

Option Winged Spreads

Lesson 6

Beginner Options Teaching Lessons

Butterfly Trades

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Topics for this Lesson:

Winged Trades:

The Butterfly Spreads

The Long Butterfly

The Iron Butterfly

Broken Winged Variants

Winged Spreads Structure

Butterflies optimize a stagnant trend – “delta neutral”

BUT – have a “target price” that determines option strikes

Two types of winged trades: ‘long’ winged and ‘iron’ winged

Long butterfly Debit Calls **or** puts 3 Strikes - Long, 2X short, long

Iron butterfly Credit Call **and** puts 3 Strikes - Long, short, short, long

- All options are in the same month of expiration
- We choose the strike prices based on a number of factors for each strategy
- Commissions paid are a concern in these trades

Butterfly Comparisons

3 strikes

Generally:

- Less risk
- High reward
- Low probability

Long

- Either puts or calls
- Debit
- In the money - generally

“Iron”

- Both puts and calls
- Credit
- Out of the money

Long butterfly spread or simply butterfly spread

Expectation:

Stock will remain stagnant

Stock will 'pin' around a particular strike price at option expiration

Structure: Can be either calls or puts:

Long option (WING)

2 x short options (BODY)

Long option (WING)

Call butterfly: **Bull call + bear call** with same short call strike

Long call, 2X short call, long call

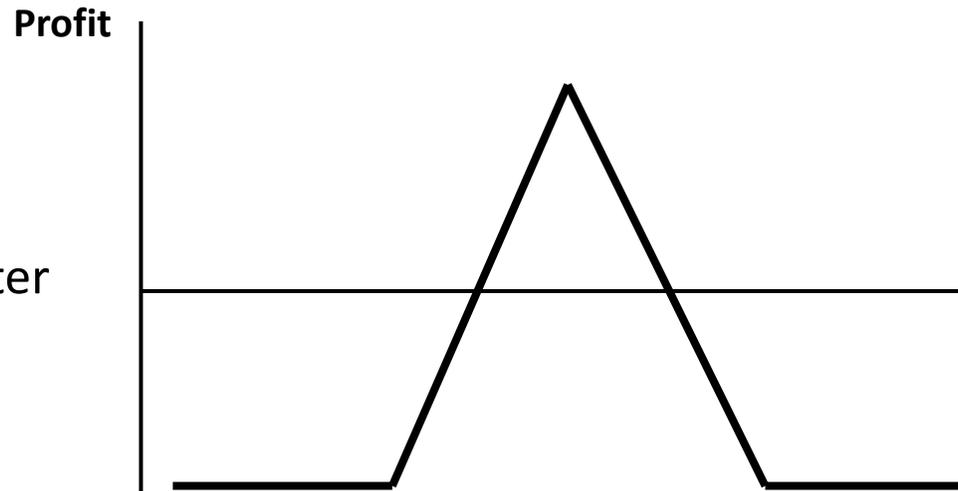
Put butterfly: **Bull put + bear put** with same short put strike

Long put, 2X short put, long put

Butterfly is a debit trade

Maximum risk = Debit

Maximum reward = Spread with the greater difference between strikes (if they are not the same on both sides) – debit



Break even Points:

- Lower break even: Lowest strike + risk
- Upper break even: Highest strike – risk

- If the stock is between break even points at options expiration, the trade is profitable
- Maximum profit is achieved if the stock is at the short option strike at expiration
- What is the probability that stock will finish at this price?
- Wider strikes = More debit = Higher probability = Less profits
- Longer expiration = Lower cost = Less probability = More profits

General setup:

- Our expectation is a “pin” price
- Avoid news or earnings announcements for the duration of the trade
- Avoid equities with very high implied volatility (higher than about 50%)

Selecting strike prices:

- Select the short option strike where you expect it to expire, usually at the money
- Typically - long option strikes one or two strikes above and below

Select near term month options

Primary exit:

- Equity 'pins' at short option strike
- Close at % return, try to close a few days before expiration

Secondary exits:

- Close at theoretical break even
- Close the trade at a % net loss
- Bearish trend:
 - Add a long option to create a ratio back spread
 - Take possession of stock and collar it (put butterfly)
 - Roll the trade out of the money and further out in time
- Bullish trend:
 - Add a long option to create a ratio back spread
 - Roll the trade out of the money and further out in time

										Bid	Ask	Size	Volume	
+ 77.55 +1.57 +2.07% Ext Hrs 77.60 @ 19:59:10										0.00	0.00	0x0	10.1m	
+ Sep09 <input checked="" type="checkbox"/> Oct09 <input checked="" type="checkbox"/> Dec09 <input checked="" type="checkbox"/> Jan10 <input checked="" type="checkbox"/> Mar10 <input checked="" type="checkbox"/> Jan11														
Delta	Gamma	Theta	Vega	Bid	Ask	Imp Vol	STRIKES	Delta	Gamma	Theta	Vega	Bid	Ask	Imp Vol
CALLS							(40 days)	PUTS						
+ 0.7397	0.0224	-0.0607	0.0825	10.00	10.15	57.13%	70.0	+ -0.2590	0.0225	-0.0583	0.0833	2.46	2.48	55.94%
+ 0.6088	0.0274	-0.0678	0.0986	6.80	6.90	54.53%	75.0	+ -0.3908	0.0275	-0.0671	0.0986	4.25	4.30	54.22%
+ 0.4647	0.0292	-0.0681	0.1020	4.35	4.40	53.00%	80.0	+ -0.5349	0.0291	-0.0677	0.1020	6.75	6.85	52.94%
+ 0.3296	0.0269	-0.0612	0.0931	2.63	2.68	52.38%	85.0	+ -0.6703	0.0266	-0.0603	0.0928	10.00	10.10	52.00%

75/80/85 Call butterfly:

$$\$6.90 - 2 \times (\$4.35) + \$2.68 = \$0.88$$

Maximum Risk:

Net debit \$0.88

Maximum return:

“Pegs” (or “Pins”) the short strike

Spread – debit

$$\$5.00 - 0.88 = \$4.12$$

Break even:

Lower strike + net debit

Higher strike – net debit

75/80/85 Put butterfly:

$$\$4.30 - 2 \times (\$6.75) + \$10.10 = \$0.90$$

Maximum Risk:

Net debit \$0.90

Maximum return:

“Pegs” (or “pins”) the short strike

Spread – debit

$$\$5.00 - 0.90 = \$4.10$$

Break even:

Lower strike + net debit

Higher strike – net debit

Iron butterfly spread

Expectation:

- Stock will remain stagnant
- Stock will remain within a range at option expiration

Structure:

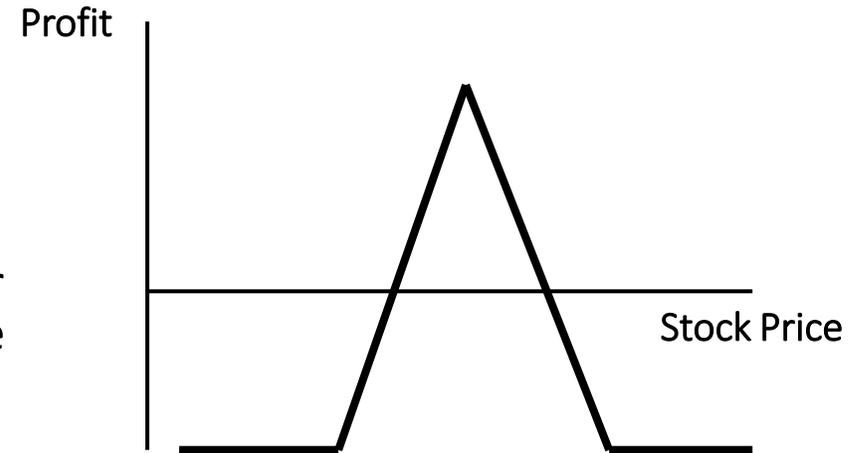
- Long put
- Short put (the bull put)
- Short call
- Long call (the bear call)

Iron butterfly: **Bull put + bear call** with **same** short option strike

Iron butterfly is a credit trade

Maximum reward = Credit

- Maximum risk= Spread with the greater
- amount of risk (if they are not the same
- on both sides) – credit



Break even Points:

- Lower break even: Short put strike – credit
 - Upper break even: Short call strike + credit
-
- If the stock is between break even points at options expiration, the trade is profitable
 - Maximum profit is achieved if the stock is at the short option strike at expiration

Comparing the Long Butterfly to the Iron Butterfly

77.55 +1.57 +2.07% Ext Hrs 77.60 @ 19:59:10														
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Delta	Gamma	Theta	Vega	Bid	Ask	Imp Vol	STRIKES	Delta	Gamma	Theta	Vega	Bid	Ask	Imp Vol
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75/80/85 call butterfly:

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Maximum risk:

Net debit \$0.88

Maximum return:

“Pegs” (or “pins”) the short strike

Spread – debit

$$\$5.00 - 0.88 = \$4.12$$

Break even:

Lower strike + net debit

Higher strike – net debit

75/80/85 iron butterfly:

$$\$4.30 - \$6.75 - \$4.35 + \$2.68 = -\$4.12$$

Maximum risk:

Spread - net credit:

$$\$5.00 - \$4.12 = \$0.88$$

Maximum return:

$$\text{Credit} = \$4.12$$

Break even:

Lower strike + risk

Higher strike – risk

75/80/85 put butterfly:

$$\$4.30 - 2 \times (\$6.75) + \$10.10 = -\$0.90$$

Maximum risk:

Net debit \$0.90

Maximum return:

“Pegs” (or “pins”) the short strike

Spread – debit

$$\$5.00 - 0.90 = \$4.10$$

Break even:

Lower strike + net debit

Higher strike – net debit

Defining Exit Points - debit butterfly

