



# Original Issue Discount (OID): What It Means and How It Works on the Financial Statements



## The Question...

“Can you explain what **Original Issue Discount (OID)** means and how to model it on a Debt issuance in a 3-statement model or LBO model?”

“I’ve seen this concept in case studies and modeling tests before, but I’m not sure exactly how it works.”

# The Short Answer on Original Issue Discount

- **Concept:** Happens when a company issues Debt at a *discount* to par value, e.g., a bond is worth \$100, but company issues it for \$90
- **Why:** The bond's coupon rate (interest rate) is **below** those of other, similar bonds, and the company needs to incentivize investors (or if there are doubts about eventual repayment)
- **What:** Company **amortizes** this discount on the statements and keeps increasing the *Book Value* of Debt on the Balance Sheet
- **But:** The company still pays Interest based on the *Face Value* of that Debt – the \$100!



# The Short Answer on Original Issue Discount

- **So:** For \$100 of Debt with a 10% Interest Rate, issued at \$90, there will be \$10 in Cash Interest and \$2 of OID Amortization per year
- **Income Statement:** \$12 in Total Interest Expense, which reduces Pre-Tax Income and Net Income
- **Cash Flow Statement:** Net Income is lower, and we add back the \$2 in OID Amortization each year since it's a non-cash expense
- **Balance Sheet:** *Book Value* of Debt increases from \$90 to \$100 over time, going up by \$2 per year, but the *Face Value* is a constant \$100



# The Longer Answer on Original Issue Discount

- **Principal Repayments:** When there are Mandatory or Optional Repayments, you must **amortize the OID more rapidly**
- **Label:** Companies call this “Extra Amortization” something like “Loss on Unamortized OID on Repayment”
- **This “Loss”:** Based on % Debt Principal repaid this year \* OID balance after OID Amortization this year
- **So:** \$10 OID, \$2 OID Amortization, and \$20 Repayment →  
 $(\$20 / \$100) * \$8 = 20\% * \$8 = \$1.6$



# The Longer Answer on Original Issue Discount

- **ALSO:** The Amortization of OID itself changes in this scenario! Not just a simple straight-line number anymore
- **Calculation:**  $= -\text{MIN}(\text{OID Beginning Balance}, \text{OID Beginning Balance} / \text{Years Remaining in OID Amortization Period})$
- **So:** With OID of \$10 and a 5-year period, this will initially be  $\$10 / 5 = \$2$ ... but will fall to less than \$1 by the end
- **NET EFFECT:** Instead of amortizing \$2 of OID per year, we amortize a total of \$4, then \$3, then \$2, then \$1, then  $< \$1$



# The Longer Answer on Original Issue Discount

- **Financial Statements:** “Loss on Unamortized OID on Repayment” counts as another expense on the Income Statement
- **So:** Cash Interest, OID Amortization, and Loss on Unamortized OID on Repayment reduce the company’s Pre-Tax Income & Net Income
- **CFS:** Net Income is lower, and you add back the last two components since they’re both non-cash expenses
- **Effect of These Items:** Slight boost to company’s FCF because they’re non-cash items that reduce the company’s taxes, similar to Depreciation



# Does OID Really Matter?

- In most cases, **no**, not really
- Most Debt is **not** issued at a huge discount to par value; 1-3% range is typical in normal markets
- The company saves a *tiny* amount on taxes as a result, especially in countries with relatively low corporate tax rates...
- ...and it takes a lot of extra work to set up these OID calculations, especially if there are many tranches of Debt
- **So:** Be familiar with OID, but don't obsess over it





# Recap and Summary

- **Original Issue Discount (OID):** Face Value of bond is \$100, but issued for \$90... due to interest rate < market interest rate
- **No Principal Repayments:** Amortize \$10 OID / # Years to Maturity each year; expense on IS, add back on CFS, and increase Book Value of Debt on BS; still pay Interest based on \$100 Face Value
- **Principal Repayments:** Accelerate the OID amortization based on OID after normal amortization \* % repayment in the year; normal amortization starts higher and declines each year
- **Impact:** Quite small in most cases; a bit of tax savings

