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REV. -

WORKFLOW NDWF-04942

MASS ELASTIC SYSTEM

DATE: 3/13/14

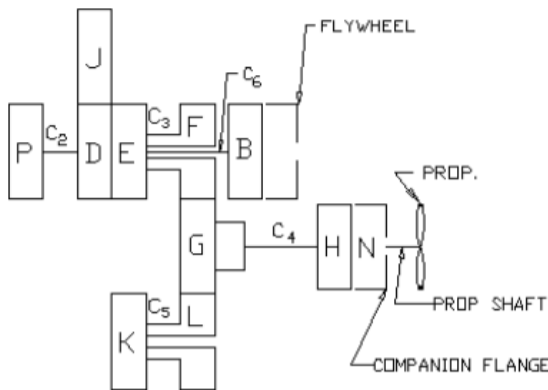
SCALE: NONE

DRAWN BY: JMF

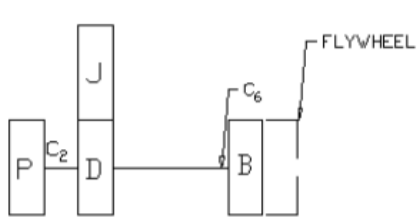
CHECKED BY: FB

APPROVED BY: DV

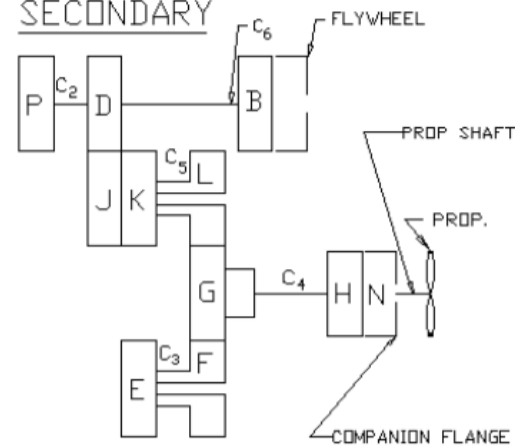
PRIMARY



NEUTRAL



SECONDARY



MASS	WR <sup>2</sup> (kg-m <sup>2</sup> )						
APPLICABLE MODEL CODES							
1 - MGX-5136RV PER 1027556							
2 - MG-5136RV PER 1027561							
RATIO:	2.52:1	2.00:1	1.79:1	1.53:1	1.25:1	1.16:1	
A DRIVE RING, FLEXIBLE COUPLING OUTER PARTS	Δ	Δ	Δ	Δ	Δ	Δ	
B FLEXIBLE COUPLING INNER PARTS, 1/4 PRIMARY SHAFT C <sub>2</sub>	Δ	Δ	Δ	Δ	Δ	Δ	
D DRIVING TRANSFER GEAR, 1/2 PRIMARY SHAFT C <sub>2</sub> , FRONT BEARING, PISTON, BACKPLATE, DRIVING PLATES	0.1030	0.1030	0.1030	0.1030	0.1030	0.1030	
E CLUTCH HUB, DRIVEN PLATES	0.0138	0.0138	0.0138	0.0138	0.0138	0.0138	
F PRIMARY PINION, THRUST WASHERS	0.0113	0.0205	0.0258	0.0341	0.0434	0.0508	
G OUTPUT GEAR, BEARING, 3/4 OUTPUT SHAFT C <sub>4</sub>	0.3381	0.2750	0.2182	0.1730	0.1114	0.0955	
H OUTPUT FLANGE, 1/4 OUTPUT SHAFT C <sub>4</sub>	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	
J DRIVEN TRANSFER GEAR, SECONDARY SHAFT, FRONT BEARING, PISTON, BACKPLATE, DRIVING PLATES	0.1059	0.1059	0.1059	0.1059	0.1059	0.1059	
K CLUTCH HUB, DRIVEN PLATES	0.0138	0.0138	0.0138	0.0138	0.0138	0.0138	
L SECONDARY PINION, THRUST WASHERS	0.0134	0.0231	0.0283	0.0363	0.0446	0.0526	
N COMPANION FLANGE - FOR USE WITHOUT SHAFT BRAKE	0.1164	0.1164	0.1164	0.1164	0.1164	0.1164	
P 1/4 PRIMARY SHAFT, REAR BEARING AND LESS PTO	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	
⊕ P2 1/4 PRIMARY SHAFT, REAR BEARING AND SAE J744 32-4 LIVE PTO ADAPTER	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	
TORSIONAL RIGIDITY (N-m/rad)							
FLEXIBLE COUPLING C <sub>1</sub>	Δ	Δ	Δ	Δ	Δ	Δ	
PRIMARY SHAFT C <sub>2</sub>	3.17E+05	3.17E+05	3.17E+05	3.17E+05	3.17E+05	3.17E+05	
PINION HUB C <sub>3</sub>	5.83E+06	8.35E+06	8.31E+06	7.75E+06	6.78E+06	6.67E+06	
OUTPUT SHAFT C <sub>4</sub>	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	3.93E+06	
PINION HUB C <sub>5</sub>	8.90E+06	9.81E+06	9.56E+06	8.75E+06	7.56E+06	7.44E+06	
PRIMARY SHAFT C <sub>6</sub> AND LESS PTO	6.32E+05	6.32E+05	6.32E+05	6.32E+05	6.32E+05	6.32E+05	
PRIMARY SHAFT C <sub>6</sub> WITH SAE J744 32-4 LIVE PTO ADAPTER	1.11E-05	1.11E-05	1.11E-05	1.11E-05	1.11E-05	1.11E-05	
MINIMUM OUTER DIAMETER OR ROOT DIAMETER (mm)							
FLEXIBLE COUPLING C <sub>1</sub>	Δ	Δ	Δ	Δ	Δ	Δ	
PRIMARY SHAFT C <sub>2</sub>	58.79	58.79	58.79	58.79	58.79	58.79	
PINION HUB C <sub>3</sub>	96.32	96.32	96.32	96.32	96.32	96.32	
OUTPUT SHAFT C <sub>4</sub>	74.45	74.45	74.45	74.45	74.45	74.45	
PINION HUB C <sub>5</sub>	102.78	102.78	102.78	102.78	102.78	102.78	
PRIMARY SHAFT C <sub>6</sub> AND LESS PTO	37.00	37.00	37.00	37.00	37.00	37.00	
PRIMARY SHAFT C <sub>6</sub> WITH SAE J744 32-4 LIVE PTO ADAPTER	37.00	37.00	37.00	37.00	37.00	37.00	
POLAR MOMENT OF INERTIA (m4)							
FLEXIBLE COUPLING C <sub>1</sub>	Δ	Δ	Δ	Δ	Δ	Δ	
PRIMARY SHAFT C <sub>2</sub>	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	1.15E-06	
PINION HUB C <sub>3</sub>	3.13E-06	3.13E-06	3.13E-06	3.13E-06	3.13E-06	3.13E-06	
OUTPUT SHAFT C <sub>4</sub>	3.02E-06	3.02E-06	3.02E-06	3.02E-06	3.02E-06	3.02E-06	
PINION HUB C <sub>5</sub>	5.64E-06	5.64E-06	5.63E-06	5.64E-06	5.64E-06	5.64E-06	
PRIMARY SHAFT C <sub>6</sub> AND LESS PTO	1.64E-07	1.64E-07	1.81E-07	1.64E-07	1.64E-07	1.64E-07	
PRIMARY SHAFT C <sub>6</sub> WITH SAE J744 32-4 LIVE PTO ADAPTER	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	1.81E-07	

NOTES:

⊕ INCLUDE MASS "P2", "P3" OR "P4" ONLY IF OPTIONAL LIVE PUMP DRIVE IS SPECIFIED. "P2", "P3" AND "P4" IS THE SAME FOR PRIMARY, SECONDARY AND NEUTRAL. "P2", "P3" OR "P4" IS USED IN PLACE OF "P" IN THE SCHEMATIC.

Δ REFER TO INPUT GROUP DRAWINGS FOR WR<sup>2</sup> AND TORSIONAL RIGIDITY DATA.

ALL WR<sup>2</sup> APPLY DIRECTLY TO NAMED MASS. TO RELATE ELSEWHERE, USE RATIO OF UNIT. RATIO OF "D" TO "J" = 1:1.

ALL MASSES HAVE RELATED MISCELLANEOUS HARDWARE INCLUDED IN WR<sup>2</sup>. WR<sup>2</sup> OF OIL IS OMITTED.