## LAB - CV Joint Service

Students:	1	Date:
	2	Block:
	3	

Fill in each box with the appropriate information. Place checks (  $\checkmark$  ) where applicable

VEHICLE IDENTIFICATION				
Year:	d Pi	Make:	- °C	
Model:		Colour:	Sec.	1
VIN Number:				Ň
SAFETY				
🗅 🛛 Always u	se jack stands when worki	ng under a vehicl	e	0 0
INSPECTION				(Circle)
Clicking noise wh (Indicates a wo	nen turning? rn or damaged outboard jc	vint - Replace joir	[ 1t)	YES ] [ NO ]
Clunk during acc (Indicates a wo	celeration? rn or damaged inboard join	t - Replace joint	)	YES ] [ NO ]
A shudder or vil (Indicates a dai	bration on acceleration? maged or sticking inboard	joint - Replace jo	int)	YES ] [ NO ]
CV Boot is britt (Indicates boot	tle or hard? is aged and will fail soon -	Replace boot)		YES][NO]
Greasy spray around boot? (Indicates boot has failed - Replace boot)		YES ] [ NO ]		
Tears or holes in boot? [YES][NC (Indicates boot has failed - Replace boot)			[YES][NO]	
REMOVAL				
1 Loosen the	Loosen the large axle shaft retaining nut. It is usually installed quite tightly			
2 Jack up th	Jack up the front of the vehicle and place jack stands under the frame			
STOPIIII	INST	TRUCTOR'S SI	IGNATURE:	

3	Remove the wheels and finish removing the large nut and washer. Place in a secure place so they don't get lost!	
4	Disconnect the lower ball joint from the hub assembly. Use two hammers and a pry bar to "pop" the taper out once you have removed the nut and cotter pin.	
5	<ul> <li>The hub can now be pulled away from the vehicle to remove the axle. Depending on your vehicle, you</li> <li>MAY need to do ONE or more of the following: <ol> <li>Remove the brake caliper and move away to allow the hub to be pulled.</li> </ol> </li> <li>DO NOT hang the caliper by the brake line!!!! <ol> <li>Disconnect the hub from the strut</li> </ol> </li> <li>Mark the alignment of any eccentric bolts!!!! <ol> <li>Disconnect the steering tie rod from the hub</li> </ol> </li> </ul>	
6	<ul> <li>Remove the axle from the transmission. There are three common methods to secure the inner joints to the transaxle (check the service manual for your particular vehicle):</li> <li>1. CV is bolted to a flange (merely unbolt it)</li> <li>2. A stub shaft is held in the differential by a C-Clip (differential cover must be removed, differential cross shaft is removed, axles are slid inward to remove C-Clip)</li> <li>3. A stub shaft is held in the differential by a spr slide hammer or some prying to release)</li> </ul>	ing clip (may require a
7	Remove the axle from the hub. By threading the large tight), this should require merely a tap with a hamme threads). If not, a puller will be required to push the a	e nut on the end (not r (the nut protects the axle out.

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REPL	АСЕМЕМТ			
8	Carefully remove the boot clamps taking care not to damage the boot (we will be re-using this boot if this is the school's axle). Push the boot off the joint and toward the centre of the axle to provide room			
	Remove the CV joint outer housing. Many CV joints require partial disassembly from the axle before they can be removed from the axle. There is usually a large spring clip inside a CV housing that prevents the joint from coming apart. <b>NOTE which ball when into which groove - misalignment later will</b> <b>accelerate wear!!!</b>			
9	The centre section is sometimes held to the shaft by a snap ring. Remove it to the CV joint from the axle. You may need to tap with a soft-faced hammer to remove from the axle. Sometimes they are pretty tight.			
10	Clean the CV joint with solvent, rinse and blow dry with compressed air <b>Always use eye protection with solvent and air!!</b>			
11	Inspect all components of the joint for wear, corrosion, etc.			
ST	STOP!!!! INSTRUCTOR'S SIGNATURE:			
12	Reassemble the components in the reverse order. DO NOT FORGET THE SNAP RINGS AND SPRING CLIPS!!!!!			
13	Liberally grease the joint prior to slipping the boot on. Do not get any grease on the boot sealing surfaces (the clamps won't be able to hold that)			
ST	TOP!!!! INSTRUCTOR'S SIGNATURE:			
14	Reassemble the axle on the vehicle. Be sure to follow the applicable torque specifications.			
15	You must show the assembled and installed axle to your instructor before the wheels go on			
13	Liberally grease the joint prior to slipping the boot on. Do not get any grease on the boot sealing surfaces (the clamps won't be able to hold that)			
ST	DP!!!!   INSTRUCTOR'S SIGNATURE:			