

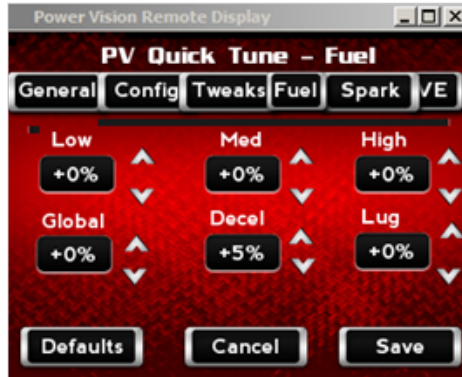
FIXING DECEL POP

MY EXHAUST IS POPPING WHEN I LET OFF THE THROTTLE AND DECELERATE, WHAT CAN I DO?

The easiest way would be using the built in Power Vision feature Quick Tune. The beauty of using Quick Tune is you do not need to know the area of the tables to adjust; Quick Tune makes that decision for you. There are limits to the changes you can make with Quick Tune; these limits keep you from going too far. We suggest starting with a +5 to fuel, +3 to Spark, see steps below.



To get to Quick Tune on the Power Vision, go to **Program Vehicle>Quick Tune**



First select the **Fuel** tab, add +5 in the Decel column



Next select the **Spark** tab, add +3 in the Decel column

Press **Save**, and these changes will be made to the tune in the ECM of the bike. The tunes saved in the Power Vision custom slots will NOT be changed, only the tune in the ECM. Adjust further if needed.

WINPV

The second method to address this issue would be editing the tune directly in the WinPV software. This gives you the ability to make larger changes than allowed in Quick Tune. Once you have the tune you are using open in WinPV, you would modify the following tables AFR, VE front and rear, and Spark front and rear. Depending on your bike, these tables may be Throttle position based, or Map based. You will need to change a different area, depending on which you have. Map based tables would be 30 kpa or less, throttle position based tables would be the zero% column.

RPM	MAP (kPa)									
	20	30	40	50	60	70	80	85	90	100
750	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1250	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1500	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1750	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2250	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2500	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
3000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
3500	14.4	14.4	14.4	14.4	14.4	14.4	14.1	13.7	13.1	13.1
3750	14.3	14.3	14.3	14.3	14.3	14.1	13.8	13.4	13.1	13.1
4000	14.0	14.0	14.0	14.0	14.0	13.8	13.5	13.1	13.1	13.1
4500	13.3	13.3	13.3	13.3	13.3	13.1	13.1	13.1	13.1	13.1
5000	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
5500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
6000	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
6500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1

This is a Map based AFR table from our tune for a 2012 Touring bike

RPM	MAP (kPa)									
	20	30	40	50	60	70	80	85	90	100
750	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1000	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1250	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1500	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
1750	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2000	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2250	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
2500	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
3000	13.5	13.5	14.4	14.4	14.4	14.4	14.4	14.3	13.1	13.1
3500	13.5	13.5	14.4	14.4	14.4	14.4	14.1	13.7	13.1	13.1
3750	13.5	13.5	14.3	14.3	14.3	14.1	13.8	13.4	13.1	13.1
4000	13.5	13.5	14.0	14.0	14.0	13.8	13.5	13.1	13.1	13.1
4500	13.5	13.5	13.3	13.3	13.3	13.1	13.1	13.1	13.1	13.1
5000	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
5500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
6000	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
6500	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1

We would change the table, as seen below to look like this. The decel area of the table has been set richer, to add fuel.



VE (MAP based/Front Cyl)
12T103000101.pvt

RPM	MAP (kPa)									
	10	20	30	35	40	50	60	70	80	90
750	79.0	79.9	84.1	82.6	80.8	79.4	74.9	74.9	75.6	82.6
1000	79.0	82.9	87.3	84.3	80.8	79.4	75.4	75.3	76.1	83.2
1125	79.0	84.5	89.0	83.7	81.4	80.0	76.5	76.5	76.7	84.4
1250	78.5	84.5	89.0	86.0	82.7	81.0	79.5	80.4	79.8	83.3
1500	77.0	90.3	95.1	91.2	86.4	85.0	83.9	83.2	82.1	79.7
1750	73.5	87.5	92.1	89.8	89.1	87.8	85.9	85.9	83.7	82.7
2000	71.0	88.3	93.0	91.1	89.7	87.6	87.3	85.4	85.8	82.7
2250	70.5	87.0	91.6	91.8	91.0	89.4	87.8	86.8	86.6	82.7
2500	73.0	95.5	100.5	98.3	97.2	95.8	92.9	92.5	91.4	88.4
2750	75.0	89.3	94.0	94.5	95.7	93.1	92.1	89.4	88.3	86.5
3000	74.5	89.7	94.4	93.3	94.5	92.1	91.0	88.7	87.4	86.5
3500	69.5	87.7	92.3	92.2	93.8	90.9	90.4	90.7	89.7	90.1
4000	63.5	94.2	99.2	98.9	100.2	98.2	98.8	96.9	93.0	92.4
4500	60.0	84.6	89.1	95.9	97.0	99.2	95.4	93.5	90.2	90.3
5000	61.5	85.2	89.7	95.5	100.4	100.7	93.1	90.2	86.8	83.5
5500	64.0	86.3	90.8	92.7	94.2	95.8	88.4	86.7	82.1	81.4
6000	65.5	86.8	91.4	92.7	94.2	95.8	87.4	84.8	80.1	75.4
6500	65.5	86.8	91.4	92.7	94.2	93.5	85.7	84.2	79.5	75.4

Spark Advance [Front Cyl]
12T103000101.pvt

RPM	MAP (kPa)									
	15	20	30	40	50	60	70	80	90	100
750	16.50	16.00	16.00	16.00	13.25	10.50	10.00	10.00	10.00	10.00
1000	16.50	16.00	16.00	16.00	13.25	10.50	10.00	10.00	10.00	10.00
1125	18.50	18.00	17.75	17.75	14.50	11.50	10.00	10.00	10.00	10.00
1250	20.25	20.00	19.50	19.25	16.00	13.00	11.00	10.00	10.00	10.00
1500	22.25	22.00	21.25	21.00	18.75	16.50	13.50	10.00	10.00	10.00
1750	24.00	24.00	23.00	22.50	22.00	20.00	17.00	10.50	10.00	10.00
2000	28.00	28.00	27.00	26.50	25.50	23.50	20.00	15.00	10.00	10.00
2250	32.00	32.00	31.50	30.50	31.00	31.00	27.00	18.00	11.50	10.00
2500	34.00	36.00	36.00	36.00	36.50	37.00	35.00	31.00	21.00	15.00
2750	35.00	39.00	40.00	41.00	41.00	37.00	34.00	24.00	17.50	13.00
3000	35.00	40.00	44.00	44.00	42.00	39.00	36.00	26.00	19.00	15.00
3500	35.00	40.00	45.00	45.00	43.00	42.00	38.00	29.00	21.50	17.00
4000	35.00	40.00	45.00	45.00	45.00	43.00	40.00	33.00	24.00	20.00
4500	35.00	40.00	45.00	45.00	45.00	43.00	40.00	33.50	26.00	22.00
5000	35.00	40.00	45.00	45.00	45.00	43.00	40.00	35.00	28.50	25.00
5500	35.00	40.00	45.00	45.00	45.00	42.00	39.00	36.00	31.00	28.00
6000	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
6500	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
7000	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00

The next tables, would be the VE tables front and rear. This is the front cylinder table from one of our tunes. **Note:** this is a Map based VE table.

The last tables would be the Spark Advance front and rear. This is the front cylinder table from one of our tunes.

VE (MAP based/Front Cyl)
12T103000101.pvt

RPM	MAP (kPa)									
	10	20	30	35	40	50	60	70	80	90
750	79.0	79.9	84.1	82.6	80.8	79.4	74.9	74.9	75.6	82.6
1000	79.0	82.9	87.3	84.3	80.8	79.4	75.4	75.3	76.1	83.2
1125	79.0	84.5	89.0	83.7	81.4	80.0	76.5	76.5	76.7	84.4
1250	78.5	84.5	89.0	86.0	82.7	81.0	79.5	80.4	79.8	83.3
1500	97.0	110.3	115.1	91.2	86.4	85.0	83.9	83.2	82.1	79.7
1750	93.5	107.5	112.1	89.8	89.1	87.8	85.9	85.9	83.7	82.7
2000	91.0	108.3	113.0	91.1	89.7	87.6	87.3	85.4	85.8	86.4
2250	90.5	107.0	111.6	91.8	91.0	89.4	87.8	86.8	86.6	85.4
2500	93.0	115.5	120.5	98.3	97.2	95.8	92.9	92.5	91.4	88.4
2750	95.0	109.3	114.0	94.5	95.7	93.1	92.1	89.4	88.3	86.5
3000	94.5	109.7	114.4	93.3	94.5	92.1	91.0	88.7	87.4	86.1
3500	89.5	107.7	112.3	92.2	93.8	90.9	90.4	90.7	89.7	90.1
4000	83.5	114.2	119.2	98.9	100.2	98.2	98.8	96.9	93.0	92.4
4500	80.0	104.6	109.1	95.9	97.0	99.2	95.4	93.5	90.2	90.3
5000	81.5	105.2	109.7	95.5	100.4	100.7	93.1	90.2	86.8	83.5
5500	84.0	106.3	110.8	92.7	94.2	95.8	88.4	86.7	82.1	81.4
6000	85.5	106.8	111.4	92.7	94.2	95.8	87.4	84.8	80.1	75.4
6500	85.5	106.8	111.4	92.7	94.2	93.5	85.7	84.2	79.5	75.4
7000	85.5	106.8	111.4	92.7	92.4	93.5	84.1	84.2	79.5	75.4

Spark Advance [Front Cyl]
12T103000101.pvt

RPM	MAP (kPa)									
	15	20	30	40	50	60	70	80	90	100
1125	18.50	18.00	17.75	17.75	14.50	11.50	10.00	10.00	10.00	10.00
1250	20.25	20.00	19.50	19.25	16.00	13.00	11.00	10.00	10.00	10.00
1500	25.25	25.00	24.25	21.00	18.75	16.50	13.50	10.00	10.00	10.00
1750	27.00	27.00	26.00	22.50	22.00	20.00	17.00	10.50	10.00	10.00
2000	31.00	31.00	30.00	26.50	25.50	23.50	20.00	15.00	10.00	10.00
2250	35.00	35.00	34.50	30.50	31.00	31.00	27.00	18.00	11.50	10.00
2500	37.00	39.00	39.00	36.50	37.00	35.00	31.00	21.00	15.00	11.50
2750	38.00	42.00	43.00	41.00	41.00	37.00	34.00	24.00	17.50	13.00
3000	38.00	43.00	47.00	44.00	42.00	39.00	36.00	26.00	19.00	15.00
3500	38.00	43.00	48.00	45.00	43.00	42.00	38.00	29.00	21.50	17.00
4000	38.00	43.00	48.00	45.00	45.00	43.00	40.00	33.00	24.00	20.00
4500	38.00	43.00	48.00	45.00	45.00	43.00	40.00	33.50	26.00	22.00
5000	38.00	43.00	48.00	45.00	45.00	43.00	40.00	35.00	28.50	25.00
5500	35.00	40.00	45.00	45.00	45.00	42.00	39.00	36.00	31.00	28.00
6000	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
6500	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
7000	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
7500	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00
8000	35.00	40.00	45.00	45.00	45.00	42.00	39.00	37.00	33.00	30.00

This is the changed table. We increase the cells in the decel area of the table by 20, to add fuel. Repeat for the rear table.

Once all these tables are changed, send this modified tune to a slot on the Power Vision, flash the tune to the bike, and go test.

