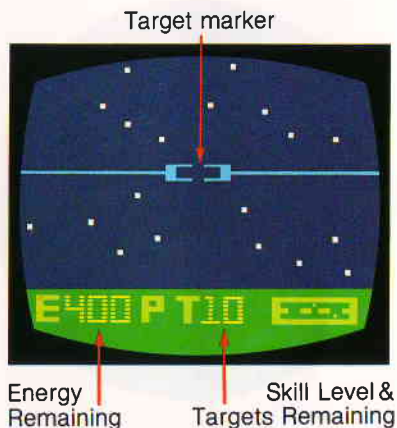


Figure 1—Forward View and Control Panel

The higher the skill level, the more energy units you start with. If you run low on energy, you can recharge at the starbase, assuming Krylon hasn't destroyed it and you have enough energy to get there. See **ENERGY** for additional information.

HOW TO PLAY

Press **GAME RESET** to display the forward view from the front of the Star Fighter (Figure 1). The computer signals game start with three tones and automatically turns on the protective shields and Attack Computer.

Shields keep the Star Fighter from being destroyed by Krylon photon torpedoes and asteroids, but they do not protect it against damage.

NOTE: When shields are on, space appears blue; when they are off, space appears black. When the Attack Computer is on, the Target Marker appears in the middle of the screen (Figure 1). If your shields and Attack Computer are not on, move both **DIFFICULTY** switches to B.

Now press the **GAL MAP** button on the Video Touch Pad™ (key 2) to display the Galactic Map (Figure 2).

GALACTIC MAP

Each square on the Galactic Map represents a sector of interstellar space. The map shows you:

	Sector occupied by Krylon fighters (red wing*)
	Location of starbase (atom)
	Star Fighter's current position (blue bar)
	Star Fighter's new position (red bar)

***NOTE:** Colors may vary, depending on your television control settings.

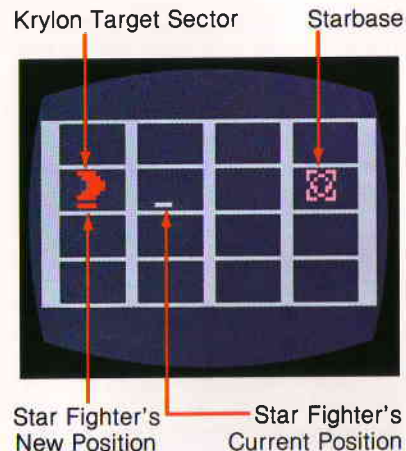


Figure 2—Galactic Map

Using your Joystick, move the red bar to the sector occupied by the Krylons. (*Joystick operation is explained in Section 3.*) Now press the **HYPERWARP** button on the Video Touch Pad (key 3) to engage your hyperwarp engines. Note that the blue bar (*your current position*) joins the red bar (*new position*) when you engage your hyperwarp engines.

When hyperwarp is completed, the screen flashes red and the red alert sounds to warn you that the Star Fighter has entered enemy territory.

NOTE: Red alert also sounds when the enemy moves into a sector you are occupying.

When you hear the red alert, press the **FORE VIEW** button (key 1) to return to the forward view (Figure 1). Be prepared to engage the Krylons in battle.

KRYLON PROFILES



Cruisers



Fighters



Basestars

All three ships are designed for high-speed attacks and are more maneuverable than the Star Fighter. Fighters and cruisers do not have protective shields; they can be destroyed with one hit. Basestars are protected by shields and can only be destroyed at close range. All Krylon ships carry deadly photon torpedoes capable of seriously damaging the Star Fighter. At Skill Levels 30 and 40, Krylon pilots are especially good shots.

ENGAGING THE ENEMY

When the enemy is visible in the forward view, the computer emits three short tones. Lock on your photon torpedoes (see **ATTACK COMPUTER**), and press the red button on your Joystick to fire them. The Star Fighter is equipped with twin torpedo tubes on the port and starboard sides. When the torpedoes are locked on, both tubes fire; otherwise only one tube fires.

NOTE: To hit targets at close range, aim below the Target Marker. See Section 7, **SURVIVAL INFORMATION**, for details.

ATTACK COMPUTER

The Attack Computer consists of the Control Panel, the Target Marker, and the Attack Computer Display (Figure 3).

The color of the **Control Panel** indicates the position and range of the target:

Red	Behind you
Green	In front and out of range
Blue	Visible and within range

If the Control Panel turns **BLACK**, the computer is damaged (see **DAMAGE**).

The **Attack Computer Display** tracks targets and locks on the photon torpedoes. The computer tracks two targets at a time. The dots shown in **Figure 3** indicate the targets. Line up a dot in the center of the display to lock on the photon torpedoes.

When lock-on occurs, the **Target Marker** changes from blue to red and the computer emits a short high-pitched tone. This is the best time to fire your photon torpedoes.



Figure 3—Photon Torpedoes Locked On

FOLLOWING THE ENEMY

Krylons move toward the starbase at a steady rate. The more ships there are the slower they move. At **T10** the Krylons move one sector approximately every 30 seconds; at **T40** they move a sector approximately every 70 seconds. Unless you engage the hyperwarp engines, the Star Fighter follows the Krylons at the rate of one sector every 7 or 8 seconds.

When the Target Market turns blue and the Control Panel remains green, it's a sure sign the enemy has moved on. Check the Galactic Map and move the red bar into the new Krylon target sector.

NOTE: No red alert sounds when you enter a target sector without hyperwarping.

STARBASE OCCUPIED

The Krylons will destroy the starbase 30 seconds after they occupy it, unless you succeed in wiping them out. The computer indicates

starbase destroyed with the same three tones that signal game start and end of game.

After the base is destroyed, continue firing photon torpedoes at Krylons until you wipe them all out and complete your mission or the Star Fighter blows up.

ASTEROID BELT

When only one Krylon target remains, the Star Fighter plunges into an asteroid belt. Asteroids can be as damaging as photon torpedoes. Either maneuver around them or destroy them with your photon torpedoes.



Asteroid

ENERGY

Every operation of the Star Fighter uses energy, as shown in the following table:

Hyperwarp (sectors jumped)	Energy Drain (units)
1	20
2	50
3	70
4	100
5	120
6	150

Star Fighter Equipment or Sustained Hit	Energy Drain (units)
Life Support System & Engines (always on)	.5 per second
Attack Computer On	.5 per second
Shields On	1 per second
Photon Torpedo Fired	1
Torpedo or Asteroid Hits Ship	10

HYPERWARP

The further you hyperwarp, the more energy it takes. If you have a choice, a series of small jumps to a destination is better than one long jump.

At mission levels 10 and 20, the computer prevents you from hyperwarping when your energy supply is insufficient. At levels 30 and 40, always check the energy gauge on the Control Panel (see Figure 1) to be sure you have enough energy to make the jump. If you run out of energy during hyperwarp, the Star Fighter will blow up. **Section 7, SURVIVAL INFORMATION, has some tips on conserving energy.**

LOW-ENERGY SIGNAL

When energy falls below 100 units, the computer automatically shuts off the Target Marker. Hyperwarp to the starbase and recharge immediately, if you have the energy to make it. Keep an eye on your energy gauge and never allow it to fall below the level required to hyperwarp to the starbase.

RECHARGING

While the Star Fighter is recharging, the screen flashes. When the ship is fully recharged, **COMPLETE** appears at the bottom of the screen (Figure 4). After recharging, enter the Krylon target sector and continue fighting.

WARNING! Recharging more than 7 times depletes the starbase and causes it to explode.



Figure 4. Recharging Completed

DAMAGE

Damaged or destroyed equipment is indicated on the Control Panel (Figure 5). One visit to the starbase repairs all damage.



Damage Control

Figure 5 — Damage Control

P	= Photons
E	= Engines
S	= Shields
C	= Attack Computer

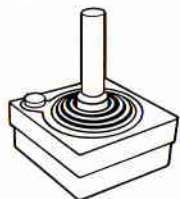
Green Letter	O.K.
Yellow Letter	Damaged
Red Letter	Destroyed

DAMAGE REFERENCE TABLE

Equipment	Damaged	Destroyed
Photons	Only one tube fires when torpedoes locked on.	Tube fires intermittently.
Engines	Somewhat difficult to steer; engine "missing" sounds.	Difficult to steer; engines louder.
Shields	Flicker on and off.	No shields; space appears black.
Computer	Control Panel turns black; no audio warnings.	Target marker flickers; no lock-on; no horizontal tracking.

WARNING! If the Star Fighter is hit when its shields have flickered off, it will be destroyed. Repair damaged shields immediately. If you can't make it to the starbase, good luck!

3. USING THE CONTROLLER



Use your Joystick Controller to move the cursor (Red Bar) around the Galactic Map (Figure 6) and to maneuver your Star Fighter (Figure 7). Press the red button to fire photon torpedoes.

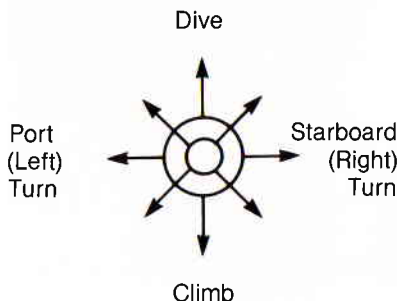


Figure 7—Star Fighter Control

VIDEO TOUCH PAD

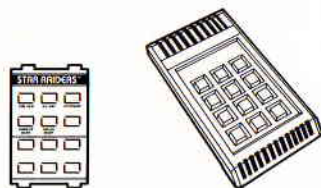


Figure 8—Video Touch Pad

A STAR RAIDERS™ overlay is provided for the Video Touch Pad. Slip the overlay tabs into the slots provided on the Video Touch Pad.

Use your Joystick Controller and Video Touch Pad with this ATARI Game Program cartridge. Plug the Video Touch Pad firmly into the **RIGHT CONTROLLER** jack at the back of your Video Computer System game. Plug the Joystick Controller into the **LEFT CONTROLLER** jack. Hold the Joystick with the red button to your upper left, toward the television screen. See Section 3 of your owner's manual for further details.

JOYSTICK MOVES

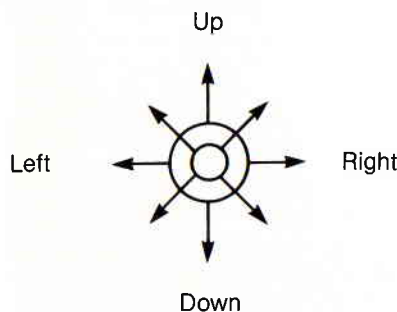


Figure 6—Cursor Control (Red Bar)

FORE VIEW (key 1): Selects the forward view from the Star Fighter's front space window (see Figure 1 in Section 2).

GAL MAP (key 2): Selects the Galactic Map (see Figure 2 in Section 2).

HYPERWARP (key 3): Engages hyperwarp engines to transport your Star Fighter instantly into another sector of the Galactic Map (see Section 2).

COMPUTER ON/OFF (key 4): Functions only when left **DIFFICULTY** switch is set to **A**. Press to turn on; press again to turn off.

SHIELDS ON/OFF (key 5): Functions only when right **DIFFICULTY** switch is set to **A**. Press to turn on; press again to turn off.

4. CONSOLE CONTROLS

GAME SELECT

Press down the **GAME SELECT** switch to select the mission skill level:

T10 = Skill Level 10 with 10 targets

T20 = Skill Level 20 with 20 targets

T30 = Skill Level 30 with 30 targets

T40 = Skill Level 40 with 40 targets

The skill level appears in the center of the Control Panel (Figure 1). See Section 6 for descriptions of the mission skill levels.

GAME RESET

Press down the **GAME RESET** switch to start your mission. Also use this switch to start a new mission at the same skill level.

DIFFICULTY SWITCHES

Left Switch

A — Attack Computer off. Controlled from Video Touch Pad.

B — Attack Computer on. Controlled by computer.

Right Switch

A — Shields off. Controlled from Video Touch Pad.

B — Shields on. Controlled by computer.

Turning off the shields and Attack Computer saves energy. However, if the Star Fighter is hit when its shields are off, it will be blasted to space dust. See Section 7, **SURVIVAL INFORMATION**, for some practical ways to use the shields and Attack Computer on/off options.

5. RATING

The ATARI FORCE computer rates your performance and assigns you a rank and class when you complete your mission by destroying all the Zylon targets.

Rating	Rank	Class (Per Rank)
0	Cook	Each rank has five classes. Class 5 is lowest, Class 1 is highest.
1	Scout	
2	Pilot	
3	Ace	
4	Eagle	
5	Star	
6	Nova	
7+	? (mystery rank)	

You are rated according to the following formula:

$$\text{Rank} = M + (\text{energy remaining}/100) - (\text{Number of Starbase Visits}/2)$$

where M is a mission factor based on the mission skill level:

M	Skill Level
0	10
0.5	20
1.0	30
2.0	40

NOTE: Number of Starbase Visits will not be divided by 2 if you visit the starbase more than 6 times.

The Control Panel displays your new rank (Figure 9) alternately with the energy remaining data.

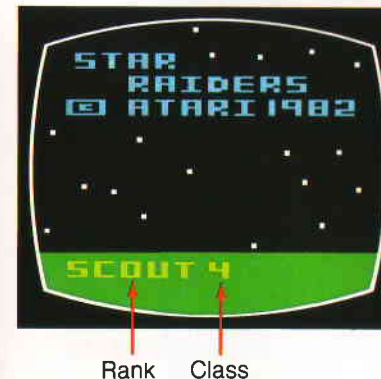


Figure 9—New Rank

Rank corresponds to skill level as follows:

10	Cook to Pilot 1
20	Ace 5 to Ace 1
30	Eagle 5 to Eagle 1
40	Star 5 to Mystery Rank

Any time your new rating (promotion or demotion) puts you on a different skill level, use the **GAME SELECT** switch to change the skill level (see Section 4, **CONSOLE CONTROLS**).

6. MISSION SKILL LEVELS

SKILL LEVEL 10

- 10 targets; 400 energy units
- Computer prevents hyperwarping when fuel is insufficient.
- Krylon ships and the starbase are always on opposite sides of the Galactic Map at the start of a mission.
- Krylon photon torpedoes are not very accurate. Light damage if any.

SKILL LEVEL 20

- 20 targets; 600 energy units
- Computer prevents hyperwarping when fuel is insufficient.
- Krylon ships and the starbase are on opposite sides of the Galactic Map at the start of a mission.
- Krylon torpedoes are fast and accurate. Expect heavy damage.

SKILL LEVEL 30

- 30 targets; 800 energy units
- Check energy gauge before hyperwarping.
- Krylon ships and the starbase can be anywhere on the Galactic Map at the start of a mission.
- Krylon torpedoes are fast and accurate. Expect heavy damage.
- Recommended for advanced Star Fighter pilots.

SKILL LEVEL 40

- 40 targets; 900 energy units
- Check energy gauge before hyperwarping.
- Krylon ships and the starbase can be anywhere on the Galactic Map at the start of a mission.
- Enemy torpedoes are deadly. Expect heavy damage.
- Recommended for expert Star Fighter pilots only.

7. SURVIVAL INFORMATION

Effective Firing Range



Figure 10—Most Effective Firing Range for Close Targets

EFFECTIVE FIRING RANGE

Your target marker is adjusted to show where photon torpedoes converge at infinity. Don't expect to hit a target lined up in the target marker unless it is very far away (a small dot). When targets are closer, lower your aim. Figure 10 shows

the most effective firing range for targets the same size as photon torpedoes. Pull back on the Joystick to bring the targets into firing range.

RECHARGING IN STARBASE SECTOR

If energy runs low while you're fighting in the starbase sector, make one hyperwarp jump out of the starbase sector and immediately return to recharge.

CONSERVE ENERGY

Turning off the Attack Computer and shields while hyperwarping or changing sectors saves 1.5 energy units per second. The energy saved might be enough for you to reach the starbase and recharge. Don't forget to turn your shields and computer back on before entering the target sector. (See VIDEO TOUCH PAD in Section 3 for use of the shields and Attack Computer on/off options.)

8. GAME SELECT MATRIX

Skill Level	Hyperwarp Control	Computer	Computer	40	30	20	10
Krylon/Starbase Positions at Game Start	Krylon/Starbase Positions at Game Start	Opposite sides of Gal. Map	Opposite sides of Gal. Map	Pilot (check energy gauge)	Pilot (check energy gauge)	Computer	Computer
Krylon Torpedoes	Krylon Torpedoes	Not very accurate	Fairly accurate	Anywhere on Galactic Map	Anywhere on Galactic Map	Opposite sides of Gal. Map	Opposite sides of Gal. Map
Starship Damage	Starship Damage	None to light	Fairly heavy	Deadly	Very accurate	Fairly heavy	None to light
Rank vs. Skill Level	Rank vs. Skill Level	Cook to Pilot 1	Ace 5 to Ace 1	Star 5 to Mystery Rank	Eagle 5 to Eagle 1	Ace 5 to Ace 1	Cook to Pilot 1

9. SCORECARD

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