NINJA BOOK

Financial Accounting & Reporting



Bonds

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Investment in Bonds

Overview

Bonds are contractual agreements wherein the issuer (borrower) promises to pay the purchaser (lender) a principal amount at a designated future date. Besides, the issuer makes periodic interest payments based on the face amount of the bond and the stated rate of interest.

Acquisition

The initial recording will be at an amount equal to the purchase price of the bond plus other direct costs of acquisition (e.g., broker's fees). The market price of the bond is equal to the present value of the bond's interest and principal payments, discounted using the market interest rate for that type of bond. If bonds are bought between interest dates, the purchaser will have to pay an additional amount for the interest accrued on the bond since the last interest date (or the bond date, if before the first interest date). This additional amount is **not** part of the cost of the bond investment, but must be recorded separately as purchased interest (i.e., interest receivable).

Investment in Bonds	XXX
Interest Receivable	XXX
Cash	XXX

Example - 1 Acquisition of Bond and Interest Payment

X buys at par on September 1 a 10%, \$1,000 bond issued on June 1 of the same year. Interest dates are June 1 and December 1.			
Journal entries to record the purchase of the bonds and interest proceeds for the year:			
Investment in Bonds Interest Receivable (10% × \$1,000 × 3 months/12 months) Cash To record the purchase of bonds on September 1.	1,000 25 1,025		
Cash (10% × \$1,000 × 6/12) Interest Receivable Interest Income To record receipt of the interest proceeds on December 1.	50 25 25		

Premium or Discount

A premium or discount on bonds arises when the stated interest rate of the bonds is higher or lower, respectively, than the current market interest rate for similar securities. Bond premium or discount, generally, is not separately recorded by the investor (i.e., the bond investment is recorded at a single net amount).

- Amortization Premiums or discounts on bonds held long-term must be amortized from date of acquisition to maturity date and the interest method should be used to amortize these differences. Other methods of amortization (straight-line), may be used if the effects are not material.
- **Effect** The premium amortization decreases both the bond investment and investment income accounts, while the discount amortization increases both these accounts.

Example - 2 Bonds Acquired at a Discount

On June 30, year 1, ABC Corp. purchased 100 new bonds issued by XYZ Inc., with a total face amount of \$100,000 and a 10% stated interest rate. The bonds mature in ten years and pay interest semiannually, on June 30 and December 31 (20 semiannual payments). The effective yield for similar securities is 12% annually and is reflected in the \$88,530 purchase price paid by ABC Corp.

Determination of the appropriate purchase price of \$88,530 for the \$100,000 face amount of bonds by using the appropriate present value (PV) tables in Appendix D:

Maturity (face) amount to be received PV factor for a single amount (6%, 20 periods)—Table 2 Present value of the maturity amount	\$ 100,000 <u>× 0.311805</u>	\$31,180.50
Semiannual interest payment to be received (\$100,000 × 10% × 6/12) PV factor for an ordinary annuity (6%, 20 periods)—Table 4	5,000 <u>× 11.469921 ×</u>	
Present value of future interest payments Present value of the bonds		<u>57.349.60</u> <u>\$88,530.10</u>
Journal entry to record the acquisition of the bonds:		
Bond Investment	88,530	
Cash		88,530

Example - 3 Interest Income and Discount Amortization

Referring to the facts of Example 2, following are ABC Corporation's journal entries to record interest income and discount amortization for the year ending December 31, year 1, assuming (1) straight-line and (2) effective interest methods of discount amortization:

(1)	<i>Straight-Line Method:</i> Cash (\$100,000 × 0.05) Bond Investment [(\$100,000 – \$88,530) / 20] Interest Income	5,000 574*	5,574
(2)	<i>Effective Interest Method:</i> Cash (\$100,000 × 0.05) Bond Investment (balancing amount) Interest Income (\$88,530 × .06)	5,000 312*	5,312

* **NOTE:** The total amortization of the bond investment discount will be the same over the 10-year life of the bonds under either the straight-line or the interest method. As noted earlier, the amortization of the bond investment discount increases the bond *Investment* and *Interest Income* accounts. The amortization of a bond investment premium would decrease these accounts.

Exhibit 1 - Bond Premiums and Discounts



Exhibit 2 - Effective Interest Method

Bond issued at	Effective interest rate	×	Carrying value	=	Amount of interest income/expense
Discount	Constant		Increasing		Increasing
Premium	Constant		Decreasing		Decreasing

Interest Accrual

The bond interest payment date and the investor's year-end may not coincide. In this case, the investor must accrue the interest income earned through year-end, including the required amortization of premium or discount.

Example - 4 Different Year-End and Payment Dates

Referring to the facts of Example 2 again, except that ABC Corporation's year-end is March 31. Following are ABC Corporation's journal entries to record interest income and discount amortization for the year ending March 31, year 2, assuming (1) straight-line and (2) effective interest methods of discount amortization:

(1)	Straight-Line Method: Accrued Interest Receivable (\$100,000 × 0.05 × 3/6) Bond Investment (\$574 × 3/6)* Interest Income	2,500 287	2,787
(2)	Interest Method: Accrued Interest Receivable Bond Investment (balancing amount) Interest Income [(\$88,530 + \$312) × 0.06 × 3/6]	2,500 165	2,665

* On March 31, year 2, ABC records interest income for 3 months of the six-month payment. The 10% rate is an annual rate.

Sale of Bond Investments

The sale of bonds held for investment results in a gain or loss equal to the difference between the carrying amount of the bonds and the proceeds received on their disposal.

- **Carrying Amount** In determining the carrying amount of the bonds, adjustment must be made for premium or discount amortization to date of sale.
- **Bonds Sold Between Interest Dates** If the bonds are sold between interest dates, part of the proceeds must be assigned to the interest accrued since the last interest date.

Example - 5 Sale of Bond Investment

Refer to the facts of Example 2. On August 31, year 5, ABC sold the 100 bonds to LMN Inc. for \$92,000, which included interest accrued on the bonds. ABC amortized the original discount on the bonds under the straight-line method.				
Gain (or loss) to be recognized by ABC on the sale of	the bonds:			
Proceeds received Less: Amount attributable to accrued interest, \$100,00 Sale price of bonds Carrying amount* Gain (loss) on sale of bonds	00 × 0.05 × 2/6	\$	92,000 (1,667) 90,333 93,313 (2,980)	
Computation:				
* Original purchase price, June 30, year 1 Plus, discount amortization:	\$88,530			
Through June 30, year 5 (\$574 × 8)	4,592			
July 1 to August 31, year 5 (\$574 × 2/6) Carrying amount of the bonds	<u>191</u> \$93.313			

Bonds Payable

Overview

Bonds payable represent a contractual obligation to make periodic interest payments on the amount borrowed and to repay the principal upon maturity. Therefore, when a company sells a bond issue it is in effect selling two cash flows.

- **Principal** The receipt of the bond principal at its maturity.
- **Interest** The receipt of the periodic interest payments. The bonds' stated interest rate and face amount determine the amount of periodic interest payments.

Disclosures

The combined aggregate amount of maturities and sinking fund requirements for all long-term borrowings must be disclosed for each of the five years following the date of the latest balance sheet presented.

Bond Classification

- Based on Maturity
 - **Term Bonds:** Bonds maturing at a specified date with entire principal maturing on a single date at the end of the lease term.
 - **o** Serial Bonds: Bonds providing for repayment of principal in a series of installments.

Based on Security

- o Secured Bonds: Bonds secured by collateral.
- **o Debenture Bonds** Unsecured bonds; they are not supported by a lien or mortgage on specific assets

Miscellaneous

- **Callable Bonds:** Bonds that may be retired at the issuer's option. Issuer has the right to redeem (call) before maturity date.
- Convertible Bonds: Bonds that may be converted to stock at the bondholder's option.
 - ✓ With non-detachable warrants: The Convertible bond itself is converted to stock by bonds being surrendered at conversion.
 - ✓ With detachable warrants: Bonds are not surrendered upon conversion, only the warrants plus any cash representing the exercise price of the warrants are exchanged for stocks. Warrants can also be bought and sold separately from bonds.
- **Zero Coupon Bonds:** Bonds that do not have any stated rate of interest. These are sold at discount and redeemable at face value on maturity.

Interest rates

- Stated / contract / face / coupon / nominal rate Rate of interest printed on the face of the bond. It represents interest payable by the borrower
- Market / effective / yield / yield-to-maturity / real rate Prevailing market rate of interest for the bond
- Stated rate vs. Market rate:
 - $o \quad \text{Stated rate = Market rate} \rightarrow \text{Bonds will sell at face value}$
 - $o \quad \text{Stated rate} < \text{Market rate} \rightarrow \text{Bonds will sell at a discount}$
 - o Stated rate > Market rate \rightarrow Bonds will sell at a premium

Bond Issuance

When bonds are issued, only the face amount of the bonds is recorded in the *Bonds Payable* account. The bond discount or premium, if any, is recorded in a separate account and reported in the balance sheet as a direct deduction from or addition to the face amount of the bond. Recognized debt liability costs are presented in the balance sheet as a direct deduction from the amount of the debt liability, consistent with debt discounts.

Journal Entry:

Cash	XXX
Bond Issue Costs (BIC)	XXX
Discount on Bond Issuance	XXX
Premium on Bond Issuance	XXX
Bonds Payable	XXX
Accrued Interest	XXX

Example - 6 Bond Issuance

On January 1, year 1, Maple Company issued five-year bonds with a face amount of \$200,000 and a stated interest rate of 8%, payable semiannually on June 30 and December 31. The bonds were priced to yield 6%. The present value factor for the present value of \$1 for 10 periods at 3% is 0.74409; the factor for the present value of an ordinary annuity of \$1 for 10 periods at 3% is 8.53020.				
Total issue price of the bond:				
Present value of principal payment [\$200,000 × 0.74409 (PV of \$1 for 10 periods at 3%)] Present value of periodic interest payments [(\$200,000 × 8% / 2) × 8.53020] Amount received from the issuance of the bonds The stated rate of interest (8%) is above the market rate (6%). Therefore premium.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Journal entry to record the bond issuance:				
Cash Bonds Payable Bond Premium (difference)	217,060 200,000 17,060			

Bond Selling Price

To estimate the proceeds to be received from the issuance of bonds payable (ignoring bond issue costs), the present values of the bond principal and interest payments must be determined. The prevailing market (yield) rate is used to discount the cash flows to arrive at their present value.

- **Premium** A bond will sell at a **premium** (more than par) when the stated interest rate is *greater* than the market rate for similar debt.
- **Discount** A bond will sell at a **discount** (less than par) when the stated interest rate is *less* than the market rate.
- **Par** A bond will sell at **par** when the stated interest rate *equals* the market rate.

Bond Issue Costs

Bond Issue Costs include legal fees, accounting fees, underwriting commissions, registration, printing and engraving, and other such costs incurred in preparing and selling a bond issue. FASB issued Accounting Standards Update 2015-03 requiring BIC to deducted from CV of bonds and amortized using effective interest method - i.e., BIC are treated similar to discount/premium & reported as an adjustment to Bond Payable liability.

The Board released the new guidance as part of its simplification initiative.

Bond Retirement

To estimate the proceeds to be received from the issuance of bonds payable (ignoring bond issue costs), the present values of the bond principal and interest payments must be determined. The prevailing market (yield) rate is used to discount the cash flows to arrive at their present value.

- **Debt Extinguishment** A debtor considers debt to be extinguished for financial reporting purposes in the following situations:
 - Once the debtor pays the creditor, he is relieved of the debt, including the debtor's reacquisition of its outstanding debt securities through cancellation or holding as treasury bonds.
 - The debtor legally is released from being the primary obligor under the debt, either judicially or by the creditor.
- Extinguishment vs. Refunding Extinguishment includes the reacquisition of debt securities regardless of whether the securities are canceled or held as so-called treasury bonds. Refunding refers to achieving the reacquisition by the use of proceeds from issuing other securities.
- Principal and Related Amounts When all or part of a bond issue is retired before maturity, it is necessary to write off both the principal and the pro-rata portion of the unamortized premium or discount on the retired bonds. If bond issue costs were incurred and recorded as an asset (i.e., as a deferred charge), it is also necessary to write off a pro-rata portion of the bond issue costs (when a bond issue is retired before maturity). The amount of such write-off increases any loss or reduces any gain recognized on the retirement.

Journal Entry for Bond Retirement:

Example - 7 Bond Retirement

On January 1, year 1, Ben Corporation issued \$600,000 of 5% ten-year bonds at 103. Ben records amortization using the straight-line method (i.e., the amount is considered immaterial). On December 31, year 5, when the fair value of the bonds was 97, Ben repurchased \$300,000 of the bonds in the open market at 97. Ben has an effective income tax rate of 30%. Ben has recorded interest and amortization for year 5. Ben should record this retirement as follows:

Bonds Payable (\$600,000 × 0.50) Bond Premium (\$9,000 × 0.50) Taxes Payable (\$13,500 × 0.30) Cash (\$300,000 × 0.97) Gain on Bond Retirement	300,000 4,500	4,050* 291,000 9,450*
<u>*Computations:</u> Original carrying amount (\$600,000 × 103%) Premium to be amortized (\$618,000 – \$600,000) Amortization [(\$18,000 / 10) × 5 yrs.] Carrying amount of bonds, 12/31, year 5 Portion of bonds retired Carrying amount of bonds retired Purchase price (\$300,000 × 97%) Gain on bond retirement, before income taxes	\$ 18,000 <u>9,000</u>	\$ 618,000 <u>9,000</u> 609,000 <u>50%</u> 304,500 <u>291,000</u> 13,500

Premium and Discount Amortization

Straight-Line Method

Straight-line amortization calls for the amortization of an equal amount of premium or discount each period over the life of the bonds. The straight-line method is acceptable only when the premium or discount is immaterial, because it fails to determine the periodic interest expense in terms of the effective rate of interest.

- Amortization = <u>Premium or discount</u>
 - # of periods bond is outstanding
- Interest expense = (Face value * Stated interest rate) + Discount amortization Premium amortization
- Interest value is constant

Example - 8 Straight-Line Amortization

To amortize the premium in Example 6 using the straight-line method, divide the premium by the number of interest periods: 17,060 / 10 = 1,706.

Effective Interest Method

The effective interest method of amortization calls for recognizing interest expense at the effective interest rate at which the bonds were sold. Thus, this interest method overcomes the criticism of the straight-line method because it offers a more accurate measurement of interest expense. Use of the effective interest method results in a constant rate of interest when applied to the carrying amount of the bonds at the beginning of the period. As with long-term notes payable, other amortization methods may be used when the results do not differ materially from those obtained with the effective interest method.

- Interest paid = Face value * Stated interest rate
- Effective Interest (expensed on the I/S) = Carrying value * Market interest rate
- Amortization of premium/discount is the difference between effective interest rate and actual interest rate
 - **o** Amortization of premium = Interest paid Effective interest
 - **o** Amortization of discount = Effective interest Interest paid
- Since interest rate is constant every period, also called Constant yield method

Example - 9 Effective Interest Method Amortization

To amortize the premium in Example 6 using the effective interest method, multiply the carrying amount of the bond issue (\$217,060) by the effective yield (3%). This equals interest expense for the period (\$6,512). The difference between the cash interest payment and the interest expense equals the amount of premium amortization for the period (\$8,000 - \$6,512 = \$1,488). This procedure is followed each period until the maturity date when the premium (or discount) will be fully amortized.

Example - 10 Interest Payments

Journal entries to record the first four interest payments for the bonds illustrated in Example 6, rounding amounts to the nearest dollar: Interest Expense [(\$200,000 + 17,060) × 0.03] 6/30, year 1: 6,512 Bond Premium (to balance) 1,488 Cash (\$200,000 × 0.04) 8,000 12/31, year 1: Interest Expense [(\$200,000 + 15,572*) × 0.03] 6.467 Bond Premium (to balance) 1,533 Cash (\$200,000 × 0.04) 8,000 Interest Expense [(\$200,000 + 14,039*) × 0.03] 6/30, year 2: 6,421 Bond Premium (to balance) 1,579 Cash (\$200,000 × 0.04) 8,000 12/31, year 2: Interest Expense [(\$200,000 + 12,460*) × 0.03] 6,374 Bond Premium (to balance) 1.626 Cash (\$200,000 × 0.04) 8,000 * 12/31, year 1: \$17,060 - \$1,488 = \$15,572; 6/30/X2, \$15,572 - \$1,533; 12/31/X2, \$14,039 - \$1,579

Exhibit 3 - Bond Premium Amortization Table

(1)	(2) Cash interest	(3) 3% × Prior (6) interest	(4) (2) – (3) Premium	(5) Prior (5) – (4) unamortized	(6) <u>\$200,000 + (5)</u> <u>Carrying</u>
Period 0	payments	expense	amortization	<u>premium</u> \$17,060.00	<u>amount</u> \$217,060.00
U	 				
1	 \$8,000	\$6,511.80	\$1,488.20	15,571.80	215,571.80
2	8,000	6,467.15	1,532.85	14,038.95	214,038.95
3	8,000	6,421.17	1,578.83	12,460.12	212,460.12
4	8,000	6,373.80	1,626.20	10,833.92	210,833.92
5	8,000	6,325.02	1,674.98	9,158.94	209,158.94
6	8,000	6,274.77	1,725.23	7,433.71	207,433.71
7	8,000	6,223.01	1,776.99	5,656.72	205,656.72
8	8,000	6,169.70	1,830.30	3,826.42	203,826.42
9	8,000	6,114.79	1,885.21	1,941.21	201,941.21
10	8,000	6,058.79*	1,941.21	0	200,000.00

* \$0.55 difference due to rounding

Application - 1

On January 2 of the current year, West Co. issued 9% bonds in the amount of \$500,000, which mature in ten years. The bonds were issued for \$469,500 to yield 10%. Interest is payable annually on December 31. West uses the effective interest method of amortizing bond discount. In its June 30 current year balance sheet, what amount should West report as bonds payable?

- a. \$469,500
- b. \$470,475
- c. \$471,025
- d. \$500,000
- (b) \$469,500 + \$975 = \$470,475

Bonds payable carrying amount, 1/2	\$ 469.500	
	· · · · · · · · ·	
Effective interest rate (10% × 6/12)	<u>× 5%</u>	
Interest expense, 1/2 - 6/30	23,475	
Interest payment [\$500,000 × (9% × 6/12)]	(22,500)	
Amortization of discount, 1/2 - 6/30	\$	<u>975</u>

Amortization Effects

Amortization of a bond premium decreases interest expense and the carrying amount of the bond for the issuer, while the amortization of a bond discount increases the issuer's interest expense and the carrying amount of the bond.

	Effective Intere	Straight Line Method (non-GAAP)	
	Amortization of Discount	Amortization of Premium	Amortization of Premium / Discount
Carrying amount	Increases each period (but remains lower than SLM)	Decreases each period (but remains higher than SLM)	Amortization of Premium decreases each period, Amortization of Discount - increases each period
Interest expense	Increases each period with increase in CV	Decreases each period with decrease in CV	Constant each period
Amount of Amortization	Increases each period	Increases each period	Constant each period (straight line)

Interest and Year-End Dates Differ

An adjusting entry is required when interest dates do not coincide with the end of the accounting period, to record accrued interest expense and bond premium or discount amortization.

Interest	XXX	
Premium amortization pro-rata (if any)	XXX	
Interest payable		XXX
Discount amortization pro-rata (if any)		XXX

Example - 11 Interest and Year-End Dates Differ

In Example 6, assume the end of the accounting period comes 3 months after the bonds are issued.			
Journal entry required at 3/31, year 1:			
Interest Expense (\$6,512 × 3/6)	3,256		
Bond Premium (\$1,488 × 3/6)	744		
Accrued Interest Payable (\$8,000 × 3/6)		4,000	

Issuance Between Interest Dates

Bonds payable are often sold between interest dates. If bond issue costs or a bond premium or discount is involved, it must be amortized over the period the bonds are outstanding.

Cash		XXX	
	Bonds Payable	>	XX
	Accrued Interest payable	>	XX

Example - 12 Issuance Between Interest Dates

On March 1 of the current year, Trisha Company issued 12% ten-year bonds with a face amount of \$1,000. The bonds are dated January 1 of this year, and interest is payable semiannually on January 1 and July 1. The bonds were sold at par and accrued interest.

Journal entry to record the bond issuance:

Cash	1,020	
Bonds Payable (face amount)		1,000
Accrued Interest Payable (\$1,000 × 0.12 × 2/12)		20

Bonds with Additional Features

Serial Bonds

A set of bonds issued at the same time but having different maturity dates. These are also called installment bonds because they provide a series of installments for repayment of principal.

- **Present Values** To determine the selling price of serial bonds, compute the present value of the principal and interest payments for each series separately, then total the present value of each series.
- **Declining Principal** The amortization of bond premium or discount on serial bonds requires the recognition of a declining debt principal. Successive bond years cannot be charged with equal amounts of premium or discount because of a shrinking debt and successively smaller interest payments.
- **Amortization of Premium/Discount** Bond premium or discount, if material, should be amortized using the effective interest method.

Bonds with Detachable Stock Warrants

When bonds are issued with detachable stock warrants, allocation of the proceeds between the warrants and the debt security based on relative fair values is required. If the FV of one security is not determinable, the proceeds are assigned based on the FV of the other security. The rationale behind this allocation is that, even if the warrants are exercised, the debt will still remain. There are two separate elements, the debt and the warrants. The warrants are accounted for as paid-in capital.

Example - 13 Detachable Stock Warrants

On November 1, year 1, two hundred \$1,000, 8% bonds due October 31, year 5, were sold at 103 with one detachable stock purchase warrant attached to each bond. The fair value of the bonds without the stock warrants is 98. The fair value of the warrants has not been determined. Each warrant entitles the holder to purchase ten shares of common stock (par \$10) at \$30 per share.

Borrower			Investor (net)	
Cash Bond Discount	206,000 4,000	Bond Investment Stock Warrants		196,000 10,000
Bond Payable APIC-Stock Warrants	200,0 10,0			206,000
Computations:				
Cash proceeds [(200 × \$1,00) Proceeds allocated to bonds Proceeds allocated to warrant	(200 × \$1,000 × §	8%)	\$ 206,000 <u>196,000</u> \$ 10,000	
Bond discount (\$200,000 – \$ ²	196,000)		<u>\$ 4,000</u>	
If 100 of the 200 stock purcha	se warrants are o	exercised:		
Borrower			Investor (net)	
Cash (100 × 10 × \$30) APIC-Stock Warrants (\$10,000 × 100/200)	30,000 5,000	Inv. in Common S (1,000 × \$35) Stock Warrant		35,000
Common Stock	0,000	(\$10,000 × 10	-	5,000
(1,000 × \$10 PV) APIC-Common St. (to bal.)	10,0 25,0	00 Cash (100 × 1	,	30,000

Convertible Bonds

Convertible bonds provide the bondholder the option of converting the bond to capital stock, typically common stock. Convertible debt securities are those debt securities which are convertible into common stock of the issuer or an affiliated company at a specified price at the option of the holder and which are sold at a price or have a value at issuance not significantly in excess of the face amount. In most cases such securities also are callable at the option of the issuer and are subordinated to nonconvertible debt.

- **Terms** The terms of convertible debt securities generally include the following:
 - An interest rate which is lower than the issuer could establish for nonconvertible debt.
 - An initial conversion price which is greater than the market value of the common stock at time of issuance.
 - A conversion price which does not decrease except pursuant to anti-dilution provisions.
- **General** No proceeds from the debt issue are to be assigned to the conversion feature (even though the convertible bonds may sell for substantially more than similar nonconvertible bonds). The reason for no allocation to equity is that the debt cannot be separated from the conversion feature, as would be the case with detachable stock warrants.

- Book Value Method The conversion of the bonds into common stock is generally recorded by crediting the paid-in capital accounts for the carrying amount of the debt at the date of the conversion; thus, no gain or loss is recognized upon conversion. Costs associated with the conversion are **not** recognized as an expense. The paid-in capital accounts are credited for the carrying amount of the debt converted, less any costs associated with the conversion.
- **Market Value Method** Alternately, the market value method recognizes a gain or loss on retirement equal to the difference between the carrying amount of the debt at the date of the conversion and the fair value of the shares issued upon conversion.

Book value method (GAAP)	Market value method (non-GAAP)	
Value at book value of the bonds	Value at market price of the stocks or bonds,	
	whichever is more reliable	
No gain or loss balance is plugged to Additional	Plug the gain or loss on redemption	
paid-in capital		
	Bonds Payable XXX	
Bonds Payable XXX	Premium XXX	
Premium XXX	Loss (plug) XXX	
Bond Issue Costs XXX	Bond Issue Costs XXX	
Common Stock (par) XXX	Common Stock (par) XXX	
APIC (plug) XXX	Addl. Paid-in Capital XXX	
	Gain (plug) XXX	

Example - 14 Bond Conversion

Bonds with a face amount of \$10,000 and a carrying amount of \$10,400 are converted into 100 shares of \$50 par common stock with \$90 fair value.

Journal entries recording conversion of the bonds in the books of the issuer under (a) the book value method, and (b) the market value method:

(a)	<i>Book Value Method:</i> Bonds Payable Bond Premium	10,000 400		
	Common Stock (100 × \$50 PV)		5,000	
	Add'l. Paid-In Capital (to balance)		5,400	
(b)	Market Value Method:			
	Bonds Payable	10,000		
	Bond Premium	400		
	Common Stock (100 × \$50 PV)		5,000	
	Add'I. Paid-In Capital [100 × (\$90 FV – \$50 PV)]		4,000	
	Gain on Conversion (\$10,400 – \$9,000)		1,400	

• Induced Conversions Generally a gain or loss is required to be recognized on the *retirement* of debt, including certain convertible debt. However, this does not apply to debt that is *converted* to equity securities of the debtor pursuant to conversion privileges provided in the terms of the debt at issuance. The conversion of convertible debt securities to stock may or may not result in gain recognition, depending on whether the book value or the market value method is used. (Note: the same method must be consistently applied.)

Bond Journal Entries

Premiums and Discounts

Example - 15 Straight-Line Premium Amortization

On January 1, year 1, a \$1,000 face value, two-year bond, with a 10% coupon rate of interest is sold for 104. The effective yield is 7.8%. Interest is paid semi-annually on June 30 and December 31. Journal entries using the straight-line method to amortize the premium: Borrower Investor January 1, year 1 Cash 1,040 Invest. in Bond 1,040 Bond Payable 1,000 Cash 1,040 Premium 40 June 30, year 1 Interest Expense 40 Cash 50 Premium 10 10 Invest. in Bond Cash 50 Interest Income 40 Same journal entries for next 3 periods. Same journal entries for next 3 periods. December 31, year 2 **Bond Payable** 1,000 1,000 Cash Cash 1,000 Invest. in Bond 1,000

Example - 16 Effective Interest Method of Premium Amortization

Same as Example 15, except Borrower	-	effective inte	erest method to amortize the pr	emium: estor	
January 1, year 1 Cash Bond Payable Premium	1,040	1,000 40	Invest. in Bond Cash	1,040	1,040
June 30, year 1 Interest Expense [(\$1,000 + \$40) × 3.9%] Premium Cash	41 9	50	Cash Invest. in Bond Interest Income	50	9 41
December 31, year 1 Interest Expense [(\$1,000 + 30.56) × 3.9%] Premium Cash	40 10	50	Cash Invest. in Bond Interest Income	50	10 40
June 30, year 2 Interest Expense [(1,000 + 20.75) × 3.9%] Premium Cash	40 10	50	Cash Invest. in Bond Interest Income	50	10 40
December 31, year 2 Interest Expense [(1,000 + 10.56) × 3.9%] Premium Cash	39 11	50	Cash Invest. in Bond Interest Income	50	11 39
Bond Payable Cash	1,000	1,000	Cash Invest. in Bond	1,000	1,000

Example - 17 Straight-Line Discount Amortization

Same as Example 15, exc	ept that the bo	ond is sold fo	or 96 and the effective interes	t rate is 12.3%	
Borro	wer		In	vestor	
January 1, year 1					
Cash	960		Invest. in Bond	960	
Discount	40		Cash		960
Bond Payable		1,000			
June 30, year 1					
Interest Expense	60		Cash	50	
Cash		50	Invest. in Bond	10	
Discount		10	Interest Income		60
Same journal entries for ne	ext 3 periods.		Same journal entries for	r next 3 period	S.
December 31, year 2					
Bond Payable	1,000		Cash	1,000	
Cash	·	1,000	Invest. in Bond		1,000

Example - 18 Effective Interest Method of Discount Amortization

Borrower		Inves	stor
January 1, year 1 Cash Discount	960 40	Invest. in Bond Cash	960 960
Bond Payable June 30, year 1 Interest Expense [(1,000 – 40) × 6.15%] Cash Discount	1,000 59 50 9	Cash Invest. in Bond Interest Income	50 9 59
December 31, year 1 Interest Expense [(\$1,000 – 30.96) × 6.15%] Cash Discount	60 50 10	Cash Invest. in Bond Interest Income	50 10 60
June 30, year 2 Interest Expense [(1,000 – 21.36) × 6.15%] Cash Discount	60 50 10	Cash Invest. in Bond Interest Income	50 10 60
December 31, year 2 Interest Expense [(1,000 – 11.18) × 6.15%] Cash Discount	61 50 11	Cash Invest. in Bond Interest Income	50 11 61

Mid-Period Issue

Example - 19 Issuance Between Interest Dates

\$1,000 face value, 2-year bond with a 10% coupon rate of interest is sold on April 1 of the current year at par. Interest is paid semi-annually on June 30 and December 31.

Borrower			Investor		
April 1 Cash Bond Payable Interest Payable	1,025	1,000 25	Invest. in Bond Interest Receivable Cash	1,000 25	1,025
<i>June 30</i> Interest Expense Interest Payable Cash	25 25	50	Cash Interest Income Interest Receivable	50	25 25

Warrants

Example - 20 Detachable Warrants

On January 1 of the current year, 100 bonds with 1,000 face values and each with 20 detachable stock warrants ($100 \times 20 = 2,000$) are sold at 105. Twenty warrants and 800 may be converted into one share of 200 par value common stock. The warrants have a fair value of 12,000 and expire on July 1. One half of the warrants are exercised on June 30 and the other half expire on July 1.

Borrower			Investor			
January 1 Cash Discount Bond Pay APIC—Wa	able	105,00 7,00		Invest. in Bond Warrants Cash	93,000 12,000	105,000
June 30 Cash APIC—Warrant Common APIC	Stock	40,00 6,00		Invest. in Stock Cash Warrants	46,000	40,000 6,000
July 1 APIC—Warrant APIC		6,00	0 6,000	Loss on Investment Warrants	6,000	6,000
Computations: Warrant \$12,000 × 50% = \$ 6,000						
Cash	\$ 800 ×	50 =	<u>40,000</u>			
Common stock	\$200 par ×	50 =	46,000 (10,000) \$ 36,000			

Convertible Bonds

Example - 21 Convertible Bonds, Book Value Method

On January 1 of the current year, 100 bonds with 1,000 face values and each with 20 nondetachable stock warrants ($100 \times 20 = 2,000$) are sold at 105. Twenty warrants, one bond, and 800 may be converted into one share of 200 par value common stock. 50% of the bonds are converted on June 30, and the book value method is used to record the conversion.

Borrower			Investor			
January 1 Cash Bond Payable Premium	105,000	100,000 5,000	Invest. in Bond Cash	105,000	105,000	
June 30 Cash Bond Payable Premium Common Stock APIC	40,000 50,000 2,500	10,000 82,500	Invest. in Stock Cash Invest. in Bond	92,500	40,000 52,500	
Computations: Bond Premium Cash	\$1,000 × 50 = \$5,000 × 50% = \$ 800 × 50 =	\$50,000 2,500				
Common stock	\$200 par × 50 =	<u>40.000</u> 92,500 (10.000) \$82,500				

Example - 22 Convertible Bonds, Market Value Method

On January 1 of the current year, 100 bonds with \$1,000 face values and each with 20 nondetachable stock warrants ($100 \times 20 = 2,000$) are sold at 105. Twenty warrants, one bond, and \$800 may be converted into one share of \$200 par value common stock. All of the bonds are converted on June 30. The market value method is used to record the conversion and the fair value of the stock on the date of conversion is \$2,000.

Borrower			Investor			
January 1 Cash Bond Payab Premium	105,000 le	100,000 5,000	Invest. in Bond Cash		105,000	105,000
June 30 Cash Bond Payable Premium Loss on Convers Common St APIC	,	20,000 180,000	Invest. in Stock Cash Invest. in Bond Gain on Conve		200,000	80,000 105,000 15,000
Computations:			Common stock	\$ 20,000		
Bond	\$1,000 × 100=	\$ 100,000	APIC	<u>180,000</u>		
Cash	\$ 800 × 100=	80,000			\$ 200,	000
Common stock	\$200 par ×100=	20,000	Bond	100,000	,	
APIC	(\$2,000 - 200) ×100=	180,000	Premium	5,000		
		100,000	Cash	<u>80,000</u>		
			Gain			5.000) 5.000

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