Revised 10/63

POWER TAKE OFF KIT for/725

ARTICLE 211

This Used from 1961 to 10/63

Simplicity®

POWER TAKE-OFF

For operation of Rotary Mower and Sickle Bar attachments, a power take-off attachment is required. This consists of the power take-off assembly, "V" pulley for bevel gear shaft, drive belt, belt guard, and belt stop packaged in one carton.

For ease of attachment follow the steps outlined below.

1. Mount "V" Pulley to shaft of bevel gear assembly (see figure 1) and secure in place with key and set screw. Hub of "V" pulley is to face inwards. Place drive belt on "V" pulley and mount belt guard to the seat support as shown in figure 1. Allow approximately 3/16" clearance between the outside of the belt and the belt guard.

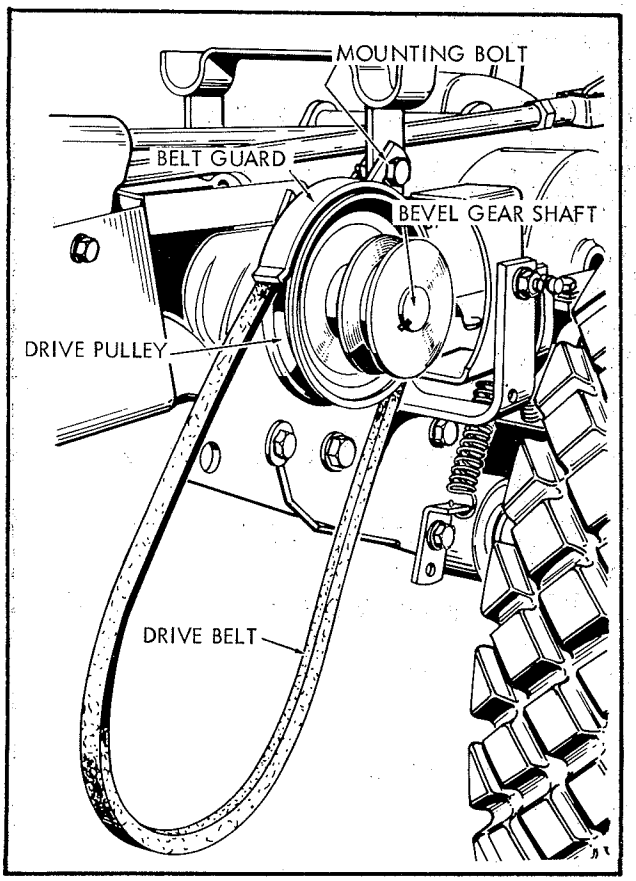


Fig. 1

2. Holding the power take-off assembly in left hand as shown in figure 2, position the tube of the drive bracket assembly between the bevel gear housing side plates. Align the holes in side plates with the hole in drive bracket assembly tube and insert pivot pin through holes in side plates and drive bracket assembly tube.

3. Push pivot pin through the holes in bracket and tube until the position of cotter pin hole in pivot pin is as shown in figure 3. Secure in position with cotter pin furnished.

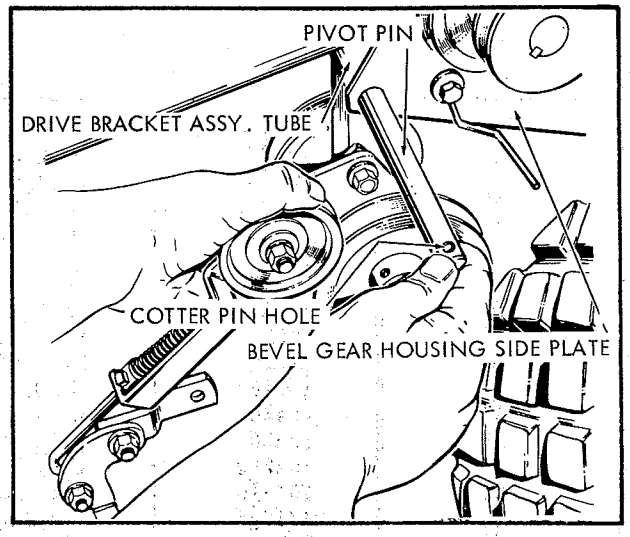


Fig. 2

4. Remove hex cap screw "D" from frame of tractor and mount bracket in place under lift lever quadrant. See figure 4. Position the pivot bar assembly flush against bottom of lift quadrant and re-install hex cap screw and tighten securely. Check alignment of drive pulley on bevel gear shaft, driven pulley of power take-off, and idler pulley, and adjust driving pulley if necessary.

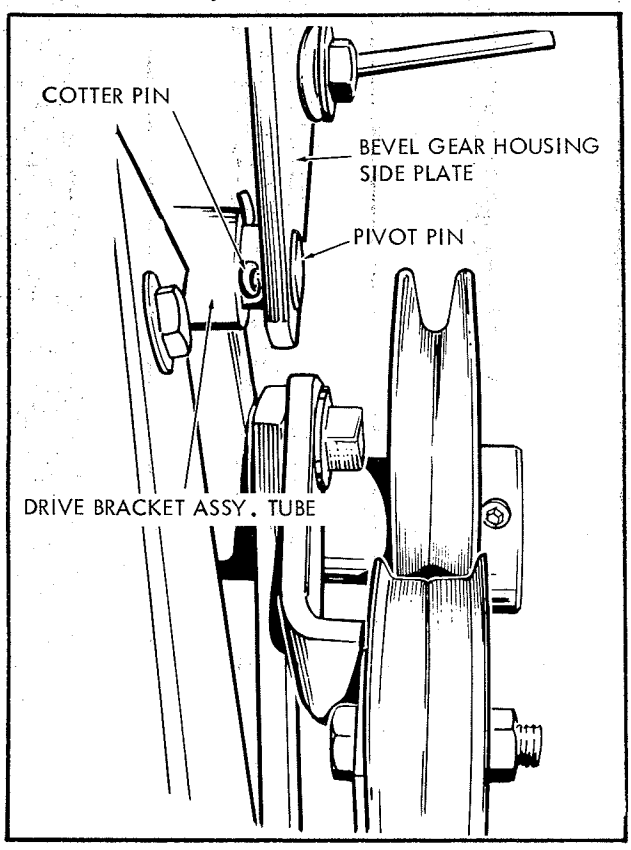


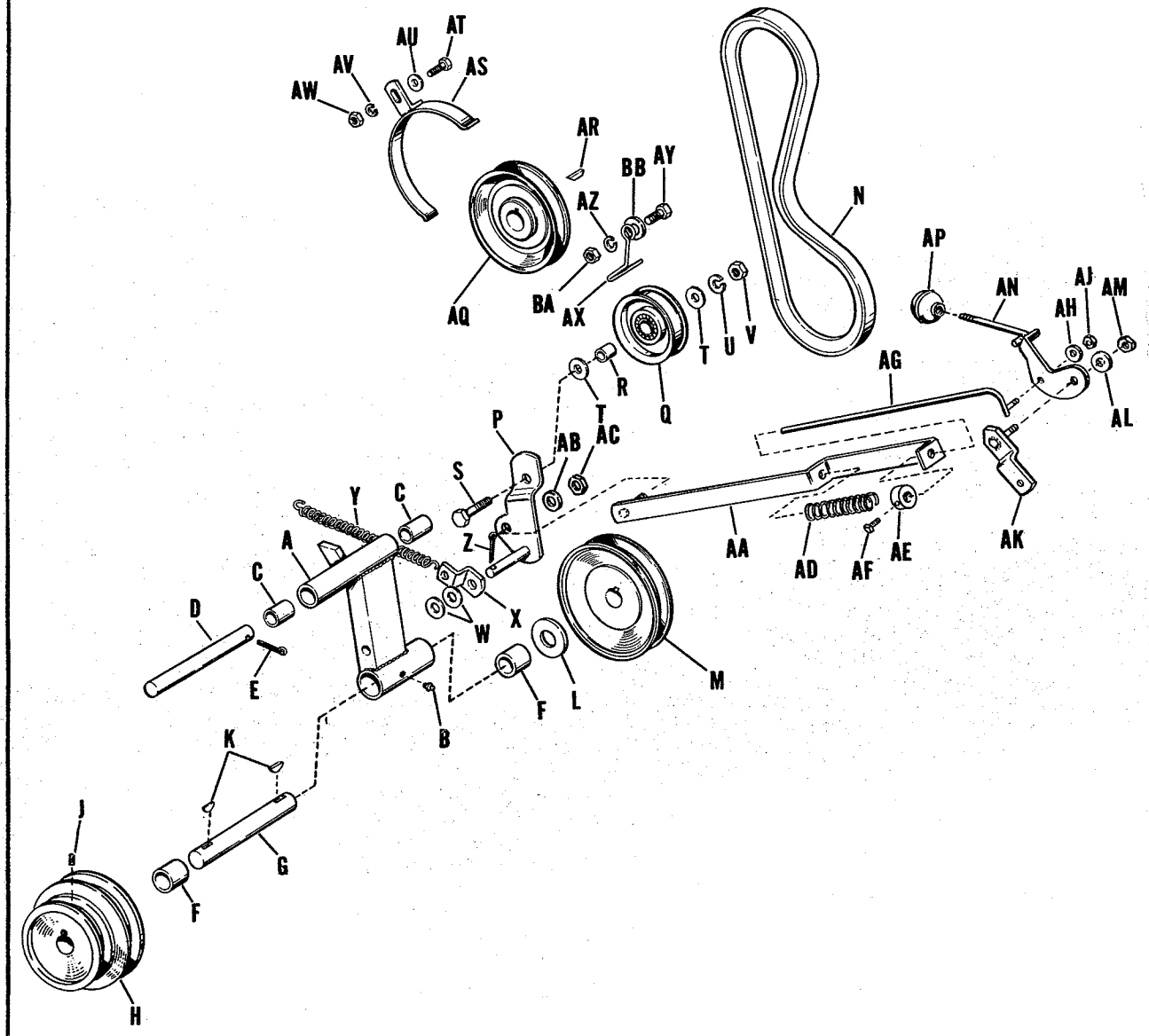
Fig. 3

POWER TAKE-OFF

Order by Part Number

Reference Letter	Part No.	Description
A	154228	Bracket Assembly, Drive
B	727002	Fitting, Grease
C	8051038	Bushing
D	154233	Rod, Pivot
E	722007	Pin, Cotter
F	154258	Bearing, Needle
G	154234	Shaft, Power Take-Off
H	154355	Pulley, Power Take-Off
J	713503	Screw, Set, Cup Point, Socket Hd., 5/16" - 18 N.C. x 5/16" lg.
K	725003	Key, Woodruff
L	108182	Washer
M	154308	Pulley
N	154307 35"	Belt, "V", Power Take-Off
P	154360	Lever Assembly, Idler
Q	~~154310~~	Pulley, Idler 154534
~~R~~	~~8171045~~	~~Bushing~~
S	705016	Capscrew, Hex Hd., 3/8" - 16 N.C. x 1-1/4" lg.
T	719002	Washer, Plain, 5/16"
U	720002	Washer, Lock, 3/8"
V	717003	Nut, Hex, Full, 3/8" - 16 N.C.
W	719001	Washer, Plain, 3/8"
X	154368	Clip, Spring
Y	154369	Spring, Tension
Z	722009	Pin, Cotter, 1/8" x 3/4" lg.
AA	154365	Guide Assembly, Rod
AB	719001	Washer, Plain, 3/8"
AC	717510	Nut, Lock, Hex Hd., Full, 3/8" - 16 N.C.
AD	8191045	Spring
AE	8191022	Collar, Set
AF	713001	Screw, Set, Sq. Hd. Cup Pt., 1/4" - 20 N.C. x 3/8" lg.
AG	154364	Rod Assembly, Clutch
AH	719002	Washer, Plain, 5/16"
AJ	717511	Nut, Lock, Hex Hd., Full, 5/16" - 18 N.C.
AK	154362	Pivot Bar Assembly
AL	719001	Washer, Plain, 3/8"
AM	717510	Nut, Lock, Hex Hd. Full, 3/8" - 16 N.C.
AN	154356	Lever Assembly, Clutch
AP	122005	Knob
AQ	154312	Pulley
AR	8061081	Key
AS	154243	Guard Assembly, Belt
AT	705005	Capscrew, 3/8" - 16 N.C. x 1" lg.
AU	719001	Washer, Plain, 3/8"
AV	720002	Washer, Lock, 3/8"
AW	717003	Nut, Hex, Full, 3/8" - 16 N.C.
AX	8021014	Stop, Belt
AY	705031	Capscrew, 3/8" - 16 N.C. x 7/8" lg.
AZ	720002	Washer, Lock, 3/8"
BA	717003	Nut, Full, Hex, 3/8" - 16 N.C.
BB	719001	Washer, Plain, 3/8"

POWER TAKE-OFF



Order by Part Number

5. Mount "V" belt in place on driven pulley as shown in figure 5 and attach spring to bottom hole in the spring holder and hook other end of the spring to the idler lever spring holder. Mount belt stop as shown with 3/8" bolt, flat washer, lockwasher and hex nut. When idler pulley is engaged, 1/8" clearance between belt stop and back of "V" belt is required. Note: "V" belt runs under idler pulley. See figure 5.

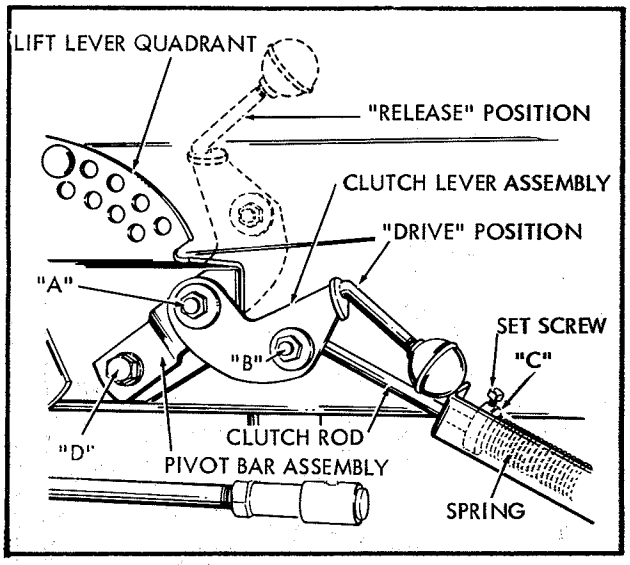


Fig. 4

LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun loaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation.

OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See figure 4. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idler pulley against the drive belt, and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes-up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power take-off. Figure 4 shows clutch lever in drive position.

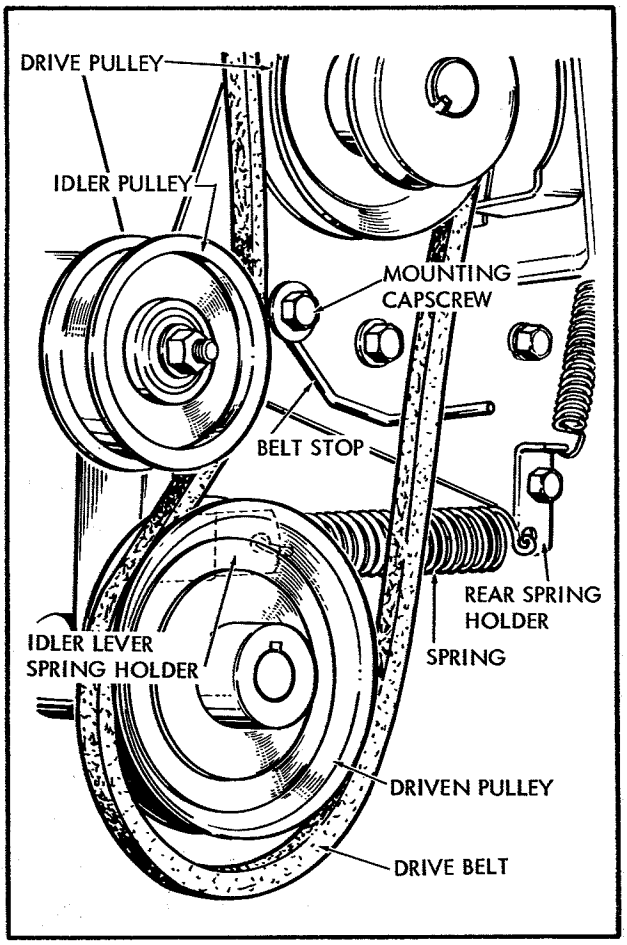


Fig. 5

ADJUSTMENT

At points "A" and "B" of figure 4, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "drive" position and observe clearance between collar "C" (figure 4) and end of bracket. This clearance should normally be approximately 3/4 inch; at this setting the idler pulley should be snugly against the drive belt. If additional tension is required, release clutch lever and loosen set screw on collar and slide collar farther back on clutch rod. Retighten set screw in collar and put clutch lever in drive position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of belts and idler pulley bearings.