

# **ARTS3463**

7]hm'UbX'7\]bYgY'7i `h fY

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#### 5ggYgga Ybh

#### 5ggYgga YbhHUg\_g

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9ggUmi	) \$1	%#\$, #&\$&%`%%) - `DA	%ž'&ž'' ž'(
±bX]j ]Xi U``dfYgYbhUh]cb`]b h\Ya YX`[ fci d`gYhf]b[	' \$I	j Uf]ci gʻfXYHJ]`YX`]bZcfa Uf]cb k]```VY`dfcj ]XYX`cb`H\Y A ccX`YŁ	&ž' ž'(
±b!WUgg <sup>°</sup> HYgh	&\$ı	k YY_`%\$	%ž'&ž''

#### 5ggYgga Ybh'8YhJ]`g

5ggYgga Ybh'% '9ggUm

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8 YW] g.

Gh XYbhg k f]hY Ub YggUmfWU" \* ž\$\$\$ k cfXgŁ VUgYX cb ]bXYdYbXYbhfYgYUfW."

: YYXVUW<u>rj ]U`]bX]j ]Xi U``Wcaa Ybhg`UbX`fi Vf]W"H\]g`]g`h\Y`Z|bU``UggYgga YbhZcf`UhhYbXUbW'di fdcgYg"`</u>

#### 5 X X ] h] c b 5 J X X Y f [ b ] b ( J \ X Y h J ) g .

8 YHJ]`YX`]bZcfa Uhjcb`UbX`[i]XY`]bYg`k]``VY`dfcj]XYX`cb`h\Y`A ccX`Y"

 $\label{thm:continuous} \begin{tabular}{ll} Hi & fb & fb & gYM &$ 

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@Yb[h\., !! % a ]bi hYg dYf dYfgcb

8 YW] g.

Ghi XYbhgʻdfYgYbhifUbXʻUfYʻa Uf\_YXŁʻ]bX]j ]Xi U``mifJ ihcʻ%\$ʻa ]bi hYgʻYUWXʻXYdYbX]b[ icbʻWUggʻg]nYŁicbʻU WkcgYbʻhcd]Wk ]h\]bʻh\YʻZfUa Ykcf\_icZUʻh\Ya YXʻ[ fci d"iH\Yʻhcd]WgʻUfYʻVUgYXʻcbʻUgg][ bYXʻfYUX]b[ g" Ghi XYbhgʻUfYʻcf[ Ub]nYXʻ]bhcʻ[ fci dgʻk ]h\ Uʻg\UfYXʻh\Ya Yžh\Y]fʻ]bX]j ]Xi U``dfYgYbhUh]cbgʻXYU``k ]h\ U X]ZZYfYbhiUgdYWhcZh\Yʻh\Ya Y"'

 $\label{thm:continuous} \begin{tabular}{ll} Hi & fb \end{tabular} $$ $$ H' \end{tabular} $$ $$ fci [\ 'Hi fb] \end{tabular} $$ found & fci [\ 'Hi fb] \end{tabular} $$ found & fci [\ 'Hi fb] \end{tabular} $$ fci [\ 'Hi fb]$ 

5ggYgga Ybh' . ₺!WUgg HYgh

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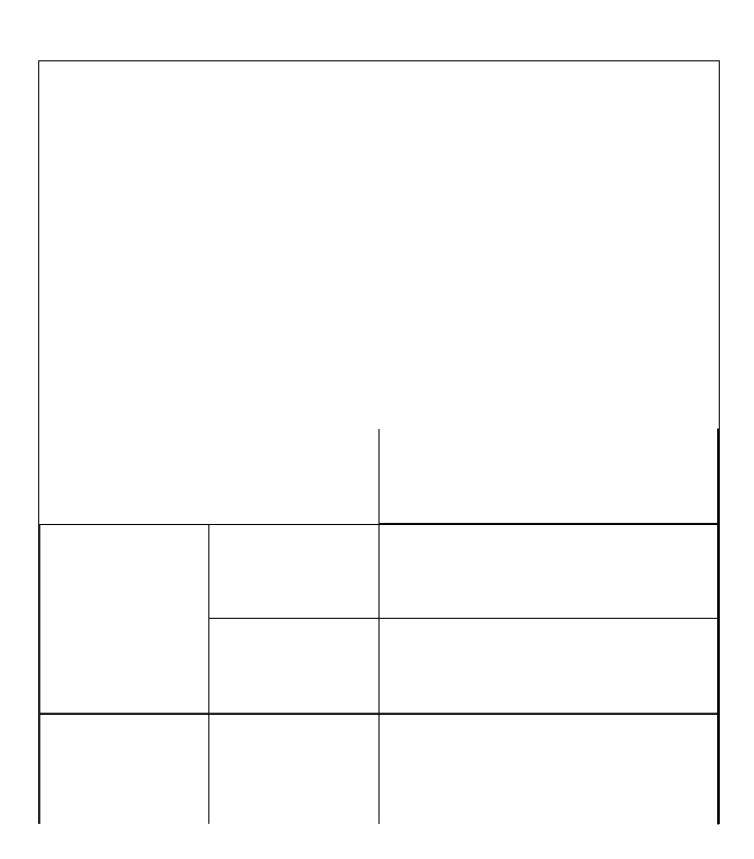
Ghi XYbhgʻWca dʻYhYʻUʻhYghfWU" &ʻ\ci fgŁʻ]bWl X]b[ˈa i `h]d`Y!W\c]WYžh\Ybʻg\cfh`UbX``cb[Yf!Ubgk Yf`ei Ygh]cbg"

Gh XYbhg fYVW]j Y 'U 'a Uf\_'UbX 'WUb'Wcbgi `hh\Y ``YVM fYf Zcf Z fh\Yf ZYYXVUW\_"'

5XX]h]cbU`XYhU]`g.

8 YHJ] YX ] bglfi Wjcb k ] "VY dfcj ] XYX cb h Y A ccX Y ] b UX j UbW "

Hi fb]hjb gYhjb[. H\]g ]g bchU Hi fb]hjb Ugg][ ba Ybh



		• %"
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## FYgci fW/g

#### DfYgWf]VYX F Ygci fWYg

5 ```YI dYWYX`fYUX]b[g`UfY`dfcj]XYX`cb`h\Y`Wci fgY`A ccX`Y

#### FYWca a YbXYX FYgci fWYg

Gca Y 'fYWca a YbXYX 'fYUX]b[g'UfY'U'gc'dfcj]XYX 'cb'h\Y'Wci fgY'A ccX`Y

K YVg]hYg.

: cf'h\Y'`]VfUfm '\hd.#k k k "`]VfUfm'i bgk "YXi "Ui #

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<ufj UfX F YZYfYbW]b[ 'GmghYa . `\hdg.#ghi XYbh'i bgk "YXi 'Ui #\Ufj UfX!fYZYfYbW]b[

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### 7ci fgY 9j U`i Uh]cb UbX 8Yj Y`cda Ybh

 $\label{eq:continuity} Ghi XYbhZYXVUW\underline{q}`UfY`HU\underline{Y}b`]bhc`Wcbg]XYfUh]cb`]b`Wci fgY`XYg][ bž`UggYgga Ybhg`UbX`XY`]j Yf]b[ `a Yh\cXgfYj ]g]cbg"$ 

## Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

#### Hi fb]h]b Gi Va ]gg]cb

Image: Ybwci bhYf'U'dfcV'Ya k \Yb'UhYa dhjb['hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [\'Hi fb]h]bz'd'YUgY

HY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-', ) "''' %cf'Ya U]''h\Ya 'cb'Y! hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui ""Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY\_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'mYUft'''=\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ub'Y! hYbg]cb\mathred{Image: Wa Jhmci h\Yf'f'Y'j UbhXcW a Ybhg\mathred{Image: Wa Uj''9! hYfbU''Gi ddcfhmci 'k ]'`

JbWi XY'Ug'Yj ]XYbW' hc'gi ddcfhmci f'Y! hYbg]cb'Udd']\wUh]cb"'\mathred{Image: Wa Uj''9! hYfbU''Gi ddcfhmci 'k ]'`

Ui hca Uh]\wU'`mfYW']j Y'U'h]\w\_Yhbi a VYf\mathred{Image: hY'Yd\cbY'mci 'k ]\tag{Y}\wu''mug\_'\mathred{Image: Wa'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY'Yd\cbY''mci 'k ]\tag{Y}\wu''mug\_'\mathred{Image: hY'\mathred{Image: hY'\mathred{I

; YbYfU``mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\W)``mij ]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ ba Ybh'' =b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk ]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\U`hYfbUhjj Y'gi Va ]gg]cb'XYHJ]`g''

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## 5 WUXYa ]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=hWJbihU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW\_bck iYX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

• i bXYfgHJbX'mci f'f][\hg'UbX'fYgdcbg]V]`]h]Yg'Ug'U'gh XYbh'Uhil BGK