

# CDX User Manual

## MHT Tasksheets

CDX Medium Heavy

JONES & BARTLETT LEARNING

**CDX** **Automotive**

[www.cdxauto.com/TrainingLibrary](http://www.cdxauto.com/TrainingLibrary)

# FINDING TASKSHEETS

JONES & BARTLETT LEARNING

**CDX** **Automotive**

[www.cdxauto.com/TrainingLibrary](http://www.cdxauto.com/TrainingLibrary)

Log in with your *teacher* account that you were given.



The screenshot displays the CDX Automotive website interface. At the top right, there is a "Log in" button with a right-pointing arrow icon. A red arrow points to this button. Below the header, the word "Automotive" is partially visible on the left, and "HEAVY VEHICLE" is centered in a yellow banner. On the left side, there is a vertical list of course categories numbered 3 through 7: 3 SUSPENSION, STEERING, 4 DRIVE TRAINS, 5 HVAC, 6 HYDRAULICS, and 7 PREVENTATIVE MAINTENANCE INSPECTION. To the right of these categories is a large image of a truck on a lift with the text "PREVENTATIVE MAINTENANCE INSPECTION" overlaid. To the right of the image are two vertical purple buttons labeled "Course PRE-TEST" and "Course FINAL EXAM". At the bottom, there is a white box with the text "Available courses".

JONES & BARTLETT LEARNING

**CDX** Automotive

[www.cdxauto.com/TrainingLibrary](http://www.cdxauto.com/TrainingLibrary)

Choose the area you are working in, to find tasksheets. There is also a link to tasksheets in the media gallery:

The screenshot displays the CDX Automotive training library interface. At the top, a navigation bar includes a 'My courses' dropdown and a 'HEAVY VEHICLE' section header. Below this, a horizontal menu lists seven course categories: 1. FOUNDATION & SAFETY, 2. ELECTRICAL & ELECTRONIC SYSTEMS, 3. SUSPENSION, STEERING, & BRAKES, 4. DRIVE TRAINS, 5. HVAC, 6. HYDRAULICS, and 7. PREVENTATIVE MAINTENANCE INSPECTION. The 'DRIVE TRAINS' category is highlighted with a large image of a drivetrain component, with red arrows pointing to 'Clutches', 'Standard Transmissions', 'Automated Transmissions', and 'Drive Shafts & Axles'. To the right of the 'DRIVE TRAINS' image are three vertical buttons: 'Course PRE-TEST', 'MEDIA GALLERY', and 'Course FINAL EXAM'. A red arrow points from the 'MEDIA GALLERY' button to the 'Available courses' section below. The 'Available courses' section lists two courses: 'FOUNDATION & SAFETY' (Teacher: Brian Rooney, Example User) and 'ELECTRICAL & ELECTRONIC SYSTEMS' (Teacher: Brian Rooney).

My courses ▾

HEAVY VEHICLE

1 FOUNDATION & SAFETY

2 ELECTRICAL & ELECTRONIC SYSTEMS

3 SUSPENSION, STEERING, & BRAKES

4 DRIVE TRAINS

DRIVETRAINS

Clutches

Standard Transmissions

Automated Transmissions

Drive Shafts & Axles

Course PRE-TEST

MEDIA GALLERY

Course FINAL EXAM

5 HVAC

6 HYDRAULICS

7 PREVENTATIVE MAINTENANCE INSPECTION

Available courses

FOUNDATION & SAFETY

Teacher: Brian Rooney

Teacher: Example User

ELECTRICAL & ELECTRONIC SYSTEMS

Teacher: Brian Rooney

Open the tasksheet menu either through Study Tools, or, lower on the left hand menu:

Home > DRIVE TRAINS > DRIVE SHAFTS & AXLES > Systems Chapter 46 - Driveshaft Systems

## DRIVE TRAINS

### DRIVE SHAFTS & AXLES

Systems Chapter 46 - Driveshaft Systems	KNOW	Driveshaft Systems Pretest	1. Driveshaft Systems	2. Components of Driveshafts/Drive Lines	3. Operation of Driveshafts	4. Troubleshooting
Systems Chapter 47 - Heavy-Duty Truck Drive Axles	KNOW	5. Inspection and Maintenance of Driveshafts	6. Driveshaft Systems Procedures	Driveshaft Systems Study Tools	Driveshaft Systems Chapter	
Systems Chapter 48 - Servicing and Maintaining Drive Axles	KNOW					
Systems Chapter 49 - Hybrid Drive Systems and Series-Type Hybrid Drives	KNOW					
Systems Chapter 50 - Allison EV Drive Hybrid Systems	KNOW					
Drive Shafts & Axles Tasksheets	DO					

PROVE Chapter 46 Pretest

Select tasksheets from the list:

## DRIVE TRAINS


---

### DRIVE SHAFTS & AXLES

Systems Chapter 46 - Driveshaft Systems	KNOW
Systems Chapter 47 - Heavy-Duty Truck Drive Axles	KNOW
Systems Chapter 48 - Servicing and Maintaining Drive Axles	KNOW
Systems Chapter 49 - Hybrid Drive Systems and Series-Type Hybrid Drives	KNOW
Systems Chapter 50 - Allison EV Drive Hybrid Systems	KNOW
Drive Shafts & Axles Tasksheets	DO

#### Drive Shafts & Axles Tasksheets

DO	Drive Shafts & Axles Tasksheets
----	---------------------------------



You will now see the tasksheet list. You can choose what Tasksheet Topic Group you want at the top, or, just scroll down.

[Home](#)
[Glossary](#)
[Help](#)

### Drive Trains Tasksheets

- Clutch 1
- Clutch 2
- Transmission - Introduction
- Transmission - Mechanical Component Inspection
- Transmission - Power Take-Offs and Shift Controls
- Transmission - Electronic Control Diagnosis
- Driveshaft and Universal Joint
- Drive Axle 1
- Drive Axle 2
- Drive Axle 3
- Drive Axle 4

CDX Tasksheet Number	NATEF 2014 Tasksheet Title	NATEF 2014 Reference Number	NATEF 2014 Priority Level
<b>Tasksheet Group Title Page</b>	<b>Clutch 1</b>		
H114	Identify causes of clutch noise, binding, slippage, pulsation, vibration, grabbing, dragging, and chatter problems; determine needed action.	2A1	P-1
H115	Inspect and adjust clutch linkage, cables, levers, brackets, bushings, pivots, springs, and clutch safety switch (includes push and pull-type assemblies); check pedal height and travel; perform needed action.	2A2	P-1
H116	Inspect, adjust, repair, and replace hydraulic clutch slave and master cylinders, lines, and hoses; bleed system.	2A3	P-2
H117	Inspect, adjust, lubricate, or replace release (throw-out) bearing, sleeve, bushings, springs, housing, levers, release fork, fork pads, rollers, shafts, and seals.	2A4	P-1
<b>Tasksheet Group Title Page</b>	<b>Clutch 2</b>		
H118	Inspect, adjust, and replace single-disc clutch pressure plate and clutch disc.	2A5	P-1
H119	Inspect, adjust, and replace two-plate clutch pressure plate, clutch discs, intermediate plate, and drive pins/lugs.	2A6	P-1
H120	Inspect and/or replace clutch brake assembly; inspect input shaft and bearing retainer; perform needed action.	2A7	P-1
H121	Inspect, adjust, and replace self-adjusting/continuous-adjusting clutch mechanisms.	2A8	P-1
H122	Inspect and replace pilot bearing.	2A9	P-1
H123	Remove and reinstall flywheel, inspect mounting area on crankshaft, rear main oil seal, and measure crankshaft end play; determine needed action.	2A10	P-1

To open a tasksheet, just select the title. This will open the tasksheet in a “lightbox” that can be closed when you are done.

[Home](#) [Glossary](#) [Help](#)

### Drive Trains Tasksheets

- Clutch 1
- Clutch 2
- Transmission - Introduction
- Transmission - Mechanical Component Inspection
- Transmission - Power Take-Offs and Shift Controls
- Transmission - Electronic Control Diagnosis
- Driveshaft and Universal Joint
- Drive Axle 1
- Drive Axle 2
- Drive Axle 3
- Drive Axle 4

CDX Tasksheet Number	NATEF 2014 Tasksheet Title	NATEF 2014 Reference Number	NATEF 2014 Priority Level
<b>Tasksheet Group Title Page</b>	<b>Clutch 1</b>		
H114	Identify causes of clutch noise, binding, slippage, pulsation, vibration, grabbing, dragging, and chatter problems; determine needed action.	2A1	P-1
H115	Inspect and adjust clutch linkage, cables, levers, brackets, bushings, pivots, springs, and clutch safety switch (includes push and pull-type assemblies); check pedal height and travel; perform needed action.	2A2	P-1
H116	Inspect, adjust, repair, and replace hydraulic clutch slave and master cylinders, lines, and hoses; bleed system.	2A3	P-2
H117	Inspect, adjust, lubricate, or replace release (throw-out) bearing, sleeve, bushings, springs, housing, levers, release fork, fork pads, rollers, shafts, and seals.	2A4	P-1
<b>Tasksheet Group Title Page</b>	<b>Clutch 2</b>		
H118	Inspect, adjust, and replace single-disc clutch pressure plate and clutch disc.	2A5	P-1
H119	Inspect, adjust, and replace two-plate clutch pressure plate, clutch discs, intermediate plate, and drive pins/lugs.	2A6	P-1
H120	Inspect and/or replace clutch brake assembly; inspect input shaft and bearing retainer; perform needed action.	2A7	P-1
H121	Inspect, adjust, and replace self-adjusting/continuous-adjusting clutch mechanisms.	2A8	P-1
H122	Inspect and replace pilot bearing.	2A9	P-1
H123	Remove and reinstall flywheel, inspect mounting area on crankshaft, rear main oil seal, and measure crankshaft end play; determine needed action.	2A10	P-1



# FILLING, SAVING, AND PRINTING

JONES & BARTLETT LEARNING

**CDX**  **Automotive**

[www.cdxauto.com/TrainingLibrary](http://www.cdxauto.com/TrainingLibrary)

You can fill the tasksheet and print right in the browser.  
If you wish to fill and SAVE, you may need to save first, and fill the PDF on your computer. Not in the browser.

ibber/view.php?id=316

MEDIUM HEAVY TRUCK (MHT) - Drive Trains Tasksheets - Google Chrome

https://prod.mht2015.integr8cms.net/index.php/site-content/1/5582#5615

Home / Glossary / MHT

Student/Intern information:

Name 12344 Date \_\_\_\_\_ Class \_\_\_\_\_

Vehicle used for this activity:

Year \_\_\_\_\_ Make \_\_\_\_\_ Model \_\_\_\_\_

Odometer \_\_\_\_\_ VIN \_\_\_\_\_

**TASK** Inspect and adjust clutch linkage, cables, levers, brackets, bushings, pivots, springs, and clutch safety switch (includes push- and pull-type assemblies); check pedal height and travel; perform needed action. **NATEF 2A2**

CDX Tasksheet Number: H115

1. Reference the appropriate workshop manual.

a. Inspect and adjust the clutch linkage.

i. Meets the manufacturer's specifications: Yes: \_\_\_\_\_ No: \_\_\_\_\_

ii. If no, list your recommendations for any rectifications: \_\_\_\_\_

1234

Back Alt+Left Arrow

Forward Alt+Right Arrow

Reload Ctrl+R

Save as... Ctrl+S

Print... Ctrl+P

Translate to English

View page source Ctrl+U

View page info

Rotate clockwise Ctrl+]

Rotate counterclockwise Ctrl+[

LastPass

Inspect element Ctrl+Shift+I

Time off: \_\_\_\_\_

Time on: \_\_\_\_\_

Total time: \_\_\_\_\_

ch cables, levers, and brackets.

rer's specifications: Yes: \_\_\_\_\_ No: \_\_\_\_\_

mendations for any rectifications:

ch linkage, cables, levers, brackets, bushings, pivot, and

rer's specifications: Yes: \_\_\_\_\_ No: \_\_\_\_\_

mendations for any rectifications:

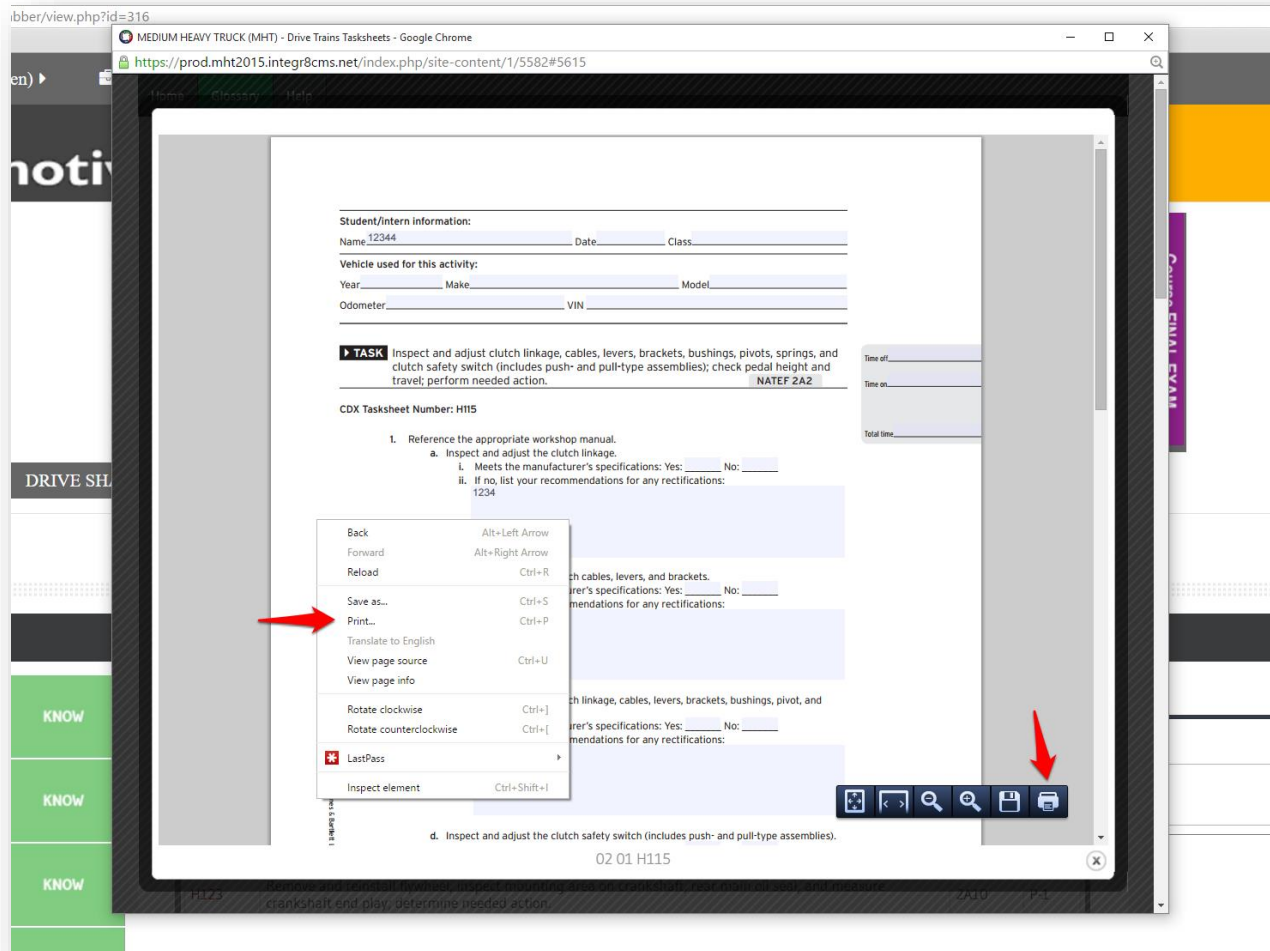
d. Inspect and adjust the clutch safety switch (includes push- and pull-type assemblies).

02 01 H115

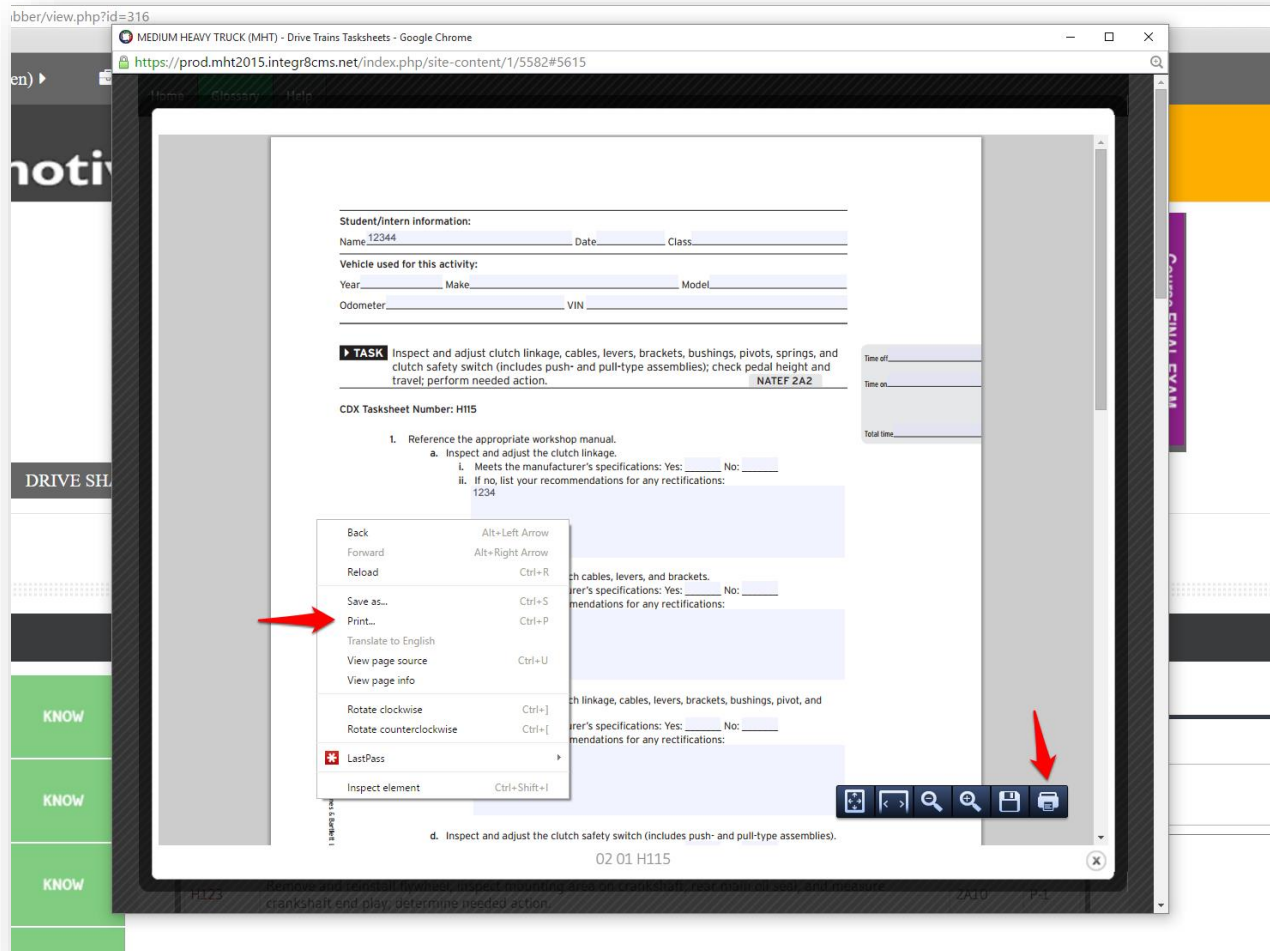
H123 crankshaft end play, determine needed action

2A10 P-1

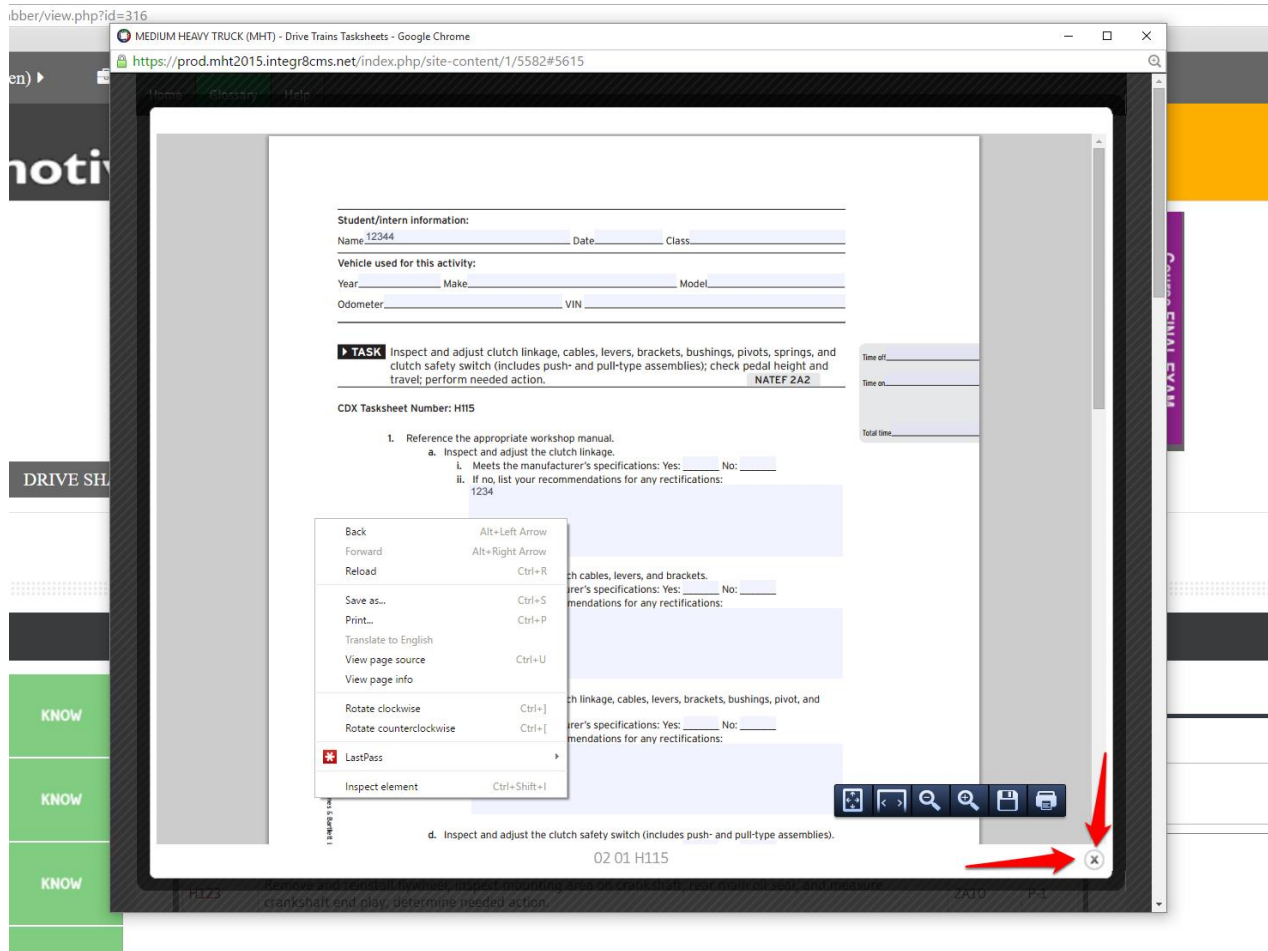
To print, hover your cursor in the bottom right to use Adobe Reader's tasksheet tools.  
OR, you may need to right click, and select "print".



To save, hover your cursor in the bottom right to use Adobe Reader's tasksheet tools.  
OR, you may need to right click, and select "Save As".



To close, just close the tasksheet lightbox by clicking the close “X” in the bottom right.  
This will bring you back to your list of tasksheets.



For more tutorials and support,  
please visit our support pages:

<http://cdxauto.com/support>