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SUPER WING COMMANDER

CLAW MARKS



3DO

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3DO Superwing Commander

DEBUG menu - go to the Lounge screen HOLD THE X Button THEN PRESS B, B, C, C, A, A you SHOULD HEAR A SOUND Release THE X Button Press and HOLD THE L+R Buttons Then PRESS P Button THE DEBUG menu SHOULD APPEAR

OPTIONS - Play movie (watch all clips)
FILM.MOV + UID.MOV - has a live Female ^{act} OR
while playing PRESS B TO PAUSE USE LT and RT TO MOVE FRAME BY FRAME PRESS X TO RETURN TO DEBUG menu

Play songs
WATCH MUSIC

SYSTEM FLAGS (SET)

*KILLABLE TO FALSE - can't die

*BANKABLE TO FALSE - can't CRASH INTO OTHER SHIPS

*PICKER ACCESS TO TRUE - return to Lounge cycle THROUGH OPTIONS UNTILL you HEAR ^{choose} campaign ^{or choose} mission Now you can - select any mission

*FINGER OF DEATH TO TRUE - and during a battle Press L, R and B at the same Time To INSTANTLY DESTROY YOUR TARGET - make sure you HAVE SHIP TARGETED or you might DESTROY your wingmen or even yourself

CLAW MARKS

ONBOARD MAGAZINE

TCS TIGER'S CLAW

VOLUME 1 No. 4

2654.110

NOW HEAR THIS:

WORDS FROM THE EDITOR

Space is a near-vacuum, as all good Academy graduates and most two-year-old children know. And, if you ask, "When I drop a pebble into space like I do into a pool of water, will it cause ripples?" you'll get some strange looks from everyone.

Nevertheless, someone dropped a pebble in space not too long ago, and we're still encountering the ripples.

Last month, two very good pilots (Lieutenant Larry Dibbles and Captain R.A. Skinner) went out on a routine mission and didn't come back. Here in Vega Sector, it happens all the time. You sit for a while; you look at your pal's empty bunk; you think about where he's gone and hope you won't soon follow his lead. Then, it's back to work.

Yes, it happens all the time. But it's been happening a *lot* lately — not just routine casualties, but casualties caused by sloppiness, over-eagerness and a variety of other fatal diseases. The ship's statistical resources show that avoidable casualties are up 5% over this time last year ... and are up 9% over expected optimum performance. So, we're seeing ripples.

Here's one ripple: Two pilots are gone and won't be back.

Another: This issue, we've asked one of the ship's most experienced pilots, Major James Taggart (a.k.a. Paladin on the flight-line), to talk about the Basics: Basic tactics, goals and maneuvers.

Even if you're sure you know the Basics, read what he has to say. Remember, Paladin is still going strong after twenty-plus years as a combat jockey. And, even if he doesn't wear his Ace of Aces ribbon, it's still there.

Another: You won't be seeing the *Hornet's Nest* from this point on. The strange and silly adventures of the TCS *Hornet's Nest* — a carrier that bore an unfortunate and unmistakable resemblance to the *Tiger's Claw* — were the product of an artist and pilot who went by the moniker of Tooner. We like to remember Tooner as having a deft wit and a diseased mind, but all we can do *is* remember him. He was also known as Lieutenant Larry Dibbles. R.I.P.

Also in this issue, we have the latest Vega Sector update from *Joan's Fighting Spacecraft*, including the most up-to-date data on the Kilrathi ships we're facing; an excerpt from Borger's new survey of Terran and Kilrathi weapons systems; and our usual assortment of news, facts, trivia and profiles. Enjoy them ... but think about them.

WING COMMANDER

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The E-File edition of this issue is available from the ship's library as >>Periodicals>>Armed Forces>>ClawMarks>>4/2654.

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COMM RELAY

NEWS FROM EARTH (SOL III)

(New York, North American States, Terran News Services) — On 2654.080, representatives of the Committee for Interaction with Alien Intelligences announced contact with a new alien race.

CIAI spokesman Iola Jonson issued the following statement: "The CIAI regularly launches unmanned probes to uncharted jump-spheres; these probes contain our most sophisticated translation and interpretation equipment. Eight days ago, Probe Number H227 reappeared in a Terran jump-point carrying data and artifacts from a species we are currently referring to as the Double Helix.

"From the information we have so far been able to interpret from H227's records, the Double Helix are a sentient race possessing space travel, and we are not ruling out the possibility they possess FTL drive technology. Physically, they appear to be carbon-based anthropoids who communicate through scents and pheromones. Their name is derived from the double-helix shape of their spacecraft."

World Science Federation officials believe this to be the most significant contact with an alien species since the discovery of the Kilrathi and hope that contact will remain friendly.

TCSO SHOW SCHEDULED

(Tiger's Claw, TCAFCN) — There's good news for servicemen aboard the TCS *Tiger's Claw* — The TCSO (Terran Confederation Service Organization) will send an entertainment unit to the much-decorated carrier as early as next month.

The TCSO troupe includes dancers (normal and zero-g), singers, comedians and the Confederation's best cyberlink illusionists.

Vidstar Saranya Carr, exotic heroine of the popular *Luna Jones, JumpScout* serial, is accompanying the TCSO troupe to the *Tiger's Claw*. Carr, 25, stated, "You bet your life I'm happy to be working with the TCSO. I mean, you see Luna Jones blowing Kilrathi fuzzies out of space every week, but Saranya Carr can't tell a nav computer from a dialogue transceiver. Since I can't help our fighting forces directly, I'm proud to be able to entertain and build morale. Besides," she adds, "I'm not completely unselfish. Perhaps I can persuade *someone* to give me a ride in one of those new *Rapiers* ..."

ROOKIE TURNED ACE

This past week, the *Tiger's Claw* was fortunate enough to add another ace to its Confederation ranks. Second Lieutenant Todd "Maniac" Marshall knocked down his fifth Kilrathi in an engagement near Kurasawa System, where he and his wing-leader, Captain Jeannette "Angel" Devereaux, were escorting a cargo ship.

While passing through an asteroid belt, the two pilots encountered a wave of five *Dralthi* fighters. Devereaux downed the first with a volley of mass driver cannon, while Maniac broke formation and nailed the second enemy fighter with a heat-seeking missile. The Kilrathi, amazingly enough, began to retreat when Maniac radioed that he was chasing them down. He managed to destroy one more ship, reaching ace status three missions after graduating from the Academy.

"No way I was going to pass up *that* opportunity," exclaimed Maniac upon his return. "There they were, sitting ducks just waiting to face the best pilot on the *Tiger's Claw*. I knew ol' Devereaux could take care of the *Bonnie Heather*, so I hit my afterburners and took care of *them*. I guess they got what they deserved!" added Marshall.

Devereaux refused to comment on Marshall's success, calling his chase "a ridiculous misuse of Confederation firepower."

ALL ABOARD, AUSTINITES

Don't be alarmed if you notice a couple of uniformed strangers amidst the *Tiger's Claw* crew. For the next two weeks, we're entertaining two important visitors from the TCS *Austin*, our sister carrier assigned to a first-response patrol in Enigma sector. Lieutenants Zach "Jazz" Colson and Etienne "Doomsday" Montclair arrived late last week to meet with our Tactical Plotting group and discuss air defense procedures.

Rumor has it that the Confederation is laying out a defense plan for an anticipated attack on McAuliffe, a teaching and research colony housed in an orbital space station and a ground-based research facility. The vast libraries on McAuliffe are under top security, and Terran Intelligence suspects that the Kilrathi will try to gain access to its Terran Knowledge Bank (TKB) within the next few weeks.

Although details of the upcoming objectives remain classified, I took the liberty of interviewing the two men between their meetings with Colonel Halcyon. Here's a short profile of each:

BASIC TACTICS: A REVIEW

Let's go over the basic, Academy-standard tactics you're supposed to follow in the field.

Individual Objectives. Here's the simplest thing in the world to remember — if you're willing. The wingleader's objective is to accomplish the mission. The wingman's objective is to protect the wingleader at all costs. If he is eliminated, it becomes the wingman's duty to accomplish the mission objectives.

There's not much room for variation. Occasionally, a seasoned wingleader may decide to trade roles with his trainee wingman, or he might send his wingman to protect a buddy who's being swarmed while he goes after another enemy plane. But in all cases, nobody is solo. If the two trade roles, we still have a wingleader and a wingman. If the two split up to help friends under siege, the two are acting as temporary wingmen to temporary wingleaders. The buddy system is still intact. We live by that system. Without it, we die.

Mission Objectives. Objectives vary with types of missions. On the *Tiger's Claw*, 98% of our flight missions fall into five categories:

Defend. You are assigned to guard a stationary position — a capital ship, base or jump point. Orbit that position at a distance of 2,500 meters. Do *not* break to engage incoming enemies until they move within 5,000 meters of the position you're protecting. That's 5,000 meters from their target — not from you.

Escort. You are assigned to guard larger ships on rendezvous assignments. Fly parallel to the ship you're escorting at a maximum distance of 2,500 meters and keep your eyes open. In the face of oncoming hostiles, don't break and engage too soon. The best time to break formation is when the hostiles have approached within 5,000 meters of the ship you're protecting.

Intercept. You are assigned to seek out and engage enemy vessels in a particular area — an anticipated Kilrathi jump point, or a halfway point between oncoming enemies and the ship you are protecting. No particular tactics are called for, except the standard tactics for keeping yourself and your wingmate alive.

Patrol. You are assigned to a flight pattern through unsecured territory. If an enemy force is detected, you can either engage it or head back into base. This is where a lot of novice (and some experienced) pilots make lethal errors. Nobody likes to back down. No one wants to talk to your widow or widower, either. Consider the situation carefully before engaging the enemy.

Strike. You are assigned to destroy an enemy target, usually a capital ship. Obviously, the idea is to get in quick, launch missiles, blow the target up and escape quickly. Unfortunately, the enemy usually decides to defend any target worth destroying. This is where the wingleader/wingman relationship becomes

especially critical. The wingleader must get his missiles placed, and the wingman must keep him or her alive to do so, even at the cost of his personal objectives. He or she must take out oncoming fighters and only drop missiles if a clear opportunity arises that doesn't endanger the wingleader.

FIRST CONTACT

When you first encounter a flight of enemy fighters, they will almost always be flying in formation. Once initial contact has been made, they will break formation into pairs at roughly four-second intervals. Generally, you should likewise break formation to match and engage them. All of this leads to the question of what to do once you've engaged the Kilrathi. The book has something to say about that, as we discuss immediately below.

STANDARD MANEUVERS

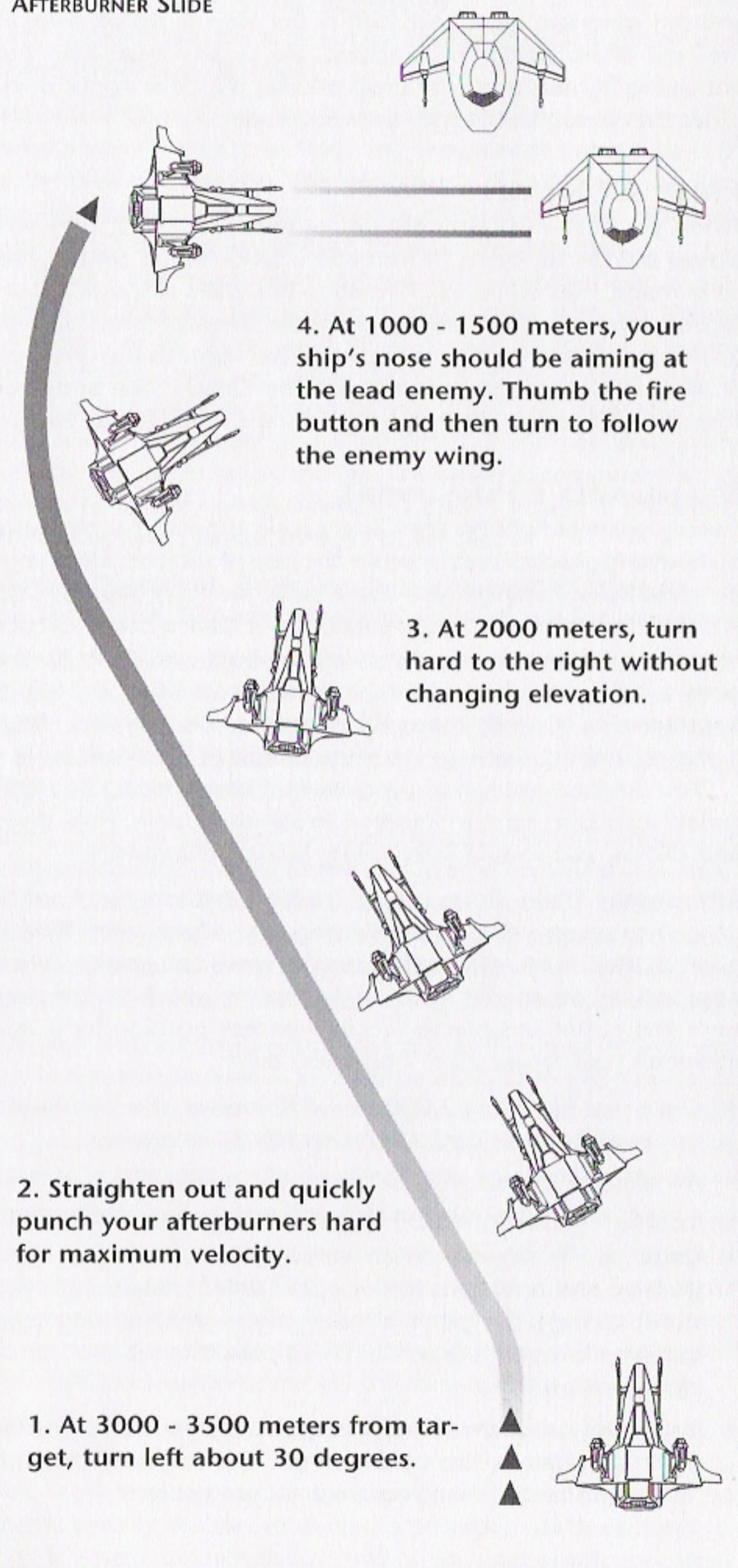
Twenty years of fighting the Kilrathi have shown us some basic maneuvering tactics that improve the rate of survival. Until your personal flying instincts give you a tactic for every situation, go with the "by the book" maneuvers. You'll have a better chance of making it home in one piece. All the book can do is tip the odds a bit in your favor, but the record shows that this slight improvement is worth the embarrassment you may feel about doing something the way you were taught at the Academy.

You learned your basic moves in flight school, but let's review a couple here. In addition to standard turns, rolls, dives and climbs, you should learn these tactical maneuvers:

Afterburner Slide. Since enemy tracking systems can't anticipate changes in velocity or direction, the Afterburner Slide is one of the most successful moves you can make when approaching an enemy head-on. It removes you from the enemy's line of fire and places you in a perfect position for a side attack on your target. Here's how you do it:

- Once you fly within 3,000 to 3,500 meters of a hostile target, bear left (or right) approximately 30 degrees.
- As soon as the enemy craft is barely visible on your view-screen, straighten out your ship and punch your afterburners.
- Once you reach maximum velocity, let up on the afterburners and turn hard to the right (or left). Make sure you don't change the pitch of your ship — maintaining your current elevation is essential if you plan to open fire from a side position.
- Your ship's nose should now be pointed right at the enemy. Open continuous fire on the target ship as you slide past. Then, turn and pursue your enemy from the rear.

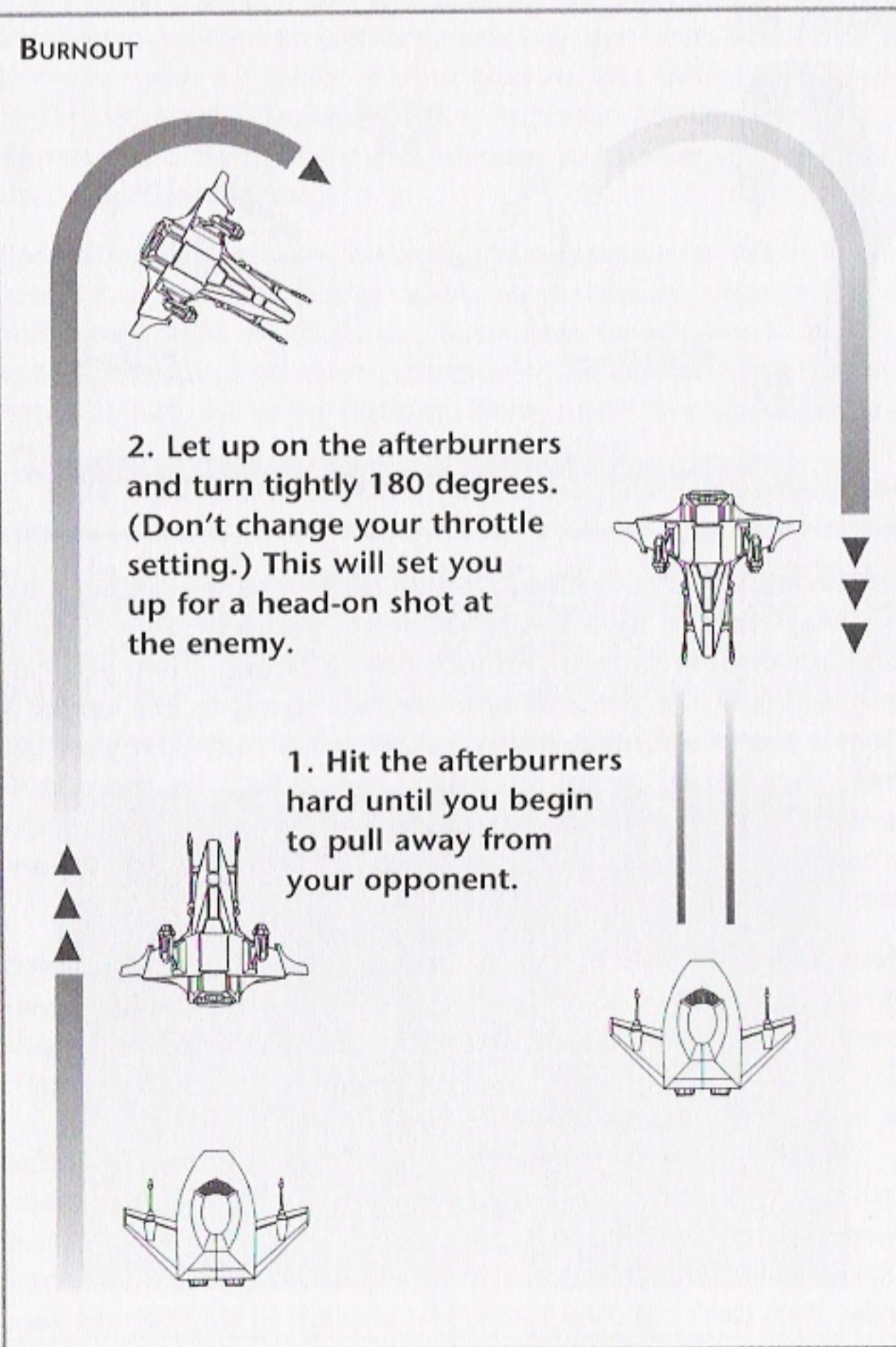
AFTERBURNER SLIDE



Burnout. Sometimes your opponent can maneuver just as well as you can and stay on your tail. In this case, you might try an alternate attack to evade your enemy — the Burnout. You can use this attack to put distance between your ship and your opponent's:

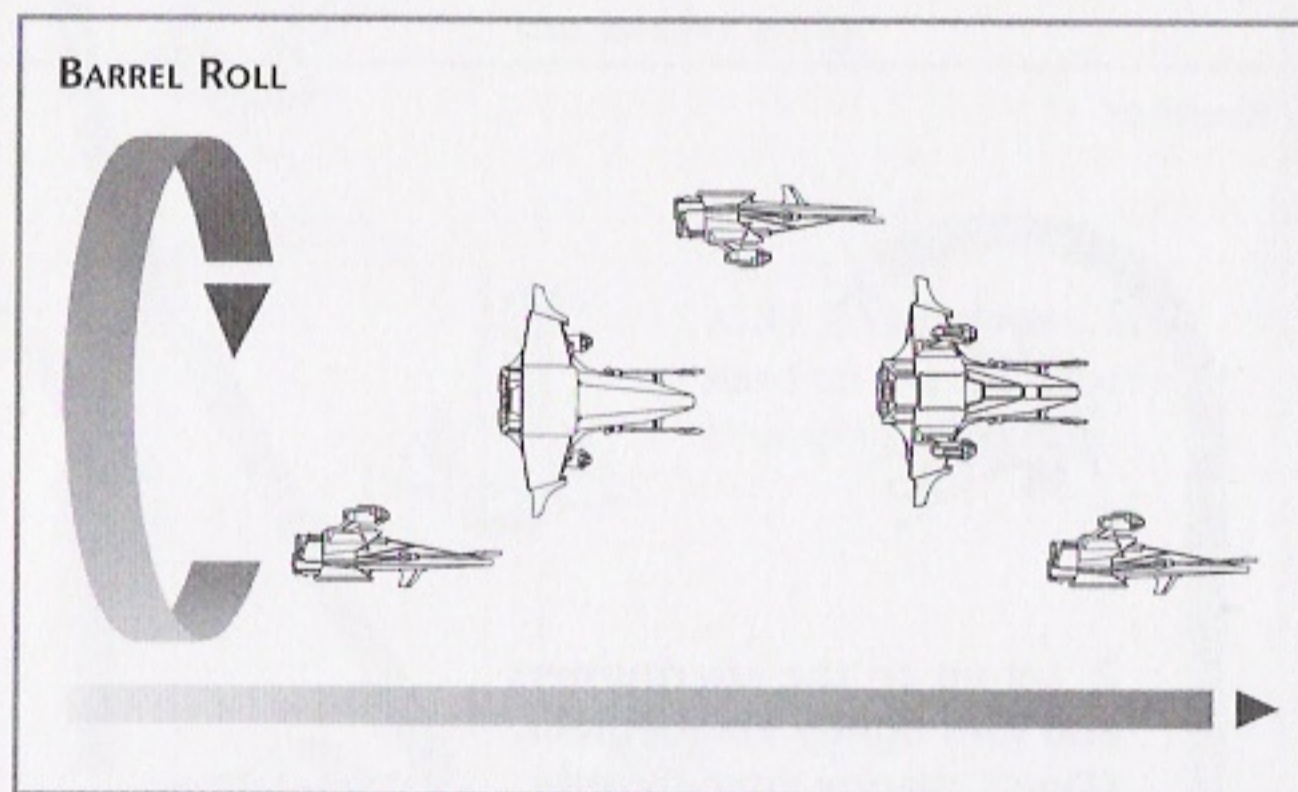
- Hit the afterburners full force until you reach maximum speed and begin to pull away from your opponent.
- Now, let up on the afterburners and perform a tight 180-degree turn. (Don't change your throttle setting.) This maneuver will position you for a head-on shot at the enemy.
- It won't take long for your enemy to reach you once you reverse direction. When the target moves within your cone of fire, open up with your cannon or lasers.

BURNOUT



Barrel Roll. If you're making an attack head-on or directly from the rear, you may find the Barrel Roll a useful move for evading enemy lasers. While closing in on your target, you perform a corkscrew-like roll:

- When your target appears in the viewscreen, fly straight toward it until you're within firing range (approximately 2,000 to 3,000 meters).
- Make a sharp bank left or right while pulling up the ship's nose slightly. This will cause your ship to maintain a constant rotation about the roll axis.
- Keep the ship banked and pitched until you have completed a 360-degree roll. At this point, you can continue the roll or level out.



Cutthroat. If you're fighting a single, highly maneuverable ship, you may want to try a Cutthroat move. Basically, all you do is cut your throttle to zero and lock onto a target. Then, you can spin and tear into the enemy while he's trying to line up for a shot. If you're willing and able to take a few hits, hold your fire until your target begins an attack run — he'll be more concerned with shooting you than evading your shots. If he catches you with a shot or two, use short afterburner bursts to randomly change your position.

Hard Brake. One tactic you can use when you're being trailed by an opponent is a Hard Brake. Executing this move is relatively simple: reduce your forward velocity as quickly as you can. If you brake sooner, harder and better than your pursuer, he will overshoot you and enter your cone of fire.

This is especially effective if you're facing a *Krant* or *Gratha*. Just cut your speed, lock onto the target and use your afterburners to maneuver into a rear attack on the enemy. These two Kilrathi ships have a hard time dealing with this tactic — apparently, they can't cut their speed fast enough to stay behind you.

COMMON STRATEGIES

With that review of maneuvers fresh in our minds, let's review strategies for specific situations. Yes, aggressive tactics will let you rack up the kills, but quick thinking will keep you alive so that you *can* rack up the kills.

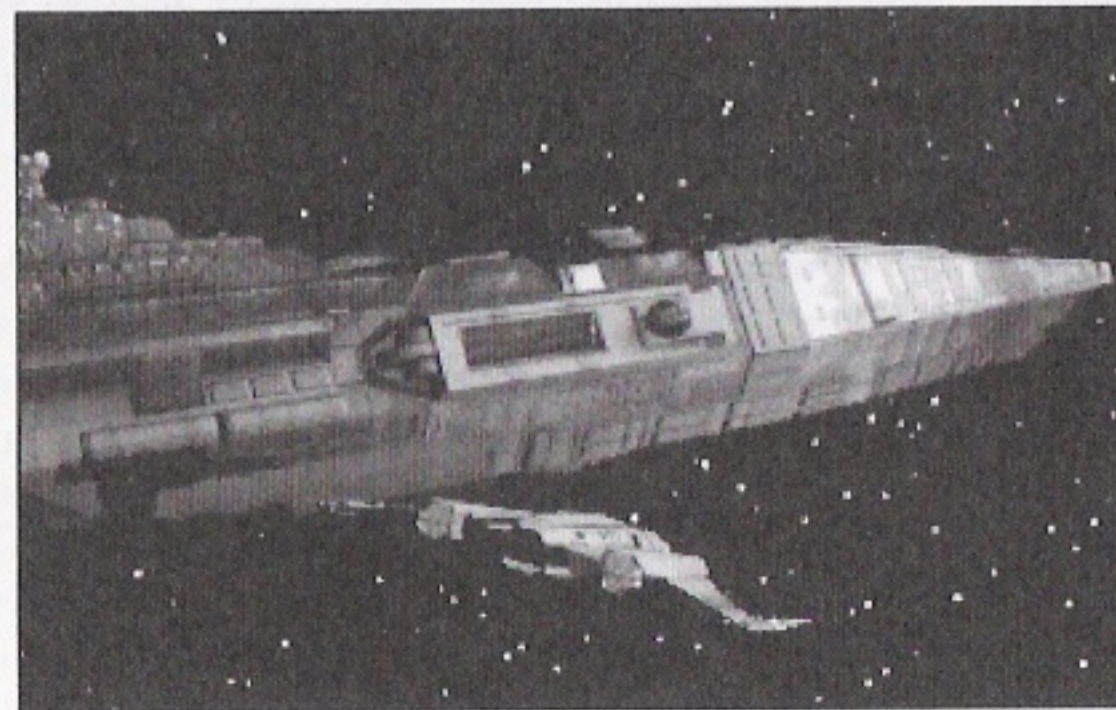
You're being tailed by an enemy. Here's the situation: You have an enemy to your rear and you're in his sights. What now?

If you have a critical target in your sights and you know that your pursuer's guns are not going to crack your shell with one hit, then it's permissible (barely) for you to take that hit, drop your load and then come around to deal with your attacker. In any case, don't do this unless you're within 2,500 meters of your target.

If you don't have that critical target in your sights, or you don't know that you can take a direct hit, then evade. Evading involves a pretty complicated series of decisions you have to learn to make by reflex. If your pursuer has better maneuverability than you but you have superior acceleration, try a Burnout or a Hard Brake and prepare to be very accurate with your ship's weapons.

You're fighting a more maneuverable opponent. Many times, you'll find yourself facing quick, agile Kilrathi ships, such as *Salthi* or *Dralthi*. In this case, accelerate to maximum throttle speed and apply head-on Afterburner Slides until you've eliminated all but one of the fighters. Then, resort to a Cutthroat and attack your enemy as he lines up for a shot.

If your pursuer has better maneuverability *and* better acceleration (a *Salthi*, for example), then you have a problem. If you want to make it a slugging match, try a Burnout. If you're already hurt, try any sort of evasive maneuver you can — hard turns and rolls in a succession of different directions. Last of all, pray, because you're going to need some divine intervention.



You're battling a large group of fighters. Sometimes, you may find that you're fighting a Kilrathi ship one-on-one in the middle of a crowd. When combat occurs within a large group of fighters, past experience has shown us that separating enemy ships is an effective way to take on a single fighter at a time. In such situations, you can implement one of two divisive techniques:

Eclipse. As its name implies, this move involves using an enemy capital ship to "eclipse" you and a single Kilrathi ship from a group of enemy fighters. By using the capital ship as a shield, you can concentrate on battling one opponent at a time. (Do not, however, use the Eclipse with friendly capital ships; they have enough to contend with during an attack.)

Divide and Conquer. In open space, it won't always be possible to use an Eclipse. If you're flying with a wingman, try a Divide and Conquer. Lock onto a target, and then order your wingman to attack your target. By locking onto a different target on the *other* side of the fighter group, you can split the offensive by leading your target away from the pack. Taunt your enemy and punch the throttle so that you're headed away from the battlefield. Once you move 5,000 to 7,000 meters away, you can take him into one-on-one combat.

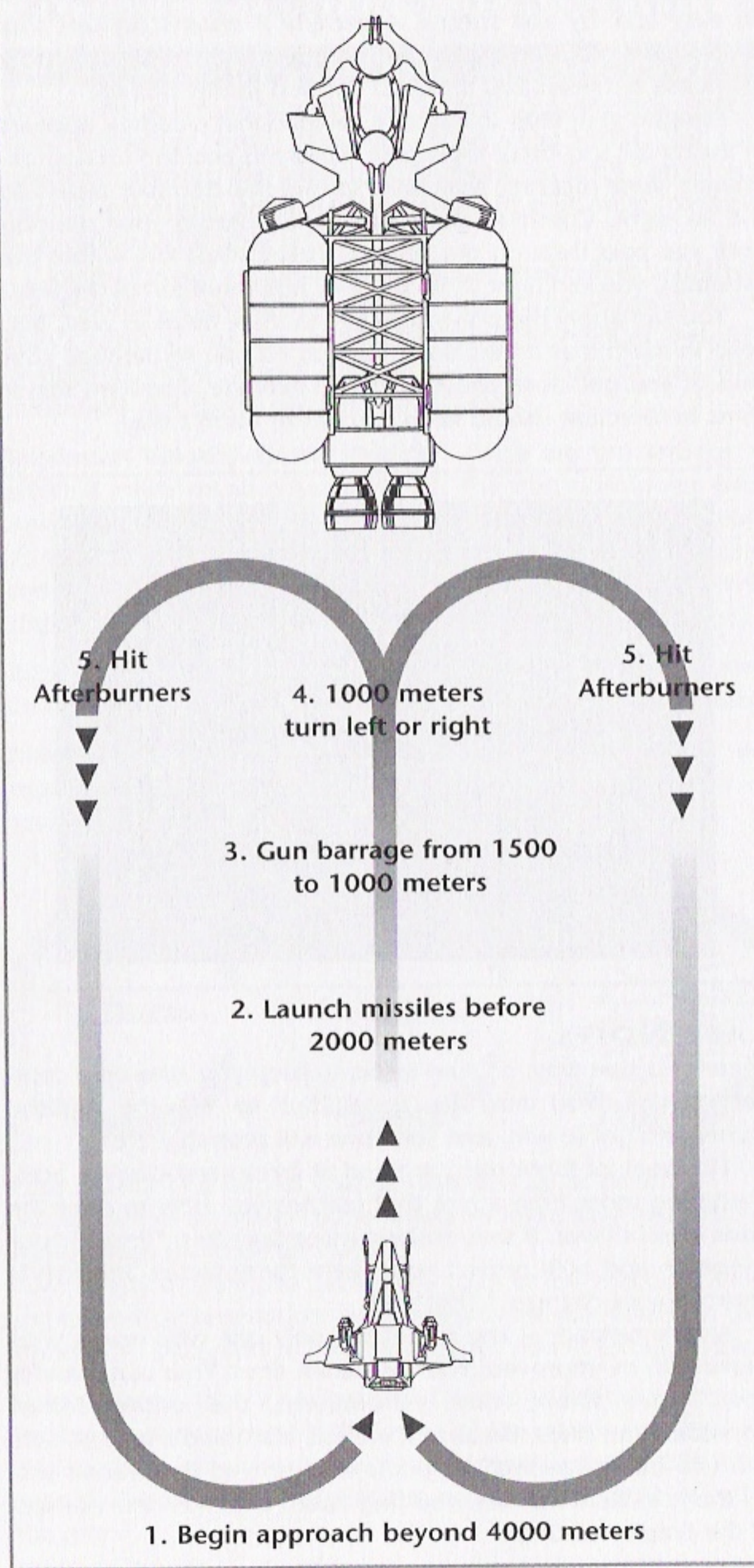
Techs studying a recently captured *Krant* ship discovered that the Kilrathi radio range is very limited, so your target won't be able to radio for help at this distance. If you're flying with an aggressive, capable pilot (such as Iceman), you may convince the Kilrathi that you've deserted the battle and your wingman. After you finish off your first victim, you'll have the element of surprise in your favor when you sneak back into the battlefield.

You're attacking a capital ship. Many of your missions involve finding and destroying Kilrathi capital ships. Two different approaches are accepted in this combat situation:

If you want your wingman to attack the capital ship, afterburn past the first wave of defending fighters. Then, lock onto the capital vessel and order your wingman to attack your target. Immediately lock onto a fighter and attack it. By shifting back and forth between fighter targets and taunting their pilots, you can lead them away from the capital ship and from your wingman. Your job is to keep the fighters busy while your wingman fires his missiles.

If you prefer to attack the capital ship, help your wingman eliminate the defending fighters. Then, approach the capital vessel from the rear at a distance of 4,000 meters. Begin firing your missiles once you move within 2,000 meters. Then, barrage the ship with your forward guns. At 1,000 meters, break hard to one side, turn 180 degrees and punch the afterburners. This will allow you to evade enemy fire, recharge your blasters and circle around for another approach.

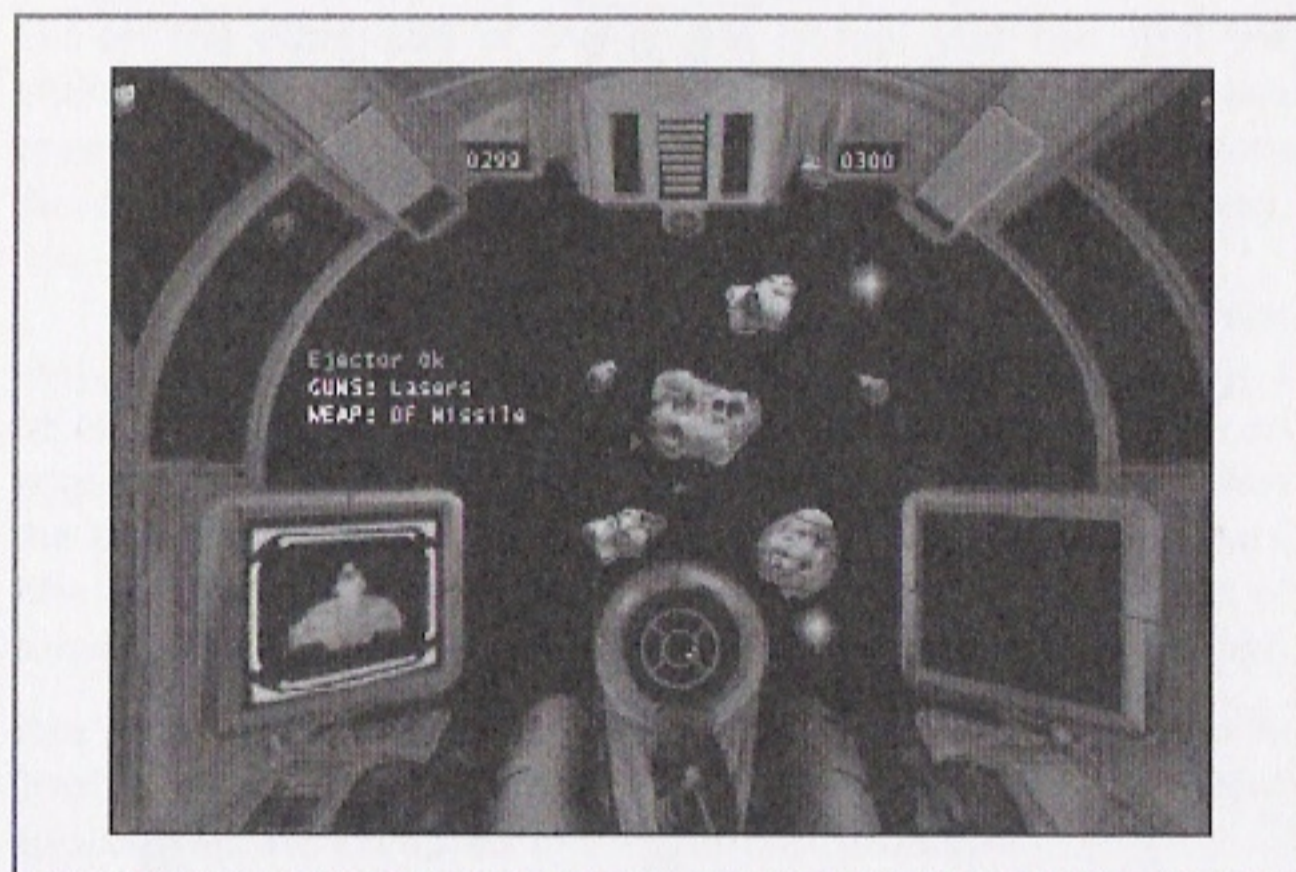
ATTACKING A CAPITAL SHIP



You're cruising through an asteroid field or mined area. Maneuvering through a field of hurtling asteroids or mines isn't an easy task by any means, especially if enemy fighters lurk nearby. But, you can make the passage a little easier if you fly at speeds between 280 and 300 kps and follow this tip:

Position your ship so that the navigational crosshair appears in the far left section of the screen. Hold this position for approximately three seconds, then shift so that the crosshair moves to the far right. Continue alternating and holding your position until you pass through the field. If enemy ships lurk within the asteroids, you can fight them there or pull them out of the field.

You can apply the previous tactic to mine fields as well. But, keep in mind that mines don't have to hit you to damage your ship. If you get close enough, they'll explode. Constant minor shifts in direction should keep you out of harm's way.



LAST NOTES

There's no sure way, no sure tactic, to keep you alive on a combat mission. You may be good, but so are the Kilrathi. Someone's got to win, and someone will probably die.

The book of flight regs, sneered at by up-and-coming aces, is nothing more than a tool that teaches you how to slant the odds in your favor. It says nothing more than this: "Protect your wingman and he'll protect you. Learn these tactics and they'll improve your chances." That's all.

And remember — You're not the only one who wants your chances to be improved. Your wingman does. Your commander does. Your family does. Ultimately, the entire Terran Confederation does. Because if we fail, our people and planets will end up "protected" by pilots who proved themselves better than us, fliers who showed they could beat us — the warriors of the Empire of Kilrah.

JOAN'S FIGHTING SPACECRAFT

VEGA SECTOR SUPPLEMENT FOR 2654.092

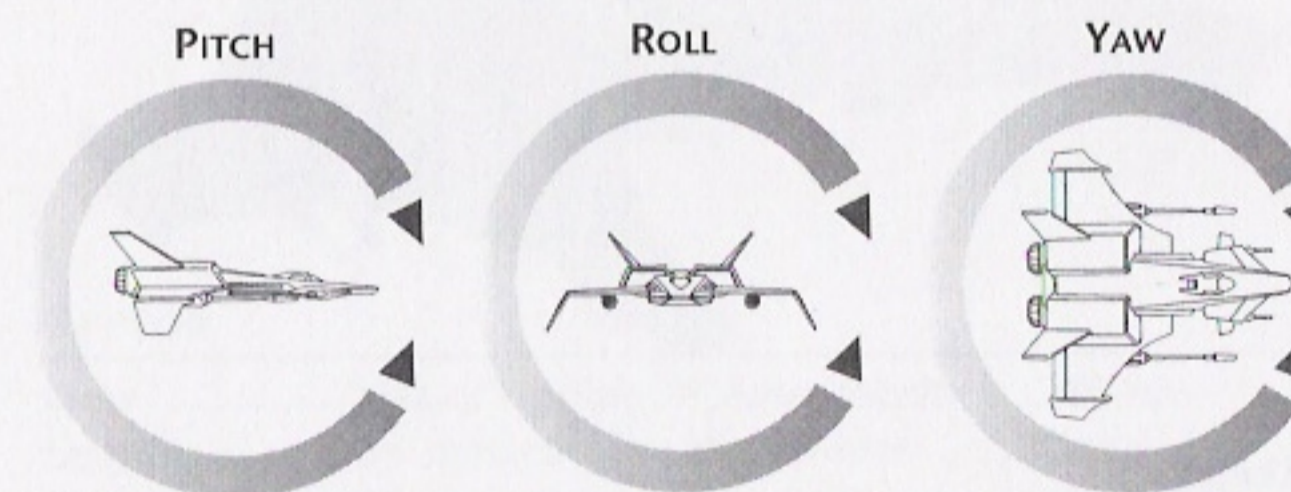
This is the latest update for Joan's fighting spacecraft, specifically revised for Terran personnel in the Vega Sector. This supplement contains the latest specifications on both Terran and Kilrathi spacecraft, particularly the types of craft most commonly encountered in this sector.

All servicemen are urged to familiarize themselves with these specifications. Computer files of this material are available in the ship's library, under >>REFERENCE>>TECHNICAL>>HARDWARE>>JOANS>>. Here's a quick guide for those of you unfamiliar with the Joan's system of evaluation:

Maximum Velocity/Cruise Velocity. These are the settings to which a ship's speed governor is set. The ship's computer automatically sets velocity relative to (a) the flagship, (b) an escorted vessel, (c) a nearby planetary body, (d) a Confederation beacon or (e) a value derived from radar positions of all visible ships. The velocity is expressed in kilometers per second (kps).

Acceleration. This shows Joan's evaluation of the ship's acceleration rate, described as Bad, Poor, Average, Good or Excellent.

Maximum Pitch, Roll and Yaw. These characteristics are expressed in degrees per second (dps). Here's a brief review on maneuvering vectors:



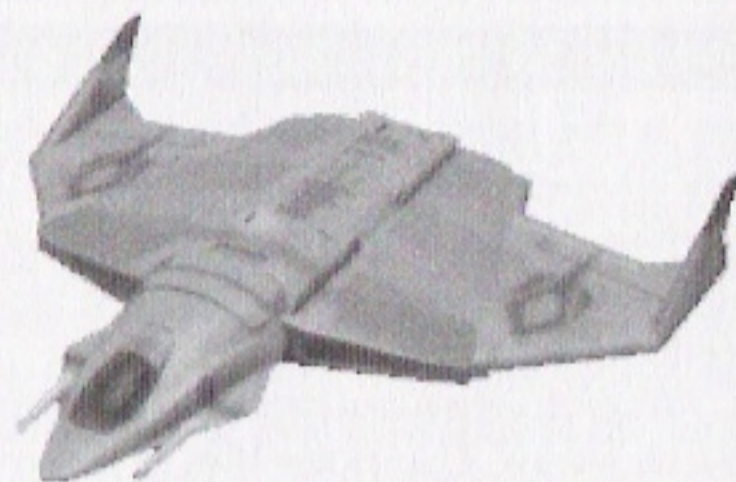
Pitch. Ability of a ship to change direction up or down.

Roll. Ability of a ship to rotate along an imaginary axis extending through the nose and tail.

Yaw. Ability of a ship to turn to the right or left without changing its vertical orientation. It is generally more efficient to turn using both pitch and roll to than to turn purely through yaw.

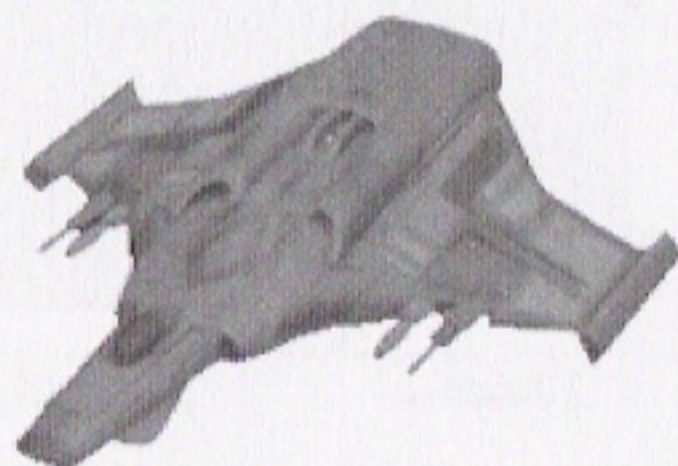
Ship's Armor. Joan's evaluation of a ship's defensive armor is expressed in centimeters thickness of Durasteel. Fore and Aft Shield values are given in values equivalent to centimeters thickness of Durasteel. The higher the number, the more effective the armor.

CONFEDERATION SHIPS



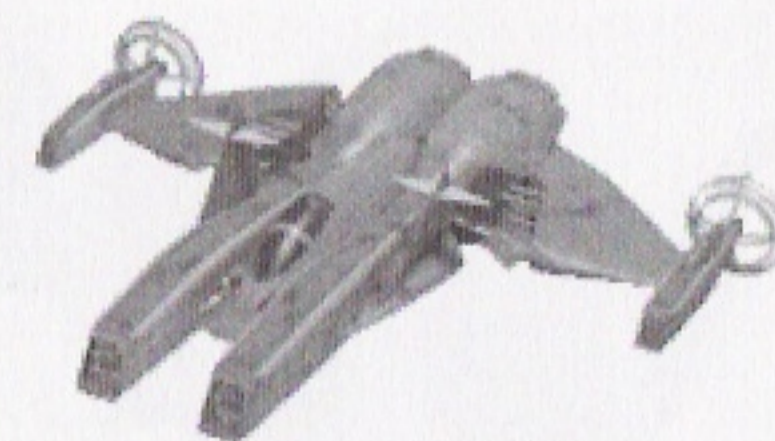
HORNET

ClassLight Fighter *Cruise Velocity*300 kp
Length.....20 meters *Acceleration*.....Good
Mass12.5 tonnes *Max. YPR*.....8/9/8 dps
Max. Velocity ...420 kps
WeaponsLaser Cannon (2)
 Dumb-Fire Missile (4)
 Heat-Seeking Missile (2)
Armor.....Fore and Aft Shields ...3 cm equivalent each
 Front and Rear.....3 cm each
 Right and Left.....3 cm each



RAPIER

Class.....Medium Fighter *Cruise Velocity*250 kp
Length.....24 meters *Acceleration*.....Excellent
Mass13.5 tonnes *Max. YPR*.....10 dps
Max. Velocity.....450 kps
WeaponsLaser Cannon (2)
 Neutron Guns (2)
 Dumb-Fire Missiles (4)
 Friend-or-Foe Missiles (4)
 Image-Recognition Missile (2)
Armor.....Fore and Aft Shields ...7 cm equivalent each
 Front and Rear.....5/4 cm
 Right and Left.....3 cm each



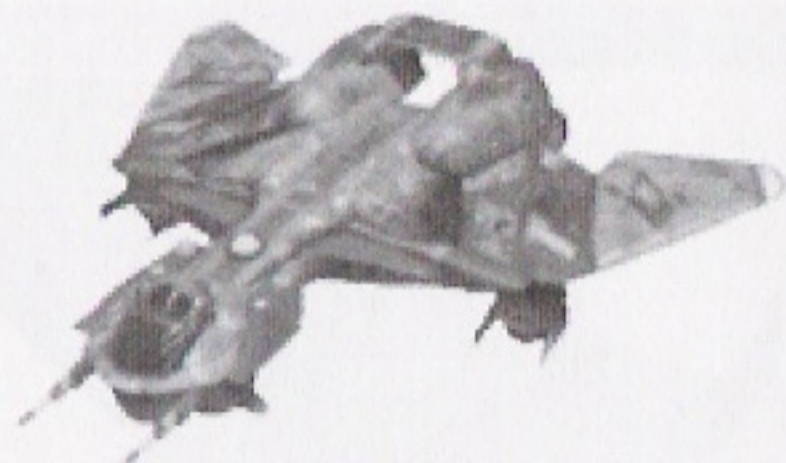
SCIMITAR

ClassMedium Fighter *Cruise Velocity*150 kps
Length.....25 meters *Acceleration*.....Good
Mass16 tonnes *Max. YPR*.....6/6/7 dps
Max. Velocity ...360 kps
WeaponsMass Driver Cannon (2)
 Dumb-Fire Missiles (4)
 Heat-Seeking Missiles (6)
Armor.....Fore and Aft Shields ...4 cm equivalent each
 Front and Rear.....6 cm each
 Right and Left.....5 cm each



RAPTOR

ClassHeavy Fighter *Cruise Velocity*250 kps
Length.....36 meters *Acceleration*.....Good
Mass20 tonnes *Max. YPR*.....6/5/6 dps
Max. Velocity ...400 kps
WeaponsMass Driver Cannon (2)
 Neutron Guns (2)
 Heat-Seeking Missiles (4)
 Image-Recognition Missiles (4)
 Friend-or-Foe Missile (2)
 Porcupine Mine (1)
Armor.....Fore and Aft Shields ...7 cm equivalent each
 Front and Rear.....8 cm each
 Right and Left.....6 cm each



VENTURE

Class	Corvette	Cruise Velocity	150 kps
Length.....	80 meters	Acceleration	Poor
Mass	1,000 tonnes	Max.YPR.....	3 dps
Max. Velocity	200 kps		
Weapons	Laser Cannon (2)		
	Friend-or-Foe Missile (1)		
	Heat-Seeking Missiles (2)		
Armor.....	Fore and Aft Shields ...	10 cm equivalent each	
	Front and Rear.....	9/8 cm each	
	Right and Left.....	8 cm each	



DRAYMAN

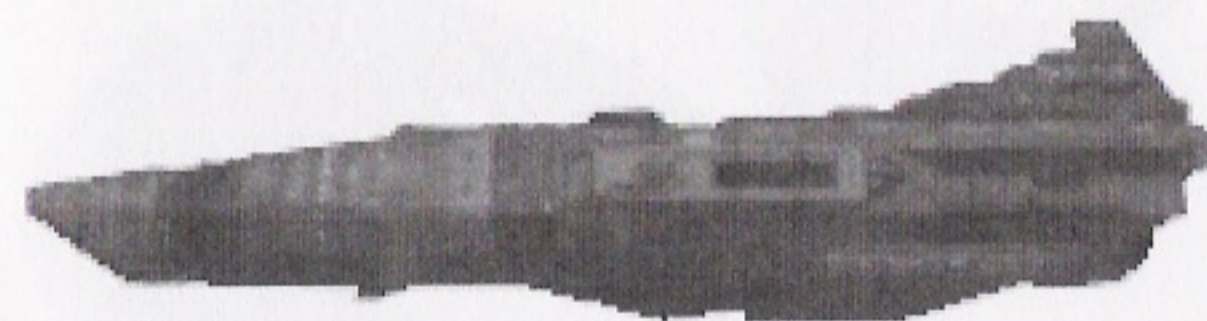
Class	Transport*	Cruise Velocity	100 kps
Length.....	96 meters	Acceleration	Poor
Mass	2,000 tonnes	Max. YPR.....	2 dps
Max. Velocity	150 kps		
Weapons	Turreted Laser (1)		
Armor.....	Fore and Aft Shields ...	9 cm equivalent each	
	Front and Rear.....	8 cm each	
	Right and Left.....	6 cm each	

*(configurable as either Freighter or Tanker)



EXETER

Class	Destroyer	Cruise Velocity	100 kps
Length.....	360 meters	Acceleration	Poor
Mass	8,000 tonnes	Max. YPR.....	2 dps
Max. Velocity	150 kps		
Weapons	Image-Recognition Missile (1)		
	Turreted Lasers (4)		
Armor.....	Fore and Aft Shields ...	25 cm equivalent each	
	Front and Rear.....	22/20 cm each	
	Right and Left.....	20 cm each	



TIGER'S CLAW

Class	Bengal Strike Carrier		
Length.....	700 meters	Acceleration	Poor
Mass	80,000 tonnes	Max.YPR.....	1 dps
Max. Velocity	130 kps	Fighter Complement...	104
Weapons	Turreted Lasers (8)		
Armor.....	Fore and Aft Shields ...	21 cm equivalent each	
	Front and Rear.....	24/20 cm each	
	Right and Left.....	25 cm each	

KILRATHI SHIPS



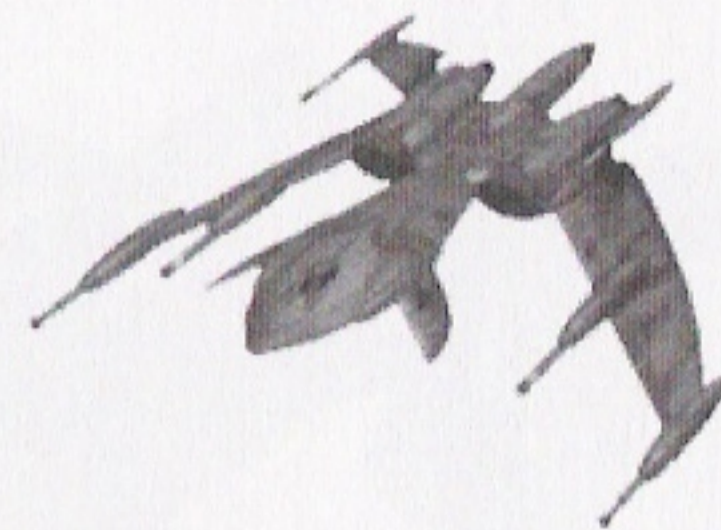
SALTHI

<i>Class</i>	Light Fighter	<i>Cruise Velocity</i>	300 kps
<i>Length</i>	24 meters	<i>Acceleration</i>	Excellent
<i>Mass</i>	12 tonnes	<i>Max. YPR</i>	14/12/12 dps
<i>Max. Velocity</i>	480 kps		
<i>Weapons</i>	Laser Cannon (2) Dumb-Fire Missile (1)		
<i>Armor</i>	Fore and Aft Shields ...3.5 cm equivalent each Front and Rear.....3/2 cm each Right and Left.....1.5 cm each		



DRALTHI

<i>Class</i>	Medium Fighter	<i>Cruise Velocity</i>	230 kps
<i>Length</i>	28 meters	<i>Acceleration</i>	Good
<i>Mass</i>	14 tonnes	<i>Max. YPR</i>	10/14/10 dps
<i>Max. Velocity</i>	400 kps		
<i>Weapons</i>	Laser Cannon (2) Porcupine Mines (3) Heat-Seeking Missiles (4)		
<i>Armor</i>	Fore and Aft Shields ...5 cm equivalent each Front and Rear.....4.5/3.5 cm each Right and Left.....3 cm each		



KRANT

<i>Class</i>	Medium Fighter	<i>Cruise Velocity</i>	200 kps
<i>Length</i>	32 meters	<i>Acceleration</i>	Good
<i>Mass</i>	16.6 tonnes	<i>Max. YPR</i>	7/10/7 dps
<i>Max. Velocity</i>	360 kps		
<i>Weapons</i>	Laser Cannon (2) Friend-or-Foe Missile (1) Heat-Seeking Missiles (3)		
<i>Armor</i>	Fore and Aft Shields ...8 cm equivalent each Front and Rear.....9/10 cm each Right and Left.....8 cm each		



GRATHA

<i>Class</i>	Heavy Fighter	<i>Cruise Velocity</i>	200 kps
<i>Length</i>	36 meters	<i>Acceleration</i>	Average
<i>Mass</i>	18 tonnes	<i>Max. YPR</i>	6 dps
<i>Max. Velocity</i>	320 kps		
<i>Weapons</i>	Laser Cannon (2) Mass Driver Cannon (2) Image-Recognition Missile (1) Heat-Seeking Missiles (3) Porcupine Mines (2)		
<i>Armor</i>	Fore Shield.....11 cm equivalent Aft Shield10 cm equivalent Front and Rear.....15/14 cm each Right and Left.....10 cm each		



JALTHI

Class	Heavy Fighter	Cruise Velocity	200 kps
Length.....	32 meters	Acceleration	Average
Mass	22 tonnes	Max. YPR.....	5 dps
Max. Velocity	280 kps		
Weapons	Neutron Guns (3) Laser Cannon (3) Friend-or-Foe Missiles (2) Heat-Seeking Missile (1)		
Armor.....	Fore and Aft Shields ...16 cm equivalent each Front and Rear.....20/10 cm each Right and Left.....17 cm each		



DORKIR

Class	Transport*	Cruise Velocity	100 kps
Length.....	104 meters	Acceleration	Bad
Mass	2000 tonnes	Max. YPR.....	2 dps
Max. Velocity	150 kps		
Weapons	Turreted Laser (1) Porcupine Mines (3)		
Armor.....	Fore and Aft Shields ...17/10 cm equivalent each Front and Rear.....9/6 cm each Right and Left.....9 cm each		

*(configurable as either Freighter or Tanker)



RALARI

Class	Destroyer	Cruise Velocity	100 kps
Length.....	344 meters	Acceleration	Poor
Mass	18,000 tonnes	Max. YPR.....	2 dps
Max. Velocity	150 kps		
Weapons	Turreted Lasers (6) Porcupine Mine (1)		
Armor.....	Fore and Aft Shields ...20/12 cm equivalent each Front and Rear.....20/9 cm each Right and Left.....18 cm each		

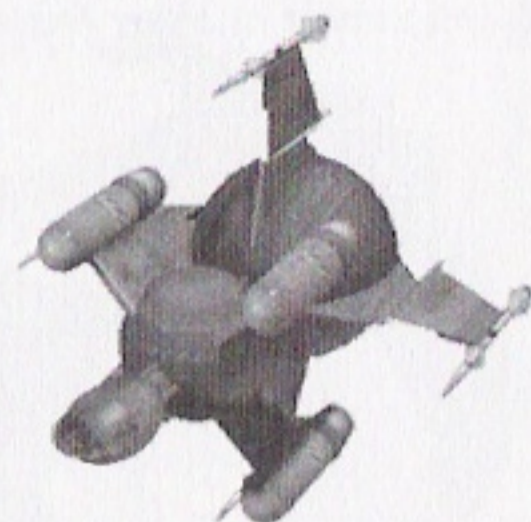


FRALTHI

Class	Cruiser*	Cruise Velocity	120 kps
Length.....	500 meters	Acceleration	Poor
Mass	20,000 tonnes	Max. YPR.....	2 dps
Max. Velocity	180 kps	Fighter Complement.....	20**
Weapons	Turreted Lasers (6)		
Armor.....	Fore and Aft Shield.....27/17 cm equivalent each Front and Rear.....28/14 cm each Right and Left.....26 cm each		

*(configurable as Cruiser or Light Carrier)

** (if configured as a Light Carrier)



LUMBARI

Class	Transport	Cruise Velocity	100 kps
Length.....	68 meters	Acceleration.....	Poor
Mass	58 tonnes	Max. YPR.....	2 dps
Max. Velocity	150 kps		
Weapons	Turreted Lasers (1) Porcupine Mines (3)		
Armor.....	Fore and Aft Shields ...7 cm equivalent each Front and Rear.....8 cm each Right and Left.....6 cm each		

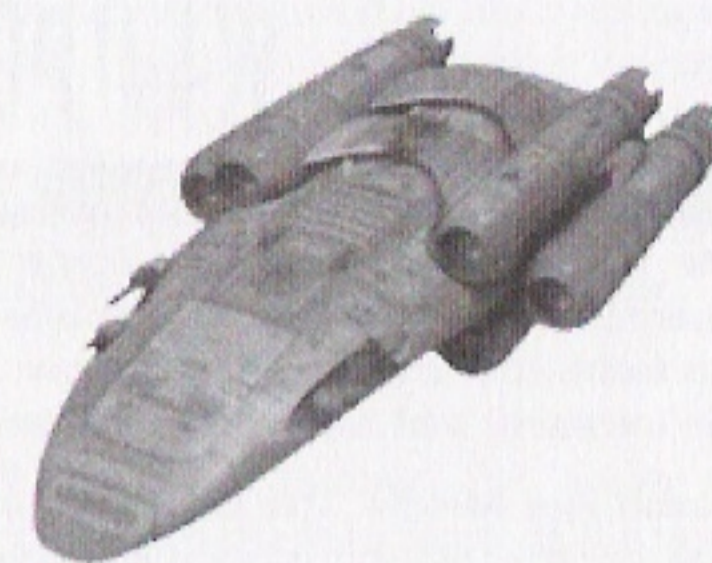


SIVAR

Class	Dreadnought	Cruise Velocity	150 kps
Length.....	103 meters	Acceleration.....	Poor
Mass	1,720 tonnes	Max. YPR.....	1 dps
Max. Velocity	200 kps	Fighter Complement.....	20**
Weapons	Turreted Lasers (6) Image-Recognition Missiles (2)		
Armor.....	Fore and Aft Shield.....27 cm equivalent each Front and Rear.....28/14 cm each Right and Left.....26 cm each		
Other	Unidentified Power Source (according to recent Terran sightings)		

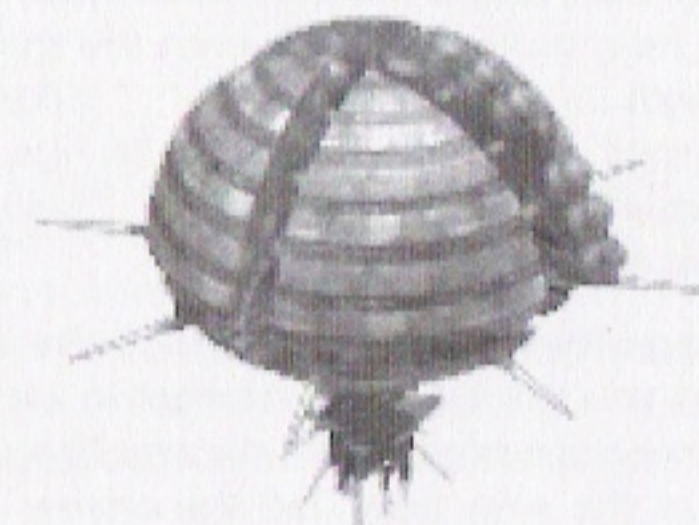
* (configurable as Cruiser or Light Carrier)

** (if configured as a Light Carrier)



SNAKEIR

Class	Carrier	Cruise Velocity	100 kps
Length.....	600 meters	Acceleration.....	Poor
Mass	15,000 tonnes	Max. YPR.....	1 dps
Max. Velocity	150 kps		
Weapons	Image-Recognition Missiles (2) Turreted Lasers (6)		
Armor.....	Fore and Aft Shields ...37 cm equivalent each Front and Rear.....28/24 cm each Right and Left.....36 cm each		



SUPPLY DEPOT

Class	Star Post	Cruise Velocity	0 kps
Length.....	500 meters	Acceleration.....	n/a
Mass	20,000 tonnes	Max. YPR.....	0 dps
Max. Velocity	0 kps		
Weapons	Friend-or-Foe Missiles (4) Turreted Lasers (4)		
Armor.....	Fore and Aft Shields ...18 cm equivalent each Front and Rear.....18 cm each Right and Left.....18 cm each		

LEADER BY EXAMPLE



Major Chen Kien is known as *Bossman* to the spacecrews, but that wasn't always the case. "When I was young — er, younger — they called me *Ripper*, my

"When I started burying young pilots who had been killed for behaving like me, I decided to give them an example that would not get them blown out of space."

old friends still do. I was a lot like Hunter, pushing everything to the limit. But I might have been a little too good, or at least lucky, at it. Replacement crews coming in, bright young second looies, took my lead... and

got themselves shot to hell. When I started burying young pilots who had been killed for behaving like me, I decided to give them an example that would not get them blown out of space. It is sort of a vicious cycle: You try to act as an example, and young pilots start coming to you for advice. That is when they started calling me *Bossman*. I do not regret all of these changes ... but there are some times that I miss the old days."

The 39-year-old native of Kaohsiung, Taiwan, has a degree in aeronautical engineering from the Confederation Net university system. He is married to ergonomics engineer Chen Mingxing and, last March, became the father of a baby girl. He named her Alexis in memory of his mother, who died a year ago from bone cancer.

"I do not regret all of these changes... but there are some times that I miss the old days."

MAJOR CHEN KIEN, BOSSMAN

ACE OF ACES



Major Michael Casey, *Iceman* to most of the crews, has racked up more confirmed kills while serving on the *Tiger's Claw* than any other pilot in the carrier's history. In the cockpit, he is known for his calm under fire, letter-perfect flying technique and deadly aim with ships' weapons — a combination that spells disaster for Kilrathi opponents.

"You must learn to listen for Iceman. On the comm unit, in a large engagement, everyone is either shouting or at least very excited; Iceman is whispering. You have to strain your ears to hear him." — Angel

In fact, according to the flight recorder records, he once downed three Salthi fighters single-handed with lasers as his only weapon.

Despite his stern presence in battle, *Iceman* is surprisingly softspoken. Angel, frequently a wingman for *Iceman*, describes flying with him:

"I will tell you: he talks ten times as much in the cockpit as he ever talks on the carrier." — Angel

"You must learn to listen for *Iceman*. On the comm unit, in a large engagement, everyone is either shouting or at least very excited; *Iceman* is *whispering*. You have to strain your ears to hear him. It's always a terse little statement like 'Moving in,' 'Rolling right,' 'Target in sight,' 'Objective accomplished,' 'Head for home.' And I will tell you: he talks ten times as much in the cockpit as he ever talks on the carrier."

MAJOR MICHAEL CASEY, ICEMAN

KNOW YOUR ENEMY

As we all know, the Tiger's Claw lost two top pilots to the Kilrathi last month. To help prepare you for combat against some of their better known aces, Commander Halcyon has procured confidential files from the Terran Intelligence Council. For the first time ever, inside information about top Kilrathi pilots is available to military personnel. So, read about your enemy, memorize his weaknesses and use them to your advantage. Computer files containing additional detailed information are archived in the ship's library, under >>REFERENCE>>TECHNICAL>>KILRATHI>>PILOTS>>.

****WARNING! THIS INFORMATION HAS BEEN CLEARED FOR MILITARY USE ONLY. DO NOT RELEASE THESE FILES TO UNAUTHORIZED PARTIES.****

FILE #83542: SALTHI FIGHTER

BHURAK "STARKILLER" NAR CAXKI

Best known among the Kilrathi aces is Bhurak, dubbed "Starkiller." He is regarded as the best living pilot among the Kilrathi in this sector and flies a *Salthi* light fighter.

Strengths. Bhurak's an excellent pilot and shot. He has optimal reflexes and no serious weaknesses can be detected in his flying style.

Weaknesses. Psych profiles indicate that Bhurak is probably addicted to speed, thrills and sport. Though a courageous pilot, he is not without a survival instinct. A sufficient number of opponents or a sudden turn in fortune can convince him to retreat.

Tactics. Bhurak likes to dogfight. He prefers a maneuverable foe and standard dogfight tactics. He almost always uses his ship's laser cannon, reserving his dumb-fire missile for stationary targets.

Recommendation. If possible, put several pilots on him at once; deny him a fair fight or anything he would consider fun. He might become disgruntled and choose another target or route. If you're forced into single combat with him, don't try to outfly him. You might do best by going stationary, spinning to keep him in your sights and trading licks. He doesn't appear to enjoy that and may choose a new objective.

FILE #16982: KRANT FIGHTER

KHAJJA "MACHINE" NAR JA'TARGK

Khajja the Fang is not-so-affectionately called "Machine" by Terran intelligence. He is the most efficient, mission-oriented pilot the Kilrathi have. He pilots a *Krant* medium fighter.

Strengths. Khajja's greatest asset is his clear thinking. He never panics or falters and appears to have utter confidence in his wingmen. He is not vulnerable to taunts, goads or insults.

Weaknesses. Khajja's faith in his wingmen may be misplaced. Analysis indicates that some Kilrathi pilots may be afraid of him. He will single-mindedly ignore incoming ships in order to concentrate on a strike objective, meaning that he might ignore *you*.

Tactics. Khajja prefers straight-in, straight-out strafing approaches. He uses his laser cannon for most encounters, saves his heat-seekers for mission objectives or particularly troublesome enemies, and saves his friend-or-foe missile for emergencies.

Recommendation. If he's approaching a mission objective, you might get a free shot by eluding his wingmen. If he's moving in on you, use classic dogfight tactics. Try to outfly and outshoot him, or lead him toward unengaged friendlies. He doesn't like bad odds.

CAT BYTES - HISTORY OF THE TERRAN/KILRATHI CONFLICT

On 2629.105 (March 15, 2629 Terran time) the exploration ship *Iason* encounters a spacecraft of unknown origin. *Iason* commander Jedora Andropolos beams the standard wide-band non-verbal greeting designed by the Committee for Interaction with Alien Intelligences. Captain Andropolos keeps *Iason* motionless for twenty-two minutes standard while the alien vessel waits. Finally, the alien vessel opens up with all guns, utterly destroying *Iason* and all hands.

On 2634.186, war is formally declared by the Terran Confederation on the Empire of Kilrah for countless acts of piracy and unwarranted assault.

CAT BYTES - HISTORY OF THE TERRAN/KILRATHI CONFLICT

On 2639.033, Kilrathi occupation forces land on the human-occupied world Enyo, hold a quarter of a million humans hostage under orbital guns and await Terran reprisals. This triggers the Enyo Engagement, a tactical situation made difficult by the presence of so many hostages.

Phase One of the Enyo Engagement involves bringing in an attack force against the Kilrathi fleet at Enyo. The attack force consists principally of *Raptor*-class heavy fighters reconfigured to carry extra Porcupine Space Mines and practically no missiles. The force is small enough that Kilrathi forces at Enyo are certain of victory.

Phase One forces drop their mines in one region of space near Enyo and engage the enemy. Kilrathi ships maneuver to get out of the mined region and turn their attention to destroying the invaders.

By the time the Kilrathi navigators realize that the mined region corresponds to Enyo's principal jump point, it is too late: Phase Two has begun. A single radio signal detonates all the specially modified Porcupines mines, and moments later the remainder of the Terran fleet appears at that jump point, in the middle of the engagement.

The Terran fleet makes its first strike against the gunships threatening the human colonies. The enemy ships are destroyed, with minimal loss of life among the colonists. Then the two fleets settle in for a pounding match.

The Enyo Engagement ends with the Kilrathi in retreat. Losses have been nearly identical between the two fleets, but the Kilrathi have been forced to abandon a strategic position.

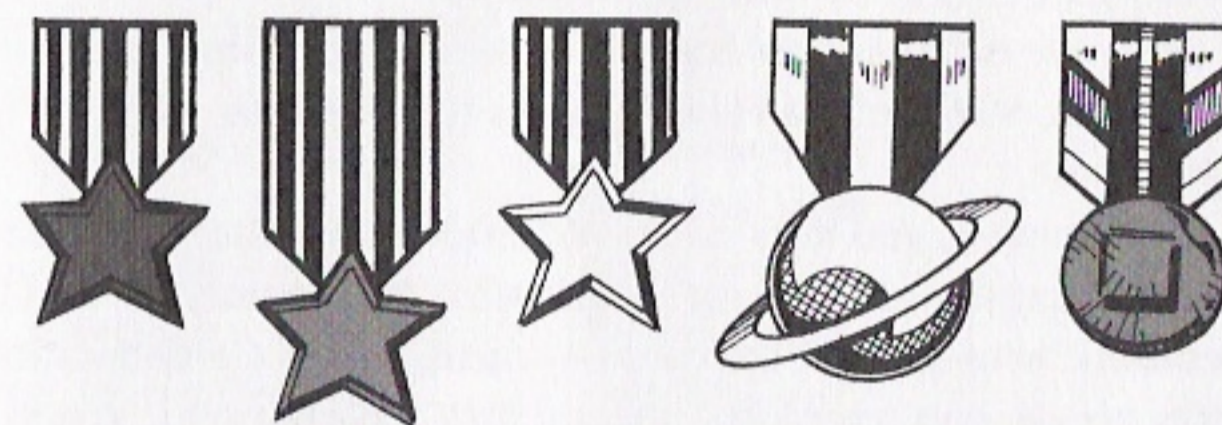
5 Years Ago

Terran ground forces launching an attack on a fortified Kilrathi colonial position are routed by unexpected Kilrathi fighter-craft support. The Terrans quickly reform and turn back toward Terran space, their lightly armed transports pursued by Kilrathi warships. TCS *Tiger's Claw* is detached from its previous station and sent to the Terran fleet's path.

Tiger's Claw fights a delaying action, subsequently called Custer's Carnival, to allow the Terran fleet time to reach Confederation-controlled space. Though swarmed and badly damaged by Kilrathi fighters, the carrier occupies the attention of the Kilrathi forces until the Terran fleet reaches safety.

NEW ON THE FLIGHT DECK**MEDAL RECOGNITION FOR NEW RECRUITS**

Can you recognize, on sight, all the medals awarded by the Terran Confederation Navy? Don't be caught speechless when a senior officer tells you to identify all the "chicken guts" he's wearing. Instead, learn the medals and ranks shown below.



Bronze Star. Awarded for exceptional bravery under fire.

Gold Star. Awarded for exceptional bravery against hopeless odds.

Silver Star. Awarded for exceptional bravery against overwhelming opposition. When a recipient wins an additional Silver Star, an extra bar is affixed to the top of the ribbon area.

Terran Confederation Medal of Honor. Also nicknamed the "Pewter Planet," this is the highest medal awarded to military personnel.

Golden Sun. Awarded for surviving the destruction of one's ship. The Golden Sun is awarded only once. The subsequent loss of ships gets you only the requisite, especially intensive, debriefing sessions and performance evaluations.

UP AND COMING**TIGER'S CLAW PROMOTIONS**

To Lieutenant: S.E. "Broadway" Sarasin

To Captain: Fatima "Cymbals" Haroud

TIGER'S CLAW AWARDS

Ace: Second Lieutenant Todd "Maniac" Marshall

Bronze Star: Captain Jeannette "Angel" Devereaux

15-Mission Ribbon: First Lieutenant Tanaka "Spirit" Mariko

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