

**2016 Wyoming State FFA CDE
Agricultural Technology and Mechanical Systems
Machinery and Equipment Systems Activity- Square Baler**

Your current employer, the X-X Ranch is having you work hard to get prepared for hay season. Since you have been working for this particular ranch for a number of years, you are familiar with all aspects of the operation, so you have been put in charge of the haying operation. With the importance of maintaining equipment a priority, you are charged with ensuring that the baler is ready for use. The ranch utilizes several different baler types, but intend to put up square bales for next years use. As you are performing maintenance on the Massey Ferguson 1839 Center-line square baler, you determine a number of parts that are broken or missing, so you identify the parts that need to be replaced.

Match the number, attached to a part on the baler, with the corresponding name.

	Part Number	Part Name			Part Number	Part Name	
A	4	1	Hydraulic Bale Density pump	F	10	6	Hydraulic Pickup Lift
B	5	2	Bale Counter	G	2	7	Grease Zerk
C	7	3	Manual Hydraulic Density Control	H	8	8	PTO shaft
D	1	4	Twine boxes	I	9	9	Bale Chute
E	6	5	Fly Wheel	J	3	10	Knotter

After you have replaced the necessary parts, you further review the capabilities of the baler to be prepared for haying season.

Answer the following questions.

1. C The hydraulic pickup lift for the Massey Ferguson 1839 Center-line square baler has the added benefit of which of the following?

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|----|---|----|---|
| A. | Ideal for making larger than standard sized bales | B. | To provide a smoother ride for the driver |
| C. | For fast field change and avoiding obstacles | D. | Better fuel mileage |

2. B Which part on the baler is responsible for pushing the hay bale through the bale chute

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|----|---------------|----|-----------|
| A. | Knotter | B. | Plunger |
| C. | Bale director | D. | Fly wheel |

Criterion	Points Possible	Points Earned
Parts ID	20 (2 points each)	
Selection	8 (4 point each)	
Safety	2 (recorded by skill proctor)	